



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: A REPORT ON TRENCHING AND SOIL GEOCHEMISTRY ON THE HEN and GOLDEN LEDGE PROPERTIES

TOTAL COST: \$89,986.20

AUTHOR(S): Dan Meldrum, M.Sc., GIT

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NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 4434309

YEAR OF WORK: 2009

PROPERTY NAME: Hen and Golden Ledge

CLAIM NAME(S) (on which work was done): see report

COMMODITIES SOUGHT: copper, gold, silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093A 212, 93A 211

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: Zone10; **EASTING:** 653000; **NORTHING:** 5764000

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

MAILING ADDRESS: #460 – 789 West Pender St.; Vancouver, B.C.; V6C 1H2

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

MAILING ADDRESS: Same as above

REPORT KEYWORDS

The Hen property covers the eastern edge of the Upper Triassic-Lower Jurassic Takomkane Batholith that are in contact with Nicola Group volcanic and sediments. The Anomaly Creek zone is the contact between these rocks and is located beneath a large swamp. 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 Group volcanic rocks and an intrusion of Cretaceous age.

PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

25056, 27754, 29037, 28399, 27754, 25056, 30826

TYPE OF WORK IN THIS REPORT Hen Property	EXTENTOF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOCHEMICAL			
Soil	79 samples	553779	\$14,209.85
RELATED TECHNICAL			
Sampling / Assaying	209 trench samples	553779, 526686, 518934	\$30,609.78
PREPATORY / PHYSICAL	0		
Trench (number/metres)	22 trenches (842m)	553779, 526686, 518934	\$18,747.50
Sub Total			\$63,567.13
TYPE OF WORK IN THIS REPORT Golden Ledge	EXTENTOF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOCHEMICAL			
Golden Ledge Soil	169 samples		\$26,419.07
Sub Total			\$26,419.07
Grand Total for two Properties			\$89,986.20

BC Geological Survey
Assessment Report
31419

A REPORT ON
TRENCHING AND SOIL GEOCHEMISTRY
ON THE
HEN PROPERTY
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.
#460 – 789 West Pender St.
Vancouver, BC, V6C1H2

PREPARED BY
Dan Meldrum, M.Sc., GIT

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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 4874.62 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 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.

2. INTRODUCTION AND TERMS OF REFERENCE

This report has been prepared in order to satisfy assessment requirements. It discusses the 2009 Soil Geochemical sampling program and Trenching carried out on the Hen Property.

The information for the accompanying report was obtained from sources cited under references and from field work conducted during the 2009 work program. The registered owner of the Hen property is Happy Creek Minerals Ltd.

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 5710.72 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 February 16, 2010)

Tenure #	Claim Name	Expiry Date	Area (ha)
518934	HEN-MAIN	2014/dec/31	1830.06
526686	HEN	2014/dec/31	955.05
526702	HEN WEST	2012/dec/31	497.22
553779	HEN SOUTHWEST	2012/dec/31	437.86
553784	HEN SOUTHWEST 1	2012/dec/31	119.37
579872	HAP	2012/dec/31	238.78
579879	HAP 2 0	2011/dec/31	358.25
586994		2010/dec/31	438.03
596761	AC SOUTH	2010/dec/31	477.75
606730	HEN HOUSE 1	2010/dec/31	358.35
Total			5710.72

All claims located within Mapsheet 093A

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
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.
2008	Happy Creek re-logged and sampled core from one of two holes drilled by Pioneer Metals Corp in 1996. Geologically mapped the Anomaly Creek and Hen areas. Conducted grid-based soil geochemical sampling of part of the Anomaly Creek area and part of the Hen area. Prospected and conducted silt and rock geochemical sampling across the property. 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

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 \pm 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 \pm 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).

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. 2009 EXPLORATION PROGRAM

During 2009 Happy creek Minerals completed 842.0m of trenching (a total of 198 chip samples were taken) and conducted a soil geochemical survey of 79 samples on the Hen Property.

6.1 Trenching

6.1.1 Trenching on the Anomaly Creek Prospect (371m)

During 2009 the Company completed 371m in 12 trenches covering portions of a positive 3D Induced Polarization (3D IP) and magnetic geophysical anomaly and widespread positive copper, lead and zinc values in soil and surface rock samples. This prospective area is approximately one kilometre by one kilometre in dimension and is part of a much larger mineralized system that remains open in extent. Trenches were located on the west and east side of a northerly trending swampy area that is approximately 500m to a kilometre in width and over two kilometres in length (Figure 4).

Trench 5 returned 26.0m containing 0.07% zinc. Trench T-8 returned 4.0m containing 0.05% lead and 0.09% zinc, and T-10 returned 2.0m containing 0.18% arsenic and both mineralized intervals remain open in extent. Trench T-11 returned 44.0m containing 0.04% zinc, including 4.0m grading 0.03% copper, 0.04% lead and 0.14% zinc.

Rock grab samples taken from trenches on the western side of the swamp returned maximum values of 0.35% copper, 0.04 g/t gold, 2.8 g/t silver, 0.10% zinc and 0.07% lead. Across the swamp approximately 500m to the east, similar samples returned up to 0.09% copper and 0.06% zinc. Trenching has confirmed an area approximately one square kilometre in dimension contains positive soil geochemical and induced polarization geophysical anomalies that are underlain by moderate to strongly altered and mineralized rocks.

6.1.2 Trenching on the Dyke Zone (276m)

During 2009, trenching was conducted on the Dyke zone, where previous chip sampling returned 3.5m grading 3.46 g/t gold and grab samples contain up to 35.0 g/t gold. Results from the 2009 trenching include 4.0m containing 2.08 g/t gold and 2.0m containing 4.20 g/t gold that together with previous sampling, defines the Dyke zone on surface for approximately 40m and remains open in extent. To the northwest of the Dyke zone, a trench at the original Hen prospect previously returned 2.1m grading 3.98 g/t gold and diamond drilling between 1995 and 1996 returned 8.0m containing 0.80 g/t gold, 1.6m of 1.0 g/t gold, and 0.86m of 1.98 g/t gold. Positive values of gold in soil occur between the Dyke and Hen prospects, including values up to 2.65 and 1.41 g/t gold. The similar alteration, style of mineralization and positive gold values in soil samples suggest good potential for the Hen and Dyke zones that are over one kilometre apart, to be part of the same mineralized system.

6.1.3 Trenching on the Ledge Zone (195m)

Two of three trenches on the Ledge prospect returned geochemically strong arsenic values, an element that is recognized as a pathfinder to some gold deposits (Figures 7a-e). Trench T-13 returned 28.0m containing 400 ppm arsenic and 0.02 g/t gold, and 16m of 300 ppm arsenic. Trench T-14 returned 36.0m of 300 ppm arsenic and 4.0m grading 0.12 g/t gold and 0.11% arsenic that remains open in extent. Previous rock sample results approximately 500m to the southeast of the trenches have returned anomalous values up to 1.14 g/t gold.

Table 3. Location of Trenches

Zone	Trench #	Easting*	Northing	Azimuth	Length (m)	Subtotal (m)
Anomaly Creek	T-1	653423	5763892	70	45	
Anomaly Creek	T-2	653318	5764273	90	42	
Anomaly Creek	T-3	653258	5764720	78	40	
Anomaly Creek	T-4	653327	5764736	78	28.5	
Anomaly Creek	T-5	653232	5764757	90	56	
Anomaly Creek	T-6	653304	5764754	90	28	
Anomaly Creek	T-7	653248	5764765	90	35.0	
Anomaly Creek	T-8	654090	5764576	360	13.5	
Anomaly Creek	T-9	654112	5764571	360	7.5	
Anomaly Creek	T-10	654147	5764563	90	14.0	
Anomaly Creek	T-11	654147	5764360	270	43.5	
Anomaly Creek	T-12	654094	5764355	270	18.0	371.0
Ledge	T-13	658997	5767129	180	80.0	
Ledge	T-14	659036	5767117	180	65.0	
Ledge	T-15	659069	5767087	180	50.0	195.0
Dyke	T-16	657362	5766761	180	59.0	
Dyke	T-16A	657387	5766715	194	10.0	
Dyke	T-17	657373	5766699	180	24.0	
Dyke	T-18	657383	5766757	180	42.0	
Dyke	T-19	657420	5766750	180	19.0	
Dyke	T-20	657416	5766721	180	55.0	
Dyke	T-21	657468	5766787	180	33.0	
Dyke	T-22	657455	5766735	180	34.0	276.0
Total					842.0	

All locations are UTM NAD83 Zone 10.

Table 4. Select Intervals from 2009 Trenching Program

Trench ID	From (m)	To (m)	Width (m)	Cu (%)	Pb (%)	Zn (%)	As (%)	Au (g/t)
T-1	12	16	4	0.06	0.00	0.01	0.00	0.01
T-3	16	38	22	0.01	0.00	0.02	0.01	0.00
T-5	28	56	26	0.01	0.01	0.07	0.01	0.00
T-8	0	12	12	0.01	0.02	0.03	0.01	0.00
Incl	0	4	4	0.01	0.05	0.09	0.02	0.01
T-9	0	7	7	0.02	0.02	0.01	0.01	0.01
T-10	12	14	2	0.02	0.00	0.02	0.18	0.01
T-11	0	44	44	0.02	0.01	0.04	0.01	0.00
incl	32	36	4	0.03	0.04	0.14	0.02	0.00
T-12	0	4	4	0.01	0.00	0.03	0.00	0.00
T-13	0	4	4	0.01	0.02	0.06	0.01	0.01
T-13	28	44	16	0.01	0.00	0.01	0.03	0.01
T-13	52	80	28	0.01	0.00	0.01	0.04	0.02
T-14	0	36	36	0.01	0.00	0.01	0.03	0.01
T-14	52	56	4	0.02	0.00	0.01	0.11	0.12
T-16	44	48	4	0.01	0.00	0.00	0.01	2.08
T-16a	4	6	2	0.01	0.00	0.00	0.01	4.20
05T-1	0	3.5	3.5	0.00	0.00	0.00	0.00	3.46
05GRAB			0	0.00	0.00	0.00	0.00	35.04
05 GRAB2			0	0.00	0.00	0.00	0.00	2.34

6.2 Geochemical Surveys

Grid-based soil geochemical sampling took place on the Anomaly Creek area of the property. Samples were collected at 50 m intervals on grid lines spaced approximately 200m apart (Figures 8 a-e). 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 B and C.

A total of 79 soil samples were collected from the south of the pre-existing Anomaly Creek grid. The sampling has extended the multi element (gold-copper-lead-zinc) anomaly located east of the Takomkane - Nicola contact (Blann, 2008) further south and the anomaly remains open to the south. 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 100g 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 C: Geochemical Survey Soil, Silt and Rock Acme Lab Certificates.

Table 5: Statistical Results for 2009 Soil Samples (n = 79)

Element	Percentiles					
	Min.	Max.	Average	80th	90th	95th
Mo (ppm)	0.60	2.60	1.02	1.20	1.50	2.03
Cu (ppm)	12.50	223.70	60.02	78.86	103.66	141.07
Pb (ppm)	2.30	16.10	7.75	8.90	9.82	11.49
Zn (ppm)	23.00	152.00	67.78	85.40	97.20	109.20
Ag (ppm)	0.10	0.60	0.17	0.20	0.30	0.40
As (ppm)	3.80	41.60	13.32	16.88	19.92	26.20
Au (ppb)	0.50	14.00	2.07	2.88	4.22	7.24
W (ppm)	0.10	1.40	0.18	0.20	0.20	0.34

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

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.

Trenching has revealed at least one zone of potentially economic grade gold mineralization 10 – 20m wide with a strike of at least 50m. This zone is open to the west and partly open to the east and untested at depth. Numerous other intervals are highly anomalous in Cu, Pb, Zn, As, and Au. Nearly every trench was highly anomalous in one or more of these

elements. For example, Trench 13 was highly anomalous in Cu, Zn, As, and Au over most of its length.

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. 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, 2008 and 2009. The coincident magnetic-IP-geochemical anomaly is a compelling porphyry copper-gold bulk tonnage target worthy of follow-up.

The positive gold and arsenic values at the Hen, Dyke and Ledge zones occur along a three kilometre easterly trending zone of hornfelsed, calc silicate and quartz-carbonate altered volcanic and sedimentary rocks. Abundant pyrrhotite, pyrite, and locally arsenopyrite, and trace stibnite and chalcopyrite occur. The Dyke and Ledge prospects remain undefined, open in extent and untested by drilling.

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:

- Further trenching on the “golden Dyke” zone perhaps 20 and 40m west of Trench 16.
- A drill hole northward from the road towards the golden dyke zone may be warranted to get a sense of the geometry and vertical extent of the mineralization.
- Continue soil grid south of the anomaly creek grid.
- The area around Trenches 13 and 14 should be investigated more fully.

A detailed office study needs to be completed to understand the glacial dispersion in the area before additional funds are spent following up soils anomalies.

9. STATEMENT OF COSTS for Hen AND Golden Ledge – 2009

Name			Amount
Shipping			
Greyhound Courier Express			\$ 325.67
Analytical Services			
Acme Analytical Laboratories Ltd.			\$ 9733.8
sample storage and disposal fee			\$ 750.00
			<u>\$ 10,483.80</u>
Wages and Geology			
	# days	\$/day	
Allnorth Consultants Ltd.			\$ 299.17
Lodestone Explorations Co. Inc. + truck	21.14	\$ 550.00	\$ 11,626.90
Darin Black + Truck+Saw	20.98	\$ 525.00	\$ 11,012.50
Trevor Ridley	8.27	\$ 275.00	\$ 2,275.00
David Blann, P.Eng. Trench mapping, Supervision	10.91	\$ 550.00	\$ 6,000.00
Mike Martel - Chainsaw reclamation	5.18	\$ 350.00	\$ 1,812.50
Meldrum Geol. Contracting Dan Meldrum, MSc. Geology	18.6	\$ 350.00	\$ 6,510.00
Sassan Liaghat, PhD Geology, data drafting and mapping	31.0	\$ 350.00	\$ 10,850.00
Hendex Exploration Services Ltd.			\$ 1,908.10
			<u>\$ 52,294.17</u>
Supplies, rentals, travel			
			\$ 4,567.00
Room and Board	40.00	\$ 65.00	\$ 2,600.00
Excavator for Trenching			
Kingsgate Excavating			\$ 10,935.00
Mapping software- pro rata, printing, communications			
			\$ 600.00
Subtotal			
			\$ 81,805.64
Overhead@ 10%			\$ 8,180.56
Total			<u>\$ 89,986.20</u>

11. REFERENCES

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11 . Statement of Qualifications

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Ph: (604) 681-9996

E-mail: dan.g.meldrum@gmail.com

CERTIFICATE OF AUTHOR

I, Dan Meldrum, of Port Coquitlam, British Columbia, do hereby certify that:

1. I am a geologist with an office at #460 - 789 West Pender Street, Vancouver, BC, V6C 1H2
2. I graduated from the University of Alberta with a Masters of Science degree in Geology in 1997 and I have practiced my profession continuously since 1992.
3. I am a Geologist in Training with the Association of Professional Engineers and Geoscientists of British Columbia.
4. Since 1997, I have been involved in mineral exploration for base and precious metals. I have conducted this work in Canada, Mongolia, China, and Vietnam.
5. I am presently a contract geologist and have been so since 2003.
6. I am the author of the report titled "A TRENCHING AND SOIL GEOCHEMISTRY REPORT ON THE HEN PROPERTY" dated 2010 February 24.
7. I have been granted Share options of Happy Creek Minerals Ltd.

Dated at Vancouver, British Columbia, this 24th day of February, 2010.

"Dan Meldrum" (Signed)

Dan Meldrum, M.Sc. GIT.

Appendix A

Figures

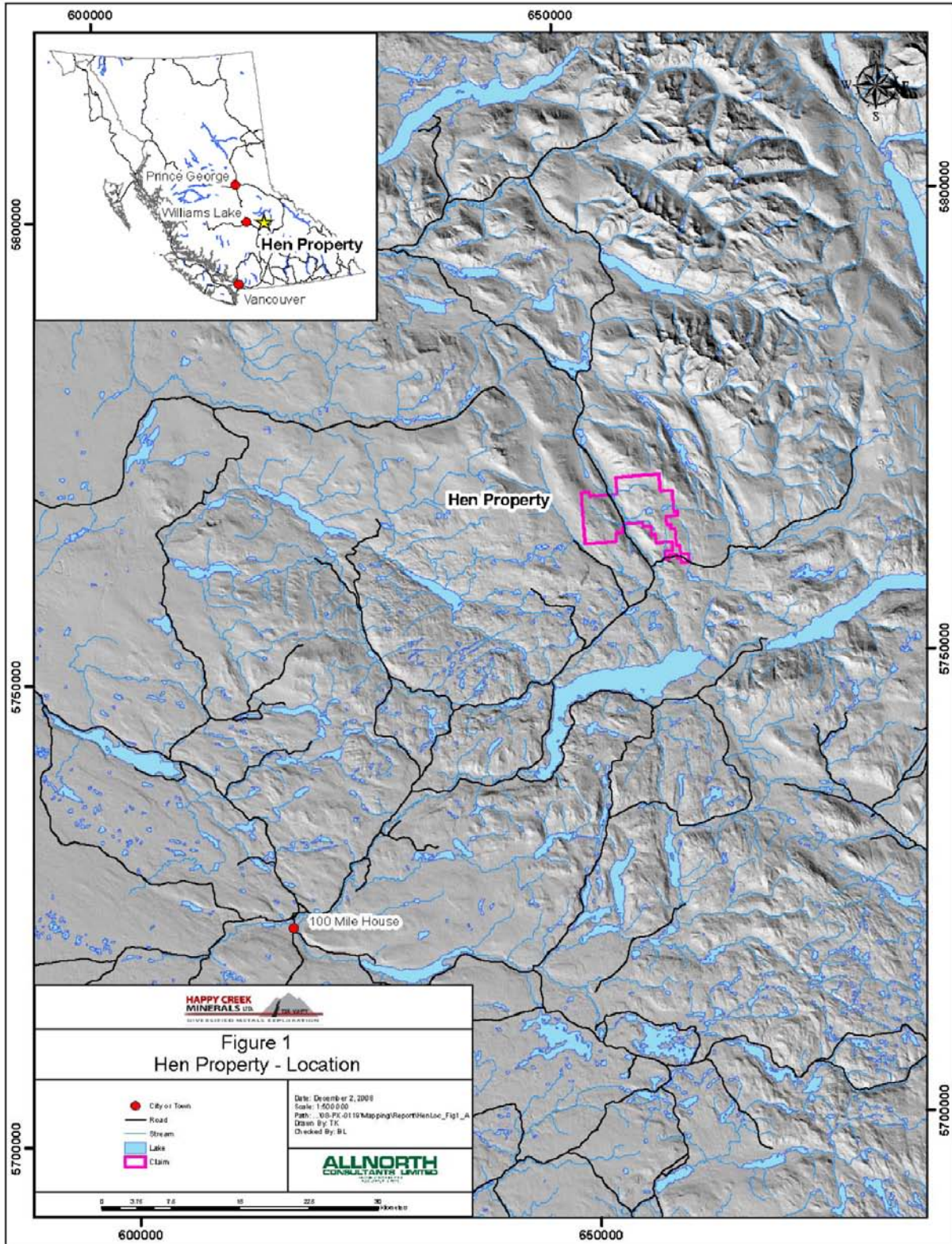


Figure 1: Hen Property Location

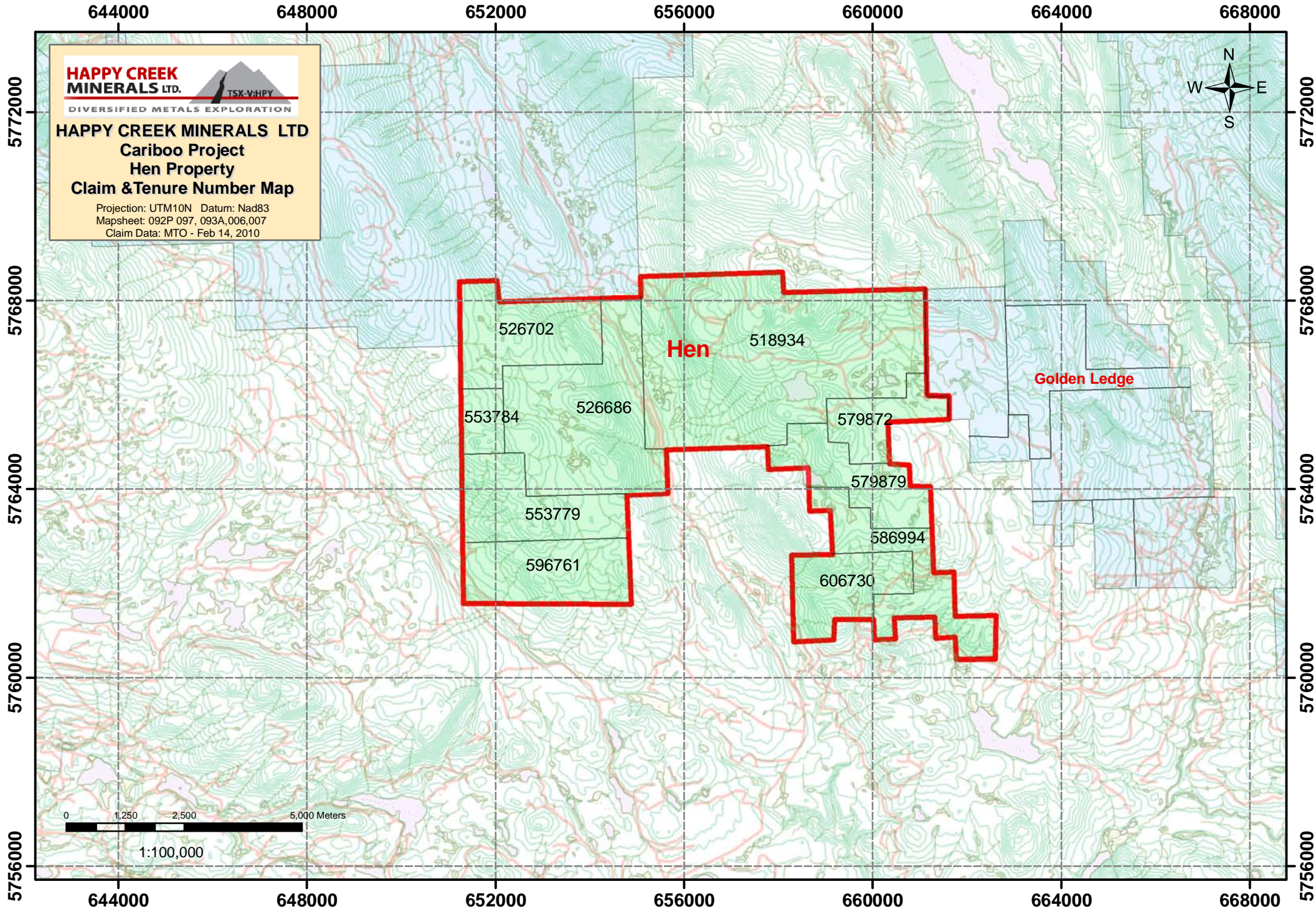
**HAPPY CREEK
MINERALS LTD.**



DIVERSIFIED METALS EXPLORATION

HAPPY CREEK MINERALS LTD
Cariboo Project
Hen Property
Claim & Tenure Number Map

Projection: UTM10N Datum: Nad83
Mapsheet: 092P 097, 093A,006,007
Claim Data: MTO - Feb 14, 2010



Hen

526702

518934

553784

526686

579872

579879

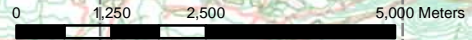
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586994

596761

606730

Golden Ledge



1:100,000

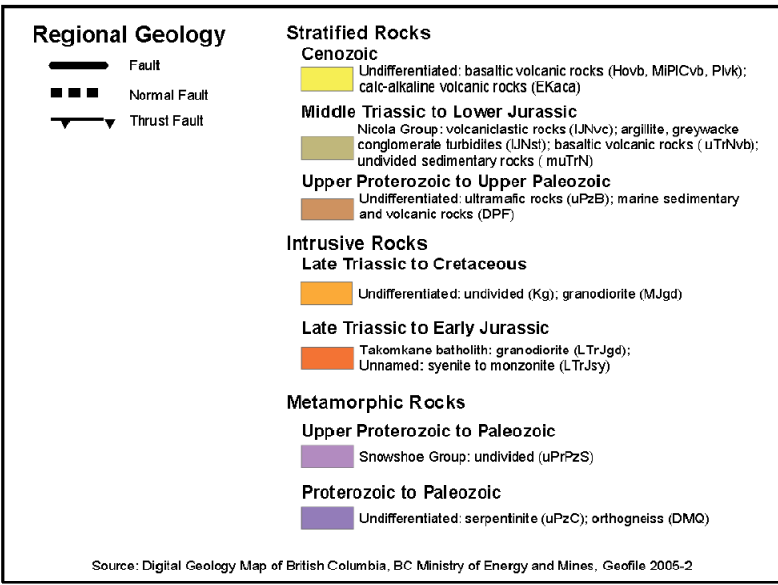
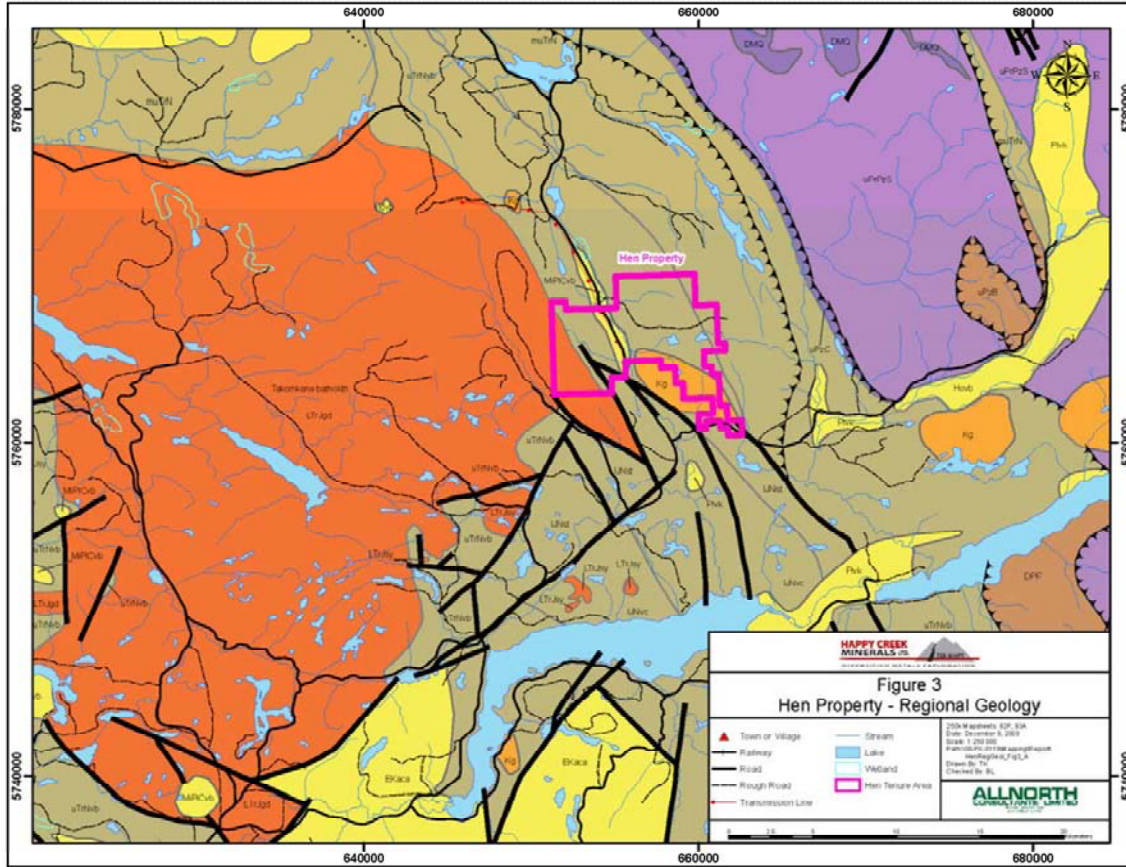
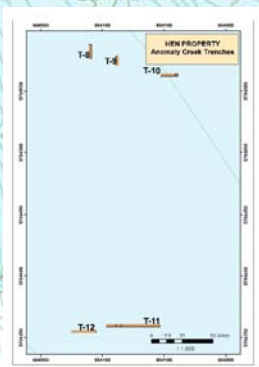
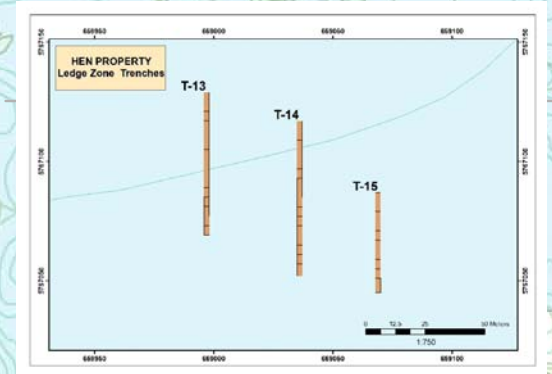
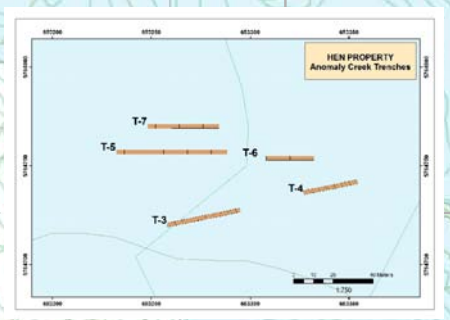
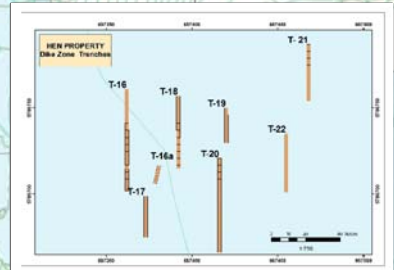


Figure 3: Regional Geology.

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Figure 4
HAPPY CREEK MINERALS LTD.
HEN PROPERTY
Trenching & Soil sampling
Locations
2009
NAD 83 ZONE 10






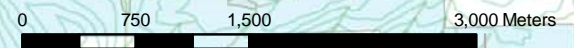
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5766000
5764000
5762000

5768000
5766000
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T-2
T-1

LEGEND
2009 trenching and soil sampling

-  Trench
-  HCM Claim
-  Soil samples



1:50,000

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653250

653300

653350



HEN PROPERTY
Anomaly Creek Zone
2009 Trench Geochemistry
Silver NAD 83 ZONE 10

5764800

5764800

5764750

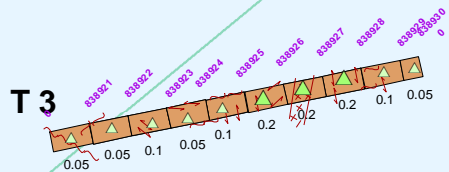
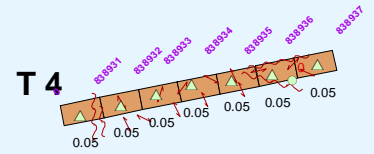
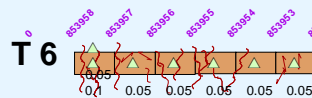
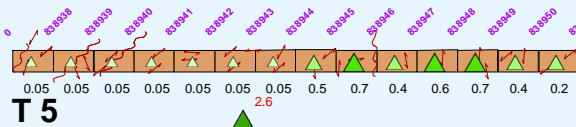
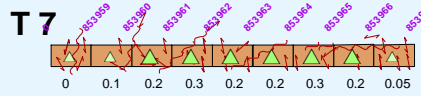
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5764700

5764700

5764650

5764650



LEGEND
Hen Sample Geochemistry
Ag (ppm)

Trench Sample (2009)	Soil (2008)
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△ 0.2 - 0.5	○ 0.4 - 1.0
△ 0.6 - 1.0	● 1.1 - 2.5
△ 1.1 - 2.0	● 2.6 - 0.9

Rock (2006-2008)

△ 0.1	— Trench Geology
△ 0.2 - 0.5	■ Trench outline
△ 0.6 - 1.0	□ HCM Claims
△ 1.1 - 6.2	123456 Sample ID



1:750

653250

653300

653350

Fig 5 a Anomaly Creek Zone Trenches (Ag)

653250

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HEN PROPERTY
Anomaly Creek Zone
2009 Trench Geochemistry
Gold NAD 83 ZONE 10

5764800

5764800

5764750

5764750

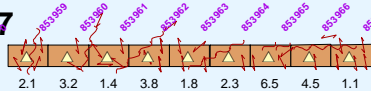
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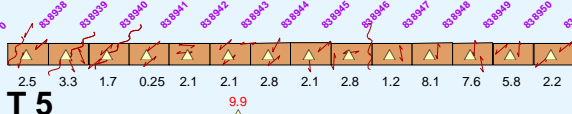
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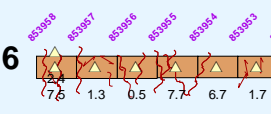
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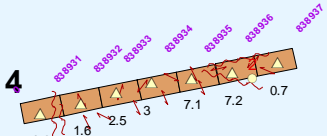
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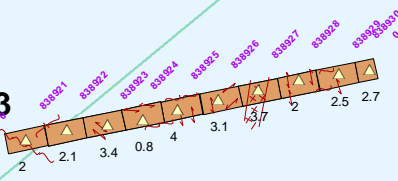
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T 4



T 3

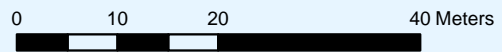


LEGEND
Hen Sample Geochemistry
Au (ppb)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 10.0	○ 0.0 - 4.0
△ 10.1 - 20.0	○ 4.1 - 7.0
△ 20.1 - 50.0	○ 7.1 - 12.0
△ 50.1 - 4204.5	○ 12.1 - 2648.0

Rock (2006-2008)

△ 0.5 - 10.0	— Trench Geology
△ 10.1 - 20.0	■ Trench outline
△ 20.1 - 50.0	■ HCM Claims
△ 50.1 - 31037.6	123456 Sample ID



1:750

653250

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Fig 5 b Anomaly Creek Zone Trenches (Au)

653250

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653350



HEN PROPERTY
Anomaly Creek Zone
2009 Trench Geochemistry
Copper NAD 83 ZONE 10

5764800

5764800

5764750

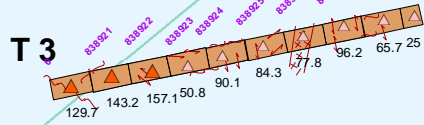
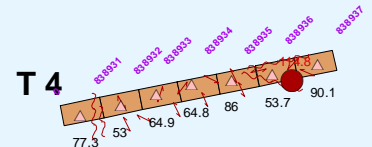
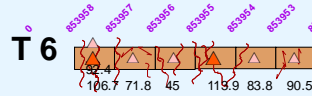
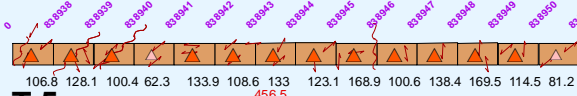
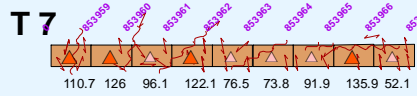
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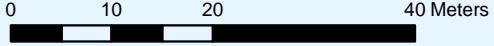
LEGEND
Hen Sample Geochemistry
Cu (ppm)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 100.0	○ 0.0 - 50.0
▲ 100.1 - 200.0	● 50.1 - 75.0
▲ 200.1 - 400.0	● 75.1 - 100.0
▲ 400.1 - 593.9	● 100.1 - 777.1

Rock (2006-2008)

△ 9.8 - 100.0
▲ 100.1 - 200.0
▲ 200.1 - 400.0
▲ 400.1 - 2876.4

— Trench Geology
 Trench outline
 HCM Claims
 123456 Sample ID



1:750

653250

653300

653350

Fig 5 c Anomaly Creek Zone Trenches (Cu)

653250

653300

653350



HEN PROPERTY
Anomaly Creek Zone
2009 Trench Geochemistry
Lead NAD 83 ZONE 10

5764800

5764800

5764750

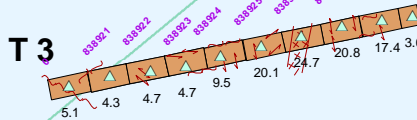
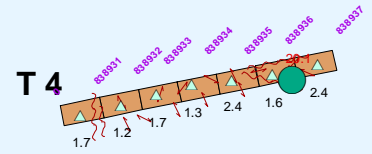
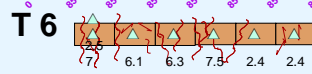
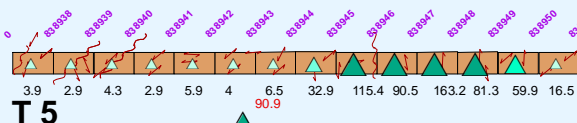
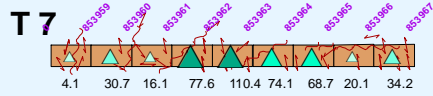
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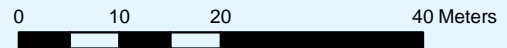
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LEGEND
Hen Sample Geochemistry
Pb (ppm)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 25.0	○ 0.0 - 7.0
△ 25.1 - 50.0	○ 7.1 - 10.0
△ 50.1 - 75.0	● 10.1 - 14.0
△ 75.1 - 524.5	● 14.1 - 157.9

Rock (2006-2008)	Other
△ 0.3 - 25.0	— Trench Geology
△ 25.1 - 50.0	■ Trench outline
△ 50.1 - 75.0	□ HCM Claims
△ 75.1 - 841.6	123456 Sample ID



1:750

653250

653300

653350

Fig 5 d Anomaly Creek Zone Trenches (Pb)

653250

653300

653350



HEN PROPERTY
Anomaly Creek Zone
2009 Trench Geochemistry
Zinc NAD 83 ZONE 10

5764800

5764800

5764750

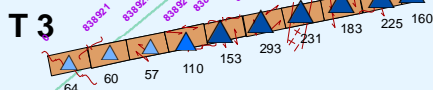
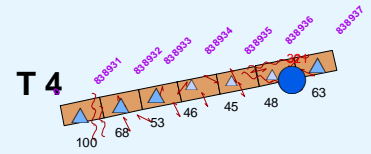
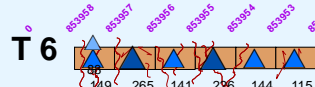
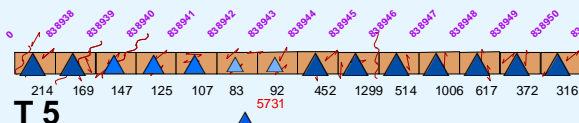
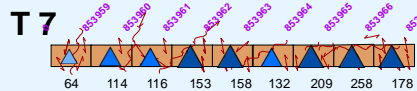
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5764700

5764700

5764650

5764650



LEGEND
Hen Sample Geochemistry
Zn (ppm)

Trench Sample (2009)	Soil (2008)
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▲ 50.1 - 100.0	○ 50.1 - 100.0
▲ 100.1 - 150.0	○ 100.1 - 150.0
▲ 150.1 - 1408.0	● 150.1 - 1333.0

Rock (2006-2008)

▲ 3.0 - 50.0	— Trench Geology
▲ 50.1 - 100.0	■ Trench outline
▲ 100.1 - 150.0	□ HCM Claims
▲ 150.1 - 5731.0	123456 Sample ID



1:750

653250

653300

653350

Fig 5 e Anomaly Creek Zone Trenches (Zn)

657350

657400

657450



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

HEN PROPERTY
Dyke Zone
2009 Trench Geochemistry
Silver
NAD 83 ZONE 10

5766800

5766800

5766750

5766750

5766700

5766700

5766650

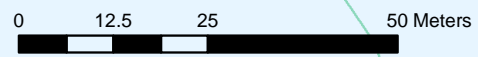
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5766600

5766600

LEGEND
Hen Sample Geochemistry
Ag (ppm)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 0.1	○ 0.0 - 0.1
△ 0.2 - 0.5	○ 0.2 - 0.5
△ 0.6 - 1.0	○ 0.6 - 0.9
△ 1.1 - 2.0	— Trench Geology
Rock (2009)	— Trench outline
△ 0.0 - 0.5	— Road
△ 0.6 - 1.0	— HCM Claims
△ 1.1 - 2.8	— Gold Zone
Rock (2006-2008)	— Sample ID
△ 0.1	
△ 0.2 - 0.5	
△ 0.6 - 1.0	
△ 1.1 - 6.2	



1:1,000

657350

657400

657450

Fig 6 a Dike Zone Trenches (Ag)

657350

657400

657450



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

HEN PROPERTY
Dike Zone
2009 Trench Geochemistry
Gold
NAD 83 ZONE 10

5766800

5766800

5766750

5766750

5766700

5766700

5766650

5766650

5766600

5766600

LEGEND
Hen Sample Geochemistry
Au (ppb)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 10.0	○ 0.0 - 4.0
△ 10.1 - 20.0	○ 4.1 - 7.0
△ 20.1 - 50.0	○ 7.1 - 12.0
△ 50.1 - 4204.5	● 12.1 - 2648.0

Rock (2009)	Other Symbols
△ 0.0 - 10.0	— Trench Geology
△ 10.1 - 20.0	▭ Trench outline
△ 20.1 - 36.8	▭ Road
	▭ HCM Claims
	--- Gold Zone
	123456 Sample ID

T 16

T 18

T 21

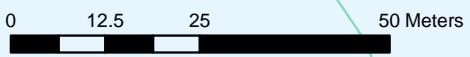
T 19

T 22

T 20

T 16a

T 17



1:1,000

Fig 6 b Dike Zone Trenches (Au)

657350

657400

657450



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

HEN PROPERTY
Dyke Zone
2009 Trench Geochemistry
Copper
NAD 83 ZONE 10

5766800

5766800

5766750

5766750

5766700

5766700

5766650

5766650

5766600

5766600

LEGEND
Hen Sample Geochemistry
Cu (ppm)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 100.0	○ 0.0 - 100.0
▲ 100.1 - 200.0	● 100.1 - 200.0
▲ 200.1 - 400.0	● 200.1 - 400.0
▲ 400.1 - 593.9	● 400.1 - 777.1

Rock (2009)	Other Symbols
△ 0.0 - 200.0	— Trench Geology
▲ 200.1 - 400.0	▭ Trench outline
▲ 400.1 - 3533.9	▭ Road
	▭ HCM Claims
	--- Gold Zone
	123456 Sample ID

T 16

T 18

T 19

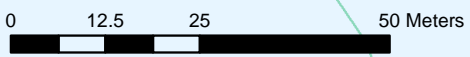
T 21

T 16a

T 20

T 22

T 17



1:1,000

Fig 6 c Dike Zone Trenches (Cu)

657350

657400

657450



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

HEN PROPERTY
Dyke Zone
2009 Trench Geochemistry
Lead
NAD 83 ZONE 10

5766800

5766800

5766750

5766750

5766700

5766700

5766650

5766650

5766600

5766600

T 16

T 18

T 19

T 21

T 16a

T 20

T 22

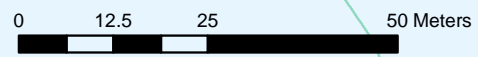
T 17

LEGEND
Hen Sample Geochemistry
Pb (ppm)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 25.0	○ 0.0 - 7.0
△ 25.1 - 50.0	○ 7.1 - 10.0
△ 50.1 - 75.0	● 10.1 - 14.0
△ 75.1 - 524.5	● 14.1 - 157.9

Rock (2009)	Other Symbols
△ 0.0 - 50.0	— Trench Geology
△ 50.1 - 75.0	▭ Trench outline
△ 75.1 - 685.9	▭ Road
	▭ HCM Claims

Rock (2006-2008)	Other Symbols
△ 0.3 - 25.0	- - - Gold Zone
△ 25.1 - 50.0	123456 Sample ID
△ 50.1 - 75.0	
△ 75.1 - 841.6	



1:1,000

657350

657400

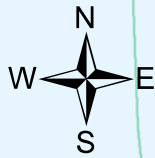
657450

Fig 6 d Dike Zone Trenches (Pb)

657350

657400

657450



HEN PROPERTY

Dyke Zone
2009 Trench Geochemistry
Zinc

NAD 83 ZONE 10

5766800

5766800

5766750

5766750

5766700

5766700

5766650

5766650

5766600

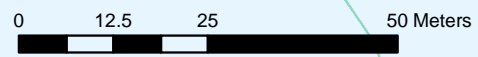
5766600

LEGEND
Hen Sample Geochemistry
Zn (ppm)

Trench Sample (2009)	Soil (2008)
▲ 0.0 - 50.0	● 0.0 - 50.0
▲ 50.1 - 100.0	● 50.1 - 100.0
▲ 100.1 - 150.0	● 100.1 - 150.0
▲ 150.1 - 1408.0	● 150.1 - 1333.0

Rock (2009)	Other Symbols
▲ 0.0 - 100.0	— Trench Geology
▲ 100.1 - 150.0	▭ Trench outline
▲ 150.1 - 1045.0	▭ Road
	▭ HCM Claims

Rock (2006-2008)	Other Symbols
▲ 3.0 - 50.0	--- Gold Zone
▲ 50.1 - 100.0	123456 Sample ID
▲ 100.1 - 150.0	
▲ 150.1 - 5731.0	



1:1,000

657350

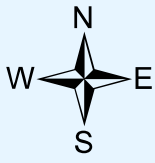
657400

657450

Fig 6 e Dike Zone Trenches (Zn)

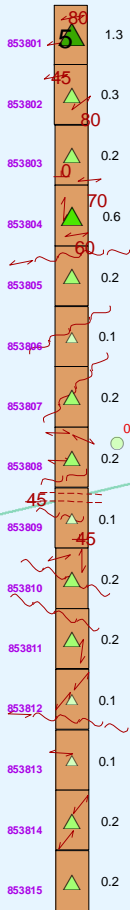
659000

659050

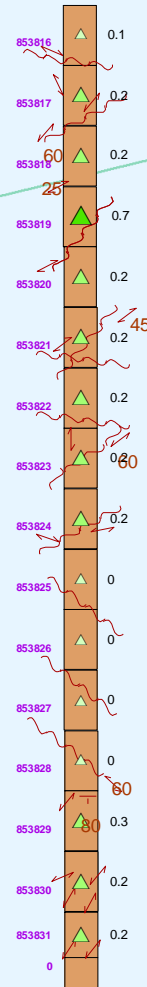


HEN PROPERTY
Ledge Zone
2009 Trench Geochemistry
Silver NAD 83 ZONE 10

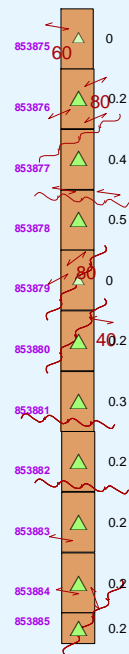
T-13



T-14



T-15



5767100

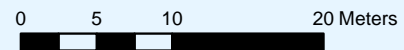
5767100

5767050

5767050

LEGEND
Hen Sample Geochemistry
Ag (ppm)

- | | |
|-----------------------------|--------------------|
| Trench Sample (2009) | Soil (2008) |
| △ 0.0 - 0.1 | ○ 0.0 - 0.3 |
| △ 0.2 - 0.5 | ○ 0.4 - 1.0 |
| △ 0.6 - 1.0 | ● 1.1 - 2.5 |
| △ 1.1 - 2.0 | ● 2.6 - 0.9 |
| Rock (2006-2008) | — Trench Geology |
| △ 0.1 | ■ Trench outline |
| △ 0.2 - 0.5 | □ HCM Claims |
| △ 0.6 - 1.0 | 123456 Sample ID |
| △ 1.1 - 6.2 | |



1:500

659000

659050

Fig 7 a Ledge Zone Trenches (Ag)

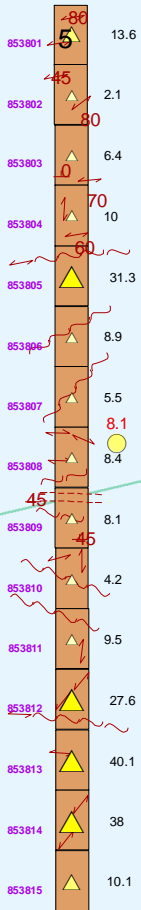
659000

659050

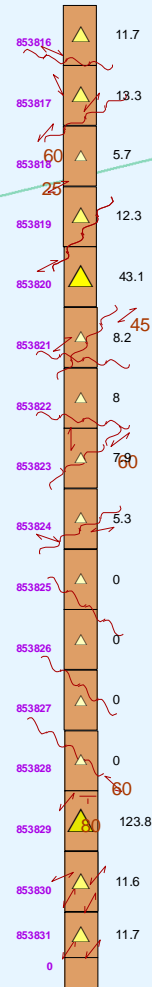


HEN PROPERTY
Ledge Zone
2009 Trench Geochemistry
Gold NAD 83 ZONE 10

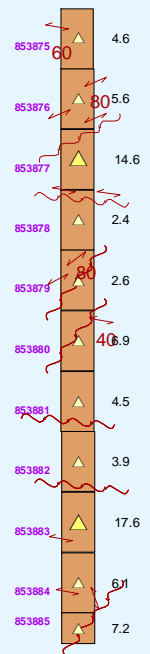
T-13



T-14



T-15



5767100

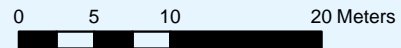
5767100

5767050

5767050

LEGEND
Hen Sample Geochemistry
Au (ppb)

Trench Sample (2009)		Soil (2008)	
△	0.0 - 10.0	○	0.0 - 4.0
△	10.1 - 20.0	○	4.1 - 7.0
△	20.1 - 50.0	○	7.1 - 12.0
△	50.1 - 4204.5	○	12.1 - 2648.0
△	0.5 - 10.0	—	Trench Geology
△	10.1 - 20.0	—	Trench outline
△	20.1 - 50.0	—	HCM Claims
△	50.1 - 31037.6	—	123456 Sample ID



1:500

659000

659050

Fig 7 b Ledge Zone Trenches (Au)

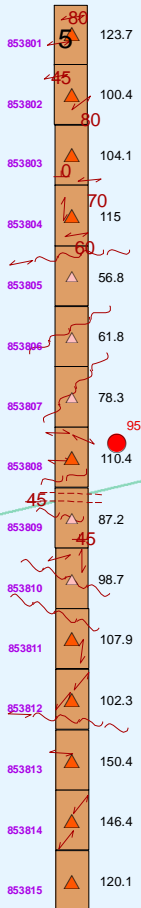
659000

659050

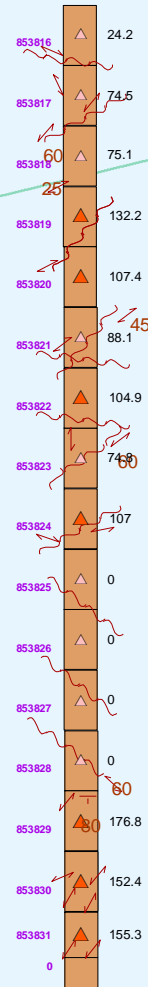


HEN PROPERTY
Ledge Zone
2009 Trench Geochemistry
Copper NAD 83 ZONE 10

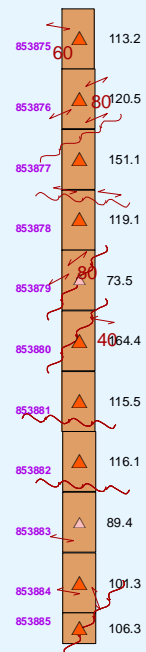
T-13



T-14



T-15



5767100

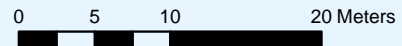
5767100

5767050

5767050

LEGEND
Hen Sample Geochemistry
Cu (ppm)

Trench Sample (2009)	Soil (2008)
△ 0.0 - 100.0	○ 0.0 - 50.0
▲ 100.1 - 200.0	● 50.1 - 75.0
▲ 200.1 - 400.0	● 75.1 - 100.0
▲ 400.1 - 593.9	● 100.1 - 777.1
Rock (2006-2008)	— Trench Geology
△ 9.8 - 100.0	■ Trench outline
△ 100.1 - 200.0	□ HCM Claims
▲ 200.1 - 400.0	123456 Sample ID
▲ 400.1 - 2876.4	



1:500

659000

659050

Fig 7 c Ledge Zone Trenches (Cu)

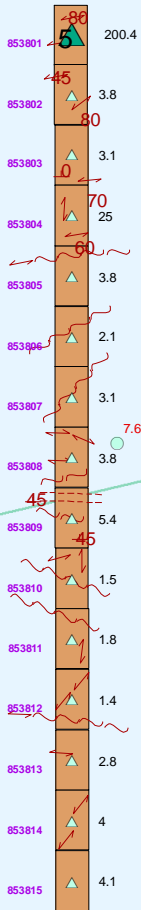
659000

659050

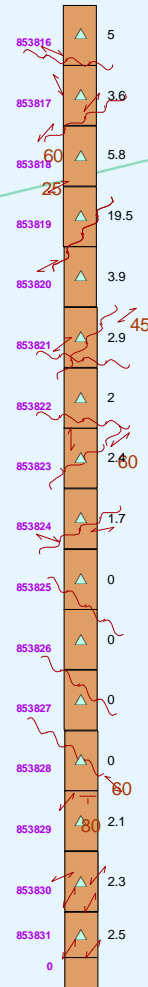


HEN PROPERTY
Ledge Zone
2009 Trench Geochemistry
Lead NAD 83 ZONE 10

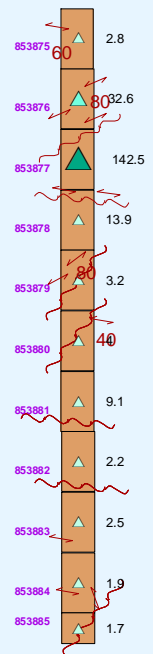
T-13



T-14



T-15



5767100

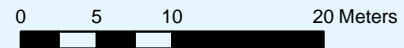
5767100

5767050

5767050

LEGEND
Hen Sample Geochemistry
Pb (ppm)

- | Trench Sample (2009) | Soil (2008) |
|-------------------------|------------------|
| △ 0.0 - 25.0 | ○ 0.0 - 7.0 |
| △ 25.1 - 50.0 | ○ 7.1 - 10.0 |
| △ 50.1 - 75.0 | ● 10.1 - 14.0 |
| △ 75.1 - 524.5 | ● 14.1 - 157.9 |
| Rock (2006-2008) | — Trench Geology |
| △ 0.3 - 25.0 | ■ Trench outline |
| △ 25.1 - 50.0 | □ HCM Claims |
| △ 50.1 - 75.0 | 123456 Sample ID |
| △ 75.1 - 841.6 | |



1:500

659000

659050

Fig 7 d Ledge Zone Trenches (Pb)

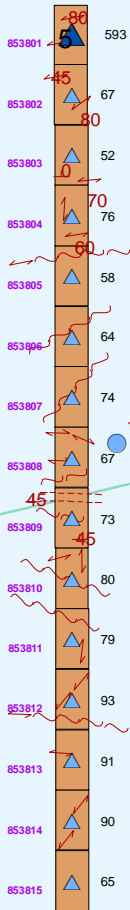
659000

659050

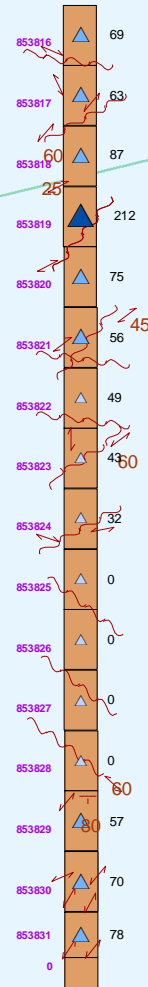


HEN PROPERTY
Ledge Zone
2009 Trench Geochemistry
Zinc NAD 83 ZONE 10

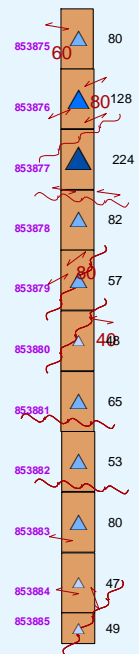
T-13



T-14



T-15



5767100

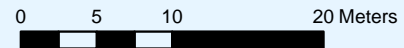
5767100

5767050

5767050

LEGEND
Hen Sample Geochemistry
Zn (ppm)

Trench Sample (2009)	Soil (2008)
▲ 0.0 - 50.0	○ 0.0 - 50.0
▲ 50.1 - 100.0	○ 50.1 - 100.0
▲ 100.1 - 150.0	○ 100.1 - 150.0
▲ 150.1 - 1408.0	● 150.1 - 1333.0
Rock (2006-2008)	— Trench Geology
▲ 3.0 - 50.0	■ Trench outline
▲ 50.1 - 100.0	□ HCM Claims
▲ 100.1 - 150.0	123456 Sample ID
▲ 150.1 - 5731.0	



1:500

659000

659050

Fig 7 e Ledge Zone Trenches (Zn)

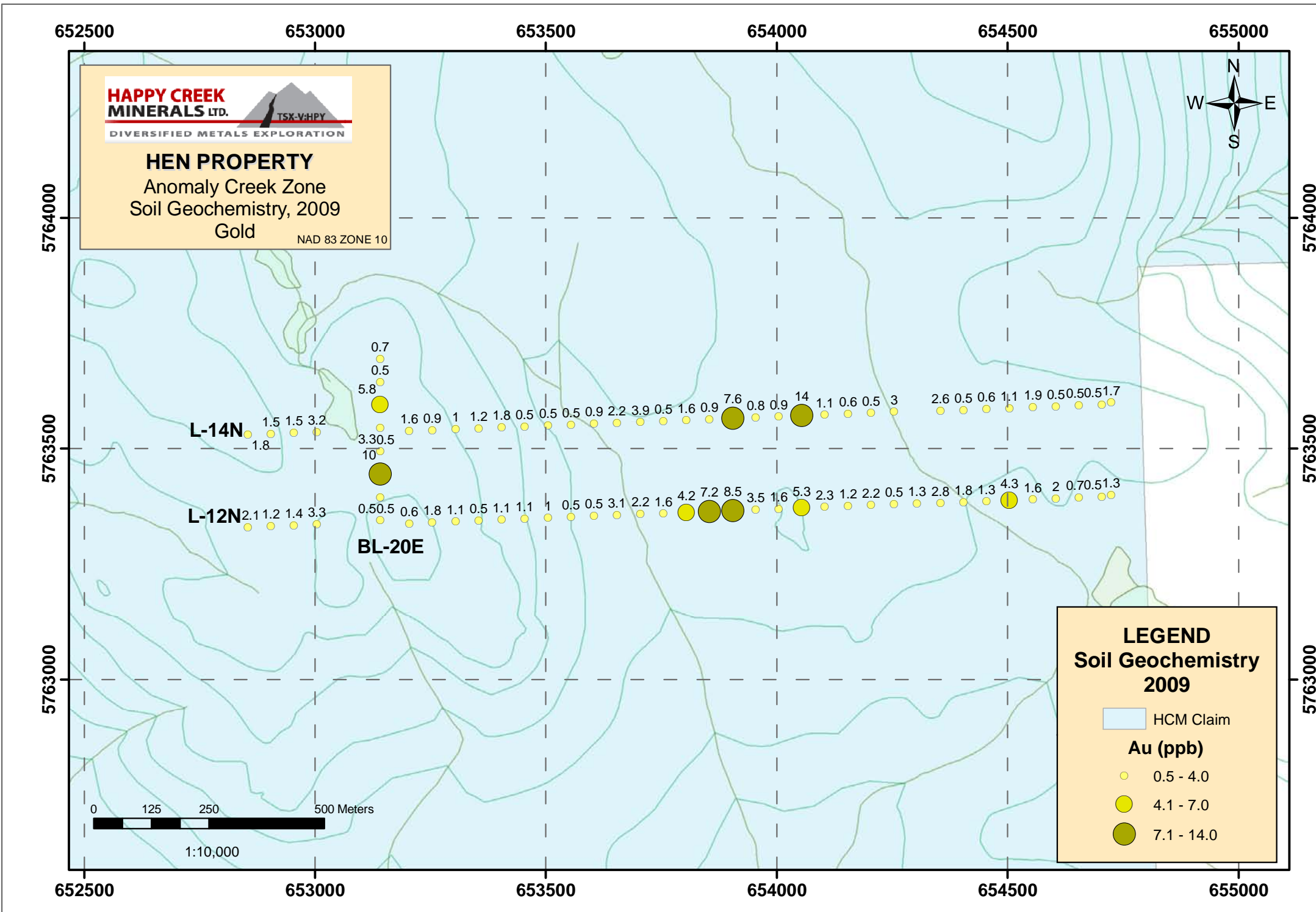


Fig 8 b Soils Map (Au)

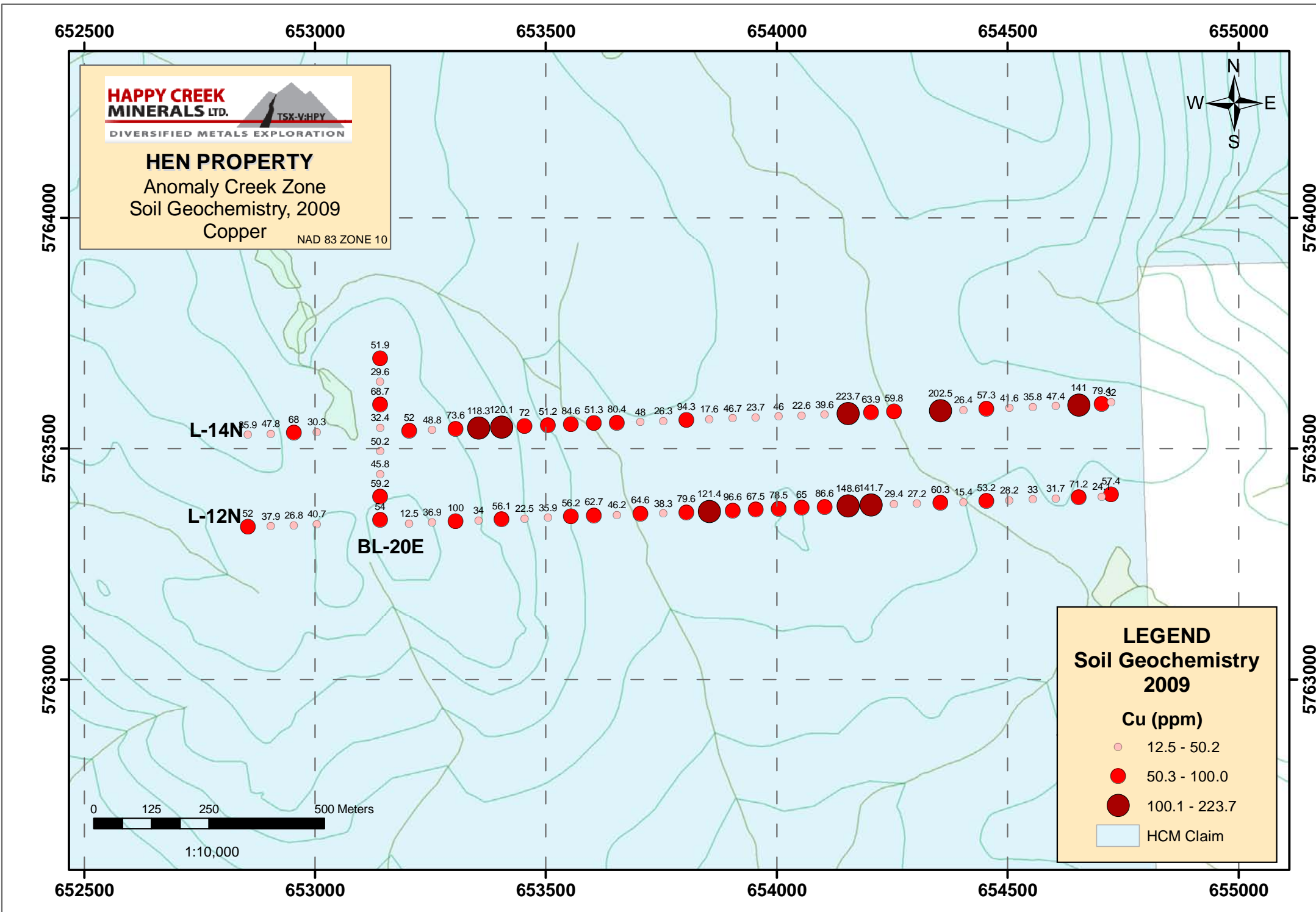


Fig 8 c Soils Map (Cu)

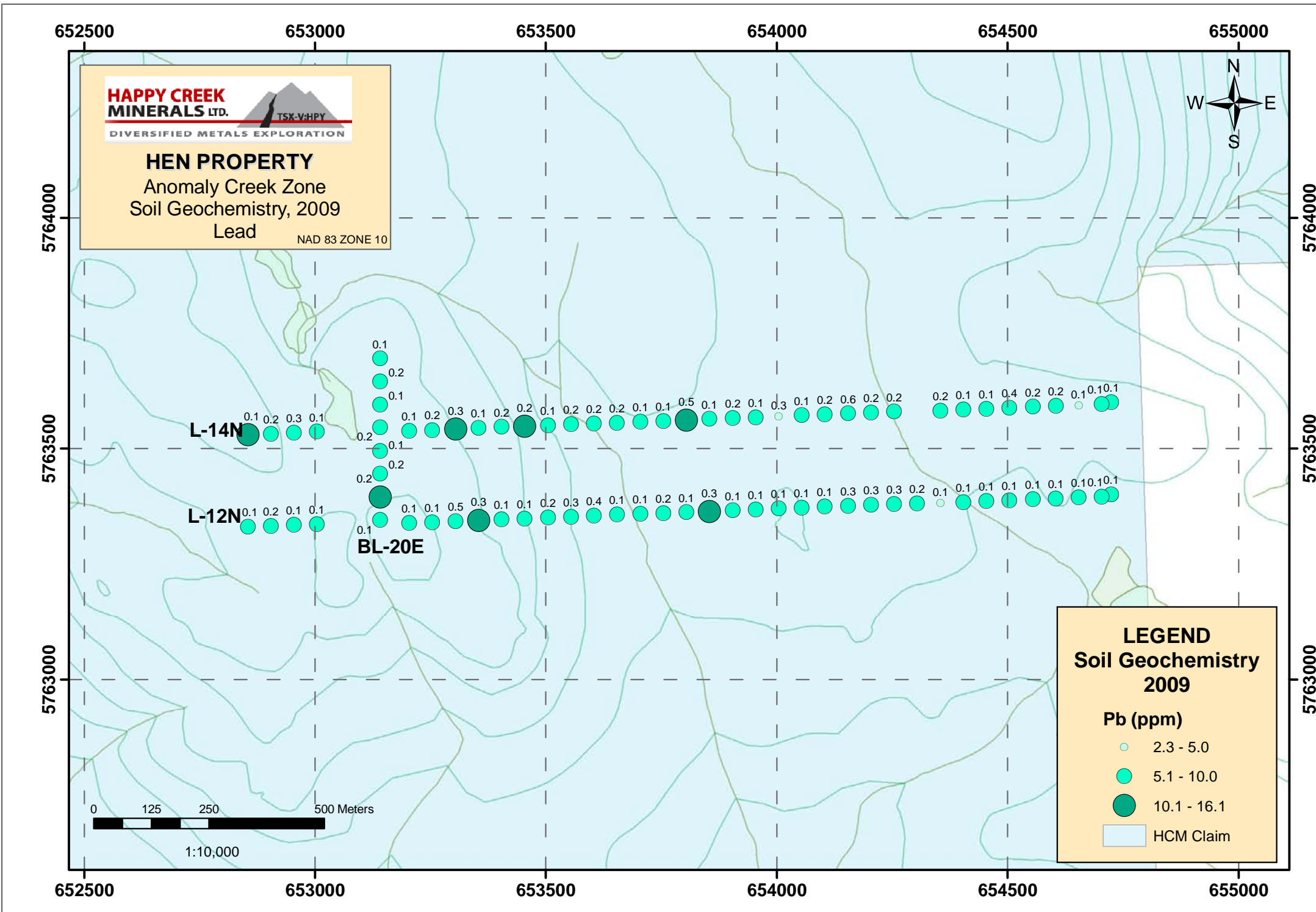


Fig 8 d Soils Map (Pb)

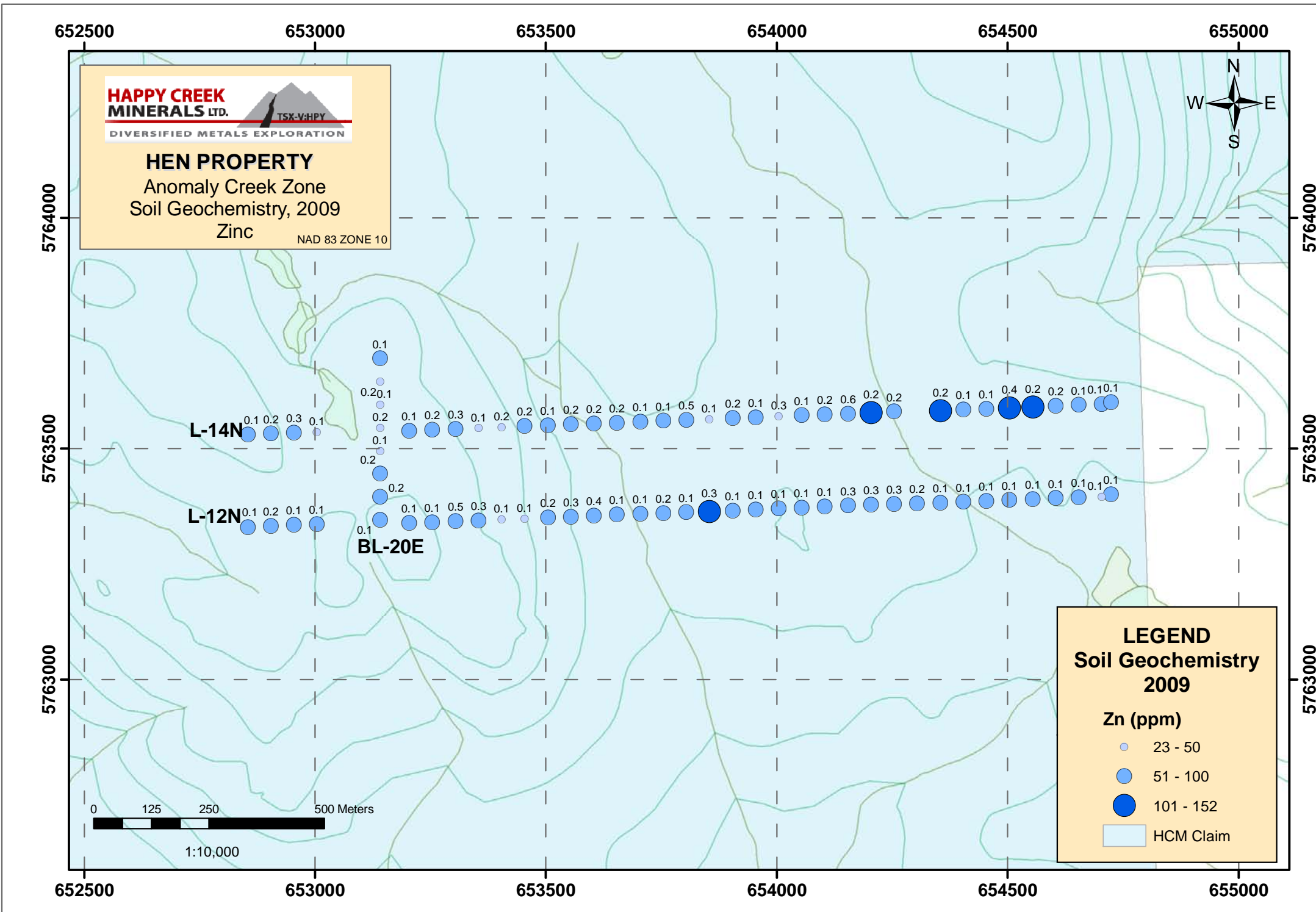


Fig 8 e Soils Map (Zn)

Appendix B

Geochemical Survey Soil, and Trenching Results

Sample	easting	northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)	W (ppm)
L-12N 17E	652854	5763331	0.9	52	7.3	86	0.1	15.1	2.1	0.2
L-12N 17+50E	652904	5763333	0.9	37.9	6.6	54	0.2	9.6	1.2	0.1
L-12N 18E	652954	5763335	1.3	26.8	7.3	51	0.1	10.7	1.4	0.1
L-12N 18+50E	653004	5763337	1	40.7	5.8	98	0.1	12.7	3.3	0.7
L-12N 19+50E	653204	5763339	0.8	12.5	6.3	70	0.1	4.3	0.6	0.1
L-12N 20+50E	653254	5763341	0.9	36.9	8.9	86	0.1	19.9	1.8	0.2
L-12N 21E	653304	5763343	2.5	100	9	51	0.5	5.4	1.1	0.1
L-12N 21+50E	653354	5763345	1.1	34	13.2	71	0.3	4	0.5	0.1
L-12N 22E	653404	5763347	1.1	56.1	6.3	44	0.1	12.5	1.1	0.2
L-12N 22+50E	653454	5763349	0.9	22.5	7.7	40	0.1	5.6	1.1	0.1
L-12N 23E	653504	5763351	0.9	35.9	8.9	52	0.2	4.9	1	0.1
L-12N 23+50E	653554	5763353	0.7	56.2	8.8	93	0.3	10.5	0.5	0.1
L-12N 24E	653604	5763355	2	62.7	9	98	0.4	5.3	0.5	0.1
L-12N 24+50E	653654	5763357	0.6	46.2	5.9	58	0.1	10.5	3.1	0.1
L-12N 25+50E	653704	5763359	0.7	64.6	7.5	92	0.1	21.3	2.2	0.1
L-12N 26E	653754	5763361	0.9	38.3	8.6	52	0.2	9	1.6	0.1
L-12N 26+50E	653804	5763363	0.7	79.6	6.1	66	0.1	26.1	4.2	0.2
L-12N 27E	653854	5763365	2.6	121.4	10.4	149	0.3	20	7.2	0.1
L-12N 27+50E	653904	5763367	0.7	96.6	7.3	80	0.1	16.2	8.5	0.1
L-12N 28E	653954	5763369	1.1	67.5	6.3	62	0.1	17	3.5	0.2
L-12N 28+50E	654004	5763371	0.8	78.5	7.1	74	0.1	41.6	1.6	0.1
L-12N 29E	654054	5763373	1	65	8.4	91	0.1	14.8	5.3	0.1
L-12N 29+50E	654104	5763375	0.6	86.6	6.9	58	0.1	16.5	2.3	0.1
L-12N 30E	654154	5763377	1.2	148.6	7.7	52	0.3	13.4	1.2	0.1
L-12N 30+50E	654204	5763379	0.7	141.7	8.9	59	0.3	28.1	2.2	0.7
L-12N 31E	654254	5763381	1.2	29.4	6.5	60	0.3	9.3	0.5	0.2
L-12N 31+50E	654304	5763382	1.1	27.2	8.1	74	0.2	12.2	1.3	0.2
L-12N 32E	654354	5763383	0.8	60.3	2.3	51	0.1	6.1	2.8	0.1
L-12N 32+50E	654404	5763385	0.8	15.4	8.2	54	0.1	3.8	1.8	0.1
L-12N 33E	654454	5763387	1	53.2	8	60	0.1	12.9	1.3	0.2
L-12N 33+50E	654504	5763389	1	28.2	8.6	63	0.1	11.7	4.3	0.2
L-12N 34E	654554	5763391	1	33	6.9	59	0.1	10.7	1.6	0.2
L-12N 34+50E	654604	5763393	0.9	31.7	8.3	52	0.1	7.4	2	0.2
L-12N 35E	654654	5763395	0.6	71.2	7.8	84	0.1	18.5	0.7	0.8
L-12N 35+50E	654704	5763397	0.6	24.1	8.6	37	0.1	19.2	0.5	0.2
L-12N 36E	654724	5763401	0.8	57.4	8.9	54	0.1	9.1	1.3	0.1
L-14N 17E	652854	5763531	1.5	35.9	14.1	77	0.1	13.4	1.8	0.2
L-14N 17+50E	652904	5763533	0.7	47.8	9.2	69	0.2	17	1.5	0.1
L-14N 18E	652954	5763535	1	68	8.6	64	0.3	16.1	1.5	0.1
L-14N 18+50E	653004	5763537	1	30.3	5.8	32	0.1	8.6	3.2	0.2
L-14N 20+50E	653204	5763539	0.9	52	8.1	53	0.1	18.3	1.6	0.1
L-14N 21E	653254	5763541	1.4	48.8	9.8	83	0.2	19.9	0.9	0.2
L-14N 21+50E	653304	5763543	1	73.6	10.4	82	0.3	12.6	1	0.1
L-14N 22E	653354	5763545	1.8	118.3	7.8	29	0.1	12.2	1.2	0.1
L-14N 22+50E	653404	5763547	2.3	120.1	5.4	32	0.2	7.3	1.8	0.2

Sample	easting	northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)	W (ppm)
L-14N 23E	653454	5763549	2.3	72	14.3	66	0.2	7	0.5	0.2
L-14N 23+50E	653504	5763551	0.9	51.2	7.6	74	0.1	14.6	0.5	0.2
L-14N 24E	653554	5763553	0.7	84.6	5.7	60	0.2	5	0.5	0.1
L-14N 24+50E	653604	5763555	0.8	51.3	9.7	80	0.2	8.7	0.9	1.4
L-14N 25E	653654	5763557	0.9	80.4	9.1	100	0.2	20.5	2.2	0.1
L-14N 25+50E	653704	5763559	0.6	48	7.3	51	0.1	11.3	3.9	0.1
L-14N 26E	653754	5763561	1.5	26.3	7.4	51	0.1	15	0.5	0.2
L-14N 26+50E	653804	5763563	0.8	94.3	11.3	89	0.5	27.1	1.6	0.1
L-14N 27E	653854	5763565	1	17.6	6.4	38	0.1	9.1	0.9	0.1
L-14N 27+50E	653904	5763567	0.9	46.7	6.9	58	0.2	11.4	7.6	0.2
L-14N 28E	653954	5763569	0.8	23.7	7.7	67	0.1	10.8	0.8	0.1
L-14N 28+50E	654004	5763571	1	46	4.7	48	0.3	11.7	0.9	0.1
L-14N 29E	654054	5763573	1.1	22.6	7.2	64	0.1	11.7	14	0.2
L-14N 29+50E	654104	5763575	1.2	39.6	7.8	73	0.2	15	1.1	0.1
L-14N 30E	654154	5763577	1.1	223.7	6.9	89	0.6	33	0.6	0.2
L-14N 30+50E	654204	5763579	1.2	63.9	7.9	120	0.2	14.1	0.5	0.2
L-14N 31E	654254	5763581	0.8	59.8	7.8	53	0.2	16.8	3	0.3
L-14N 32E	654354	5763583	1	202.5	9.9	152	0.2	15.7	2.6	0.1
L-14N 32+50E	654404	5763585	1.3	26.4	6.7	62	0.1	7.1	0.5	0.2
L-14N 33E	654454	5763587	0.7	57.3	6	78	0.1	12.1	0.6	0.2
L-14N 33+50E	654504	5763589	1.1	41.6	8	123	0.4	16.1	1.1	0.2
L-14N 34E	654554	5763591	0.7	35.8	5.5	108	0.2	9	1.9	0.2
L-14N 34+50E	654604	5763593	0.6	47.4	5.4	59	0.2	6.7	0.5	0.1
L-14N 35E	654654	5763595	0.6	141	4.4	61	0.1	19.8	0.5	0.1
L-14N 35+50E	654704	5763597	0.6	79.4	5.3	97	0.1	8.3	0.5	0.1
L-14N 36E	654724	5763601	0.9	32	5.9	58	0.1	10.2	1.7	0.2
BL-20E 12N	653141	5763346	1.2	54	9.3	73	0.1	16.4	0.5	0.2
BL-20E 12+50N	653141	5763396	1.6	59.2	16.1	85	0.2	15	0.5	0.2
BL-20E 13N	653141	5763446	0.7	45.8	6.4	51	0.2	15.9	10	0.1
BL-20E 13+50N	653141	5763496	1.2	50.2	6	37	0.1	12.1	0.5	0.1
BL-20E 14N	653141	5763546	0.7	32.4	6.1	50	0.2	7.4	3.3	0.1
BL-20E 14+50N	653141	5763596	1	68.7	5.2	49	0.1	15.6	5.8	0.2
BL-20E 15N	653141	5763646	0.7	29.6	6.2	23	0.2	7.1	0.5	0.1
BL-20E 15+50N	653141	5763696	0.6	51.9	6.7	52	0.1	13.7	0.7	0.2

Trench_ID	Sample	From (m)	Easting	Northing	To (m)	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
T-1	838901	0	653423	5763892	4	653427	5763894	1.6	351.0	2.5	68	0.10	0.3	3
T-1	838902	4	653427	5763894	8	653430	5763895	2.0	207.1	2.7	67	0.05	1.2	3
T-1	838903	8	653430	5763895	12	653434	5763897	0.5	80.9	3.4	82	0.05	2.1	2
T-1	838904	12	653434	5763897	16	653437	5763898	0.7	593.9	3.6	81	0.40	2.3	11
T-1	838905	16	653437	5763898	20	653441	5763900	0.5	67.5	3.0	73	0.05	1.6	3
T-1	838906	20	653441	5763900	24	653445	5763901	0.3	68.0	2.0	65	0.05	6.7	5
T-1	838907	24	653445	5763901	28	653449	5763903	0.4	173.4	1.6	54	0.05	5.5	11
T-1	838908	28	653449	5763903	32	653453	5763904	0.4	199.8	1.7	83	0.10	1.9	15
T-1	838909	32	653453	5763904	36	653456	5763906	0.5	148.6	2.1	75	0.05	0.7	4
T-1	838910	36	653456	5763906	40	653460	5763908	0.3	89.4	1.5	65	0.05	2.0	3
T-1	N.S.	40	653460	5763908	45	653464	5763910	.	.	.	.	.	.	.
T2	838911	0	653318	5764273	4	653322	5764273	0.5	133.6	2.0	50	0.05	1.1	4
T2	838912	4	653322	5764273	8	653326	5764273	0.7	140.8	2.4	63	0.05	0.7	4
T2	838913	8	653326	5764273	12	653330	5764273	0.5	155.4	2.6	70	0.05	1.0	3
T2	838914	12	653330	5764273	16	653334	5764273	0.9	125.0	3.2	219	0.10	26.9	4
T2	838915	16	653334	5764273	20	653338	5764273	0.8	77.4	4.8	68	0.05	31.9	2
T2	838916	20	653338	5764273	24	653342	5764273	1.3	83.2	5.8	139	0.05	39.6	3
T2	838917	24	653342	5764273	28	653346	5764273	0.9	81.1	59.0	89	0.05	38.4	1
T2	838918	28	653346	5764273	32	653350	5764273	0.5	69.3	8.0	114	0.10	21.3	2
T2	838919	32	653350	5764273	36	653354	5764273	0.2	54.8	1.5	54	0.05	14.2	3
T2	838920	36	653354	5764273	42	653360	5764273	0.3	76.5	2.2	58	0.05	23.9	2
T-3	838921	0	653258	5764720	4	653262	5764721	0.6	129.7	5.1	64	0.05	4.3	2
T-3	838922	4	653262	5764721	8	653266	5764722	0.4	143.2	4.3	60	0.05	4.7	2
T-3	838923	8	653266	5764722	12	653270	5764722	0.4	157.1	4.7	57	0.10	9.1	3
T-3	838924	12	653270	5764722	16	653273	5764723	0.5	50.8	4.7	110	0.05	9.4	1
T-3	838925	16	653273	5764723	20	653277	5764724	1.4	90.1	9.5	153	0.10	25.7	4
T-3	838926	20	653277	5764724	24	653281	5764725	1.0	84.3	20.1	293	0.20	20.6	3
T-3	838927	24	653281	5764725	28	653285	5764726	0.8	77.8	24.7	231	0.20	235.1	4
T-3	838928	28	653285	5764726	32	653289	5764727	0.8	96.2	20.8	183	0.20	94.9	2
T-3	838929	32	653289	5764727	36	653293	5764727	0.5	65.7	17.4	225	0.10	39.8	3
T-3	838930	36	653293	5764727	38	653295	5764728	0.2	25.0	3.6	160	0.05	19.5	3
T-3	N.S.	38	653295	5764728	40	653297	5764728	.	.	.	.	.	.	.

Trench_ID	Sample	From (m)	Easting	Northing	To (m)	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
T-4	838931	0	653327	5764736	4	653331	5764737	1.4	77.3	1.7	100	0.05	25.3	4
T-4	838932	4	653331	5764737	8	653335	5764738	0.4	53.0	1.2	68	0.05	15.2	2
T-4	838933	8	653335	5764738	12	653338	5764739	1.5	64.9	1.7	53	0.05	21.4	3
T-4	838934	12	653338	5764739	16	653342	5764740	1.0	64.8	1.3	46	0.05	20.3	3
T-4	838935	16	653342	5764740	20	653346	5764740	0.7	86.0	2.4	45	0.05	19.5	7
T-4	838936	20	653346	5764740	24	653350	5764741	0.5	53.7	1.6	48	0.05	13.1	7
T-4	838937	24	653350	5764741	28.5	653355	5764742	0.7	90.1	2.4	63	0.05	21.6	1
T-5	838938	0	653232	5764757	4	653236	5764757	1.2	106.8	3.9	214	0.05	4.7	3
T-5	838939	4	653236	5764757	8	653240	5764757	1.3	128.1	2.9	169	0.05	4.2	3
T-5	838940	8	653240	5764757	12	653244	5764757	1.1	100.4	4.3	147	0.05	4.4	2
T-5	838941	12	653244	5764757	16	653248	5764757	0.7	62.3	2.9	125	0.05	2.6	0
T-5	838942	16	653248	5764757	20	653252	5764757	0.9	133.9	5.9	107	0.05	3.7	2
T-5	838943	20	653252	5764757	24	653256	5764757	0.6	108.6	4.0	83	0.05	5.0	2
T-5	838944	24	653256	5764757	28	653260	5764757	0.6	133.0	6.5	92	0.05	7.8	3
T-5	838945	28	653260	5764757	32	653264	5764757	0.6	123.1	32.9	452	0.50	65.2	2
T-5	838946	32	653264	5764757	36	653268	5764757	1.4	168.9	115.4	1299	0.70	224.7	3
T-5	838947	36	653268	5764757	40	653272	5764757	0.8	100.6	90.5	514	0.40	58.6	1
T-5	838948	40	653272	5764757	44	653276	5764757	1.1	138.4	163.2	1006	0.60	151.9	8
T-5	838949	44	653276	5764757	48	653280	5764757	0.6	169.5	81.3	617	0.70	86.1	8
T-5	838950	48	653280	5764757	52	653284	5764757	0.7	114.5	59.9	372	0.40	62.9	6
T-5	838951	52	653284	5764757	56	653288	5764757	0.6	81.2	16.5	316	0.20	40.1	2
T-6	853958	0	653304	5764754	4	653308	5764754	2.2	106.7	7.0	149	0.10	33.2	8
T-6	853957	4	653308	5764754	8	653312	5764754	1.0	71.8	6.1	265	0.05	27.6	1
T-6	853956	8	653312	5764754	12	653316	5764754	0.6	45.0	6.3	141	0.05	12.5	1
T-6	853955	12	653316	5764754	16	653320	5764754	2.6	113.9	7.5	226	0.05	51.8	8
T-6	853954	16	653320	5764754	20	653324	5764754	1.5	83.8	2.4	144	0.05	31.6	7
T-6	853953	20	653324	5764754	24	653328	5764754	2.7	90.5	2.4	115	0.05	31.2	2
T-6	853952	24	653328	5764754	28	653332	5764754	1.4	92.4	2.5	88	0.05	24.6	2
T-7	853959	0	653248	5764770	4	653252	5764770	0.5	110.7	4.1	64	<0.1	12.6	2
T-7	853960	4	653252	5764770	8	653256	5764770	1.0	126.0	30.7	114	0.10	15.7	3
T-7	853961	8	653256	5764770	12	653260	5764770	0.6	96.1	16.1	116	0.20	19.7	1
T-7	853962	12	653260	5764770	16	653264	5764770	1.0	122.1	77.6	153	0.30	45.7	4

Trench_ID	Sample	From (m)	Easting	Northing	To (m)	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
T-7	853963	16	653264	5764770	20	653268	5764770	0.6	76.5	110.4	158	0.20	23.0	2
T-7	853964	20	653268	5764770	24	653272	5764770	1.1	73.8	74.1	132	0.20	25.8	2
T-7	853965	24	653272	5764770	28	653276	5764770	0.9	91.9	68.7	209	0.30	47.1	7
T-7	853966	28	653276	5764770	32	653280	5764770	1.2	135.9	20.1	258	0.20	31.9	5
T-7	853967	32	653280	5764770	36	653284	5764770	0.5	52.1	34.2	178	0.05	13.3	1
T-8	853968	0	654090	5764576	4	654090	5764580	2.1	129.0	524.5	855	1.00	203.6	7
T-8	853969	4	654090	5764580	8	654090	5764584	0.7	171.2	35.9	90	0.70	220.6	6
T-8	853970	8	654090	5764584	12	654090	5764588	0.7	40.4	27.2	78	0.20	25.0	2
T-8	N.S.	12	654090	5764588	13.5	654090	5764590	.	.	.	.	.	.	.
T-9	853971	0	654112	5764571	4	654112	5764575	0.7	148.5	12.2	48	0.50	105.0	16
T-9	853972	4	654112	5764575	7	654112	5764578	0.5	173.0	349.4	173	1.90	20.4	13
T-10	853973	0	654147	5764563	4	654151	5764563	1.9	110.1	6.1	51	0.10	21.7	4
T-10	853974	4	654151	5764563	8	654155	5764563	1.3	244.5	49.5	56	0.50	20.6	6
T-10	853975	8	654155	5764563	12	654159	5764563	0.4	228.7	3.4	36	0.2	9.3	12
T-10	853976	12	654159	5764563	14	654161	5764563	3.1	166.7	20.8	160	0.4	1805.7	9
T-11	853977	0	654147	5764360	4	654143	5764360	1.3	340.6	22.2	495	0.3	18.7	1
T-11	853978	4	654143	5764360	8	654139	5764360	0.5	422.8	5.8	39	0.3	51.7	2
T-11	853979	8	654139	5764360	12	654135	5764360	0.4	301.9	25.1	32	0.2	14.9	0
T-11	853980	12	654135	5764360	16	654131	5764360	0.4	317.0	99.4	290	0.4	36.1	1
T-11	853981	16	654131	5764360	20	654127	5764360	0.6	237.4	116.5	827	0.7	61.6	1
T-11	853982	20	654127	5764360	24	654123	5764360	0.7	245.3	21.6	108	0.4	28.7	0
T-11	853983	24	654123	5764360	28	654119	5764360	0.4	95.6	15.0	65	0.2	11.4	0
T-11	853984	28	654119	5764360	32	654115	5764360	0.3	162.1	105.6	230	0.5	27.5	1
T-11	853985	32	654115	5764360	36	654111	5764360	1.5	291.0	396.9	1408	1.1	233.4	2
T-11	853986	36	654111	5764360	40	654107	5764360	1.4	157.5	109.3	521	0.6	41.1	0
T-11	853987	40	654107	5764360	44	654103	5764360	1.2	114.4	144.5	622	0.4	36.7	0
T-12	853988	0	654094	5764355	4	654090	5764355	1.0	125.4	35.0	349	0.2	22.9	0
T-12	853989	4	654090	5764355	8	654086	5764355	2.1	209.9	4.1	42	0.1	5.4	2
T-12	853990	8	654086	5764355	12	654082	5764355	1.7	124.3	2.7	79	<0.1	10.3	1
T-12	853991	12	654082	5764355	16	654078	5764355	0.7	147.8	2.4	53	<0.1	12.3	2
T-12	853992	16	654078	5764355	18	654076	5764355	.	.	.	.	.	.	.
T-13	853801	0	658997	5767129	4	658997	5767125	2.3	123.7	200.4	593	1.3	56.0	14

Trench_ID	Sample	From (m)	Easting	Northing	To (m)	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
T-13	853802	4	658997	5767125	8	658997	5767121	1.2	100.4	3.8	67	0.3	70.6	2
T-13	853803	8	658997	5767121	12	658997	5767117	1.1	104.1	3.1	52	0.2	44.2	6
T-13	853804	12	658997	5767117	16	658997	5767113	2.1	115.0	25.0	76	0.6	94.0	10
T-13	853805	28	658997	5767113	32	658997	5767109	0.3	56.8	3.8	58	0.2	207.2	31
T-13	853806	32	658997	5767109	36	658997	5767105	0.2	61.8	2.1	64	0.1	280.2	9
T-13	853807	36	658997	5767105	40	658997	5767101	1.6	78.3	3.1	74	0.2	179.6	6
T-13	853808	40	658997	5767101	44	658997	5767097	4.5	110.4	3.8	67	0.2	702.9	8
T-13	853809	52	658997	5767097	56	658997	5767093	2.0	87.2	5.4	73	0.1	177.2	8
T-13	853810	56	658997	5767093	60	658997	5767089	0.5	98.7	1.5	80	0.2	151.6	4
T-13	853811	60	658997	5767089	64	658997	5767085	0.6	107.9	1.8	79	0.2	154.9	10
T-13	853812	64	658997	5767085	68	658997	5767081	0.6	102.3	1.4	93	0.1	141.9	28
T-13	853813	68	658997	5767081	72	658997	5767077	1.1	150.4	2.8	91	0.1	1488.2	40
T-13	853814	72	658997	5767077	76	658997	5767073	1.9	146.4	4.0	90	0.2	499.5	38
T-13	853815	76	658997	5767073	80	658997	5767069	1.1	120.1	4.1	65	0.2	138.6	10
T-14	853816	0	659036	5767117	4	659036	5767113	0.4	24.2	5.0	69	0.1	366.8	12
T-14	853817	4	659036	5767113	8	659036	5767109	0.4	74.5	3.6	63	0.2	792.0	13
T-14	853818	8	659036	5767109	12	659036	5767105	1.8	75.1	5.8	87	0.2	252.1	6
T-14	853819	12	659036	5767105	16	659036	5767101	3.8	132.2	19.5	212	0.7	264.2	12
T-14	853820	16	659036	5767101	20	659036	5767097	1.1	107.4	3.9	75	0.2	738.2	43
T-14	853821	20	659036	5767097	24	659036	5767093	0.8	88.1	2.9	56	0.2	285.6	8
T-14	853822	24	659036	5767093	28	659036	5767089	0.7	104.9	2.0	49	0.2	182.1	8
T-14	853823	28	659036	5767089	32	659036	5767085	0.6	74.8	2.4	43	0.2	96.5	8
T-14	853824	32	659036	5767085	36	659036	5767081	0.5	107.0	1.7	32	0.2	48.3	5
T-14	N.S.	36	659036	5767081	40	659036	5767077	.	.	.	.	.	.	.
T-14	N.S.	40	659036	5767077	44	659036	5767073	.	.	.	.	.	.	.
T-14	N.S.	44	659036	5767073	48	659036	5767069	.	.	.	.	.	.	.
T-14	N.S.	48	659036	5767069	52	659036	5767065	.	.	.	.	.	.	.
T-14	853829	52	659036	5767065	56	659036	5767061	0.4	176.8	2.1	57	0.3	1052.2	124
T-14	853830	56	659036	5767061	60	659036	5767057	0.2	152.4	2.3	70	0.2	220.8	12
T-14	853831	60	659036	5767057	63	659036	5767054	0.4	155.3	2.5	78	0.2	186.2	12
T-14	N.S.	63	659036	5767054	65	659036	5767052
T-15	853875	0	659069	5767087	4	659069	5767083	0.3	113.2	2.8	80	<0.1	26.1	5

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T-15	853876	4	659069	5767083	8	659069	5767079	1.7	120.5	32.6	128	0.2	30.7	6
T-15	853877	8	659069	5767079	12	659069	5767075	0.8	151.1	142.5	224	0.4	42.5	15
T-15	853878	12	659069	5767075	16	659069	5767071	1.2	119.1	13.9	82	0.5	37.8	2
T-15	853879	16	659069	5767071	20	659069	5767067	0.8	73.5	3.2	57	<0.1	22.8	3
T-15	853880	20	659069	5767067	24	659069	5767063	0.9	164.4	4.0	48	0.2	41.0	7
T-15	853881	24	659069	5767063	28	659069	5767059	1.0	115.5	9.1	65	0.3	17.0	5
T-15	853882	36	659069	5767059	40	659069	5767055	0.8	116.1	2.2	53	0.2	17.5	4
T-15	853883	40	659069	5767055	44	659069	5767051	0.7	89.4	2.5	80	0.2	38.1	18
T-15	853884	44	659069	5767051	48	659069	5767047	0.7	101.3	1.9	47	0.2	67.8	6
T-15	853885	48	659069	5767047	50	659069	5767045	0.4	106.3	1.7	49	0.2	36.0	7
T-16	853832	0	657362	5766761	4	657362	5766757	2.1	108.3	2.6	39	0.1	48.8	4
T-16	853833	4	657362	5766757	8	657362	5766753	0.7	83.4	1.3	42	0.1	11.4	3
T-16	853834	8	657362	5766753	12	657362	5766749	0.4	65.1	2.3	34	<0.1	17.3	2
T-16	853835	12	657362	5766749	16	657362	5766745	0.4	89.6	1.4	38	<0.1	4.2	2
T-16	853836	16	657362	5766745	20	657362	5766741	1.4	119.2	1.1	47	<0.1	5.1	1
T-16	853837	20	657362	5766741	24	657362	5766737	0.8	83.3	0.8	52	<0.1	5.4	1
T-16	853838	24	657362	5766737	28	657362	5766733	0.8	107.8	1.2	49	<0.1	9.5	3
T-16	853839	28	657362	5766733	32	657362	5766729	0.7	74.9	0.7	43	<0.1	2.8	4
T-16	853840	32	657362	5766729	36	657362	5766725	0.6	98.4	1.1	41	<0.1	5.6	1
T-16	853841	36	657362	5766725	40	657362	5766721	1.1	73.4	1.7	45	<0.1	9.9	3
T-16	853842	40	657362	5766721	42	657362	5766719	1.1	70.9	1.8	32	<0.1	5.0	11
T-16	853843	42	657362	5766719	44	657362	5766717	1.1	78.7	2.0	27	0.1	7.8	29
T-16	853844	44	657362	5766717	46	657362	5766715	2.0	90.5	2.1	20	0.9	75.4	1894
T-16	853845	46	657362	5766715	48	657362	5766713	2.5	93.6	2.5	24	2.0	47.0	2256
T-16	853846	48	657362	5766713	50	657362	5766711	0.3	86.4	0.9	55	<0.1	3.9	5
T-16	853847	50	657362	5766711	52	657362	5766709	0.2	55.8	1.0	66	<0.1	2.3	6
T-16	853848	52	657362	5766709	54	657362	5766707	0.3	71.4	0.9	73	<0.1	1.4	3
T-16	853849	54	657362	5766707	56	657362	5766705	0.3	84.9	0.7	58	<0.1	1.8	1
T-16	853850	56	657362	5766705	58	657362	5766703	0.1	80.9	1.1	59	<0.1	2.1	2
T-16	N.S.	58	657362	5766703	59	657362	5766702	.	.	.	.	.	.	.
T-16a	853851	0	657387	5766715	4	657386	5766711	1.4	119.3	1.8	44	0.1	19.0	25
T-16a	853852	4	657386	5766711	6	657386	5766709	1.7	119.2	3.6	34	0.8	85.0	4205

Trench_ID	Sample	From (m)	Easting	Northing	To (m)	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
T-16a	853853	6	657386	5766709	8	657385	5766707	0.3	85.0	1.9	42	0.1	24.7	8
T-16a	853854	8	657385	5766707	10	657385	5766705	0.2	73.1	1.1	60	<0.1	4.1	3
T-17	853855	0	657373	5766699	4	657373	5766695	1.0	151.5	2.2	28	0.2	3.1	5
T-17	853856	4	657373	5766695	8	657373	5766691	0.8	68.1	1.6	32	<0.1	3.0	1
T-17	853857	8	657373	5766691	12	657373	5766687	1.1	79.7	1.3	32	<0.1	18.0	2
T-17	853858	12	657373	5766687	16	657373	5766683	0.3	51.1	0.9	39	<0.1	5.9	2
T-17	853859	16	657373	5766683	20	657373	5766679	0.6	38.6	1.5	36	<0.1	2.3	<0.5
T-17	853860	20	657373	5766679	24	657373	5766675	0.2	86.0	1.8	47	<0.1	3.7	2
T-18	853861	0	657392	5766757	4	657392	5766753	1.0	131.7	2.6	33	<0.1	16.7	1
T-18	853862	4	657392	5766753	8	657392	5766749	1.0	99.6	2.2	37	<0.1	7.0	<0.5
T-18	853863	8	657392	5766749	12	657392	5766745	0.8	34.1	2.4	23	<0.1	6.8	<0.5
T-18	853864	12	657392	5766745	16	657392	5766741	0.9	83.1	0.9	34	<0.1	9.6	1
T-18	853865	16	657392	5766741	20	657392	5766737	0.9	66.4	0.8	34	<0.1	3.4	<0.5
T-18	853866	20	657392	5766737	24	657392	5766733	0.9	75.4	0.8	40	<0.1	3.0	1
T-18	853867	24	657392	5766733	28	657392	5766729	0.5	65.8	1.2	34	<0.1	2.2	2
T-18	853868	28	657392	5766729	30	657392	5766727	0.7	82.1	0.8	34	<0.1	2.2	1
T-18	853869	30	657392	5766727	32	657392	5766725	0.5	76.1	1.6	39	<0.1	6.4	1
T-18	853870	32	657392	5766725	34	657392	5766723	0.5	104.5	1.9	39	<0.1	5.9	9
T-18	853871	34	657392	5766723	36	657392	5766721	0.5	83.8	2.1	36	<0.1	12.3	4
T-18	853872	36	657392	5766721	38	657392	5766719	0.8	97.5	1.9	39	<0.1	14.1	7
T-18	853873	38	657392	5766719	40	657392	5766717	0.5	87.5	1.0	48	<0.1	4.2	1
T-19	853886	0	657420	5766750	4	657420	5766746	0.1	71.5	1.8	76	<0.1	2.3	<0.5
T-19	853887	4	657420	5766746	8	657420	5766742	0.3	74.3	1.8	81	<0.1	3.2	1
T-19	853888	8	657420	5766742	12	657420	5766738	0.8	71.9	1.2	30	<0.1	3.7	1
T-19	853889	12	657420	5766738	16	657420	5766734	1.1	91.0	1.1	29	<0.1	7.4	1
T-19	853890	16	657420	5766734	20	657420	5766730	0.8	70.3	0.8	31	<0.1	7.3	<0.5
T-20	853891	0	657416	5766721	4	657416	5766717	1.9	75.5	0.6	34	<0.1	2.9	<0.5
T-20	853892	4	657416	5766717	8	657416	5766713	0.6	77.3	0.7	37	<0.1	2.1	1
T-20	853893	8	657416	5766713	12	657416	5766709	1.0	77.4	1.2	38	<0.1	6.9	1
T-20	853894	12	657416	5766709	16	657416	5766705	1.2	78.2	1.1	46	<0.1	5.2	1
T-20	853895	16	657416	5766705	20	657416	5766701	1.3	58.4	1.2	42	<0.1	3.8	2
T-20	853896	20	657416	5766701	24	657416	5766697	0.7	116.2	2.0	46	<0.1	11.4	<0.5

Trench_ID	Sample	From (m)	Easting	Northing	To (m)	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
T- 21	322635	0	657468	5766787	4	657468	5766783	2.9	123.6	5.7	50	<0.1	13.0	2
T- 21	322636	4	657468	5766783	8	657468	5766779	1.4	72.5	2.1	48	<0.1	14.1	<0.5
T- 21	322637	8	657468	5766779	12	657468	5766775	5.0	144.4	2.8	32	0.1	10.2	3
T- 21	322638	12	657468	5766775	16	657468	5766771	2.4	101.4	3.7	37	<0.1	11.5	2
T- 21	322639	16	657468	5766771	20	657468	5766767	1.8	50.3	0.7	44	<0.1	2.2	1
T- 21	322640	20	657468	5766767	24	657468	5766763	0.4	67.7	3.3	49	0.1	166.6	2
T- 21	322641	24	657468	5766763	28	657468	5766759	2.4	85.8	3.1	53	<0.1	85.2	1
T- 21	322642	28	657468	5766759	32	657468	5766755	0.9	98.8	3.3	66	<0.1	82.2	2
T-22	322643	0	657455	5766735	4	657455	5766731	1.1	79.6	3.8	40	<0.1	19.2	6
T-22	322644	4	657455	5766731	8	657455	5766727	0.5	75.1	1.3	36	<0.1	6.0	1
T-22	322645	8	657455	5766727	12	657455	5766723	0.8	103.0	1.5	36	<0.1	12.4	9
T-22	322646	12	657455	5766723	16	657455	5766719	0.4	96.2	1.8	37	<0.1	32.3	5
T-22	322647	16	657455	5766719	20	657455	5766715	0.4	112.1	1.0	43	<0.1	1.1	2
T-22	322648	20	657455	5766715	24	657455	5766711	0.4	117.4	1.2	42	<0.1	2.3	4
T-22	322649	24	657455	5766711	28	657455	5766707	0.9	103.0	0.9	30	0.1	1.5	5
T-22	322650	28	657455	5766707	32	657455	5766703	1.5	89.7	0.9	35	<0.1	1.6	2
T-22	N.S.	32	657455	5766703	34	657455	5766701	.	.	.	.	.	.	.

Easting and Northing are UTM NAD 83 Zone 10

From and To are relative to the beginning of the trench

Appendix C

Geochemical Survey Soil and Trenching Acme Lab Certificates



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Acme Analytical Laboratories (Vancouver) Ltd.

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

Submitted By: David Blann
Receiving Lab: Canada-Vancouver
Received: September 18, 2009
Report Date: October 04, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09004322.1

CLIENT JOB INFORMATION

Project: Hen
Shipment ID:
P.O. Number
Number of Samples: 79

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	79	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX1	79	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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:



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.



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

Project: Hen
Report Date: October 04, 2009

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN09004322.1

Method	Analyte	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
838901	Rock	3.42	1.6	351.0	2.5	68	0.1	5.7	12.0	1062	4.15	<0.5	1.0	2.9	1.8	32	<0.1	0.7	<0.1	76	1.07
838902	Rock	5.56	2.0	207.1	2.7	67	<0.1	11.7	16.9	1120	4.83	1.2	0.8	2.7	1.5	48	<0.1	0.6	<0.1	114	1.33
838903	Rock	5.28	0.5	80.9	3.4	82	<0.1	16.2	20.4	1068	4.94	2.1	0.9	1.8	1.9	39	0.1	0.4	<0.1	173	1.19
838904	Rock	3.96	0.7	593.9	3.6	81	0.4	14.1	19.9	910	4.51	2.3	1.2	10.5	2.3	79	0.2	0.3	<0.1	140	1.16
838905	Rock	2.82	0.5	67.5	3.0	73	<0.1	13.7	16.0	784	3.71	1.6	1.1	2.5	2.1	46	0.1	0.1	<0.1	129	0.84
838906	Rock	4.16	0.3	68.0	2.0	65	<0.1	18.4	22.5	875	4.64	6.7	0.4	5.4	0.9	59	0.1	<0.1	<0.1	178	1.09
838907	Rock	4.27	0.4	173.4	1.6	54	<0.1	15.4	19.2	696	3.80	5.5	0.4	11.4	0.5	75	0.1	0.1	<0.1	156	1.33
838908	Rock	2.48	0.4	199.8	1.7	83	0.1	17.2	24.3	1058	5.27	1.9	0.7	14.9	1.1	33	0.1	<0.1	<0.1	177	1.01
838909	Rock	4.76	0.5	148.6	2.1	75	<0.1	18.2	23.1	1190	5.52	0.7	0.5	3.6	0.8	26	0.1	0.2	<0.1	159	0.82
838910	Rock	3.89	0.3	89.4	1.5	65	<0.1	14.9	20.1	806	4.37	2.0	0.4	3.1	0.7	40	<0.1	0.1	<0.1	161	1.02
838911	Rock	3.21	0.5	133.6	2.0	50	<0.1	24.2	19.0	777	4.18	1.1	0.6	3.5	1.1	38	0.1	0.1	<0.1	160	0.85
838912	Rock	5.29	0.7	140.8	2.4	63	<0.1	23.7	19.7	852	4.58	0.7	0.7	3.9	1.2	32	<0.1	0.2	<0.1	183	0.77
838913	Rock	5.23	0.5	155.4	2.6	70	<0.1	28.7	23.7	1113	5.29	1.0	0.6	2.6	1.0	53	0.1	0.1	<0.1	172	1.08
838914	Rock	3.80	0.9	125.0	3.2	219	0.1	32.0	24.7	600	4.00	26.9	0.2	4.1	0.3	35	0.5	0.1	<0.1	112	0.85
838915	Rock	3.67	0.8	77.4	4.8	68	<0.1	51.9	23.3	742	4.17	31.9	0.3	2.4	0.4	32	0.2	0.1	<0.1	125	0.98
838916	Rock	5.89	1.3	83.2	5.8	139	<0.1	44.4	25.8	1050	5.11	39.6	0.6	2.7	1.0	23	0.3	0.8	<0.1	130	0.67
838917	Rock	4.61	0.9	81.1	59.0	89	<0.1	38.3	22.1	593	3.80	38.4	0.3	1.4	0.3	35	0.3	0.1	<0.1	107	1.01
838918	Rock	4.32	0.5	69.3	8.0	114	0.1	30.5	18.2	487	3.30	21.3	0.6	2.3	1.4	38	0.2	2.0	<0.1	104	1.17
838919	Rock	2.49	0.2	54.8	1.5	54	<0.1	78.4	33.8	907	4.71	14.2	1.1	2.9	0.9	34	0.1	<0.1	<0.1	171	1.92
838920	Rock	5.19	0.3	76.5	2.2	58	<0.1	66.3	33.5	939	5.40	23.9	0.6	2.3	0.8	24	0.2	0.2	<0.1	199	0.93
838921	Rock	9.38	0.6	129.7	5.1	64	<0.1	21.5	17.0	762	3.45	4.3	1.1	2.0	2.3	44	<0.1	0.2	<0.1	100	0.76
838922	Rock	5.74	0.4	143.2	4.3	60	<0.1	19.8	16.0	629	3.16	4.7	0.9	2.1	2.1	64	<0.1	0.3	<0.1	97	0.91
838923	Rock	8.03	0.4	157.1	4.7	57	0.1	28.7	22.3	691	3.09	9.1	0.8	3.4	1.6	76	<0.1	0.4	<0.1	101	0.93
838924	Rock	7.29	0.5	50.8	4.7	110	<0.1	58.3	35.1	1273	4.81	9.4	0.6	0.8	1.3	51	<0.1	0.3	<0.1	133	0.74
838925	Rock	6.54	1.4	90.1	9.5	153	0.1	60.3	38.2	1593	5.85	25.7	0.6	4.0	1.1	59	0.4	0.4	<0.1	142	0.67
838926	Rock	9.28	1.0	84.3	20.1	293	0.2	26.0	23.0	1147	3.92	20.6	0.5	3.1	0.9	46	0.8	0.3	<0.1	112	0.75
838927	Rock	9.92	0.8	77.8	24.7	231	0.2	20.0	18.9	613	2.82	235.1	0.4	3.7	0.8	34	1.0	0.2	<0.1	72	0.73
838928	Rock	10.41	0.8	96.2	20.8	183	0.2	41.9	26.3	689	3.11	94.9	0.9	2.0	1.6	33	0.8	0.4	<0.1	91	1.03
838929	Rock	5.77	0.5	65.7	17.4	225	0.1	55.9	24.4	909	2.99	39.8	0.5	2.5	0.9	20	0.4	0.2	<0.1	75	0.93
838930	Rock	3.57	0.2	25.0	3.6	160	<0.1	54.9	19.3	712	2.60	19.5	0.7	2.7	1.3	20	0.3	0.2	<0.1	65	0.81

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.



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Project: Hen
 Report Date: October 04, 2009

Page: 2 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN09004322.1

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	
838901	Rock	0.270	16	6	0.93	122	0.024	<20	1.49	0.025	0.18	<0.1	<0.01	4.6	<0.1	<0.05	6	0.6
838902	Rock	0.224	14	13	1.34	143	0.016	<20	2.28	0.028	0.27	<0.1	<0.01	7.2	<0.1	<0.05	8	<0.5
838903	Rock	0.150	7	20	1.96	71	0.105	<20	2.66	0.029	0.15	<0.1	<0.01	8.1	<0.1	<0.05	9	<0.5
838904	Rock	0.197	7	18	1.74	44	0.133	<20	2.33	0.040	0.08	0.2	<0.01	4.5	<0.1	<0.05	8	<0.5
838905	Rock	0.154	5	18	1.28	60	0.149	<20	1.88	0.042	0.14	0.2	<0.01	2.7	<0.1	<0.05	7	0.7
838906	Rock	0.170	4	22	1.90	88	0.169	<20	2.80	0.046	0.14	<0.1	<0.01	3.2	<0.1	<0.05	8	<0.5
838907	Rock	0.171	4	19	1.53	117	0.178	<20	2.30	0.058	0.17	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
838908	Rock	0.170	5	13	2.09	139	0.100	<20	3.12	0.021	0.22	<0.1	<0.01	6.8	<0.1	<0.05	8	<0.5
838909	Rock	0.164	7	18	2.08	168	0.049	<20	3.05	0.020	0.24	<0.1	<0.01	8.0	<0.1	<0.05	8	<0.5
838910	Rock	0.184	6	16	1.67	130	0.170	<20	2.35	0.059	0.15	<0.1	<0.01	3.9	<0.1	<0.05	7	<0.5
838911	Rock	0.170	6	41	1.69	90	0.109	<20	1.92	0.033	0.20	0.1	<0.01	6.2	<0.1	<0.05	7	<0.5
838912	Rock	0.160	7	39	1.71	134	0.101	<20	1.93	0.043	0.22	<0.1	<0.01	6.6	<0.1	<0.05	7	<0.5
838913	Rock	0.189	8	42	2.08	303	0.071	<20	2.68	0.022	0.25	<0.1	<0.01	9.0	<0.1	<0.05	8	<0.5
838914	Rock	0.124	4	69	1.74	86	0.123	<20	2.27	0.063	0.12	<0.1	0.05	4.9	<0.1	0.21	7	1.0
838915	Rock	0.107	4	134	2.09	87	0.109	<20	2.64	0.050	0.13	<0.1	<0.01	7.3	<0.1	0.17	7	0.5
838916	Rock	0.137	7	110	2.33	85	0.046	<20	3.00	0.023	0.16	<0.1	<0.01	8.4	<0.1	0.09	8	<0.5
838917	Rock	0.132	4	84	1.67	81	0.112	<20	2.05	0.048	0.10	<0.1	<0.01	3.8	<0.1	0.19	6	1.2
838918	Rock	0.139	6	85	1.42	192	0.138	<20	1.85	0.071	0.18	<0.1	<0.01	4.9	<0.1	0.05	6	<0.5
838919	Rock	0.131	6	187	3.03	40	0.094	<20	3.00	0.022	0.19	<0.1	<0.01	9.9	<0.1	<0.05	8	<0.5
838920	Rock	0.108	5	173	3.26	67	0.080	<20	3.51	0.028	0.24	<0.1	<0.01	17.1	<0.1	0.05	9	<0.5
838921	Rock	0.181	6	31	1.42	74	0.102	<20	1.82	0.032	0.22	0.2	<0.01	2.8	<0.1	<0.05	6	<0.5
838922	Rock	0.163	5	34	1.29	84	0.116	<20	1.78	0.048	0.26	0.2	<0.01	2.5	<0.1	<0.05	5	<0.5
838923	Rock	0.101	3	39	1.67	58	0.133	<20	2.09	0.037	0.12	0.2	<0.01	2.8	<0.1	<0.05	5	<0.5
838924	Rock	0.078	3	62	2.83	62	0.149	<20	3.19	0.026	0.10	<0.1	<0.01	2.7	<0.1	<0.05	7	<0.5
838925	Rock	0.072	3	50	3.13	72	0.124	22	3.55	0.018	0.12	<0.1	0.02	4.5	<0.1	<0.05	8	<0.5
838926	Rock	0.098	4	35	1.85	69	0.153	<20	2.38	0.047	0.18	0.1	0.15	3.7	<0.1	<0.05	7	<0.5
838927	Rock	0.122	5	31	0.96	75	0.097	<20	1.50	0.059	0.16	<0.1	0.03	3.0	<0.1	0.17	5	0.9
838928	Rock	0.149	7	100	1.12	64	0.113	<20	1.49	0.069	0.14	0.2	0.01	6.5	<0.1	<0.05	4	0.8
838929	Rock	0.124	4	122	1.72	37	0.107	<20	1.83	0.078	0.07	0.1	0.05	5.8	<0.1	<0.05	5	<0.5
838930	Rock	0.114	3	108	1.72	31	0.101	24	1.75	0.070	0.05	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5



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CERTIFICATE OF ANALYSIS

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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	
838931	Rock	10.00	1.4	77.3	1.7	100	<0.1	34.3	23.8	962	4.99	25.3	0.7	3.8	0.7	34	0.7	0.6	<0.1	127	0.74
838932	Rock	8.36	0.4	53.0	1.2	68	<0.1	34.9	23.7	680	4.69	15.2	0.4	1.6	1.1	44	0.5	0.3	<0.1	97	0.93
838933	Rock	6.55	1.5	64.9	1.7	53	<0.1	14.7	18.5	751	4.20	21.4	0.9	2.5	0.8	54	0.7	0.3	<0.1	81	0.84
838934	Rock	7.10	1.0	64.8	1.3	46	<0.1	19.2	20.1	767	3.88	20.3	0.8	3.0	0.7	43	0.3	0.3	<0.1	78	0.94
838935	Rock	6.84	0.7	86.0	2.4	45	<0.1	19.1	20.5	498	2.90	19.5	0.5	7.1	0.6	45	0.3	0.3	<0.1	56	0.79
838936	Rock	7.03	0.5	53.7	1.6	48	<0.1	26.8	25.1	747	4.50	13.1	0.4	7.2	0.7	25	0.2	0.2	<0.1	88	0.43
838937	Rock	8.64	0.7	90.1	2.4	63	<0.1	27.9	19.5	628	3.71	21.6	0.5	0.7	0.7	41	0.2	0.3	<0.1	104	0.66
838938	Rock	5.29	1.2	106.8	3.9	214	<0.1	57.9	38.9	2909	6.76	4.7	0.9	2.5	2.0	42	0.3	0.5	<0.1	180	0.51
838939	Rock	6.59	1.3	128.1	2.9	169	<0.1	34.4	24.3	2735	5.74	4.2	0.9	3.3	2.1	39	0.1	0.3	<0.1	170	0.58
838940	Rock	5.91	1.1	100.4	4.3	147	<0.1	43.5	31.7	2257	6.05	4.4	0.7	1.7	1.3	55	0.2	0.4	<0.1	139	0.59
838941	Rock	6.30	0.7	62.3	2.9	125	<0.1	68.4	43.4	2007	6.26	2.6	1.0	<0.5	1.9	43	<0.1	0.2	<0.1	136	0.56
838942	Rock	6.50	0.9	133.9	5.9	107	<0.1	24.4	23.5	1892	4.99	3.7	0.7	2.1	1.2	41	<0.1	0.3	<0.1	149	0.61
838943	Rock	6.70	0.6	108.6	4.0	83	<0.1	37.6	28.9	1361	4.69	5.0	0.6	2.1	1.2	46	<0.1	0.2	<0.1	144	0.64
838944	Rock	5.58	0.6	133.0	6.5	92	<0.1	27.2	21.5	1237	4.17	7.8	0.6	2.8	1.2	34	0.1	0.2	<0.1	117	0.65
838945	Rock	6.16	0.6	123.1	32.9	452	0.5	22.8	23.8	1035	3.56	65.2	0.6	2.1	0.9	32	1.1	0.2	0.2	93	0.76
838946	Rock	6.16	1.4	168.9	115.4	1299	0.7	44.7	27.8	1716	5.03	224.7	0.5	2.8	0.5	24	3.3	0.3	0.2	143	0.51
838947	Rock	6.10	0.8	100.6	90.5	514	0.4	32.4	20.7	712	3.02	58.6	0.4	1.2	0.6	41	1.2	0.5	<0.1	70	0.82
838948	Rock	7.15	1.1	138.4	163.2	1006	0.6	25.1	23.3	896	2.98	151.9	0.5	8.1	0.8	35	3.8	0.4	<0.1	73	1.05
838949	Rock	7.70	0.6	169.5	81.3	617	0.7	55.9	28.9	1060	3.55	86.1	0.7	7.6	1.1	26	2.1	0.5	<0.1	90	0.92
838950	Rock	7.71	0.7	114.5	59.9	372	0.4	54.3	29.7	754	2.90	62.9	0.7	5.8	1.5	30	0.9	0.6	<0.1	73	1.06
853951	Rock	7.21	0.6	81.2	16.5	316	0.2	61.0	26.8	682	2.37	40.1	0.9	2.2	1.6	40	0.6	0.5	<0.1	65	1.15
853952	Rock	7.57	1.4	92.4	2.5	88	<0.1	26.7	22.3	605	3.39	24.6	0.7	2.4	1.0	43	0.5	0.3	<0.1	72	0.85
853953	Rock	8.42	2.7	90.5	2.4	115	<0.1	32.3	22.3	598	2.98	31.2	0.7	1.7	0.7	40	0.6	0.4	<0.1	59	0.72
853954	Rock	7.65	1.5	83.8	2.4	144	<0.1	37.4	27.9	934	3.77	31.6	0.8	6.7	0.6	32	0.7	0.4	<0.1	77	0.72
853955	Rock	5.84	2.6	113.9	7.5	226	<0.1	219.0	52.1	1609	6.25	51.8	1.0	7.7	2.2	21	1.5	0.7	0.1	129	0.35
853956	Rock	6.89	0.6	45.0	6.3	141	<0.1	30.7	26.3	907	5.71	12.5	0.6	0.5	0.8	19	0.5	0.2	<0.1	183	0.44
853957	Rock	7.82	1.0	71.8	6.1	265	<0.1	90.6	28.1	877	7.26	27.6	0.7	1.3	2.8	76	1.1	0.3	<0.1	224	0.55
853958	Rock	9.50	2.2	106.7	7.0	149	0.1	50.2	24.7	1251	5.89	33.2	0.6	7.5	1.0	88	1.3	2.8	<0.1	92	2.80
853959	Rock	8.37	0.5	110.7	4.1	64	<0.1	18.7	18.7	671	3.56	12.6	0.9	2.1	1.8	45	<0.1	0.4	<0.1	101	0.76
853960	Rock	8.98	1.0	126.0	30.7	114	0.1	36.8	24.4	944	3.75	15.7	0.5	3.2	0.9	38	0.2	0.5	<0.1	103	0.91

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.



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Report Date: October 04, 2009

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CERTIFICATE OF ANALYSIS

VAN09004322.1

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	
838931	Rock	0.104	4	79	1.69	81	0.098	<20	2.35	0.024	0.08	<0.1	0.01	8.5	<0.1	<0.05	6	<0.5
838932	Rock	0.074	4	89	1.59	88	0.170	<20	2.57	0.038	0.12	<0.1	<0.01	6.0	<0.1	<0.05	7	<0.5
838933	Rock	0.095	3	19	0.75	170	0.107	<20	1.81	0.038	0.11	<0.1	<0.01	6.5	<0.1	<0.05	5	<0.5
838934	Rock	0.100	3	40	1.01	130	0.112	<20	2.03	0.039	0.12	<0.1	<0.01	6.4	<0.1	<0.05	6	0.6
838935	Rock	0.078	3	25	0.92	90	0.120	<20	1.75	0.050	0.16	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5
838936	Rock	0.064	2	61	1.73	77	0.077	<20	2.56	0.040	0.17	<0.1	<0.01	6.6	<0.1	<0.05	7	<0.5
838937	Rock	0.107	3	59	1.33	62	0.083	<20	2.10	0.050	0.10	<0.1	<0.01	6.4	<0.1	<0.05	6	<0.5
838938	Rock	0.100	4	66	3.35	88	0.048	<20	4.12	0.011	0.14	<0.1	0.01	8.0	<0.1	<0.05	11	<0.5
838939	Rock	0.139	4	58	2.59	100	0.074	<20	3.60	0.028	0.26	<0.1	0.01	7.7	<0.1	<0.05	10	<0.5
838940	Rock	0.117	4	38	2.74	86	0.061	<20	3.61	0.015	0.13	<0.1	<0.01	5.8	<0.1	<0.05	9	<0.5
838941	Rock	0.076	3	52	3.35	107	0.150	<20	3.98	0.016	0.26	<0.1	<0.01	2.5	<0.1	<0.05	9	<0.5
838942	Rock	0.124	5	28	2.26	65	0.113	<20	2.83	0.021	0.15	<0.1	<0.01	4.5	<0.1	<0.05	9	<0.5
838943	Rock	0.111	3	48	2.60	80	0.121	<20	3.01	0.028	0.18	<0.1	<0.01	3.6	<0.1	<0.05	7	<0.5
838944	Rock	0.147	6	42	1.70	72	0.119	<20	2.24	0.038	0.19	<0.1	0.02	3.7	<0.1	<0.05	8	<0.5
838945	Rock	0.149	6	61	1.57	55	0.119	<20	1.96	0.060	0.07	<0.1	0.15	4.0	<0.1	<0.05	6	<0.5
838946	Rock	0.115	4	121	2.43	84	0.068	<20	3.07	0.033	0.10	<0.1	0.55	8.3	<0.1	0.07	8	0.8
838947	Rock	0.098	4	74	1.13	121	0.096	<20	1.77	0.055	0.08	<0.1	0.07	6.0	<0.1	0.07	5	<0.5
838948	Rock	0.136	5	51	1.13	102	0.114	<20	1.69	0.040	0.05	0.1	0.12	4.7	<0.1	0.08	5	<0.5
838949	Rock	0.132	5	141	1.80	65	0.139	<20	2.04	0.055	0.06	<0.1	0.18	6.5	<0.1	<0.05	6	<0.5
838950	Rock	0.134	5	122	1.59	70	0.114	<20	1.85	0.054	0.06	0.1	0.09	6.1	<0.1	<0.05	5	<0.5
853951	Rock	0.126	5	120	1.26	57	0.134	<20	1.47	0.093	0.08	0.1	0.12	5.8	<0.1	<0.05	4	<0.5
853952	Rock	0.090	4	46	0.79	120	0.127	<20	1.64	0.057	0.14	<0.1	<0.01	4.9	0.1	0.10	5	<0.5
853953	Rock	0.089	3	55	0.68	137	0.096	<20	1.54	0.053	0.15	<0.1	0.01	4.8	<0.1	0.06	4	0.5
853954	Rock	0.115	4	85	1.34	111	0.089	<20	1.93	0.039	0.13	<0.1	0.01	6.0	<0.1	<0.05	5	<0.5
853955	Rock	0.132	13	176	2.53	183	0.043	<20	3.18	0.004	0.38	<0.1	0.05	10.8	0.1	<0.05	8	<0.5
853956	Rock	0.098	4	56	2.35	104	0.142	<20	3.35	0.030	0.28	<0.1	<0.01	11.4	<0.1	<0.05	11	<0.5
853957	Rock	0.140	22	128	3.19	475	0.140	<20	4.37	0.008	0.32	<0.1	0.02	16.8	<0.1	<0.05	13	<0.5
853958	Rock	0.100	5	42	1.21	105	0.005	<20	1.66	0.007	0.18	<0.1	0.02	9.9	<0.1	0.10	5	<0.5
853959	Rock	0.159	6	25	1.44	83	0.128	<20	2.03	0.036	0.15	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5
853960	Rock	0.134	6	74	1.53	83	0.148	<20	2.18	0.036	0.16	0.1	0.06	6.1	<0.1	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	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
853961	Rock	8.50	0.6	96.1	16.1	116	0.2	32.5	21.2	603	4.07	19.7	0.5	1.4	0.7	37	0.1	0.5	<0.1	108	0.65
853962	Rock	7.82	1.0	122.1	77.6	153	0.3	48.0	29.1	594	3.90	45.7	0.4	3.8	0.4	41	0.2	0.4	<0.1	101	0.75
853963	Rock	6.29	0.6	76.5	110.4	158	0.2	42.0	21.0	582	2.58	23.0	0.4	1.8	0.5	36	0.4	0.5	<0.1	56	0.86
853964	Rock	6.89	1.1	73.8	74.1	132	0.2	17.7	19.6	447	2.58	25.8	0.4	2.3	0.6	42	0.3	0.6	<0.1	61	0.92
853965	Rock	6.65	0.9	91.9	68.7	209	0.3	45.1	29.6	820	4.01	47.1	0.7	6.5	1.4	33	0.3	0.5	<0.1	121	0.78
853966	Rock	7.78	1.2	135.9	20.1	258	0.2	54.6	29.6	897	3.53	31.9	1.2	4.5	1.9	50	0.4	0.9	<0.1	101	1.16
853967	Rock	6.87	0.5	52.1	34.2	178	<0.1	63.0	26.3	711	2.87	13.3	0.9	1.1	1.5	26	0.3	0.4	<0.1	76	0.93
853968	Rock	6.64	2.1	129.0	524.5	855	1.0	47.1	35.9	1319	6.09	203.6	0.2	6.5	0.6	78	5.3	0.5	0.1	213	1.11
853969	Rock	7.21	0.7	171.2	35.9	90	0.7	52.1	29.4	888	5.36	220.6	0.2	5.8	0.5	60	0.7	0.3	0.3	158	0.89
853970	Rock	8.35	0.7	40.4	27.2	78	0.2	50.1	17.6	521	3.03	25.0	0.2	1.5	0.6	94	0.4	0.2	<0.1	98	1.28
853971	Rock	7.11	0.7	148.5	12.2	48	0.5	63.6	24.6	615	4.20	105.0	0.2	15.9	0.5	91	0.4	0.2	0.2	128	1.19
853972	Rock	5.76	0.5	173.0	349.4	173	1.9	41.9	26.3	548	3.53	20.4	0.3	12.5	0.7	113	1.6	1.0	0.1	104	1.43
853973	Rock	5.63	1.9	110.1	6.1	51	0.1	142.4	24.2	328	2.62	21.7	0.2	4.2	0.5	77	0.3	0.2	0.2	60	1.25
853974	Rock	7.86	1.3	244.5	49.5	56	0.5	46.7	35.1	406	3.30	20.6	0.2	6.4	0.4	78	0.3	0.4	0.2	76	1.32
T-8-1	Rock	0.80	0.4	298.9	685.9	368	2.8	28.5	22.8	1318	2.60	95.3	0.1	20.4	0.2	13	4.0	2.4	0.1	53	0.72
T-8-2	Rock	0.91	0.9	146.6	596.0	1045	2.1	34.5	26.4	870	4.20	214.9	0.2	6.5	0.6	39	6.7	0.6	0.7	139	0.64
T-10-1	Rock	2.26	1.0	991.7	6.7	31	1.0	45.5	115.2	271	6.30	17.0	0.2	14.5	0.4	42	0.3	0.2	0.3	49	1.44
D175612	Rock	1.30	0.6	134.9	32.4	65	0.4	12.5	16.4	611	3.30	12.9	0.5	0.8	1.6	193	0.1	0.8	0.3	101	6.11
T-1-1	Rock	0.84	0.8	3534	14.7	119	2.2	20.1	36.5	1430	6.95	8.5	1.2	36.8	2.1	118	0.4	0.4	<0.1	186	1.65



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Project: Hen

Report Date: October 04, 2009

Page: 4 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN09004322.1

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	
853961	Rock	0.116	5	70	1.65	110	0.118	<20	2.49	0.043	0.20	<0.1	0.01	5.4	<0.1	<0.05	7	<0.5
853962	Rock	0.104	4	134	1.62	124	0.124	<20	2.44	0.053	0.13	<0.1	0.02	4.7	<0.1	0.11	6	<0.5
853963	Rock	0.100	4	96	1.09	97	0.095	<20	1.53	0.055	0.09	<0.1	0.03	4.2	<0.1	0.10	5	<0.5
853964	Rock	0.094	4	29	0.64	104	0.124	<20	1.25	0.058	0.10	<0.1	0.05	4.8	<0.1	0.12	4	<0.5
853965	Rock	0.112	7	110	1.74	77	0.113	<20	2.26	0.043	0.15	<0.1	0.05	7.5	<0.1	0.09	7	<0.5
853966	Rock	0.150	7	149	1.34	83	0.147	24	1.76	0.071	0.14	0.1	0.10	8.6	<0.1	<0.05	5	<0.5
853967	Rock	0.105	5	134	1.72	42	0.131	<20	1.83	0.070	0.07	<0.1	0.11	6.2	<0.1	<0.05	5	<0.5
853968	Rock	0.081	2	77	2.57	1089	0.281	<20	4.50	0.177	1.70	0.2	0.01	9.9	0.2	0.18	12	<0.5
853969	Rock	0.094	2	84	2.21	676	0.217	<20	3.71	0.137	1.24	0.3	<0.01	7.4	0.2	0.16	10	<0.5
853970	Rock	0.093	3	69	1.51	458	0.207	<20	2.93	0.220	1.07	<0.1	<0.01	2.7	0.2	0.06	8	<0.5
853971	Rock	0.097	2	72	1.88	424	0.228	<20	3.18	0.198	0.93	0.1	<0.01	4.0	0.1	0.39	8	0.8
853972	Rock	0.091	4	46	1.32	332	0.234	<20	2.74	0.229	0.80	0.1	<0.01	3.9	0.2	0.35	7	1.0
853973	Rock	0.096	3	124	1.78	329	0.168	<20	2.17	0.116	0.44	0.2	<0.01	2.0	0.1	0.21	5	0.8
853974	Rock	0.092	2	77	1.17	268	0.189	<20	2.24	0.183	0.63	0.2	<0.01	3.2	0.2	0.62	6	1.0
T-8-1	Rock	0.078	<1	18	1.09	105	0.060	<20	1.93	0.045	0.17	0.2	<0.01	5.3	<0.1	<0.05	4	<0.5
T-8-2	Rock	0.082	2	35	1.73	514	0.231	<20	2.56	0.117	1.10	0.2	<0.01	4.2	0.2	0.10	8	1.2
T-10-1	Rock	0.087	3	14	0.38	54	0.169	<20	1.35	0.127	0.23	0.2	<0.01	1.5	<0.1	3.27	3	4.3
D175612	Rock	0.148	13	27	0.86	63	0.191	<20	1.00	0.063	0.70	0.4	<0.01	2.3	0.1	1.07	5	0.8
T-1-1	Rock	0.361	12	17	2.52	19	0.143	<20	3.40	0.017	<0.01	<0.1	0.01	8.7	<0.1	<0.05	11	<0.5



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Project: Hen
Report Date: October 04, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN09004322.1

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																					
838901	Rock	3.42	1.6	351.0	2.5	68	0.1	5.7	12.0	1062	4.15	<0.5	1.0	2.9	1.8	32	<0.1	0.7	<0.1	76	1.07
REP 838901	QC		1.4	355.0	2.6	70	0.1	5.5	11.6	1060	4.22	<0.5	0.8	2.9	1.7	32	<0.1	0.6	<0.1	76	1.08
853964	Rock	6.89	1.1	73.8	74.1	132	0.2	17.7	19.6	447	2.58	25.8	0.4	2.3	0.6	42	0.3	0.6	<0.1	61	0.92
REP 853964	QC		1.1	76.0	75.0	134	0.3	19.0	20.1	462	2.59	27.0	0.4	1.5	0.7	43	0.4	0.7	<0.1	62	0.93
853974	Rock	7.86	1.3	244.5	49.5	56	0.5	46.7	35.1	406	3.30	20.6	0.2	6.4	0.4	78	0.3	0.4	0.2	76	1.32
REP 853974	QC		1.1	243.5	49.3	57	0.5	47.2	35.0	416	3.34	19.8	0.2	5.0	0.4	77	0.3	0.3	0.1	78	1.36
Reference Materials																					
STD DS7	Standard		20.6	99.6	71.1	381	0.8	53.0	8.6	614	2.35	47.2	4.6	51.0	4.2	69	6.0	4.8	4.2	79	0.98
STD DS7	Standard		19.4	106.1	71.8	392	0.9	56.9	9.6	586	2.34	51.0	4.6	55.3	4.0	68	6.1	4.9	4.6	79	0.92
STD DS7	Standard		20.8	107.1	62.7	382	0.8	55.9	9.5	630	2.42	49.3	4.5	46.3	4.4	75	6.2	4.2	4.6	85	0.96
STD OREAS45PA	Standard		1.1	602.5	19.8	120	0.3	293.1	108.0	1138	16.23	3.8	1.2	43.5	6.6	14	<0.1	0.2	0.2	231	0.24
STD OREAS45PA	Standard		1.0	577.8	19.5	121	0.3	275.6	104.1	1122	15.75	4.6	1.1	43.5	6.5	13	<0.1	0.2	0.2	223	0.23
STD OREAS45PA	Standard		1.0	620.7	19.8	126	0.3	308.9	112.6	1150	17.28	4.0	1.2	48.6	6.7	15	<0.1	0.1	0.2	232	0.25
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411
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	0.02	<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	2.8	3.3	47	<0.1	2.9	3.9	552	1.93	<0.5	1.9	1.9	5.1	50	<0.1	<0.1	<0.1	37	0.46
G1	Prep Blank	<0.01	0.5	2.7	3.3	44	<0.1	3.9	3.9	527	1.85	<0.5	1.8	<0.5	5.1	50	<0.1	<0.1	<0.1	36	0.49



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Project: Hen
Report Date: October 04, 2009

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN09004322.1

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
Pulp Duplicates																		
838901	Rock	0.270	16	6	0.93	122	0.024	<20	1.49	0.025	0.18	<0.1	<0.01	4.6	<0.1	<0.05	6	0.6
REP 838901	QC	0.267	17	6	0.93	122	0.023	<20	1.52	0.025	0.18	<0.1	<0.01	4.5	<0.1	<0.05	6	<0.5
853964	Rock	0.094	4	29	0.64	104	0.124	<20	1.25	0.058	0.10	<0.1	0.05	4.8	<0.1	0.12	4	<0.5
REP 853964	QC	0.097	5	30	0.64	103	0.135	<20	1.26	0.057	0.10	0.1	0.05	5.3	<0.1	0.13	4	<0.5
853974	Rock	0.092	2	77	1.17	268	0.189	<20	2.24	0.183	0.63	0.2	<0.01	3.2	0.2	0.62	6	1.0
REP 853974	QC	0.095	3	75	1.18	272	0.190	<20	2.26	0.188	0.65	0.1	<0.01	3.4	0.2	0.63	6	1.0
Reference Materials																		
STD DS7	Standard	0.077	12	161	1.02	380	0.102	43	0.99	0.089	0.41	3.8	0.18	2.2	4.2	0.20	4	3.5
STD DS7	Standard	0.077	11	170	0.99	375	0.110	42	0.93	0.082	0.39	3.5	0.19	2.2	3.9	0.20	4	3.9
STD DS7	Standard	0.075	12	194	1.04	389	0.126	35	1.06	0.098	0.46	3.2	0.19	2.4	4.0	0.18	5	3.6
STD OREAS45PA	Standard	0.036	15	861	0.10	181	0.121	<20	3.45	0.004	0.08	<0.1	0.02	44.5	<0.1	<0.05	17	0.5
STD OREAS45PA	Standard	0.030	14	744	0.09	171	0.122	<20	3.14	0.005	0.06	<0.1	0.03	38.2	<0.1	<0.05	16	<0.5
STD OREAS45PA	Standard	0.036	17	848	0.11	191	0.143	<20	3.50	0.014	0.08	<0.1	0.02	45.0	<0.1	<0.05	17	0.6
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54
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	0.081	10	8	0.54	171	0.104	<20	0.92	0.074	0.50	<0.1	<0.01	1.7	0.3	<0.05	5	<0.5
G1	Prep Blank	0.081	11	9	0.52	167	0.107	<20	0.90	0.073	0.51	0.1	<0.01	1.8	0.3	<0.05	5	<0.5



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Submitted By: David Blann
Receiving Lab: Canada-Vancouver
Received: September 29, 2009
Report Date: October 09, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09004530.1

CLIENT JOB INFORMATION

Project: Hen
Shipment ID:
P.O. Number
Number of Samples: 79

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: Paul Reynolds

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	79	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	79	Dry at 60C			VAN
1DX	79	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

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.



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Project: Hen
 Report Date: October 09, 2009

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN09004530.1

Method	WGHT	1DX	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	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	
L-12N 17E	Soil		0.9	52.0	7.3	86	0.1	37.1	13.9	320	3.14	15.1	0.3	2.1	0.7	27	0.3	0.3	0.1	75	0.42
L-12N 17+50E	Soil		0.9	37.9	6.6	54	0.2	28.9	11.5	211	2.86	9.6	0.5	1.2	0.9	23	0.3	0.3	0.1	68	0.35
L-12N 18E	Soil		1.3	26.8	7.3	51	0.1	26.1	10.5	383	2.80	10.7	0.3	1.4	0.5	19	0.1	0.3	0.1	71	0.26
L-12N 18+50E	Soil		1.0	40.7	5.8	98	0.1	34.1	14.4	244	3.49	12.7	0.5	3.3	1.4	12	0.2	0.2	0.1	76	0.18
L-12N 19+50E	Soil		0.8	12.5	6.3	70	0.1	19.8	10.6	231	2.41	4.3	0.3	0.6	0.8	11	0.1	0.2	0.1	61	0.16
L-12N 20+50E	Soil		0.9	36.9	8.9	86	<0.1	34.4	17.6	439	3.48	19.9	0.4	1.8	1.4	9	0.1	0.3	0.2	80	0.15
L-12N 21E	Soil		2.5	100.0	9.0	51	0.5	44.8	9.9	182	1.98	5.4	1.0	1.1	<0.1	30	0.4	0.2	0.1	42	0.49
L-12N 21+50E	Soil		1.1	34.0	13.2	71	0.3	15.5	10.9	927	1.91	4.0	0.5	<0.5	0.4	21	0.3	0.1	0.2	47	0.20
L-12N 22E	Soil		1.1	56.1	6.3	44	0.1	31.3	15.2	499	3.14	12.5	0.4	1.1	0.9	21	0.1	0.5	0.1	93	0.26
L-12N 22+50E	Soil		0.9	22.5	7.7	40	0.1	17.6	7.1	430	2.15	5.6	0.2	1.1	0.8	18	0.1	0.3	0.1	62	0.20
L-12N 23E	Soil		0.9	35.9	8.9	52	0.2	19.2	12.8	643	2.40	4.9	0.5	1.0	0.4	28	0.4	0.3	0.2	64	0.39
L-12N 23+50E	Soil		0.7	56.2	8.8	93	0.3	43.0	17.8	697	3.33	10.5	0.8	<0.5	1.5	33	0.4	0.3	0.1	73	0.55
L-12N 24E	Soil		2.0	62.7	9.0	98	0.4	15.7	11.9	2914	1.85	5.3	0.6	0.5	0.1	72	0.8	0.3	0.1	42	1.63
L-12N 24+50E	Soil		0.6	46.2	5.9	58	<0.1	38.1	15.1	369	2.89	10.5	0.4	3.1	1.8	23	0.2	0.4	0.1	72	0.31
L-12N 25+50E	Soil		0.7	64.6	7.5	92	<0.1	48.9	17.0	306	3.54	21.3	0.6	2.2	1.7	19	0.2	0.4	0.1	80	0.26
L-12N 26E	Soil		0.9	38.3	8.6	52	0.2	34.2	10.6	191	2.23	9.0	0.5	1.6	0.5	18	0.2	0.2	0.2	55	0.21
L-12N 26+50E	Soil		0.7	79.6	6.1	66	<0.1	65.2	18.2	446	3.20	26.1	0.5	4.2	1.5	29	0.2	0.4	0.2	74	0.38
L-12N 27E	Soil		2.6	121.4	10.4	149	0.3	97.4	56.0	2575	4.86	20.0	1.5	7.2	0.9	39	0.5	0.3	0.3	94	0.55
L-12N 27+50E	Soil		0.7	96.6	7.3	80	<0.1	52.2	20.6	641	3.65	16.2	0.6	8.5	3.0	42	0.3	0.7	0.1	85	0.43
L-12N 28E	Soil		1.1	67.5	6.3	62	<0.1	43.7	14.4	217	3.80	17.0	0.6	3.5	1.2	13	0.3	0.4	0.1	89	0.16
L-12N 28+50E	Soil		0.8	78.5	7.1	74	<0.1	58.5	21.4	551	3.70	41.6	0.5	1.6	2.3	24	0.2	0.6	0.2	91	0.29
L-12N 29E	Soil		1.0	65.0	8.4	91	0.1	50.1	19.5	327	3.97	14.8	0.5	5.3	1.0	18	0.2	0.4	0.2	96	0.26
L-12N 29+50E	Soil		0.6	86.6	6.9	58	0.1	56.2	20.2	490	3.46	16.5	0.6	2.3	2.0	45	0.3	0.5	0.2	77	0.71
L-12N 30E	Soil		1.2	148.6	7.7	52	0.3	56.0	17.0	1271	2.26	13.4	1.2	1.2	0.4	47	0.9	0.2	0.1	55	1.00
L-12N 30+50E	Soil		0.7	141.7	8.9	59	0.3	49.1	16.3	417	3.12	28.1	0.9	2.2	0.5	42	0.7	0.3	0.1	71	0.98
L-12N 31E	Soil		1.2	29.4	6.5	60	0.3	29.6	9.8	173	3.32	9.3	0.4	<0.5	1.1	16	0.3	0.3	0.1	75	0.17
L-12N 31+50E	Soil		1.1	27.2	8.1	74	0.2	35.9	13.2	276	3.44	12.2	0.4	1.3	0.6	15	0.3	0.3	0.2	79	0.19
L-12N 32E	Soil		0.8	60.3	2.3	51	0.1	79.9	31.1	976	3.91	6.1	0.8	2.8	1.1	47	0.2	0.1	<0.1	81	1.15
L-12N 32+50E	Soil		0.8	15.4	8.2	54	<0.1	17.2	6.2	208	2.29	3.8	0.3	1.8	0.8	10	<0.1	0.1	0.2	55	0.14
L-12N 33E	Soil		1.0	53.2	8.0	60	<0.1	47.6	15.2	255	3.87	12.9	0.4	1.3	1.5	11	0.2	0.3	0.2	95	0.16

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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	
L-12N 17E	Soil	0.083	5	63	0.85	147	0.103	<20	2.32	0.011	0.07	0.2	0.04	2.5	<0.1	<0.05	7	<0.5
L-12N 17+50E	Soil	0.033	10	52	0.65	109	0.107	<20	2.03	0.012	0.05	0.1	0.04	2.8	<0.1	<0.05	6	<0.5
L-12N 18E	Soil	0.109	4	56	0.66	98	0.099	<20	1.53	0.010	0.08	0.1	0.03	2.0	<0.1	<0.05	7	<0.5
L-12N 18+50E	Soil	0.238	5	59	0.68	102	0.091	<20	3.10	0.008	0.07	0.7	0.06	2.9	<0.1	<0.05	7	<0.5
L-12N 19+50E	Soil	0.081	5	38	0.35	80	0.086	<20	1.57	0.008	0.04	0.1	0.02	1.6	<0.1	<0.05	6	<0.5
L-12N 20+50E	Soil	0.231	4	64	0.75	107	0.105	<20	2.38	0.007	0.08	0.2	0.04	2.7	<0.1	<0.05	8	<0.5
L-12N 21E	Soil	0.069	11	58	0.65	153	0.051	<20	2.17	0.009	0.08	<0.1	0.10	1.6	<0.1	0.06	7	<0.5
L-12N 21+50E	Soil	0.076	6	24	0.32	94	0.108	<20	1.12	0.011	0.04	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5
L-12N 22E	Soil	0.057	5	49	0.71	88	0.133	<20	1.74	0.012	0.07	0.2	0.02	2.7	<0.1	<0.05	6	<0.5
L-12N 22+50E	Soil	0.049	4	35	0.37	108	0.107	<20	1.04	0.010	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5
L-12N 23E	Soil	0.049	9	38	0.47	99	0.088	<20	1.43	0.012	0.04	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
L-12N 23+50E	Soil	0.056	9	72	1.02	357	0.133	<20	2.36	0.016	0.07	0.1	0.03	4.0	<0.1	<0.05	7	<0.5
L-12N 24E	Soil	0.085	7	27	0.46	411	0.051	<20	1.21	0.014	0.04	<0.1	0.17	1.5	0.1	0.10	5	0.8
L-12N 24+50E	Soil	0.063	8	72	0.98	164	0.143	<20	1.84	0.017	0.08	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
L-12N 25+50E	Soil	0.064	8	85	1.08	122	0.149	<20	2.74	0.015	0.09	0.1	0.03	4.3	<0.1	<0.05	8	<0.5
L-12N 26E	Soil	0.034	5	66	0.72	74	0.132	<20	2.04	0.019	0.07	0.1	0.06	2.5	<0.1	<0.05	7	<0.5
L-12N 26+50E	Soil	0.077	9	95	1.21	191	0.135	<20	2.87	0.019	0.21	0.2	0.05	4.4	<0.1	<0.05	7	0.6
L-12N 27E	Soil	0.095	10	127	1.20	309	0.129	<20	4.73	0.017	0.22	<0.1	0.05	6.5	0.3	<0.05	12	<0.5
L-12N 27+50E	Soil	0.095	12	87	1.24	142	0.140	<20	2.64	0.014	0.18	<0.1	0.02	6.7	0.1	<0.05	7	<0.5
L-12N 28E	Soil	0.043	7	87	0.95	109	0.149	<20	3.89	0.013	0.06	0.2	0.07	4.5	<0.1	<0.05	8	0.6
L-12N 28+50E	Soil	0.076	8	93	1.21	182	0.165	<20	2.91	0.018	0.19	0.1	0.03	5.2	0.1	<0.05	8	<0.5
L-12N 29E	Soil	0.076	6	91	1.09	159	0.164	<20	3.08	0.012	0.11	0.1	0.04	4.6	<0.1	<0.05	9	<0.5
L-12N 29+50E	Soil	0.046	9	80	1.20	150	0.170	<20	2.65	0.039	0.17	0.1	0.02	4.4	0.2	<0.05	8	<0.5
L-12N 30E	Soil	0.066	9	68	0.89	109	0.091	<20	2.00	0.032	0.09	<0.1	0.05	3.4	<0.1	<0.05	7	0.7
L-12N 30+50E	Soil	0.053	9	68	0.82	119	0.118	<20	2.71	0.019	0.09	0.7	0.06	3.7	<0.1	<0.05	9	<0.5
L-12N 31E	Soil	0.067	5	60	0.60	88	0.143	<20	2.55	0.012	0.05	0.2	0.06	2.7	<0.1	<0.05	7	0.6
L-12N 31+50E	Soil	0.063	4	58	0.64	90	0.134	<20	2.08	0.011	0.06	0.2	0.04	2.3	<0.1	<0.05	8	<0.5
L-12N 32E	Soil	0.207	14	75	1.81	135	0.157	<20	2.29	0.037	0.25	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5
L-12N 32+50E	Soil	0.117	3	36	0.37	88	0.131	<20	1.17	0.009	0.05	0.1	0.03	1.5	<0.1	<0.05	8	<0.5
L-12N 33E	Soil	0.119	5	99	1.26	106	0.174	<20	2.89	0.011	0.10	0.2	0.03	3.7	<0.1	<0.05	10	<0.5

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CERTIFICATE OF ANALYSIS

VAN09004530.1

Method	Analyte	Unit	MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
				Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
				kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
				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
L-12N 33+50E	Soil				1.0	28.2	8.6	63	<0.1	35.8	12.4	191	2.87	11.7	0.4	4.3	1.1	21	0.3	0.3	0.2	73	0.34
L-12N 34E	Soil				1.0	33.0	6.9	59	0.1	34.0	13.2	227	3.29	10.7	0.4	1.6	1.9	15	0.2	0.4	0.2	83	0.16
L-12N 34+50E	Soil				0.9	31.7	8.3	52	0.1	30.7	12.1	207	3.24	7.4	0.5	2.0	1.6	17	0.2	0.3	0.2	75	0.17
L-12N 35E	Soil				0.6	71.2	7.8	84	<0.1	90.1	17.8	331	4.30	18.5	0.4	0.7	1.8	21	0.2	0.5	0.2	96	0.26
L-12N 35+50E	Soil				0.6	24.1	8.6	37	0.1	23.8	7.9	106	2.12	19.2	0.4	<0.5	0.8	16	0.2	0.5	0.1	50	0.21
L-12N 36E	Soil				0.8	57.4	8.9	54	0.1	30.3	15.9	661	2.97	9.1	0.5	1.3	0.8	38	0.2	0.4	0.2	70	0.39
L-14N 17E	Soil				1.5	35.9	14.1	77	0.1	31.5	15.8	386	2.89	13.4	0.5	1.8	1.2	16	0.1	0.2	0.2	67	0.19
L-14N 17+50E	Soil				0.7	47.8	9.2	69	0.2	32.5	13.0	440	2.85	17.0	0.7	1.5	0.6	28	0.2	0.3	0.2	65	0.36
L-14N 18E	Soil				1.0	68.0	8.6	64	0.3	34.9	16.7	852	3.05	16.1	0.8	1.5	0.4	32	0.5	0.4	0.1	90	0.36
L-14N 18+50E	Soil				1.0	30.3	5.8	32	0.1	15.6	6.4	131	2.92	8.6	0.4	3.2	0.8	16	0.2	0.4	0.1	87	0.15
L-14N 20+50E	Soil				0.9	52.0	8.1	53	<0.1	30.1	10.4	196	3.04	18.3	0.5	1.6	1.2	20	0.2	0.4	0.2	87	0.23
L-14N 21E	Soil				1.4	48.8	9.8	83	0.2	28.2	10.1	417	2.99	19.9	0.5	0.9	0.6	23	0.3	0.3	0.1	72	0.41
L-14N 21+50E	Soil				1.0	73.6	10.4	82	0.3	43.9	15.1	381	3.55	12.6	0.7	1.0	0.5	33	0.4	0.3	0.2	87	0.38
L-14N 22E	Soil				1.8	118.3	7.8	29	0.1	10.2	5.8	94	2.54	12.2	0.5	1.2	0.5	7	0.2	0.2	0.2	75	0.09
L-14N 22+50E	Soil				2.3	120.1	5.4	32	0.2	10.0	6.8	187	3.57	7.3	1.4	1.8	0.4	11	0.3	0.2	0.1	100	0.26
L-14N 23E	Soil				2.3	72.0	14.3	66	0.2	8.0	15.5	349	4.53	7.0	0.7	<0.5	0.7	9	0.3	0.2	0.2	96	0.15
L-14N 23+50E	Soil				0.9	51.2	7.6	74	0.1	28.9	11.2	263	3.83	14.6	0.6	<0.5	0.8	16	0.4	0.3	0.1	91	0.29
L-14N 24E	Soil				0.7	84.6	5.7	60	0.2	69.8	24.5	427	3.26	5.0	0.5	<0.5	0.5	25	0.2	<0.1	<0.1	68	0.52
L-14N 24+50E	Soil				0.8	51.3	9.7	80	0.2	24.4	9.7	203	2.96	8.7	0.6	0.9	0.6	37	0.3	0.2	0.1	70	0.69
L-14N 25E	Soil				0.9	80.4	9.1	100	0.2	57.9	18.3	534	3.52	20.5	1.8	2.2	0.7	32	0.3	0.3	0.1	93	0.76
L-14N 25+50E	Soil				0.6	48.0	7.3	51	<0.1	38.4	13.8	374	2.43	11.3	0.6	3.9	1.5	21	0.2	0.3	<0.1	68	0.39
L-14N 26E	Soil				1.5	26.3	7.4	51	<0.1	21.5	7.8	148	3.49	15.0	0.4	<0.5	1.0	11	0.3	0.3	0.1	87	0.17
L-14N 26+50E	Soil				0.8	94.3	11.3	89	0.5	57.3	25.4	483	3.34	27.1	1.1	1.6	1.1	21	0.4	0.3	0.2	80	0.42
L-14N 27E	Soil				1.0	17.6	6.4	38	0.1	16.9	5.8	110	1.77	9.1	0.3	0.9	0.7	7	0.2	0.1	<0.1	44	0.12
L-14N 27+50E	Soil				0.9	46.7	6.9	58	0.2	38.5	13.1	209	2.76	11.4	0.6	7.6	0.5	17	0.1	0.2	0.1	70	0.25
L-14N 28E	Soil				0.8	23.7	7.7	67	0.1	18.5	6.7	121	2.57	10.8	0.4	0.8	0.5	8	0.2	0.3	<0.1	65	0.15
L-14N 28+50E	Soil				1.0	46.0	4.7	48	0.3	54.9	17.6	265	3.74	11.7	0.3	0.9	0.6	7	0.1	0.4	<0.1	121	0.19
L-14N 29E	Soil				1.1	22.6	7.2	64	<0.1	27.7	10.4	249	2.78	11.7	0.3	14.0	0.8	10	0.2	0.2	0.1	68	0.20
L-14N 29+50E	Soil				1.2	39.6	7.8	73	0.2	34.4	13.1	544	2.96	15.0	0.4	1.1	1.0	8	0.3	0.3	0.2	78	0.15
L-14N 30E	Soil				1.1	223.7	6.9	89	0.6	102.9	21.2	437	3.83	33.0	0.9	0.6	1.3	22	0.6	0.3	0.2	89	0.63

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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	
L-12N 33+50E	Soil	0.054	4	52	0.83	113	0.183	<20	2.20	0.017	0.07	0.2	0.02	2.2	<0.1	<0.05	9	<0.5
L-12N 34E	Soil	0.092	6	55	0.79	158	0.176	<20	2.78	0.012	0.09	0.2	0.03	3.6	<0.1	<0.05	9	<0.5
L-12N 34+50E	Soil	0.066	5	48	0.69	115	0.172	<20	2.98	0.012	0.08	0.2	0.04	3.0	<0.1	<0.05	9	<0.5
L-12N 35E	Soil	0.256	5	138	1.68	145	0.174	<20	3.25	0.009	0.11	0.8	0.01	4.7	<0.1	<0.05	10	<0.5
L-12N 35+50E	Soil	0.042	5	39	0.34	77	0.108	<20	1.42	0.007	0.03	0.2	0.03	1.7	<0.1	<0.05	6	<0.5
L-12N 36E	Soil	0.071	6	42	0.89	103	0.148	<20	2.47	0.015	0.07	0.1	0.03	3.0	<0.1	<0.05	8	<0.5
L-14N 17E	Soil	0.056	9	50	0.62	111	0.147	<20	2.38	0.013	0.07	0.2	0.03	3.2	<0.1	<0.05	9	<0.5
L-14N 17+50E	Soil	0.045	10	56	0.75	135	0.136	<20	1.98	0.015	0.07	0.1	0.03	2.9	<0.1	<0.05	7	<0.5
L-14N 18E	Soil	0.072	10	55	0.75	135	0.090	<20	2.19	0.013	0.09	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5
L-14N 18+50E	Soil	0.021	4	36	0.42	78	0.117	<20	1.60	0.012	0.03	0.2	0.04	2.3	<0.1	<0.05	6	<0.5
L-14N 20+50E	Soil	0.070	5	49	0.65	88	0.116	<20	2.14	0.013	0.06	0.1	0.04	3.0	<0.1	<0.05	6	<0.5
L-14N 21E	Soil	0.081	4	51	0.61	108	0.111	<20	2.33	0.012	0.06	0.2	0.07	2.4	<0.1	0.05	7	<0.5
L-14N 21+50E	Soil	0.045	6	66	0.90	158	0.144	<20	2.78	0.016	0.08	0.1	0.03	3.1	<0.1	<0.05	9	<0.5
L-14N 22E	Soil	0.043	4	18	0.19	88	0.049	<20	1.35	0.005	0.08	0.1	0.04	1.2	<0.1	<0.05	6	<0.5
L-14N 22+50E	Soil	0.086	9	20	0.30	121	0.046	<20	4.31	0.004	0.03	0.2	0.13	3.4	<0.1	0.08	8	<0.5
L-14N 23E	Soil	0.147	4	18	0.15	84	0.128	<20	1.90	0.007	0.02	0.2	0.08	1.6	<0.1	0.06	15	0.6
L-14N 23+50E	Soil	0.091	5	59	0.62	180	0.133	<20	3.02	0.012	0.04	0.2	0.04	3.4	<0.1	<0.05	9	<0.5
L-14N 24E	Soil	0.033	4	81	1.61	88	0.192	<20	2.61	0.024	0.13	<0.1	0.03	0.9	<0.1	<0.05	8	<0.5
L-14N 24+50E	Soil	0.027	5	51	0.65	167	0.144	<20	1.86	0.022	0.05	1.4	0.02	2.0	<0.1	<0.05	8	<0.5
L-14N 25E	Soil	0.048	8	88	1.26	151	0.134	<20	3.02	0.032	0.15	0.1	0.03	4.8	0.1	<0.05	8	0.6
L-14N 25+50E	Soil	0.030	9	64	0.95	95	0.123	<20	1.98	0.019	0.09	<0.1	0.01	4.1	<0.1	<0.05	5	0.5
L-14N 26E	Soil	0.023	4	49	0.50	58	0.153	<20	1.70	0.008	0.04	0.2	0.05	2.3	<0.1	<0.05	7	0.6
L-14N 26+50E	Soil	0.083	16	84	0.70	112	0.119	<20	3.66	0.014	0.08	<0.1	0.09	6.1	0.1	<0.05	7	1.5
L-14N 27E	Soil	0.041	2	34	0.31	45	0.081	<20	1.52	0.010	0.04	<0.1	0.04	1.5	<0.1	<0.05	4	0.6
L-14N 27+50E	Soil	0.039	8	68	0.86	82	0.127	<20	2.50	0.018	0.07	0.2	0.03	2.7	<0.1	<0.05	7	0.5
L-14N 28E	Soil	0.081	3	43	0.41	57	0.094	<20	1.95	0.011	0.03	0.1	0.07	1.9	<0.1	<0.05	7	<0.5
L-14N 28+50E	Soil	0.045	2	186	1.68	55	0.139	<20	2.13	0.011	0.08	0.1	0.03	6.1	<0.1	<0.05	9	<0.5
L-14N 29E	Soil	0.141	3	54	0.52	71	0.114	<20	1.91	0.013	0.06	0.2	0.04	1.9	<0.1	<0.05	8	<0.5
L-14N 29+50E	Soil	0.044	4	59	0.60	74	0.145	<20	2.28	0.012	0.06	<0.1	0.03	2.4	<0.1	<0.05	8	<0.5
L-14N 30E	Soil	0.051	10	147	1.49	176	0.146	<20	4.63	0.018	0.17	0.2	0.08	5.4	0.2	<0.05	10	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.



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Project: Hen
 Report Date: October 09, 2009

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CERTIFICATE OF ANALYSIS

VAN09004530.1

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
L-14N 30+50E	Soil	1.2	63.9	7.9	120	0.2	66.5	20.9	221	4.05	14.1	0.5	<0.5	1.4	13	0.3	0.3	0.1	89	0.26
L-14N 31E	Soil	0.8	59.8	7.8	53	0.2	45.8	15.8	236	3.29	16.8	0.4	3.0	1.8	16	0.3	0.4	0.1	78	0.23
L-14N 32E	Soil	1.0	202.5	9.9	152	0.2	63.2	19.8	321	3.68	15.7	0.5	2.6	1.3	19	0.2	0.3	0.1	96	0.32
L-14N 32+50E	Soil	1.3	26.4	6.7	62	0.1	33.4	12.8	274	2.92	7.1	0.5	<0.5	1.4	11	0.1	0.3	0.1	69	0.16
L-14N 33E	Soil	0.7	57.3	6.0	78	0.1	45.0	18.0	672	3.22	12.1	0.4	0.6	1.7	17	0.2	0.4	0.1	88	0.28
L-14N 33+50E	Soil	1.1	41.6	8.0	123	0.4	53.0	19.5	226	4.02	16.1	0.5	1.1	1.2	13	0.6	0.4	0.1	111	0.19
L-14N 34E	Soil	0.7	35.8	5.5	108	0.2	70.3	19.8	315	3.70	9.0	0.3	1.9	1.1	12	0.2	0.2	0.1	72	0.23
L-14N 34+50E	Soil	0.6	47.4	5.4	59	0.2	41.3	11.8	276	2.67	6.7	0.5	<0.5	1.9	14	0.1	0.2	0.2	67	0.22
L-14N 35E	Soil	0.6	141.0	4.4	61	<0.1	92.3	28.8	310	3.90	19.8	0.3	<0.5	1.5	20	0.2	0.2	<0.1	87	0.30
L-14N 35+50E	Soil	0.6	79.4	5.3	97	0.1	58.2	25.2	1499	3.72	8.3	0.4	<0.5	0.9	32	0.4	0.2	<0.1	105	0.58
L-14N 36E	Soil	0.9	32.0	5.9	58	0.1	24.8	9.8	220	3.14	10.2	0.6	1.7	0.5	33	0.3	0.3	0.1	69	0.53
BL-20E 12N	Soil	1.2	54.0	9.3	73	<0.1	39.0	13.3	228	3.55	16.4	0.4	<0.5	1.5	12	<0.1	0.3	0.1	82	0.17
BL-20E 12+50N	Soil	1.6	59.2	16.1	85	0.2	37.7	15.2	321	3.65	15.0	0.6	<0.5	0.6	14	0.2	0.3	0.2	81	0.19
BL-20E 13N	Soil	0.7	45.8	6.4	51	0.2	28.0	13.7	278	3.15	15.9	0.5	10.0	0.6	16	0.2	0.4	<0.1	102	0.24
BL-20E 13+50N	Soil	1.2	50.2	6.0	37	0.1	22.2	9.5	235	2.96	12.1	0.5	<0.5	0.4	14	0.2	0.4	0.1	85	0.17
BL-20E 14N	Soil	0.7	32.4	6.1	50	0.2	26.3	9.5	202	2.61	7.4	0.3	3.3	0.5	21	0.2	0.3	<0.1	68	0.25
BL-20E 14+50N	Soil	1.0	68.7	5.2	49	0.1	33.5	12.4	235	2.98	15.6	0.4	5.8	1.3	16	0.2	0.4	<0.1	86	0.25
BL-20E 15N	Soil	0.7	29.6	6.2	23	0.2	16.7	6.5	109	2.05	7.1	0.4	<0.5	0.3	14	0.1	0.3	0.1	71	0.17
BL-20E 15+50N	Soil	0.6	51.9	6.7	52	<0.1	32.4	13.0	204	2.80	13.7	0.3	0.7	1.3	15	<0.1	0.3	<0.1	80	0.21



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Report Date: October 09, 2009

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CERTIFICATE OF ANALYSIS

VAN09004530.1

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	
L-14N 30+50E	Soil	0.087	4	104	1.02	108	0.181	<20	4.77	0.011	0.08	0.2	0.07	3.4	<0.1	<0.05	11	<0.5
L-14N 31E	Soil	0.023	6	75	0.95	115	0.156	<20	2.78	0.013	0.08	0.3	0.06	3.0	<0.1	<0.05	7	<0.5
L-14N 32E	Soil	0.051	7	76	1.11	139	0.160	<20	3.07	0.017	0.10	0.1	0.02	3.7	<0.1	<0.05	8	<0.5
L-14N 32+50E	Soil	0.079	5	49	0.62	100	0.139	<20	2.70	0.011	0.05	0.2	0.04	2.4	<0.1	<0.05	8	<0.5
L-14N 33E	Soil	0.179	5	73	1.06	178	0.141	<20	2.87	0.014	0.11	0.2	0.03	3.4	<0.1	<0.05	7	0.7
L-14N 33+50E	Soil	0.056	5	111	0.94	99	0.155	<20	3.35	0.010	0.07	0.2	0.03	4.4	<0.1	<0.05	8	<0.5
L-14N 34E	Soil	0.157	4	110	1.19	144	0.147	<20	2.90	0.009	0.06	0.2	0.03	2.5	<0.1	<0.05	8	<0.5
L-14N 34+50E	Soil	0.051	6	74	0.93	112	0.154	<20	2.76	0.012	0.09	0.1	0.03	2.8	0.1	<0.05	7	0.6
L-14N 35E	Soil	0.049	4	98	2.00	105	0.184	<20	3.74	0.020	0.09	0.1	0.01	2.0	<0.1	<0.05	9	<0.5
L-14N 35+50E	Soil	0.132	4	135	1.51	247	0.163	<20	3.24	0.015	0.18	0.1	0.02	5.1	<0.1	<0.05	10	0.5
L-14N 36E	Soil	0.051	8	43	0.61	95	0.130	<20	2.61	0.010	0.07	0.2	0.04	2.3	<0.1	<0.05	8	0.6
BL-20E 12N	Soil	0.030	4	72	0.92	83	0.165	<20	2.62	0.011	0.07	0.2	0.04	3.0	<0.1	<0.05	9	0.6
BL-20E 12+50N	Soil	0.059	6	62	0.87	87	0.142	<20	2.36	0.017	0.08	0.2	0.04	2.6	<0.1	<0.05	10	0.6
BL-20E 13N	Soil	0.042	6	49	0.61	76	0.112	<20	1.87	0.011	0.06	0.1	0.02	2.3	<0.1	<0.05	6	0.5
BL-20E 13+50N	Soil	0.038	6	42	0.49	54	0.115	<20	2.02	0.011	0.05	0.1	0.03	2.3	<0.1	<0.05	7	0.5
BL-20E 14N	Soil	0.047	5	35	0.45	76	0.094	<20	1.77	0.010	0.04	0.1	0.02	1.8	<0.1	<0.05	6	<0.5
BL-20E 14+50N	Soil	0.071	6	50	0.73	102	0.108	<20	2.34	0.012	0.08	0.2	0.03	3.1	<0.1	<0.05	6	0.6
BL-20E 15N	Soil	0.023	7	30	0.35	48	0.088	<20	1.51	0.012	0.03	0.1	0.02	1.9	<0.1	<0.05	5	<0.5
BL-20E 15+50N	Soil	0.092	5	56	0.68	80	0.109	<20	2.36	0.010	0.05	0.2	0.03	2.9	<0.1	<0.05	6	0.6



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QUALITY CONTROL REPORT

VAN09004530.1

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																				
L-12N 30E	Soil	1.2	148.6	7.7	52	0.3	56.0	17.0	1271	2.26	13.4	1.2	1.2	0.4	47	0.9	0.2	0.1	55	1.00
REP L-12N 30E	QC	1.1	146.6	7.1	52	0.3	57.2	17.0	1213	2.27	13.1	1.1	1.8	0.3	47	0.9	0.2	0.1	55	0.97
L-14N 22E	Soil	1.8	118.3	7.8	29	0.1	10.2	5.8	94	2.54	12.2	0.5	1.2	0.5	7	0.2	0.2	0.2	75	0.09
REP L-14N 22E	QC	2.1	112.3	7.8	30	0.1	10.0	5.7	94	2.56	12.2	0.5	<0.5	0.4	7	0.2	0.2	0.2	78	0.08
Reference Materials																				
STD DS7	Standard	20.7	97.9	65.3	369	0.7	50.2	8.7	602	2.19	41.8	5.0	48.1	4.4	64	5.6	4.5	3.8	80	0.89
STD DS7	Standard	20.1	91.7	62.3	383	0.8	51.3	8.9	616	2.33	48.9	4.6	50.3	4.0	66	6.0	4.6	4.2	82	0.93
STD DS7	Standard	20.0	107.9	72.7	397	0.7	54.1	8.8	633	2.41	49.3	5.2	53.0	4.3	76	6.6	5.5	5.1	81	0.94
STD OREAS45PA	Standard	1.1	567.3	16.2	111	0.2	273.5	100.4	1018	15.12	4.2	1.0	41.5	6.0	13	<0.1	0.2	0.1	210	0.23
STD OREAS45PA	Standard	0.9	579.8	16.2	110	0.2	266.0	99.2	1033	15.28	4.3	1.0	37.2	5.5	13	<0.1	0.1	0.1	215	0.23
STD OREAS45PA	Standard	0.9	529.5	18.1	106	0.2	264.2	97.1	994	15.36	4.2	1.2	44.2	6.4	14	<0.1	0.2	0.2	171	0.21
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected		0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411
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



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QUALITY CONTROL REPORT

VAN09004530.1

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	0.05	1	0.5	
Pulp Duplicates																		
L-12N 30E	Soil	0.066	9	68	0.89	109	0.091	<20	2.00	0.032	0.09	<0.1	0.05	3.4	<0.1	<0.05	7	0.7
REP L-12N 30E	QC	0.062	8	67	0.88	105	0.089	<20	1.98	0.033	0.10	<0.1	0.04	3.3	<0.1	<0.05	7	0.8
L-14N 22E	Soil	0.043	4	18	0.19	88	0.049	<20	1.35	0.005	0.08	0.1	0.04	1.2	<0.1	<0.05	6	<0.5
REP L-14N 22E	QC	0.043	4	18	0.20	87	0.052	<20	1.33	0.004	0.08	0.1	0.03	1.3	<0.1	<0.05	6	<0.5
Reference Materials																		
STD DS7	Standard	0.071	12	198	0.95	376	0.119	32	1.04	0.092	0.39	3.5	0.18	2.4	4.2	0.18	4	3.7
STD DS7	Standard	0.075	12	200	1.04	400	0.101	33	1.00	0.104	0.45	3.6	0.20	2.1	4.4	0.21	4	3.5
STD DS7	Standard	0.082	12	190	1.04	390	0.125	33	1.01	0.100	0.46	3.4	0.18	2.5	4.1	0.18	5	3.4
STD OREAS45PA	Standard	0.030	14	751	0.10	168	0.122	<20	2.99	0.010	0.07	<0.1	0.03	38.2	<0.1	<0.05	18	1.0
STD OREAS45PA	Standard	0.031	14	829	0.09	170	0.105	<20	2.96	0.009	0.07	<0.1	0.02	35.9	<0.1	<0.05	16	0.9
STD OREAS45PA	Standard	0.032	15	683	0.10	173	0.127	<20	3.04	0.011	0.07	<0.1	0.02	40.0	<0.1	<0.05	15	0.8
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54
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



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Happy Creek Minerals Ltd.

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

Submitted By: David Blann

Receiving Lab: Canada-Vancouver

Received: September 29, 2009

Report Date: October 15, 2009

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN09004533.1

CLIENT JOB INFORMATION

Project: Hen
Shipment ID:
P.O. Number
Number of Samples: 44

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R150	43	Crush, split and pulverize rock to 200 mesh			VAN
1DX	43	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Paul Reynold



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.



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Project: Hen
 Report Date: October 15, 2009

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CERTIFICATE OF ANALYSIS

VAN09004533.1

Method	WGHT	1DX	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	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	
853801	Rock	3.67	2.3	123.7	200.4	593	1.3	22.9	16.4	683	3.83	56.0	0.7	13.6	2.4	37	4.3	3.0	0.5	193	0.67
853802	Rock	3.83	1.2	100.4	3.8	67	0.3	43.5	21.6	673	3.76	70.6	0.5	2.1	1.7	69	0.4	2.1	<0.1	161	0.92
853803	Rock	3.64	1.1	104.1	3.1	52	0.2	17.8	16.0	609	3.67	44.2	0.6	6.4	2.4	54	0.2	2.7	0.2	196	0.75
853804	Rock	2.98	2.1	115.0	25.0	76	0.6	20.6	19.2	605	3.90	94.0	0.6	10.0	2.3	32	0.3	2.6	0.3	213	0.62
853805	Rock	2.50	0.3	56.8	3.8	58	0.2	18.8	11.6	527	2.77	207.2	0.5	31.3	1.8	62	0.2	1.7	<0.1	136	0.87
853806	Rock	2.66	0.2	61.8	2.1	64	0.1	22.7	15.8	636	3.40	280.2	0.4	8.9	1.8	98	<0.1	1.9	<0.1	154	0.91
853807	Rock	2.82	1.6	78.3	3.1	74	0.2	24.8	14.7	649	3.84	179.6	0.4	5.5	1.8	39	0.1	2.7	<0.1	160	0.72
853808	Rock	3.31	4.5	110.4	3.8	67	0.2	25.5	19.2	661	3.74	702.9	0.5	8.4	1.7	63	0.1	4.1	0.1	154	0.88
853809	Rock	3.30	2.0	87.2	5.4	73	0.1	44.9	21.8	1092	4.61	177.2	0.7	8.1	2.3	46	0.4	1.7	0.1	158	0.81
853810	Rock	4.92	0.5	98.7	1.5	80	0.2	28.9	23.9	713	4.31	151.6	0.5	4.2	2.0	63	0.3	3.4	<0.1	181	0.77
853811	Rock	4.73	0.6	107.9	1.8	79	0.2	21.8	21.3	799	4.98	154.9	0.5	9.5	2.2	43	0.1	2.3	0.1	225	0.76
853812	Rock	3.20	0.6	102.3	1.4	93	0.1	15.4	20.3	897	6.05	141.9	0.5	27.6	2.1	45	<0.1	2.1	<0.1	267	0.70
853813	Rock	2.80	1.1	150.4	2.8	91	0.1	24.0	21.4	761	5.73	1488	0.8	40.1	1.8	30	<0.1	2.0	<0.1	256	1.03
853814	Rock	3.11	1.9	146.4	4.0	90	0.2	22.9	24.3	848	5.14	499.5	0.8	38.0	2.3	34	0.1	1.1	<0.1	226	0.93
853815	Rock	2.21	1.1	120.1	4.1	65	0.2	19.5	15.7	639	3.72	138.6	0.5	10.1	1.9	37	0.2	1.7	<0.1	176	1.04
853816	Rock	4.92	0.4	24.2	5.0	69	0.1	23.6	19.0	579	3.69	366.8	0.4	11.7	1.4	54	<0.1	3.0	0.1	147	0.96
853817	Rock	4.71	0.4	74.5	3.6	63	0.2	19.7	24.0	535	3.25	792.0	0.4	13.3	1.5	66	0.2	2.0	<0.1	150	0.79
853818	Rock	5.86	1.8	75.1	5.8	87	0.2	25.3	15.4	748	3.61	252.1	0.6	5.7	2.0	81	0.2	2.5	0.1	179	0.93
853824	Rock	1.80	0.5	107.0	1.7	32	0.2	22.4	25.6	510	3.91	48.3	0.5	5.3	1.9	55	0.1	3.0	0.1	187	0.93
853829	Rock	3.19	0.4	176.8	2.1	57	0.3	16.8	21.8	680	5.00	1052	0.7	123.8	2.3	54	0.1	3.9	0.1	227	0.93
853975	Rock	8.89	0.4	228.7	3.4	36	0.2	21.0	31.5	618	3.97	9.3	0.2	11.8	0.4	73	0.2	0.3	<0.1	70	1.28
853976	Rock	6.50	3.1	166.7	20.8	160	0.4	88.6	31.2	699	4.64	1806	0.2	9.4	0.4	97	0.8	0.5	1.8	88	1.43
853977	Rock	8.67	1.3	340.6	22.2	495	0.3	99.9	35.8	395	3.61	18.7	0.5	0.9	1.1	49	2.7	0.3	0.1	57	1.23
853978	Rock	6.66	0.5	422.8	5.8	39	0.3	97.0	32.0	387	3.46	51.7	0.4	1.6	1.0	90	0.2	0.2	<0.1	74	1.52
853979	Rock	6.22	0.4	301.9	25.1	32	0.2	100.4	32.3	384	3.84	14.9	0.4	<0.5	1.0	115	0.1	0.2	0.1	82	1.58
853980	Rock	7.48	0.4	317.0	99.4	290	0.4	101.9	44.3	572	4.40	36.1	0.4	0.9	1.3	130	1.5	0.2	0.1	92	1.79
853981	Rock	5.63	0.6	237.4	116.5	827	0.7	100.4	35.9	658	4.11	61.6	0.4	0.9	1.2	97	4.4	0.3	0.1	83	1.28
853982	Rock	6.49	0.7	245.3	21.6	108	0.4	112.6	36.3	534	3.58	28.7	0.6	<0.5	1.3	152	0.6	0.2	<0.1	84	1.89
853983	Rock	6.73	0.4	95.6	15.0	65	0.2	70.2	23.5	457	2.86	11.4	0.3	<0.5	1.1	103	0.3	<0.1	<0.1	76	1.49
853984	Rock	6.79	0.3	162.1	105.6	230	0.5	71.6	29.8	561	3.20	27.5	0.2	0.8	0.8	117	1.3	0.2	<0.1	76	1.79



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Project: Hen
 Report Date: October 15, 2009

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CERTIFICATE OF ANALYSIS

VAN09004533.1

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	
853801	Rock	0.181	8	35	1.40	241	0.296	<20	1.84	0.095	1.28	0.4	0.05	5.3	0.4	0.15	8	1.0
853802	Rock	0.165	6	54	1.49	293	0.253	<20	2.08	0.131	1.08	1.0	0.01	4.8	0.4	0.25	8	0.6
853803	Rock	0.201	7	24	1.40	281	0.270	<20	1.88	0.092	1.32	0.9	0.01	5.7	0.4	0.14	9	0.7
853804	Rock	0.186	7	27	1.55	267	0.310	<20	1.86	0.088	1.43	0.2	0.02	5.9	0.4	0.16	9	1.1
853805	Rock	0.160	6	42	1.09	240	0.210	<20	1.52	0.115	0.91	0.6	<0.01	4.2	0.4	<0.05	6	<0.5
853806	Rock	0.150	6	47	1.30	262	0.256	<20	1.92	0.107	1.06	0.8	<0.01	5.2	0.4	0.08	8	<0.5
853807	Rock	0.154	6	45	1.42	228	0.274	<20	1.90	0.079	1.17	0.5	<0.01	6.0	0.5	0.14	8	<0.5
853808	Rock	0.163	6	29	1.30	217	0.262	<20	1.83	0.145	1.14	1.4	<0.01	4.2	0.6	0.45	7	1.2
853809	Rock	0.146	8	77	1.61	234	0.228	<20	2.29	0.056	0.78	0.3	0.01	6.0	0.4	<0.05	8	<0.5
853810	Rock	0.190	7	44	1.41	310	0.299	<20	1.95	0.085	1.20	0.7	<0.01	3.7	0.5	0.20	8	<0.5
853811	Rock	0.184	7	34	1.55	232	0.325	<20	2.25	0.076	1.43	1.6	<0.01	6.3	0.5	0.24	10	0.8
853812	Rock	0.175	7	21	1.88	311	0.351	<20	2.58	0.076	1.66	1.3	0.01	6.5	0.5	0.10	11	0.6
853813	Rock	0.172	6	43	1.84	347	0.330	<20	2.62	0.046	1.60	3.2	0.02	8.0	0.7	0.31	12	1.2
853814	Rock	0.200	6	34	1.62	311	0.288	<20	2.32	0.070	1.44	1.3	0.02	6.9	0.6	0.26	11	0.8
853815	Rock	0.187	5	22	1.26	203	0.224	<20	1.85	0.120	0.90	2.6	<0.01	5.6	0.3	0.37	9	0.7
853816	Rock	0.141	5	46	1.39	213	0.242	<20	2.01	0.142	1.20	0.6	<0.01	4.2	0.5	0.18	8	0.5
853817	Rock	0.161	5	40	1.24	208	0.241	<20	1.84	0.144	1.21	1.9	<0.01	3.6	0.5	0.12	7	<0.5
853818	Rock	0.169	6	38	1.56	331	0.292	<20	2.19	0.146	1.29	0.5	0.03	4.9	0.6	0.13	9	0.7
853824	Rock	0.216	7	34	1.17	222	0.278	<20	1.68	0.100	1.14	0.3	<0.01	3.1	0.4	0.23	8	<0.5
853829	Rock	0.237	8	13	1.60	391	0.309	<20	2.09	0.130	1.53	4.5	<0.01	6.7	0.6	0.47	9	0.9
853975	Rock	0.094	2	20	1.00	238	0.176	<20	2.37	0.185	0.74	0.2	<0.01	2.5	0.2	0.87	6	0.8
853976	Rock	0.111	3	145	2.23	421	0.163	<20	3.42	0.221	0.74	0.2	<0.01	4.0	0.2	0.32	8	0.9
853977	Rock	0.094	4	104	1.00	68	0.170	24	1.54	0.103	0.38	0.2	<0.01	2.6	<0.1	0.97	4	1.0
853978	Rock	0.103	4	106	1.01	80	0.174	<20	1.99	0.186	0.48	0.2	<0.01	3.1	0.1	0.79	5	1.0
853979	Rock	0.099	3	131	1.25	130	0.191	<20	2.50	0.216	0.79	0.2	<0.01	2.8	0.2	0.88	6	0.6
853980	Rock	0.102	4	138	1.37	207	0.229	<20	2.94	0.251	0.89	0.2	<0.01	3.5	0.2	1.02	7	<0.5
853981	Rock	0.089	4	172	1.54	301	0.200	<20	2.64	0.182	0.91	0.1	<0.01	3.6	0.2	0.59	6	0.6
853982	Rock	0.091	4	179	1.56	277	0.209	<20	3.19	0.294	0.91	0.2	<0.01	4.0	0.2	0.51	7	<0.5
853983	Rock	0.087	4	143	1.49	224	0.189	<20	2.55	0.198	0.85	0.1	<0.01	3.4	0.2	0.11	6	<0.5
853984	Rock	0.096	3	147	1.43	272	0.184	<20	2.66	0.255	0.83	<0.1	<0.01	3.7	0.1	0.31	6	0.6

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Project: Hen
 Report Date: October 15, 2009

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CERTIFICATE OF ANALYSIS

VAN09004533.1

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	
853985	Rock	5.45	1.5	291.0	396.9	1408	1.1	75.1	35.3	817	4.42	233.4	0.3	1.6	1.2	84	8.2	0.5	0.2	81	1.31
853986	Rock	5.68	1.4	157.5	109.3	521	0.6	95.8	35.1	814	3.64	41.1	0.4	<0.5	1.3	129	2.1	0.2	0.1	85	1.82
853987	Rock	5.36	1.2	114.4	144.5	622	0.4	111.9	35.1	769	3.30	36.7	0.3	<0.5	1.1	113	2.9	0.3	<0.1	75	1.73
853988	Rock	7.06	1.0	125.4	35.0	349	0.2	69.9	27.4	825	4.02	22.9	0.4	<0.5	1.2	120	1.1	0.2	0.2	91	1.93
853989	Rock	7.60	2.1	209.9	4.1	42	0.1	87.4	31.7	322	3.09	5.4	0.3	2.1	0.9	86	0.1	0.1	0.1	59	1.44
853990	Rock	6.99	1.7	124.3	2.7	79	<0.1	89.5	28.4	342	2.83	10.3	0.4	1.1	1.1	84	0.5	0.1	<0.1	68	1.63
853991	Rock	5.28	0.7	147.8	2.4	53	<0.1	77.8	27.7	354	3.02	12.3	0.3	1.7	1.0	105	0.2	<0.1	<0.1	71	1.75
853992	Rock	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.
T-11-1	Rock	1.59	2.1	442.7	178.6	631	1.2	108.6	57.3	600	3.92	39.9	0.3	4.3	0.9	74	3.4	0.3	<0.1	54	1.48
T-19-1	Rock	1.10	0.8	166.8	1.4	17	0.1	8.4	24.8	202	2.11	5.2	0.3	5.4	0.5	37	<0.1	0.3	0.2	65	1.66
T-21-1	Rock	1.24	5.0	74.5	3.6	24	<0.1	18.2	14.3	282	1.62	27.9	0.3	4.4	0.3	188	0.1	0.7	0.2	41	3.27
T-21-2	Rock	0.97	1.0	83.5	1.2	37	<0.1	12.9	14.1	362	2.89	10.0	0.5	1.2	0.7	41	<0.1	0.4	0.2	77	1.03
T-22-1	Rock	0.99	0.9	180.2	1.6	23	0.2	13.1	17.8	271	2.02	2.8	0.5	1.9	0.6	57	<0.1	0.3	0.5	63	1.65
T-13-1	Rock		1.0	207.6	4.4	32	0.8	9.1	18.7	279	1.46	243.8	0.5	21.5	2.1	44	0.4	7.3	<0.1	130	0.57



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Project: Hen
 Report Date: October 15, 2009

Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN09004533.1

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	
853985	Rock	0.100	4	167	1.59	275	0.177	<20	2.60	0.153	0.71	0.1	0.03	3.4	0.2	0.32	6	0.9
853986	Rock	0.091	4	160	1.55	312	0.217	<20	2.98	0.244	0.86	0.2	<0.01	3.9	0.2	0.27	7	<0.5
853987	Rock	0.094	3	160	1.44	266	0.179	<20	3.03	0.211	0.89	0.2	<0.01	2.7	0.2	0.23	6	<0.5
853988	Rock	0.136	5	159	1.95	253	0.179	<20	3.21	0.223	0.59	0.1	<0.01	4.1	0.1	0.15	7	<0.5
853989	Rock	0.095	3	100	1.09	130	0.130	<20	2.09	0.176	0.47	0.1	<0.01	3.5	0.1	0.67	5	<0.5
853990	Rock	0.087	4	106	1.26	154	0.148	<20	2.18	0.198	0.41	0.1	<0.01	4.4	<0.1	0.39	5	<0.5
853991	Rock	0.105	4	98	1.18	185	0.148	<20	2.29	0.198	0.56	0.1	<0.01	4.0	0.1	0.47	5	<0.5
853992	Rock	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.
T-11-1	Rock	0.079	3	109	1.00	129	0.135	<20	2.13	0.137	0.43	0.2	<0.01	3.0	0.1	0.87	5	0.8
T-19-1	Rock	0.073	2	4	0.39	57	0.087	<20	1.65	0.098	0.15	2.9	<0.01	3.8	<0.1	0.33	6	<0.5
T-21-1	Rock	0.120	4	14	0.35	65	0.067	<20	3.05	0.212	0.12	0.4	<0.01	2.0	<0.1	0.33	6	1.0
T-21-2	Rock	0.200	5	14	0.75	305	0.214	<20	1.56	0.148	0.58	0.4	<0.01	3.0	0.1	0.17	4	<0.5
T-22-1	Rock	0.137	4	10	0.45	60	0.096	<20	1.55	0.240	0.14	7.9	<0.01	3.9	<0.1	0.40	4	<0.5
T-13-1	Rock	0.124	8	16	0.43	124	0.139	<20	0.80	0.129	0.40	4.6	0.78	2.5	0.1	0.10	4	<0.5



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Project: Hen

Report Date: October 15, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN09004533.1

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	0.1	2	0.01
Pulp Duplicates																					
853978	Rock	6.66	0.5	422.8	5.8	39	0.3	97.0	32.0	387	3.46	51.7	0.4	1.6	1.0	90	0.2	0.2	<0.1	74	1.52
REP 853978	QC		0.6	424.7	6.0	40	0.3	96.2	32.6	387	3.48	52.0	0.4	1.4	0.9	90	0.3	0.2	<0.1	74	1.53
Reference Materials																					
STD DS7	Standard		20.4	106.3	74.3	387	0.9	54.3	9.1	605	2.44	48.8	5.1	315.5	4.7	77	6.0	4.3	4.7	79	0.96
STD DS7	Standard		21.2	115.6	83.3	428	1.0	61.1	10.0	645	2.53	56.9	5.3	60.7	5.0	80	6.8	4.7	5.3	82	0.97
STD OREAS45PA	Standard		0.9	597.6	20.7	111	0.3	294.0	108.7	1114	15.99	4.2	1.2	41.3	7.0	15	<0.1	0.1	0.2	227	0.23
STD OREAS45PA	Standard		1.0	590.4	18.3	121	0.3	289.8	109.2	1116	16.32	4.2	1.1	44.4	6.5	16	<0.1	0.1	0.2	216	0.22
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411
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	0.1	2.9	4.0	46	<0.1	2.8	4.3	582	1.92	<0.5	3.3	4.5	6.6	65	<0.1	<0.1	<0.1	37	0.52
G1	Prep Blank	<0.01	0.2	3.2	4.0	47	<0.1	3.1	4.6	591	2.01	<0.5	2.2	<0.5	6.4	64	<0.1	<0.1	<0.1	39	0.57



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Project: Hen

Report Date: October 15, 2009

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN09004533.1

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	0.05	1	0.5		
Pulp Duplicates																			
853978	Rock	0.103	4	106	1.01	80	0.174	<20	1.99	0.186	0.48	0.2	<0.01	3.1	0.1	0.79	5	1.0	
REP 853978	QC	0.106	4	105	1.04	83	0.171	<20	2.04	0.187	0.48	0.2	<0.01	3.2	0.1	0.79	5	1.0	
Reference Materials																			
STD DS7	Standard	0.075	13	209	1.03	404	0.122	39	1.04	0.097	0.44	3.0	0.19	2.1	4.0	0.19	4	3.6	
STD DS7	Standard	0.075	14	205	1.06	469	0.123	42	1.05	0.100	0.50	4.0	0.22	2.7	4.5	0.19	5	3.3	
STD OREAS45PA	Standard	0.033	16	782	0.10	190	0.128	<20	3.35	0.005	0.07	<0.1	0.02	38.7	<0.1	<0.05	15	0.5	
STD OREAS45PA	Standard	0.037	15	744	0.11	188	0.127	<20	3.42	0.005	0.07	<0.1	<0.01	40.3	<0.1	<0.05	17	<0.5	
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54	
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	0.080	13	11	0.54	178	0.139	<20	0.94	0.085	0.50	<0.1	<0.01	1.8	0.3	<0.05	5	<0.5	
G1	Prep Blank	0.084	13	14	0.56	175	0.145	<20	0.96	0.089	0.51	<0.1	<0.01	1.9	0.3	<0.05	5	<0.5	



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Submitted By: David Blann
Receiving Lab: Canada-Vancouver
Received: November 13, 2009
Report Date: November 26, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09005624.1

CLIENT JOB INFORMATION

Project: Hen
Shipment ID:
P.O. Number
Number of Samples: 88

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	87	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	87	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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:



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.



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Project: Hen
 Report Date: November 26, 2009

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN09005624.1

Method	Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
322635	Rock	2.19	2.9	123.6	5.7	50	<0.1	24.1	17.7	344	3.55	13.0	0.6	1.8	0.9	60	0.1	0.7	0.2	137	0.83
322636	Rock	3.25	1.4	72.5	2.1	48	<0.1	10.6	16.3	465	3.71	14.1	0.3	<0.5	0.6	47	<0.1	0.6	0.1	142	0.69
322637	Rock	3.67	5.0	144.4	2.8	32	0.1	20.5	22.1	400	3.81	10.2	0.6	2.6	0.7	65	<0.1	0.6	0.2	78	2.01
322638	Rock	3.70	2.4	101.4	3.7	37	<0.1	42.8	21.1	376	3.40	11.5	0.6	2.2	0.8	124	<0.1	0.6	<0.1	103	1.29
322639	Rock	2.45	1.8	50.3	0.7	44	<0.1	4.6	13.6	449	3.76	2.2	0.3	1.1	0.5	44	<0.1	0.3	<0.1	143	0.57
322640	Rock	3.19	0.4	67.7	3.3	49	0.1	12.3	14.7	829	3.39	166.6	0.3	2.3	0.4	40	<0.1	0.6	0.2	116	0.95
322641	Rock	3.80	2.4	85.8	3.1	53	<0.1	16.1	21.4	780	4.20	85.2	0.3	1.2	0.5	37	<0.1	0.9	0.3	151	0.61
322642	Rock	4.32	0.9	98.8	3.3	66	<0.1	14.5	20.2	806	4.11	82.2	0.3	1.6	0.5	22	<0.1	0.9	0.2	170	0.45
322643	Rock	4.75	1.1	79.6	3.8	40	<0.1	27.9	16.2	420	3.21	19.2	0.5	5.8	0.7	56	<0.1	0.8	4.9	131	0.95
322644	Rock	2.96	0.5	75.1	1.3	36	<0.1	13.6	13.6	386	2.87	6.0	0.4	0.7	0.6	34	<0.1	0.5	0.2	126	0.76
322645	Rock	4.21	0.8	103.0	1.5	36	<0.1	36.6	18.1	463	3.13	12.4	0.5	9.4	0.7	34	<0.1	1.0	0.5	116	0.99
322646	Rock	3.72	0.4	96.2	1.8	37	<0.1	122.1	28.8	584	3.55	32.3	0.6	4.6	0.9	56	<0.1	2.7	0.2	73	1.36
322647	Rock	3.72	0.4	112.1	1.0	43	<0.1	11.2	14.5	451	3.22	1.1	0.4	2.2	0.6	36	<0.1	0.2	0.4	177	0.71
322648	Rock	5.85	0.4	117.4	1.2	42	<0.1	14.9	15.7	603	3.29	2.3	0.5	4.3	0.6	52	<0.1	0.4	0.3	183	1.38
322649	Rock	4.19	0.9	103.0	0.9	30	0.1	9.1	11.9	428	2.41	1.5	0.5	4.7	0.7	32	<0.1	0.3	0.5	107	1.22
322650	Rock	3.78	1.5	89.7	0.9	35	<0.1	12.2	14.3	443	2.81	1.6	0.5	1.5	0.8	34	<0.1	0.3	0.1	125	0.88
853819	Rock	6.61	3.8	132.2	19.5	212	0.7	27.6	27.8	500	3.31	264.2	0.6	12.3	1.5	175	2.5	7.1	0.6	148	0.92
853820	Rock	7.54	1.1	107.4	3.9	75	0.2	24.2	22.0	572	3.86	738.2	0.5	43.1	1.7	54	0.3	5.0	0.1	169	0.82
853821	Rock	5.67	0.8	88.1	2.9	56	0.2	15.4	15.3	588	3.50	285.6	0.4	8.2	1.5	41	0.2	3.5	<0.1	156	0.83
853822	Rock	7.03	0.7	104.9	2.0	49	0.2	19.3	15.3	560	3.98	182.1	0.4	8.0	1.5	44	0.2	3.0	<0.1	168	0.87
853823	Rock	4.09	0.6	74.8	2.4	43	0.2	28.0	31.4	505	3.31	96.5	0.5	7.9	1.8	51	0.1	3.6	0.1	172	0.82
853830	Rock	3.30	0.2	152.4	2.3	70	0.2	17.2	17.0	778	5.07	220.8	0.5	11.6	1.9	36	0.2	5.6	<0.1	264	0.96
853831	Rock	3.31	0.4	155.3	2.5	78	0.2	17.6	19.4	827	7.07	186.2	0.5	11.7	1.5	30	0.1	4.9	0.1	305	0.99
853832	Rock	5.07	2.1	108.3	2.6	39	0.1	44.4	19.8	312	3.10	48.8	0.8	4.1	1.5	23	0.1	4.0	0.1	90	0.78
853833	Rock	4.97	0.7	83.4	1.3	42	0.1	23.5	15.3	342	2.82	11.4	0.7	3.3	1.4	23	<0.1	0.6	<0.1	121	0.48
853834	Rock	4.98	0.4	65.1	2.3	34	<0.1	49.7	18.3	301	2.56	17.3	0.7	1.7	1.9	36	<0.1	0.8	<0.1	111	0.90
853835	Rock	3.85	0.4	89.6	1.4	38	<0.1	90.4	17.4	336	2.83	4.2	0.6	1.6	0.9	37	<0.1	0.3	<0.1	126	0.90
853836	Rock	3.59	1.4	119.2	1.1	47	<0.1	19.7	21.4	353	3.63	5.1	0.6	0.8	0.8	41	<0.1	0.3	<0.1	154	0.82
853837	Rock	3.73	0.8	83.3	0.8	52	<0.1	13.8	22.0	441	4.20	5.4	0.3	1.2	0.4	41	<0.1	0.2	<0.1	209	0.70
853838	Rock	5.73	0.8	107.8	1.2	49	<0.1	24.5	19.2	491	3.76	9.5	0.4	2.9	0.7	44	<0.1	0.4	0.4	171	0.86



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Project: Hen
 Report Date: November 26, 2009

Page: 2 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN09005624.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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	0.05	1	0.5	
322635	Rock	0.120	4	46	1.02	351	0.233	3	1.85	0.136	0.72	0.3	<0.01	3.1	0.1	0.35	5	1.0
322636	Rock	0.094	2	14	1.08	360	0.254	2	1.98	0.128	0.77	0.2	<0.01	3.9	0.1	0.16	5	<0.5
322637	Rock	0.132	5	25	0.71	143	0.139	5	1.93	0.160	0.37	0.2	<0.01	2.7	<0.1	1.13	5	1.0
322638	Rock	0.123	4	47	1.24	397	0.180	5	2.24	0.176	0.64	0.2	<0.01	3.4	<0.1	0.40	5	0.7
322639	Rock	0.096	2	6	1.09	720	0.275	2	1.93	0.142	0.99	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5
322640	Rock	0.089	3	13	1.11	326	0.150	4	2.28	0.118	0.46	0.1	<0.01	4.6	<0.1	0.05	6	<0.5
322641	Rock	0.097	3	28	1.31	511	0.226	2	2.11	0.097	0.85	0.1	<0.01	5.8	0.1	0.21	6	0.6
322642	Rock	0.084	3	32	1.32	464	0.225	2	2.04	0.068	0.78	0.1	<0.01	7.2	0.1	0.07	6	1.1
322643	Rock	0.131	4	58	1.24	380	0.223	6	1.91	0.157	0.90	0.7	<0.01	4.4	0.1	0.06	5	1.0
322644	Rock	0.101	3	27	1.06	419	0.226	4	1.58	0.161	0.78	<0.1	<0.01	4.5	<0.1	<0.05	5	0.6
322645	Rock	0.113	3	38	1.28	367	0.201	6	1.70	0.154	0.66	3.2	<0.01	4.9	0.1	0.11	6	<0.5
322646	Rock	0.142	4	109	2.13	249	0.129	11	1.92	0.166	0.50	0.7	<0.01	4.5	0.1	0.09	5	<0.5
322647	Rock	0.100	3	14	1.29	449	0.262	2	1.92	0.131	1.13	0.5	<0.01	5.3	0.2	<0.05	6	<0.5
322648	Rock	0.129	3	16	1.38	517	0.235	4	2.61	0.161	0.97	14.3	<0.01	7.4	0.1	<0.05	8	<0.5
322649	Rock	0.121	3	12	0.95	137	0.153	4	1.52	0.224	0.41	10.1	<0.01	6.7	0.1	0.06	4	0.6
322650	Rock	0.126	4	31	1.04	407	0.220	3	1.57	0.137	0.80	1.1	<0.01	4.5	0.2	0.07	5	0.5
853819	Rock	0.173	6	35	1.14	160	0.239	4	1.71	0.117	0.98	1.6	0.04	5.4	0.5	0.51	7	1.6
853820	Rock	0.194	8	37	1.36	337	0.284	2	1.90	0.125	1.22	0.5	0.01	5.1	0.5	0.20	8	1.0
853821	Rock	0.185	7	24	1.15	204	0.257	3	1.69	0.135	1.14	3.0	0.12	6.5	0.4	0.17	7	0.7
853822	Rock	0.189	6	33	1.37	246	0.267	1	1.90	0.088	1.16	0.7	0.03	6.0	0.4	0.08	9	0.5
853823	Rock	0.180	7	44	1.20	272	0.273	1	1.66	0.099	1.03	0.7	0.02	3.8	0.3	0.14	8	0.9
853830	Rock	0.254	7	13	1.70	222	0.320	4	2.42	0.113	1.63	5.5	0.01	9.5	0.5	0.19	11	0.7
853831	Rock	0.258	6	17	1.84	332	0.416	4	2.64	0.092	1.66	6.5	0.02	10.6	0.6	0.42	12	1.1
853832	Rock	0.159	8	47	1.02	162	0.136	2	1.07	0.123	0.39	0.3	<0.01	4.0	<0.1	0.28	4	3.0
853833	Rock	0.121	7	47	1.15	552	0.185	1	1.45	0.097	0.79	0.2	<0.01	3.9	<0.1	0.08	5	1.6
853834	Rock	0.164	10	97	1.29	424	0.231	3	1.62	0.119	0.73	0.2	<0.01	3.8	0.1	<0.05	5	0.8
853835	Rock	0.132	4	138	1.47	730	0.263	3	1.96	0.118	0.94	0.1	<0.01	3.1	0.1	0.06	5	<0.5
853836	Rock	0.118	4	32	1.27	510	0.268	2	1.94	0.124	0.89	0.1	<0.01	4.8	<0.1	0.26	6	<0.5
853837	Rock	0.099	2	26	1.65	908	0.360	2	2.58	0.170	1.44	<0.1	<0.01	5.5	<0.1	0.09	7	0.6
853838	Rock	0.114	3	60	1.49	625	0.285	3	2.31	0.127	1.12	0.2	<0.01	4.8	<0.1	<0.05	6	0.7

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Project: Hen
 Report Date: November 26, 2009

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CERTIFICATE OF ANALYSIS

VAN09005624.1

Method Analyte	Unit	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	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	0.1	2	0.01
853839	Rock	4.46	0.7	74.9	0.7	43	<0.1	6.1	15.5	337	3.27	2.8	0.4	3.6	0.7	36	<0.1	0.3	<0.1	164	0.53
853840	Rock	4.11	0.6	98.4	1.1	41	<0.1	21.6	16.6	356	3.11	5.6	0.6	1.1	0.9	35	<0.1	0.4	<0.1	145	0.64
853841	Rock	4.48	1.1	73.4	1.7	45	<0.1	24.8	16.4	362	3.12	9.9	0.7	3.0	1.4	41	<0.1	0.5	0.1	147	0.71
853842	Rock	2.80	1.1	70.9	1.8	32	<0.1	11.3	11.9	314	2.62	5.0	0.6	11.1	1.0	33	<0.1	0.6	0.6	118	0.70
853843	Rock	2.04	1.1	78.7	2.0	27	0.1	11.1	11.5	220	2.07	7.8	0.5	28.7	0.9	29	<0.1	0.6	1.8	78	1.07
853844	Rock	1.93	2.0	90.5	2.1	20	0.9	17.4	15.4	152	2.22	75.4	0.5	1894	0.9	49	0.1	1.3	0.6	65	1.06
853845	Rock	1.41	2.5	93.6	2.5	24	2.0	25.5	16.1	256	2.29	47.0	0.6	2256	1.1	95	0.2	2.3	0.1	78	1.75
853846	Rock	0.97	0.3	86.4	0.9	55	<0.1	14.9	14.8	463	3.24	3.9	0.7	5.4	1.2	24	<0.1	0.4	<0.1	151	0.48
853847	Rock	1.24	0.2	55.8	1.0	66	<0.1	6.1	12.9	570	3.60	2.3	0.6	6.0	1.0	43	<0.1	0.3	<0.1	142	0.59
853848	Rock	1.50	0.3	71.4	0.9	73	<0.1	8.5	14.8	778	4.00	1.4	0.6	3.4	1.1	38	<0.1	0.3	<0.1	156	0.53
853849	Rock	2.08	0.3	84.9	0.7	58	<0.1	7.4	13.8	511	3.48	1.8	0.7	1.0	1.1	50	<0.1	0.5	<0.1	170	0.57
853850	Rock	1.64	0.1	80.9	1.1	59	<0.1	8.5	14.7	600	3.75	2.1	0.7	1.5	1.1	33	<0.1	0.4	<0.1	154	0.77
853851	Rock	3.32	1.4	119.3	1.8	44	0.1	30.5	17.3	378	3.52	19.0	0.6	24.5	1.2	46	<0.1	1.0	0.4	166	0.81
853852	Rock	3.51	1.7	119.2	3.6	34	0.8	51.7	21.3	386	2.69	85.0	1.2	4205	2.9	73	0.1	2.1	0.9	93	1.84
853853	Rock	4.59	0.3	85.0	1.9	42	0.1	57.0	20.9	386	3.10	24.7	0.8	7.5	1.4	107	<0.1	1.4	<0.1	118	1.01
853854	Rock	2.85	0.2	73.1	1.1	60	<0.1	6.9	12.6	670	3.72	4.1	0.5	2.9	1.0	48	<0.1	0.7	<0.1	136	0.65
853855	Rock	5.13	1.0	151.5	2.2	28	0.2	14.6	16.3	416	2.94	3.1	0.7	5.2	1.1	85	<0.1	0.6	2.6	98	1.67
853856	Rock	3.60	0.8	68.1	1.6	32	<0.1	15.8	10.9	318	2.63	3.0	0.7	0.8	1.8	62	<0.1	0.4	0.1	105	0.85
853857	Rock	4.75	1.1	79.7	1.3	32	<0.1	14.1	12.7	299	2.67	18.0	0.6	1.6	1.7	43	0.1	0.4	<0.1	143	0.80
853858	Rock	3.51	0.3	51.1	0.9	39	<0.1	16.4	15.9	311	3.21	5.9	0.5	1.7	1.0	54	<0.1	0.5	<0.1	203	0.95
853859	Rock	1.99	0.6	38.6	1.5	36	<0.1	12.2	8.9	252	2.17	2.3	0.9	<0.5	3.0	40	<0.1	1.0	<0.1	135	0.69
853860	Rock	3.61	0.2	86.0	1.8	47	<0.1	13.5	15.2	423	3.77	3.7	0.6	1.7	1.4	71	<0.1	0.4	0.2	199	1.13
853861	Rock	3.22	1.0	131.7	2.6	33	<0.1	36.3	17.8	298	2.81	16.7	0.7	0.7	1.1	57	<0.1	0.8	<0.1	110	1.41
853862	Rock	2.96	1.0	99.6	2.2	37	<0.1	19.8	15.2	349	3.31	7.0	0.7	<0.5	1.0	51	<0.1	0.5	0.3	137	0.97
853863	Rock	3.11	0.8	34.1	2.4	23	<0.1	12.5	8.2	169	1.72	6.8	0.8	<0.5	1.9	34	<0.1	0.6	<0.1	77	0.92
853864	Rock	2.75	0.9	83.1	0.9	34	<0.1	12.0	17.4	299	3.16	9.6	0.5	1.1	0.8	36	<0.1	0.8	<0.1	140	0.59
853865	Rock	3.62	0.9	66.4	0.8	34	<0.1	5.7	14.2	315	3.18	3.4	0.4	<0.5	0.7	27	<0.1	0.5	<0.1	152	0.47
853866	Rock	3.68	0.9	75.4	0.8	40	<0.1	6.9	16.5	333	3.25	3.0	0.6	0.9	0.9	28	<0.1	0.4	<0.1	168	0.52
853867	Rock	2.59	0.5	65.8	1.2	34	<0.1	12.8	14.3	354	2.95	2.2	0.4	1.7	0.6	40	<0.1	0.4	0.1	153	0.67
853868	Rock	2.75	0.7	82.1	0.8	34	<0.1	15.2	14.9	303	2.92	2.2	0.5	0.9	0.7	38	<0.1	0.4	<0.1	145	0.55

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Report Date: November 26, 2009

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CERTIFICATE OF ANALYSIS

VAN09005624.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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	0.05	1	0.5	
853839	Rock	0.095	3	6	0.92	442	0.306	<1	1.65	0.111	0.86	0.2	<0.01	4.5	<0.1	0.09	5	<0.5
853840	Rock	0.127	4	48	1.28	682	0.284	2	1.62	0.104	0.98	0.1	<0.01	3.7	<0.1	0.09	5	<0.5
853841	Rock	0.143	6	46	1.19	569	0.319	1	1.70	0.088	0.92	0.2	<0.01	3.9	0.1	<0.05	5	<0.5
853842	Rock	0.116	4	15	0.71	177	0.209	2	1.38	0.085	0.34	0.3	<0.01	3.2	0.1	<0.05	5	<0.5
853843	Rock	0.112	4	9	0.50	93	0.142	2	1.30	0.083	0.21	0.6	<0.01	2.3	<0.1	0.11	4	<0.5
853844	Rock	0.117	5	26	0.34	38	0.116	2	1.40	0.133	0.21	3.2	0.01	2.2	<0.1	0.52	4	<0.5
853845	Rock	0.130	5	45	0.63	155	0.159	3	1.71	0.116	0.46	1.5	0.01	2.6	<0.1	0.49	5	<0.5
853846	Rock	0.131	5	33	1.21	237	0.291	<1	1.49	0.070	1.10	0.2	<0.01	4.7	0.2	<0.05	5	<0.5
853847	Rock	0.121	4	11	0.98	236	0.249	1	1.59	0.087	1.13	0.3	<0.01	2.9	0.2	<0.05	6	<0.5
853848	Rock	0.143	4	16	1.50	459	0.307	2	2.00	0.083	1.63	0.3	<0.01	3.8	0.2	<0.05	7	<0.5
853849	Rock	0.147	4	16	1.44	329	0.315	1	1.97	0.089	1.44	0.2	<0.01	4.2	0.2	<0.05	6	<0.5
853850	Rock	0.155	5	11	1.17	280	0.279	2	1.91	0.085	1.15	0.5	<0.01	2.6	0.2	0.05	6	<0.5
853851	Rock	0.126	5	48	1.09	326	0.318	2	2.10	0.111	0.91	0.3	<0.01	3.9	0.2	0.08	6	<0.5
853852	Rock	0.151	7	75	0.70	134	0.161	2	2.07	0.083	0.32	3.5	0.01	4.1	<0.1	0.16	6	<0.5
853853	Rock	0.150	6	97	1.69	349	0.245	2	2.28	0.141	0.92	0.2	<0.01	4.1	0.2	<0.05	6	<0.5
853854	Rock	0.123	4	11	1.23	301	0.270	1	1.90	0.076	0.97	0.2	<0.01	3.4	0.1	<0.05	6	<0.5
853855	Rock	0.154	6	27	0.63	251	0.157	2	1.73	0.108	0.36	4.6	<0.01	3.7	0.1	0.41	5	<0.5
853856	Rock	0.144	8	38	0.85	421	0.217	1	1.51	0.105	0.63	3.1	<0.01	3.2	0.2	0.05	4	<0.5
853857	Rock	0.122	8	40	0.80	316	0.216	1	1.34	0.112	0.57	0.5	<0.01	4.3	<0.1	<0.05	4	<0.5
853858	Rock	0.122	4	44	1.06	476	0.281	3	1.79	0.111	0.84	0.2	<0.01	4.2	0.1	<0.05	5	<0.5
853859	Rock	0.173	14	32	0.70	471	0.246	1	1.07	0.097	0.53	0.3	<0.01	2.8	0.1	<0.05	4	<0.5
853860	Rock	0.132	6	28	1.03	418	0.265	3	2.00	0.126	0.70	0.2	<0.01	4.0	<0.1	<0.05	6	<0.5
853861	Rock	0.150	5	58	1.01	399	0.232	4	1.87	0.177	0.62	0.1	<0.01	3.8	<0.1	0.20	5	<0.5
853862	Rock	0.139	4	36	1.06	432	0.283	3	1.82	0.122	0.74	0.1	<0.01	3.7	<0.1	0.15	5	<0.5
853863	Rock	0.138	11	28	0.63	310	0.193	3	1.09	0.098	0.33	0.2	<0.01	3.2	<0.1	<0.05	4	<0.5
853864	Rock	0.087	3	21	0.96	516	0.275	2	1.52	0.102	0.74	<0.1	<0.01	5.0	<0.1	0.09	4	<0.5
853865	Rock	0.080	2	6	0.90	555	0.304	1	1.50	0.113	0.86	0.2	0.01	4.1	<0.1	0.06	4	<0.5
853866	Rock	0.088	3	7	0.92	538	0.307	<1	1.44	0.103	0.86	0.1	<0.01	4.2	<0.1	0.12	4	<0.5
853867	Rock	0.100	3	24	1.02	505	0.302	1	1.65	0.112	0.86	0.1	<0.01	3.6	<0.1	<0.05	5	<0.5
853868	Rock	0.100	3	30	0.99	500	0.324	1	1.50	0.115	0.94	0.1	<0.01	3.8	<0.1	0.12	4	<0.5



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Project: Hen
 Report Date: November 26, 2009

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CERTIFICATE OF ANALYSIS

VAN09005624.1

Method	Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
853869	Rock	1.82	0.5	76.1	1.6	39	<0.1	19.2	17.0	379	3.24	6.4	0.6	0.6	1.0	46	<0.1	0.6	0.2	148	1.00
853870	Rock	1.46	0.5	104.5	1.9	39	<0.1	11.4	13.9	334	3.13	5.9	0.5	8.7	0.8	47	<0.1	0.4	1.7	141	0.92
853871	Rock	1.52	0.5	83.8	2.1	36	<0.1	38.7	18.4	386	3.13	12.3	0.6	3.5	1.6	53	<0.1	0.8	<0.1	129	0.98
853872	Rock	1.93	0.8	97.5	1.9	39	<0.1	33.8	17.2	410	3.37	14.1	0.7	6.9	1.9	34	<0.1	0.6	0.3	124	0.71
853873	Rock	1.79	0.5	87.5	1.0	48	<0.1	12.5	17.6	514	4.05	4.2	0.4	0.7	0.6	37	<0.1	0.4	0.1	172	0.52
853874	Rock	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.
853875	Rock	3.18	0.3	113.2	2.8	80	<0.1	16.2	23.1	747	5.12	26.1	0.4	4.6	1.5	76	0.1	3.1	<0.1	194	1.02
853876	Rock	2.16	1.7	120.5	32.6	128	0.2	15.6	23.3	680	4.54	30.7	0.6	5.6	1.9	172	0.5	4.1	<0.1	212	1.27
853877	Rock	1.53	0.8	151.1	142.5	224	0.4	12.7	13.3	502	3.74	42.5	0.7	14.6	2.7	152	0.6	4.2	0.2	189	0.89
853878	Rock	2.18	1.2	119.1	13.9	82	0.5	15.4	32.1	631	4.99	37.8	0.6	2.4	2.3	55	0.2	4.0	0.2	237	0.69
853879	Rock	2.39	0.8	73.5	3.2	57	<0.1	15.7	21.7	556	4.56	22.8	0.5	2.6	1.7	33	<0.1	2.3	<0.1	183	0.63
853880	Rock	2.77	0.9	164.4	4.0	48	0.2	14.0	24.2	602	4.65	41.0	0.6	6.9	2.3	36	0.1	3.3	0.3	220	0.71
853881	Rock	1.13	1.0	115.5	9.1	65	0.3	15.1	19.4	590	4.40	17.0	0.6	4.5	2.2	66	0.3	2.9	0.1	205	0.89
853882	Rock	2.32	0.8	116.1	2.2	53	0.2	21.0	18.0	596	4.79	17.5	0.6	3.9	1.8	60	0.1	4.6	0.1	198	0.84
853883	Rock	3.18	0.7	89.4	2.5	80	0.2	11.1	23.0	463	3.67	38.1	0.8	17.6	2.6	35	0.3	4.0	0.1	172	0.57
853884	Rock	2.01	0.7	101.3	1.9	47	0.2	16.4	21.9	474	3.87	67.8	0.6	6.1	2.0	49	0.2	6.0	<0.1	169	0.85
853885	Rock	2.60	0.4	106.3	1.7	49	0.2	19.8	13.9	515	4.20	36.0	0.6	7.2	1.6	52	<0.1	6.4	<0.1	196	0.90
853886	Rock	2.94	0.1	71.5	1.8	76	<0.1	11.7	14.0	328	3.30	2.3	0.5	<0.5	0.8	30	<0.1	0.5	<0.1	180	0.62
853887	Rock	3.66	0.3	74.3	1.8	81	<0.1	9.7	13.9	423	3.23	3.2	0.6	0.6	1.0	49	<0.1	0.6	<0.1	162	0.72
853888	Rock	3.67	0.8	71.9	1.2	30	<0.1	12.1	12.8	276	2.54	3.7	0.5	0.9	1.0	43	<0.1	0.5	<0.1	125	0.74
853889	Rock	3.63	1.1	91.0	1.1	29	<0.1	14.3	15.4	277	2.76	7.4	0.8	0.5	0.7	65	<0.1	0.5	<0.1	106	0.91
853890	Rock	3.83	0.8	70.3	0.8	31	<0.1	10.1	12.1	251	2.53	7.3	0.6	<0.5	0.9	42	<0.1	0.6	<0.1	103	0.56
853891	Rock	5.34	1.9	75.5	0.6	34	<0.1	5.0	12.5	318	3.13	2.9	0.5	<0.5	0.8	39	<0.1	0.3	<0.1	151	0.71
853892	Rock	4.81	0.6	77.3	0.7	37	<0.1	7.8	14.6	320	3.19	2.1	0.6	1.0	1.2	45	<0.1	0.3	<0.1	138	0.73
853893	Rock	2.85	1.0	77.4	1.2	38	<0.1	14.7	15.2	343	3.30	6.9	0.6	0.5	1.5	50	<0.1	0.7	<0.1	135	0.78
853894	Rock	4.20	1.2	78.2	1.1	46	<0.1	13.7	16.4	419	3.54	5.2	0.7	0.6	1.2	45	<0.1	0.9	<0.1	177	0.57
853895	Rock	4.97	1.3	58.4	1.2	42	<0.1	13.6	12.7	416	3.16	3.8	0.6	1.7	1.2	35	<0.1	0.6	<0.1	157	0.54
853896	Rock	5.69	0.7	116.2	2.0	46	<0.1	20.9	16.9	506	3.56	11.4	0.6	<0.5	1.0	36	<0.1	1.1	<0.1	148	0.83



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Project: Hen
 Report Date: November 26, 2009

Page: 4 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN09005624.1

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	0.01	0.01	0.1	0.1	0.05	1	0.5	
853869	Rock	0.120	4	39	1.20	481	0.287	3	1.95	0.129	0.83	0.1	<0.01	4.4	0.1	<0.05	6	<0.5
853870	Rock	0.115	4	26	0.99	521	0.291	3	1.81	0.119	0.87	<0.1	<0.01	3.2	0.1	0.09	5	<0.5
853871	Rock	0.109	4	57	1.39	477	0.241	1	1.85	0.134	0.82	0.1	<0.01	4.3	0.1	0.07	5	<0.5
853872	Rock	0.124	7	48	1.49	668	0.284	<1	1.81	0.098	0.99	0.1	<0.01	3.2	0.2	0.14	5	<0.5
853873	Rock	0.088	3	26	1.45	842	0.334	<1	2.09	0.105	1.11	0.1	<0.01	4.1	0.2	<0.05	6	<0.5
853874	Rock	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.
853875	Rock	0.211	6	32	1.52	295	0.261	2	2.44	0.075	1.46	0.2	0.01	5.6	0.3	<0.05	8	<0.5
853876	Rock	0.217	7	31	1.38	241	0.284	3	2.31	0.092	1.36	0.3	0.17	5.5	0.3	<0.05	9	<0.5
853877	Rock	0.196	8	17	1.06	220	0.262	3	1.72	0.085	1.09	0.3	0.38	3.7	0.3	<0.05	8	<0.5
853878	Rock	0.209	7	16	1.43	299	0.309	2	1.91	0.071	1.48	0.4	0.04	3.9	0.3	0.10	9	1.6
853879	Rock	0.188	7	25	1.49	295	0.311	3	1.99	0.079	1.48	0.3	0.02	4.2	0.4	<0.05	8	<0.5
853880	Rock	0.213	7	16	1.36	314	0.279	2	1.80	0.054	1.35	0.3	0.02	3.9	0.4	<0.05	8	<0.5
853881	Rock	0.191	7	15	1.27	317	0.242	2	1.87	0.103	1.24	0.3	0.05	3.5	0.3	0.09	9	<0.5
853882	Rock	0.194	7	32	1.54	351	0.330	2	2.27	0.087	1.54	0.4	0.01	4.5	0.3	0.10	10	0.7
853883	Rock	0.179	8	18	1.20	192	0.268	1	1.65	0.081	1.31	0.3	<0.01	4.1	0.4	0.09	8	<0.5
853884	Rock	0.188	7	20	1.26	320	0.256	2	1.73	0.098	1.19	0.5	<0.01	4.7	0.4	0.20	7	0.5
853885	Rock	0.191	6	24	1.33	356	0.312	3	1.97	0.101	1.32	0.3	<0.01	5.0	0.4	0.15	8	<0.5
853886	Rock	0.125	4	30	0.94	262	0.270	1	1.55	0.100	0.92	0.2	<0.01	3.1	<0.1	<0.05	5	<0.5
853887	Rock	0.143	4	22	0.91	259	0.281	1	1.63	0.120	0.92	0.1	<0.01	2.9	0.1	<0.05	5	<0.5
853888	Rock	0.111	4	30	0.82	376	0.257	1	1.37	0.101	0.71	0.2	<0.01	3.7	<0.1	<0.05	4	<0.5
853889	Rock	0.101	4	22	0.72	324	0.201	2	1.53	0.122	0.56	0.1	<0.01	3.7	<0.1	0.29	4	<0.5
853890	Rock	0.110	4	27	0.62	281	0.209	1	1.17	0.100	0.55	0.1	<0.01	2.6	<0.1	0.22	4	<0.5
853891	Rock	0.086	3	9	0.82	409	0.230	3	1.52	0.152	0.67	0.1	<0.01	3.7	<0.1	<0.05	5	<0.5
853892	Rock	0.094	4	11	0.89	534	0.249	1	1.64	0.116	0.79	0.6	<0.01	3.5	<0.1	0.10	5	<0.5
853893	Rock	0.108	4	32	1.10	516	0.276	3	1.79	0.147	0.86	0.1	<0.01	3.6	0.1	0.12	5	<0.5
853894	Rock	0.116	5	38	1.31	630	0.344	1	1.92	0.129	1.31	0.1	<0.01	4.2	0.2	<0.05	5	<0.5
853895	Rock	0.119	5	31	1.17	503	0.297	2	1.60	0.097	0.98	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5
853896	Rock	0.124	4	42	1.34	402	0.265	2	1.94	0.114	0.85	0.2	<0.01	4.8	0.1	<0.05	6	<0.5



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Report Date: November 26, 2009

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN09005624.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
322637	Rock	3.67	5.0	144.4	2.8	32	0.1	20.5	22.1	400	3.81	10.2	0.6	2.6	0.7	65	<0.1	0.6	0.2	78	2.01
REP 322637	QC		5.6	142.9	2.8	33	0.1	20.6	22.3	393	3.74	11.0	0.6	4.1	0.7	66	<0.1	0.6	0.2	75	1.93
853855	Rock	5.13	1.0	151.5	2.2	28	0.2	14.6	16.3	416	2.94	3.1	0.7	5.2	1.1	85	<0.1	0.6	2.6	98	1.67
REP 853855	QC		1.3	154.8	2.3	31	0.2	15.7	16.3	422	3.04	3.1	0.7	7.6	1.1	85	<0.1	0.6	2.6	100	1.71
Reference Materials																					
STD DS7	Standard		19.2	108.6	73.8	400	0.9	56.2	9.0	595	2.32	52.2	5.2	65.1	4.8	74	6.6	6.7	5.3	81	0.97
STD DS7	Standard		19.8	105.5	70.8	387	0.8	54.9	8.6	582	2.26	51.0	5.3	115.6	4.7	78	6.6	6.7	5.0	79	0.97
STD DS7	Standard		19.8	108.3	66.1	401	0.8	56.5	8.7	572	2.22	48.6	4.3	70.6	4.1	63	6.1	5.7	4.5	79	0.94
STD DS7	Standard		22.1	113.2	65.3	402	0.8	59.6	9.7	613	2.30	50.7	4.4	60.3	4.1	70	6.1	5.9	4.6	82	1.01
STD DS7	Standard		22.1	106.3	70.0	397	0.8	56.8	9.1	598	2.29	50.6	4.9	58.6	4.9	82	5.9	6.4	4.8	81	1.00
STD DS7	Standard		22.0	105.7	66.9	393	0.8	57.0	9.0	602	2.28	52.2	4.9	64.2	4.7	88	6.5	6.4	4.7	81	1.01
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	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	<0.1	1.8	6.0	48	<0.1	3.4	4.6	543	1.82	<0.5	1.4	<0.5	3.1	53	<0.1	<0.1	<0.1	37	0.53
G1	Prep Blank	<0.01	<0.1	2.1	2.1	44	<0.1	3.8	4.2	531	1.95	<0.5	1.5	<0.5	3.4	51	<0.1	<0.1	<0.1	39	0.53



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Report Date: November 26, 2009

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QUALITY CONTROL REPORT

VAN09005624.1

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																		
322637	Rock	0.132	5	25	0.71	143	0.139	5	1.93	0.160	0.37	0.2	<0.01	2.7	<0.1	1.13	5	1.0
REP 322637	QC	0.126	5	24	0.71	126	0.131	4	1.87	0.149	0.37	0.2	<0.01	2.8	0.1	1.11	5	0.9
853855	Rock	0.154	6	27	0.63	251	0.157	2	1.73	0.108	0.36	4.6	<0.01	3.7	0.1	0.41	5	<0.5
REP 853855	QC	0.166	6	27	0.66	272	0.158	4	1.76	0.113	0.37	4.7	<0.01	3.5	0.1	0.42	5	<0.5
Reference Materials																		
STD DS7	Standard	0.086	12	185	1.00	391	0.121	42	0.96	0.090	0.40	3.8	0.19	2.3	4.1	0.20	4	3.3
STD DS7	Standard	0.083	13	187	1.00	375	0.128	42	0.99	0.093	0.40	3.7	0.20	2.4	4.0	0.19	4	2.9
STD DS7	Standard	0.072	12	186	0.97	357	0.110	43	0.93	0.091	0.39	4.0	0.20	2.3	4.0	0.19	4	3.6
STD DS7	Standard	0.078	13	206	1.00	385	0.122	38	1.01	0.097	0.41	3.9	0.18	2.4	4.0	0.20	5	3.6
STD DS7	Standard	0.076	14	196	0.99	383	0.130	40	1.01	0.096	0.42	3.8	0.20	2.3	3.8	0.20	5	3.2
STD DS7	Standard	0.076	15	199	1.00	388	0.138	39	1.04	0.098	0.41	3.7	0.20	2.4	3.9	0.20	5	3.9
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
Prep Wash																		
G1	Prep Blank	0.080	6	9	0.60	254	0.137	2	0.98	0.073	0.53	<0.1	<0.01	2.1	0.4	<0.05	5	<0.5
G1	Prep Blank	0.083	7	11	0.60	230	0.134	<1	0.97	0.071	0.53	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5

**A GEOCHEMICAL REPORT
ON THE
GOLDEN LEDGE PROPERTY
(FORMERLY KNOWN AS THE “ART-DL” PROPERTY)
CARIBOO AND CLINTON MINING DIVISIONS
BRITISH COLUMBIA
BCGS MAPSHEETS: 092P.097, 093A.006 & 093A.007
52° 01' 04" N
120° 36' 30" W**

PREPARED FOR
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Figure 4. Golden Ledge Soil Geochemical Results - Gold (Au) Appendix A

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Figure 6. Golden Ledge Soil Geochemical Results - Copper (Cu) Appendix A

Figure 7. Golden Ledge Soil Geochemical Results - Arsenic (As) Appendix A

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1. SUMMARY

The Golden Ledge property is located approximately 75 km northeast of 100 Mile House in the south-central Cariboo region of British Columbia. The property is comprised of 8 contiguous MTO cell claims that cover 3024.03 ha of land in the Cariboo and Clinton Mining Divisions. Access to the property is provided by paved and well-maintained gravel roads.

The property is underlain by volcanic and sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. A north-trending and west-dipping thrust fault divides an upper volcanic-dominated sequence in the west half of the property from a metasedimentary sequence in the east half of the property.

Two known gold prospects, the Art and DL, have been the target of several phases of exploration. The DL prospect includes an historic 12 metre adit (results from that work are not available) and several narrow trenches that were excavated to assess a number of quartz-sulphide veins hosted by a sequence of phyllitic metasedimentary rocks. Sampling of quartz pyrite vein material at the adit in 1992 produced encouraging results including a 1.0 metre chip sample that averaged 42.9 g/t Au (Ridley, 1992). The Art prospect, discovered in 1997, is comprised of mineralized shears hosted in rhyodacite (Adamec, 1999). In 2001, three diamond drill holes were drilled in the vicinity of the Art prospect and three diamond drill holes were drilled in the vicinity of the DL prospect.

Soil geochemistry work was completed in 2009, 169 "C" horizon samples were taken and sent to the laboratory for analysis.

Recently Spanish Mountain Gold has discovered and drilled a number of Gold – Silver veins south of the Golden Ledge Property.

2. INTRODUCTION AND TERMS OF REFERENCE

This report has been prepared in order to satisfy assessment requirements. It discusses the 2009 Soil Geochemical sampling program carried out on the Golden Ledge Property.

The information for the accompanying report was obtained from sources cited under references and from field work conducted during the 2009 work program. The registered owner of the Golden Ledge property is Happy Creek Minerals Ltd.

3. PROPERTY DESCRIPTION AND LOCATION

3.1 Access and Infrastructure

The Golden Ledge property is located approximately 75 km northeast of the town of 100 Mile House and approximately 80 km southeast of Williams Lake in the south Cariboo region of central British Columbia (Figure 1). Access to the property is provided by paved and well-maintained gravel roads. Access from 100 Mile House is via the Canim-Hendrix road, which leaves Highway 97 two km north of the town centre, and heads northeast for 50 km to service the small communities of Forest Grove and Eagle Creek. At the Eagle Creek bridge the pavement ends and the Hendrix Lake (6000) gravel road continues in a northeasterly direction for 16 km to its junction with the 7000 road. The 7000 road is followed for 6 km to its junction with the Art Creek road. The Art

area is accessible from about the 5 km marker on the north trending Art Creek road. The DL area is accessible via the Deception Creek road which departs the 7000 road at the 11 km marker. The driveable portion of the Deception Creek road ends at about the 6 km marker where it has been washed out by Ledge Creek. The DL adit is located on the north side of the creek, approximately 150 m west of the washout.

3.2 Mineral Tenure Information

The Golden Ledge property is comprised of 8 contiguous MTO cell claims that cover 3024.03 ha of land in the Cariboo and Clinton mining divisions (Figure 2). The property is located between latitudes 52°03'14"N and 51°58'59"N and longitudes 120°39'05"W and 120°33'49"W and covers parts of map sheets 093A and 092P. The approximate centre of the claim block is located at latitude 52°01'04"N and longitude 120°36'30"W. All of the individual tenures are 100%-owned by Happy Creek Minerals Ltd (Table 1).

Table 1: List of Mineral Tenures (as of Feb 3, 2010)

Tenure #	Claim Name	NTS Map	Good To Date	Area (ha)
507151	Art 8	093A	2012/dec/31	497.1
510705	LEDGE 2	093A	2012/dec/31	497.31
518932		093A	2014/dec/31	815.68
526703	LEDGE EAST	093A	2012/dec/31	497.27
526708		093P	2012/dec/31	79.645
532108	LEDGE	093A	2012/dec/31	79.599
533315	NEW ART	093P	2012/dec/31	159.32
596446*		093P	2011/dec/31	398.11
TOTAL				3024.03

*acquired Dec 21, '09 – All are mineral claims – All are owned 100% by Happy Creek Minerals Ltd.

3.3 Physiography and Climate

The Golden Ledge property is located within the Interior Wet Belt biogeoclimatic zone of the Quesnel Highlands physiographic region. Elevations range from 1000 m asl in the east to 1300 m asl in the west. The property borders Deception Creek Valley in the east and straddles Ledge Creek canyon to the north and south.

Part of the claim group has been logged, but most is covered by a mixture of mature and juvenile stands of lodgepole pine, douglas fir, paper birch and aspen; and small areas of western red cedar and white spruce. The 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.

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. Mineral exploration may

be conducted from mid-April to early December, although winter drilling is possible with a suitable water source.

4. HISTORY

Exploration in the project area dates back to as early as 1886 with the discovery of goldbearing veins above Ledge Creek. Shortly thereafter, a 12 m long adit and several blasted trenches were excavated to further evaluate the discovery; this work extended to 1903. No further work is documented until 1987 when E. Scholtes staked 2 claims to cover the old workings. The claims lapsed in 1990 and were staked by David Ridley. The claims were optioned by Ridley to several junior exploration companies through the 1990s and early 2000s who conducted a range of activities including geological mapping, geochemical and geophysical survey, and diamond drilling. A summary of previous work is listed in Table 2.

Table 2: Summary of Previous Work

Year	Exploration Activities (summarized from Blann et al., 2006)
1886 – 1903	Auriferous quartz veins discovered on Ledge Creek and 12 m adit plus several trenches are excavated. Last known report refers to prospectors coming out of Hendrix Lake region with minor amounts of gold.
1987	E. Scholtes stakes 2 claims to cover the old adit workings and conducts a small work program, but claims are later allowed to lapse.
1990	D. Ridley picks up lapsed claims and stakes additional tenures to include part of Ledge Creek canyon.
1993	Pioneer Metals Corporation options DL claims from Ridley and conducts detailed geological mapping and rock sampling in the vicinity of the adit.
1995	Pioneer drops the DL option and the claims revert back to Ridley.
1997	Ridley extends the claims to include mineralized rhyodacite outcrop exposed alongside new logging road approximately 2 km west-southwest of DL adit called the Art showing.
1998	Mandalay Resources options the property and conducts a program consisting of geological mapping, soil and rock sampling, and geophysical surveys. Several anomalous zones are identified.
2001	Mandalay drills 6 NQ core holes totalling 481.52 m, but doesn't complete core logging or assay work. The core is sampled by Ridley and D. Blann and one hole returns anomalous gold-arsenic values.
2005	Happy Creek Minerals Ltd establish 6 line-km of grid and collect 182 soil samples. Fifty three (53) rock samples and 3 reconnaissance soil samples are also collected.
2008	Happy Creek Minerals Ltd. re-logged and sampled core from three holes of a six-hole program completed in 2001 by Mandalay Resources. It also conducted property-scale bedrock mapping over the central portion of the property to cover both the upper plate and lower plate rocks. Happy Creek also conducted a rock, silt and soil geochemical sampling and prospecting program.

5. GEOLOGICAL SETTING

5.1 Regional Setting

The Golden Ledge property is located along the eastern margin of the Quesnel Terrane, a fault bounded component of the Intermontane Tectonic Belt. The linear, northwest trending Quesnel Terrane is comprised of Mesozoic volcanic and sedimentary rocks that are intruded by Triassic to Cretaceous granitic rocks. Quesnel Terrane is bounded on the west by Paleozoic rocks of the Cache Creek Terrane and on the west by Paleozoic rocks of the Slide Mountain Terrane and Barkerville Terrane (Figure 3). The Eureka thrust, a northwest-trending, southwest-dipping arcuate structure that regionally places Triassic-Jurassic rocks of the Quesnel Terrane on Paleozoic rocks of the Barkerville Terrane (Figure 3) occurs just east of the property.

Quesnel Terrane in the Golden Ledge property area is dominated by metasedimentary, volcanic and volcanoclastic rocks of the Middle Triassic to Middle Jurassic Nicola Group, as well as stocks, dykes and sills of monzonite, diorite and syenite composition that are coeval with the development of the Nicola Group. A basal unit of the Quesnel Terrane informally referred to as the 'basal black clastic' succession (Panteleyev et al., 1996), consists of phyllitic argillite with minor siltstone and fine-grained sandstone interbeds. The basal unit is separated from the overlying volcanic-dominated succession by a fault that is believed to be a west-dipping thrust that may be sympathetic with the regional Eureka thrust that is located further east.

The Late Triassic to Early Jurassic Takomkane batholith, a large intrusive body dominated by granodiorite, lies to the west of the property. Cretaceous granitic stocks occur in close proximity to the west and to the east boundary of the claim group.

Overlap Assemblage rocks consist of Eocene volcanic and sedimentary rocks, as well as Quaternary basalt (Schiarizza et al., 2006).

5.2 Property Geology

The Golden Ledge property is underlain primarily by volcanic and weakly metamorphosed clastic sedimentary rocks of the Upper Triassic to Lower Jurassic Nicola Group. A north-trending arcuate fault, mapped regionally as a west-dipping thrust, divides the Golden Ledge property roughly in half. The volcanic-dominated package of the upper plate lies west of the fault and clastic sedimentary rock package of the lower plate lies east of the fault.

The volcanic-dominated package is composed primarily of a crudely to well-bedded sequence of intermediate flows, tuffs and volcanic conglomerates and/or breccias with lesser argillite, siltstone and limestone. The volcanic sequence typically strikes northwest and dips moderately to steeply to the southwest. The weakly metamorphosed clastic sedimentary package is composed primarily of 'knotty' phyllitic argillite or 'knotty phyllite'. The phyllite is characteristically dark grey to black and includes thin beds of siltstone and/or fine-grained sandstone. The finer-grained units are characterized by a well-developed planar slaty to phyllitic foliation that is observed regionally.

Intrusive rocks are not well-represented on the property, but narrow dykes and/or sills occur at or near both known showings (Art and DL). Felsic to intermediate dykes

crop out in Ledge Creek just upstream of the DL adit, and a quartz diorite to diorite plug(?) is exposed near the Art showing.

5.3 Mineralization and Alteration

The Golden Ledge property is host to two known gold prospects, namely Art and DL.

The DL adit / showing (Minfile: 093A.089) is located in the eastern part of the property approximately 500 metres west of the confluence of Deception and Ledge creeks. It lies east of the Eureka thrust fault and west of the contact between the basal black clastic assemblage and the structurally overlying volcanic-dominated sequence. It is underlain predominantly by black slaty to phyllitic argillite that is interbedded with thin layers of grey siltstone and fine-grained sandstone. The rocks are tightly to isoclinally folded along a northwesterly trend with 30-85° east-dipping foliation that is particularly penetrative in the argillaceous rocks. Structural thickening occurs near fold hinges, and hinge zones are commonly broken and are host to massive, milky white to clear quartz veins that are between 0.5 and 2 m in width. Ledge Creek canyon, to the west of the adit, is underlain predominately by black phyllite. Narrow west-northwest trending felsic to intermediate dykes cut the phyllite in the creek canyon and contain traces of arsenopyrite and stibnite (Blann and Ridley, 2005).

The DL showing consists of several sugary to vuggy quartz-sulphide veins and 'bull' quartz veins in close proximity to the 1880s adit. The 'main' vein, which trends 090 degrees and dips moderately to the north, is exposed above the adit. A 1.0 metre chip sample across it assayed 42,906 ppb Au (Ridley, 1992). A 0.5 metre chip sample of the eastern hanging wall of the 'main' vein assayed 10,242 ppb Au, 17.2 ppm Ag, 713 As and 964 Pb (Blann, 2005). Sampling of vein material west of the adit also produced encouraging results, including 4.12 g/t Au over 2.0 metres, and 4.57 g/t Au over 1.6 metres (Ridley and Dunne, 1993). In general, the highest gold values are associated with vuggy quartz veins that contain pyrite and elevated levels of arsenic and lead (Blann et al., 2006; Christopher, 1999).

The Art showing consists of mineralized rhyodacite that was discovered in 1997 along a newly built logging road by D. Ridley. It is situated approximately 2 km westsouthwest of the DL adit in the southern part of the property. Mineralization at the Art showing consists of 2-10% pyrrhotite-pyrite and trace to 5% arsenopyrite in association with strongly sheared and quartz-sericite-carbonate altered host rocks. Drilling of the Art showing in 2001 by Mandalay Resources encountered anomalous gold values including a 12-m intersection in hole DDH 01-2 that averaged 167 ppb Au and 3500 ppm As, but the drilling is believed to have missed its target (Ridley, 1992). While the Art showing itself is regarded as a gold target, the enclosing country rock is prospective for bulk tonnage porphyry copper+/-gold+/-molybdenum mineralization.

6. 2009 EXPLORATION PROGRAM

During 2009, 169 soil samples were collected along lines 200 metres apart and samples were taken at 50 metre intervals. This reconnaissance scale grid expanded to the south a 2008 soil geochemical survey. Positive values for soil samples (greater than 90th percentile) are greater than 12.2 ppb (parts per billion) gold and 1.1 ppm (parts per million or g/t) silver. Soil

samples range from less than 0.5 ppb up to 282.7 ppb gold and less than 0.1 up to 15.7 ppm silver (Table 5, Figures 4-7)

Table 3: Statistical Results for 2009 Soil Samples (# of Samples = 169)

	min	max	mean	80% tile	90% tile	95% tile
Au_ppb	0.5	84.3	5.3	6.7	14.0	16.9
Ag_ppm	0.1	15.7	1.0	1.3	2.0	2.7
Cu_ppm	1.6	80.7	23.3	33.8	42.5	53.5
As_ppm	0.5	111.5	17.5	22.4	37.7	58.5

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

Each flagged grid line was located using GPS, compass and tight chain. The grid lines are plotted in Figure 4-7. Samples were collected at 50 m intervals on all of the lines. Samples were taken from the 'C' soil horizon using either a mattock or tree planting shovel 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.

All samples were dried at 60°C, sieved through 80 mesh and 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 ICPMS finish. The reader is referred to <http://www.acmelab.com> for details of these analytical procedures. The assay certificates are located in Appendix I: Acme Lab.

Results and Certificates of Analysis.

Figures 4 through 7 illustrate the distribution of gold, silver, copper and arsenic in soils. Full analytical results are presented in Appendix B and C.

Most of the grid is underlain by rocks of the basal black clastic succession and several interesting gold and silver anomalies were identified.

7. INTERPRETATION AND CONCLUSIONS

Positive gold and silver values occur at the northern end of the surveyed area as individual samples and over 100 and 200 metre widths that remain open in extent to the north. At the south end of the surveyed area five samples contain 2.6 to 3.2 g/t silver over an 800 metre width. These positive results remain open in extent for 2.0 kilometres southward to the property boundary with Skygold Ventures' Spanish Creek-Thunder Ridge zone.

Taking into consideration historical soils, regional geology, and the orientation of strongly mineralized structures being intersected by Skygold to the south, the soils should be interpreted as a wide (~1km) zone with several narrow (50-200m) locally discontinuous N-S trending anomalies some perhaps offset by E-W trending faults. If this is the case, it is possible mineralization, similar to that being drilled at Spanish Creek may extend from the southern edge of the property all the way north to the DL Adit Zone (5km north).

Approximately 350 metres south of the Golden Ledge property, Spanish Mountain Gold Ltd. has reported that diamond drill hole SC017 returned 7.5 metres grading 8.84 g/t (grams per tonne) gold, with an additional 1.5 metres grading 9.45 g/t gold. Approximately 400 metres northeast of SC017 and 150 metres south of the Golden Ledge property, SC023 returned 24.5 metres of 1.08 g/t gold. The historical DL adit on the Golden ledge property has returned up to 42.9 g/t gold over 1.0 metre and up to 620 g/t silver in grab samples. Table 4 contains recent drill results from Spanish Creek Drilling.

Table 4. Drill results from Spanish Creek Drilling immediately south of Golden Ledge Claims

<u>Hole</u>		<u>From (m)</u>	<u>To (m)</u>	<u>Width*</u>	<u>Au (g/t)</u>
SC019		62.00	63.50	1.50	19.30
SC019	And	106.50	128.50	22.00	0.34
SC019	Including	116.00	121.00	5.00	0.55
SC019	and including	120.00	121.00	1.00	1.12
SC019	And	191.50	212.90	21.40	0.67
SC019	Including	197.00	205.50	8.50	1.05
SC019	and including	208.60	211.50	2.90	1.13
SC019	and including	197.00	211.50	14.50	0.87
SC020		18.50	20.00	1.50	0.51
SC021		49.50	51.00	1.50	0.50
SC021	And	138.00	139.55	1.55	0.58
SC021	And	176.75	191.50	14.75	1.42
SC021	Including	176.75	180.55	3.80	4.54
SC021	And	239.88	279.00	39.12	0.30
SC021	Including	239.88	245.00	5.12	0.67
SC021	and including	253.90	255.00	1.10	0.85
SC022		204.00	225.50	21.50	0.61
SC022	Including	210.00	214.50	4.50	1.47
SC022	and including	221.00	224.00	3.00	1.37
SC022	And	296.00	297.50	1.50	0.60
SC023		250.00	288.30	38.30	0.80
SC023	Including	250.00	276.00	26.00	1.03
SC023	and including	253.00	254.50	1.50	1.16
SC023	and including	264.03	265.50	1.47	3.54
SC023	and including	268.50	274.30	5.80	2.29
SC023	and including	268.50	270.00	1.50	5.33
SC023	And	286.00	287.00	1.00	1.51
SC024		187.00	188.50	1.50	0.51

** core length - does not represent true width*

http://www.skygold.ca/s/Spanish_Creek.asp#top

8. RECOMMENDATIONS

The Golden Ledge property has the potential to host both bonanza-grade gold vein mineralization and sediment hosted, bulk tonnage gold mineralization. The east half of the property has a geological setting that is similar to two nearby sediment-hosted gold deposits, namely Spanish Mountain and Frasergold. The Spanish Mountain property is host to a NI 43-101 compliant resource of 67.06 million tonnes grading 0.81 g/t Au (Peatfield and Giroux, 2008), while the Frasergold property is host to a 'historic resource' of 3.4 million tons grading 0.05 oz Au/t (Campbell et al., 1991).

Subsequent to the end of the 2009 field season Happy Creek acquired the claim 596446 immediately south of the existing soils grid and immediately north of Spanish Mountain Gold's drilling of the Spanish Creek veins. No work has been documented on this claim save for one BC Geological Survey - Regional Geochemical Survey sample that was highly (>95 percentile) anomalous in both gold and silver. A soils grid should be established that covers the ground north of the Spanish Creek and south of the existing Au – Ag anomaly discussed in this report.. Perhaps 10 X 200m spaced lines, each approx 1,000m in length with samples every 50m.

If results from the soil survey are favourable, Happy Creek should strongly consider trenching and/or drilling the soil anomalies to confirm the presence of mineralization. Paleo - Ice flow direction(s) must be considered during planning the location of trenches / drill holes.

9. STATEMENT OF COSTS for Hen AND Golden Ledge – 2009

Name			Amount
Shipping			
Greyhound Courier Express			\$ 325.67
Analytical Services			
Acme Analytical Laboratories Ltd.			\$ 9733.8
sample storage and disposal fee			\$ 750.00
			<u>\$ 10,483.80</u>
Wages and Geology			
	# days	\$/day	
Allnorth Consultants Ltd.			\$ 299.17
Lodestone Explorations Co. Inc. + truck	21.14	\$ 550.00	\$ 11,626.90
Darin Black + Truck+Saw	20.98	\$ 525.00	\$ 11,012.50
Trevor Ridley	8.27	\$ 275.00	\$ 2,275.00
David Blann, P.Eng. Trench mapping, Supervision	10.91	\$ 550.00	\$ 6,000.00
Mike Martel - Chainsaw reclamation	5.18	\$ 350.00	\$ 1,812.50
Meldrum Geol. Contracting Dan Meldrum, MSc. Geology	18.6	\$ 350.00	\$ 6,510.00
Sassan Liaghat, PhD Geology, data drafting and mapping	31.0	\$ 350.00	\$ 10,850.00
Hendex Exploration Services Ltd.			\$ 1,908.10
			<u>\$ 52,294.17</u>
Supplies, rentals, travel			
			\$ 4,567.00
Room and Board	40.00	\$ 65.00	\$ 2,600.00
Excavator for Trenching			
Kingsgate Excavating			\$ 10,935.00
Mapping software- pro rata, printing, communications			
			\$ 600.00
Subtotal			
			\$ 81,805.64
Overhead@ 10%			\$ 8,180.56
Total			<u>\$ 89,986.20</u>

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11 . Statement of Qualifications

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E-mail: dan.g.meldrum@gmail.com

CERTIFICATE OF AUTHOR

I, Dan Meldrum, of Port Coquitlam, British Columbia, do hereby certify that:

1. I am a geologist with an office at #460 - 789 West Pender Street, Vancouver, BC, V6C 1H2
2. I graduated from the University of Alberta with a Masters of Science degree in Geology in 1997 and I have practiced my profession continuously since 1992.
3. I am a Geologist in Training with the Association of Professional Engineers and Geoscientists of British Columbia.
4. Since 1997, I have been involved in mineral exploration for base and precious metals. I have conducted this work in Canada, Mongolia, China, and Vietnam.
5. I am presently a contract geologist and have been so since 2003.
6. I am the author of the report titled "A GEOCHEMICAL REPORT ON THE GOLDEN LEDGE PROPERTY" dated 2010 February 24.
7. I have been granted Share options of Happy Creek Minerals Ltd.

Dated at Vancouver, British Columbia, this 24th day of February, 2010.

"Dan Meldrum" (Signed)

Dan Meldrum, M.Sc. GIT.

Appendix A

Figures

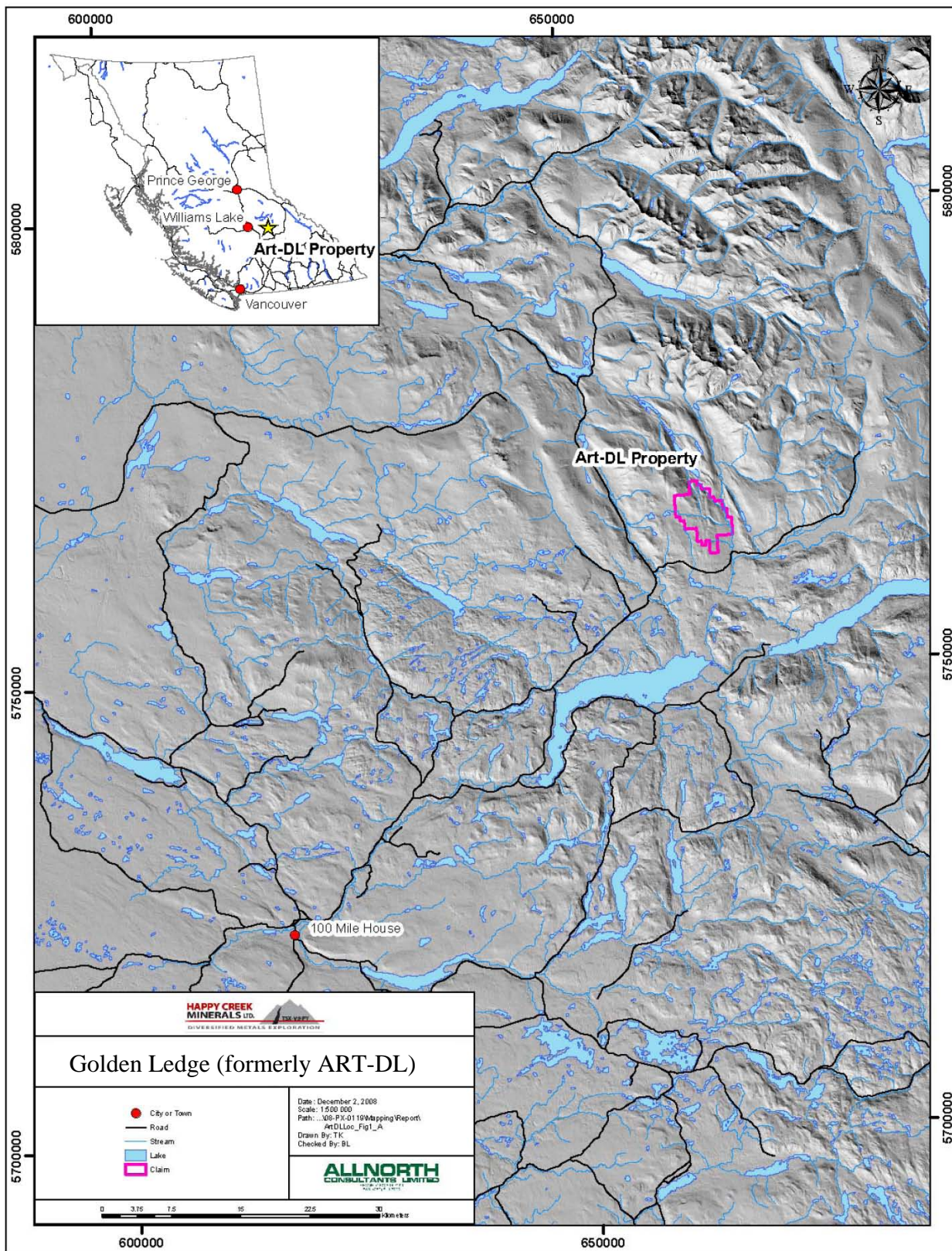


Figure 1: Location Map

656000

660000

664000

668000

672000

**HAPPY CREEK
MINERALS LTD.**



DIVERSIFIED METALS EXPLORATION

**HAPPY CREEK MINERALS LTD
Cariboo Project
Golden Ledge Property
Claim & Tenure Number Map**

Projection: UTM10N Datum: Nad83
Mapsheet: 092P 097, 093A,006,007
Claim Data: MTO - Feb 14, 2010



5768000

5768000

Hen

Golden Ledge

5764000

5764000

0 750 1,500 3,000 Meters

1:70,000

5760000

656000

660000

664000

668000

672000

Figure 2. Claims

507151

510705

526703

532108

518932

526708

533315

596446

665000

666000

667000

5767000

5767000

5766000

5766000

5765000

5765000

5764000

5764000

5763000

5763000

665000

666000

667000



GOLDEN LEDGE PROPERTY

2009 Soil Samples

Figure 4a Gold

NAD 83 ZONE 10

L65600N

L65400N

L65200N

L64800N

L64600N

L64400N

L64200N

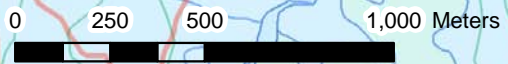
L64000N

LEGEND Golden Ledge Soil Geochemistry (2009)

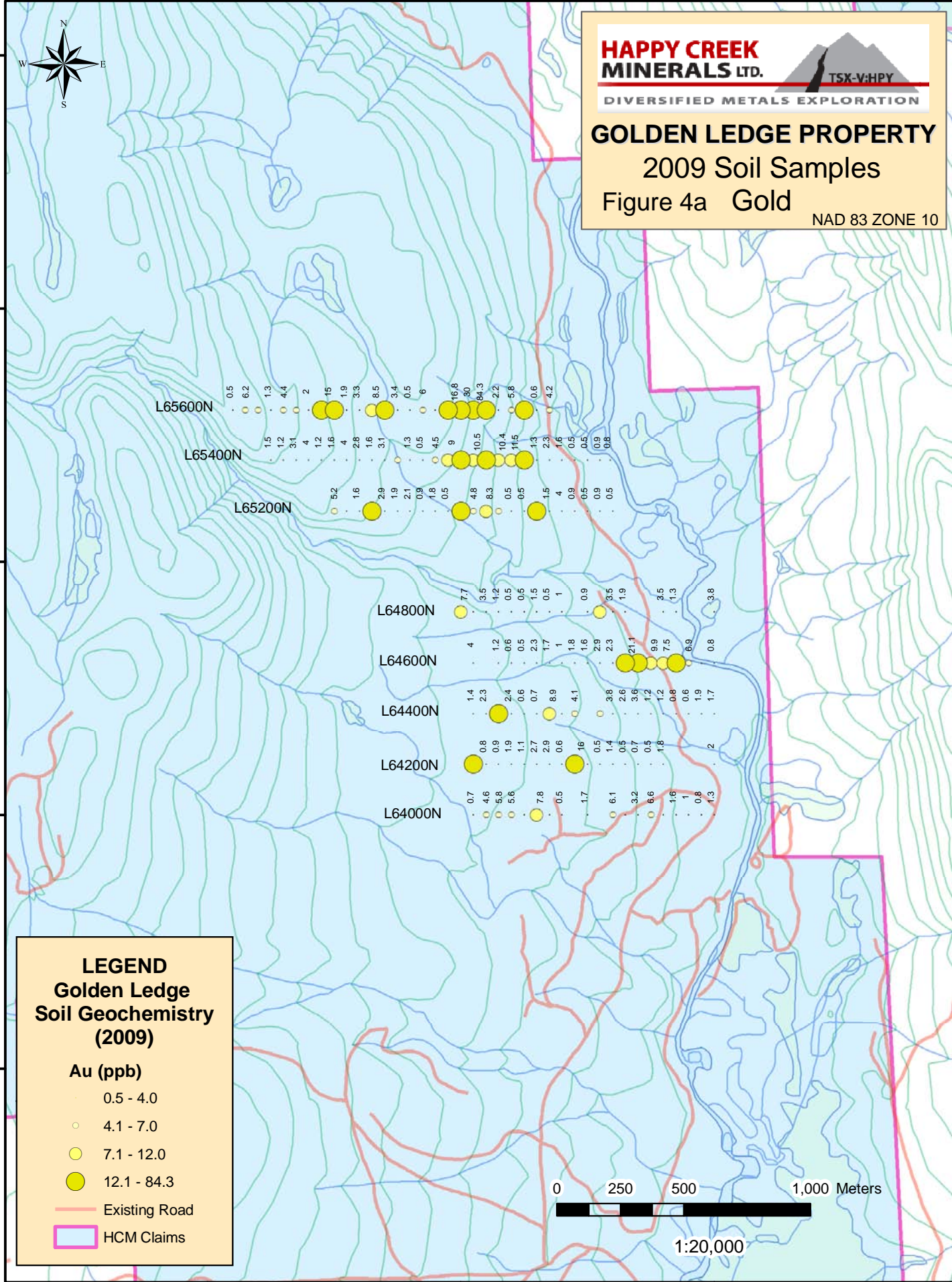
Au (ppb)

- 0.5 - 4.0
- 4.1 - 7.0
- 7.1 - 12.0
- 12.1 - 84.3

- Existing Road
- HCM Claims



1:20,000



665000

666000

667000

5767000

5767000

5766000

5766000

5765000

5765000

5764000

5764000

5763000

5763000

665000

666000

667000



**HAPPY CREEK
MINERALS LTD.**



DIVERSIFIED METALS EXPLORATION

GOLDEN LEDGE PROPERTY

2009 Soil Samples

Figure 4c Copper

NAD 83 ZONE 10

L65600N

7.6
32.1
14.9
13.3
16.2
16.4
27.1
27.8
10.6
13.9
19.2
30.1
27.5
20
15.5
28.8
22.5
5.6
44.9
6.3
40
42.7
40.6
40
46.4
40.7
35.7
24.4
42
57.3
16.4
36.8

L65400N

36.9
16.4
10.6
30
27.5
23.8
23
24.5
38.1
21.2
25.6
42.7
40.6
28.8
40.9
35.7
42
40.9
42.4
10.8
15.9
25.6
19.4
20.8
18.4
14.7
21.1
21.1

L65200N

13.8
30.1
17.9
22.1
21.3
23.3
28.6
33.9
40
9.6
28.8
40.9
33.8
42
40.9
10.8
10.8
15.9
28.3
33.9
18.1
16.9
20.9
14.7
25
23.6

L64800N

71.7
39.7
22.2
14
8.5
16
14.9
7.4
21
11.8
50
18.8

L64600N

24.3
22.1
12.3
12.7
10.8
16.9
13.7
17.2
7.4
17.7
27.5
27.9
16
19.3
55.2
48.3
25
5.3
12.2
17.8

L64400N

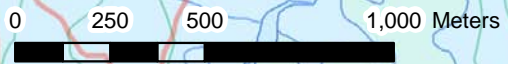
11.9
15.1
14.8
4.6
3.6
11.9
13.3
16.9
18.4
13.7
18.6
17.2
15.1
17.7
48.7
18.6
27.9
24
11.3
10.9
16.6
6.2
27.7
32.5

L64200N

18.4
11.7
15.3
19.1
10.2
8.3
14.1
16.6
11.9
14.5
14.7
18.4
15.7
18.6
13.8
15.3
23.8
6.8
11.2
9.5
10.4
10.9
16.6
6.2
27.7
32.5

L64000N

11.4
19.4
11.7
10.2
8.3
19.3
9.4
18.5
18.5
59.6
23
31.5
22.7
26.9
13.1
8.2
15.7



1:20,000

LEGEND
Golden Ledge
Soil Geochemistry
(2009)

Cu (ppm)

- 1.6 - 50.0
- 50.1 - 75.0
- 75.1 - 80.7

— Existing Road

□ HCM Claims

665000

666000

667000

5767000

5767000

5766000

5766000

5765000

5765000

5764000

5764000

5763000

5763000

665000

666000

667000



GOLDEN LEDGE PROPERTY 2009 Soil Samples Figure 4d Lead

NAD 83 ZONE 10

L65600N

L65400N

L65200N

L64800N

L64600N

L64400N

L64200N

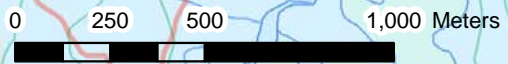
L64000N

LEGEND Golden Ledge Soil Geochemistry (2009)

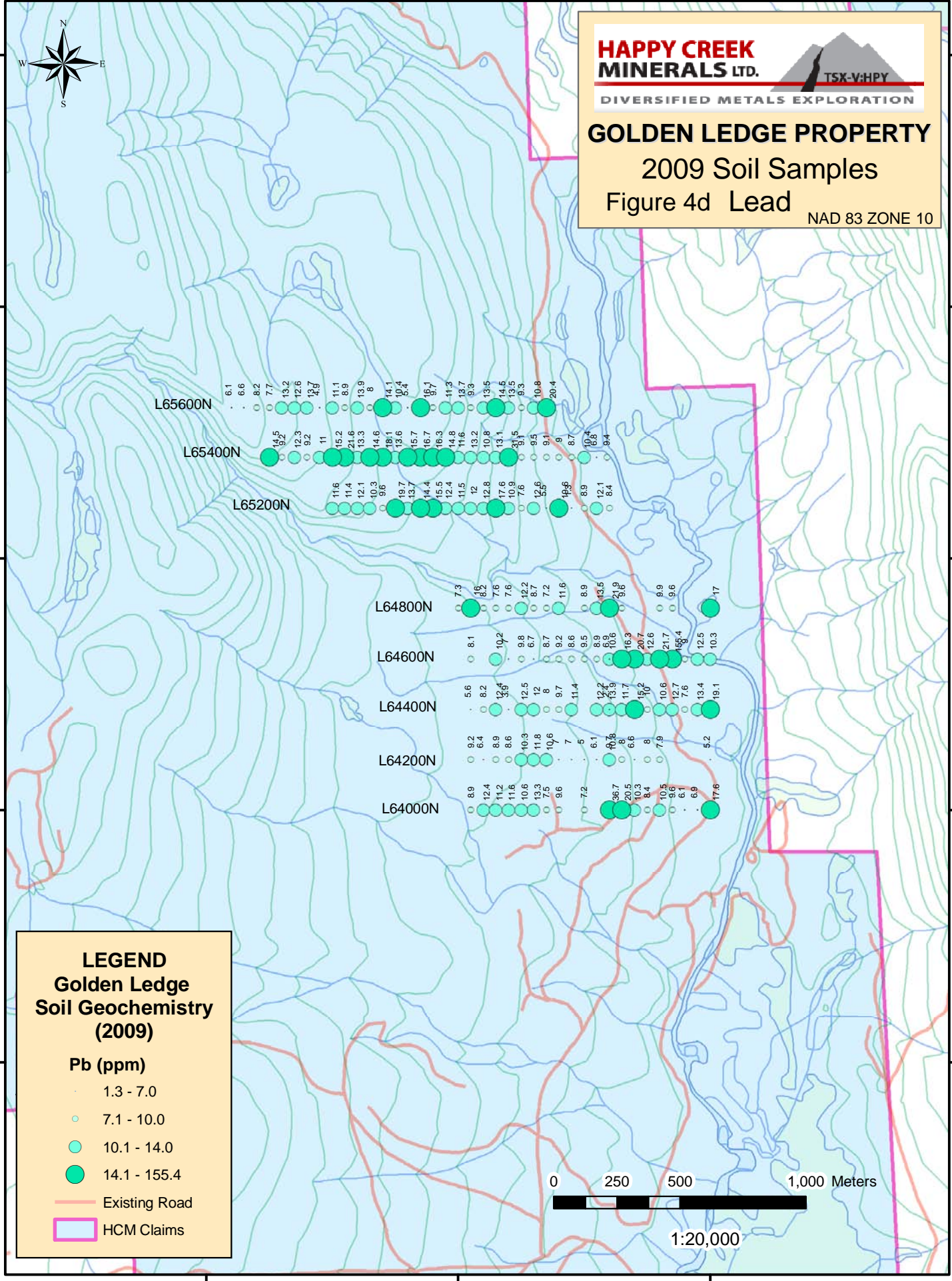
Pb (ppm)

- 1.3 - 7.0
- 7.1 - 10.0
- 10.1 - 14.0
- 14.1 - 155.4

- Existing Road
- HCM Claims



1:20,000



665000

666000

667000

5767000

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5766000

5766000

5765000

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5764000

5764000

5763000

5763000

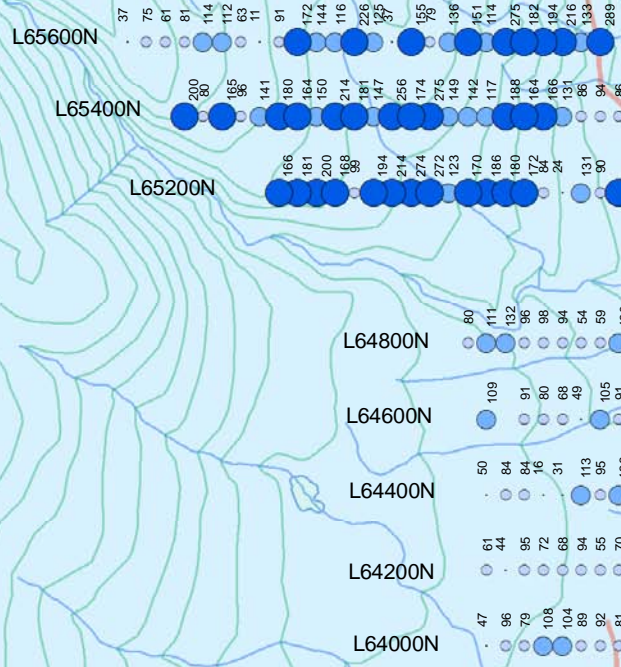
665000

666000

667000



GOLDEN LEDGE PROPERTY
2009 Soil Samples
Figure 4e Zinc
NAD 83 ZONE 10



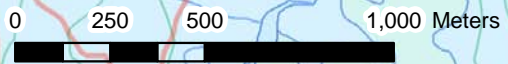
LEGEND
Golden Ledge
Soil Geochemistry
(2009)

Zn (ppm)

- 11 - 50
- 51 - 100
- 101 - 150
- 151 - 475

— Existing Road

HCM Claims



1:20,000

665000

666000

667000

5767000

5767000

5766000

5766000

5765000

5765000

5764000

5764000

5763000

5763000



GOLDEN LEDGE PROPERTY 2009 Soil Samples Figure 4f Arsenic NAD 83 ZONE 10

L65600N

L65400N

L65200N

L64800N

L64600N

L64400N

L64200N

L64000N

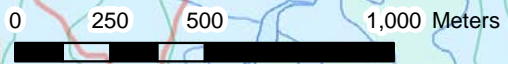
LEGEND
Golden Ledge
Soil Geochemistry
(2009)

As (ppm)

- 0.5 - 20.0
- 20.1 - 40.0
- 40.1 - 80.0
- 80.1 - 111.5

— Existing Road

HCM Claims



1:20,000

665000

666000

667000

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666000

667000

5767000

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5764000

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5763000

5763000

665000

666000

667000



GOLDEN LEDGE PROPERTY
2009 Soil Samples
Figure 4g Nickel
NAD 83 ZONE 10

L65600N

L65400N

L65200N

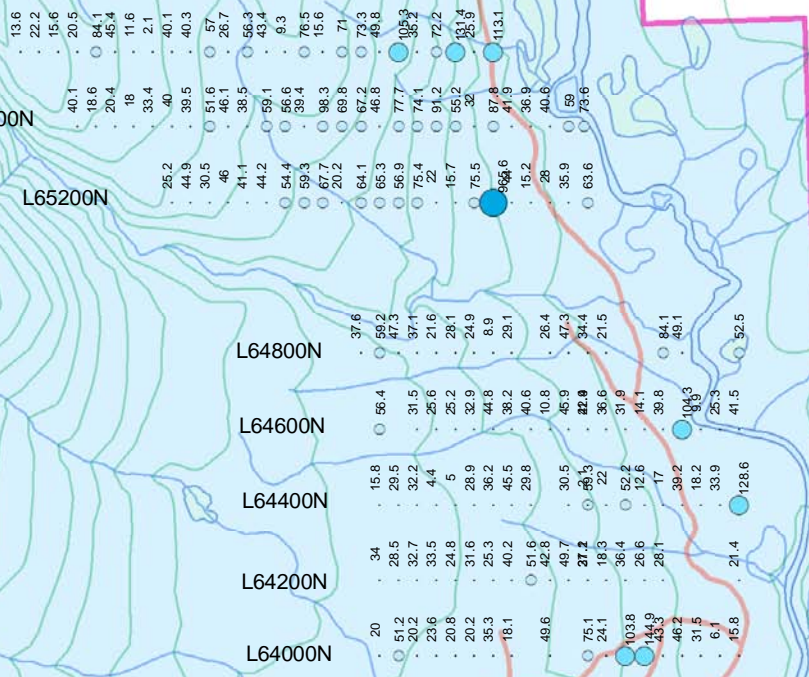
L64800N

L64600N

L64400N

L64200N

L64000N



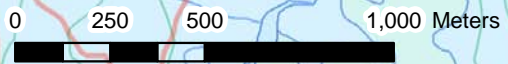
LEGEND
Golden Ledge
Soil Geochemistry
(2009)

Ni (ppm)

- 2.1 - 50.0
- 50.1 - 100.0
- 100.1 - 150.0
- 150.1 - 965.6

— Existing Road

□ HCM Claims



1:20,000

665000

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5766000

5765000

5764000

5763000

5767000

5766000

5765000

5764000

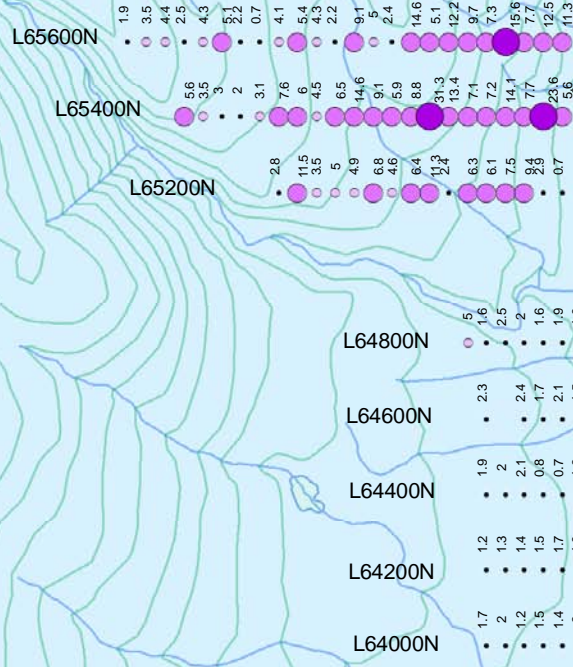
5763000



GOLDEN LEDGE PROPERTY

2009 Soil Samples

Figure 4hMolybdenum
NAD 83 ZONE 10



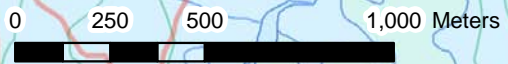
LEGEND
Golden Ledge
Soil Geochemistry
(2009)

Mo (ppm)

- 0.3 - 3.0
- 3.1 - 5.0
- 5.1 - 15.0
- 15.1 - 31.3

— Existing Road

□ HCM Claims



1:20,000

665000

666000

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665000

666000

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5767000

5767000

5766000

5766000

5765000

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5764000

5764000

5763000

5763000

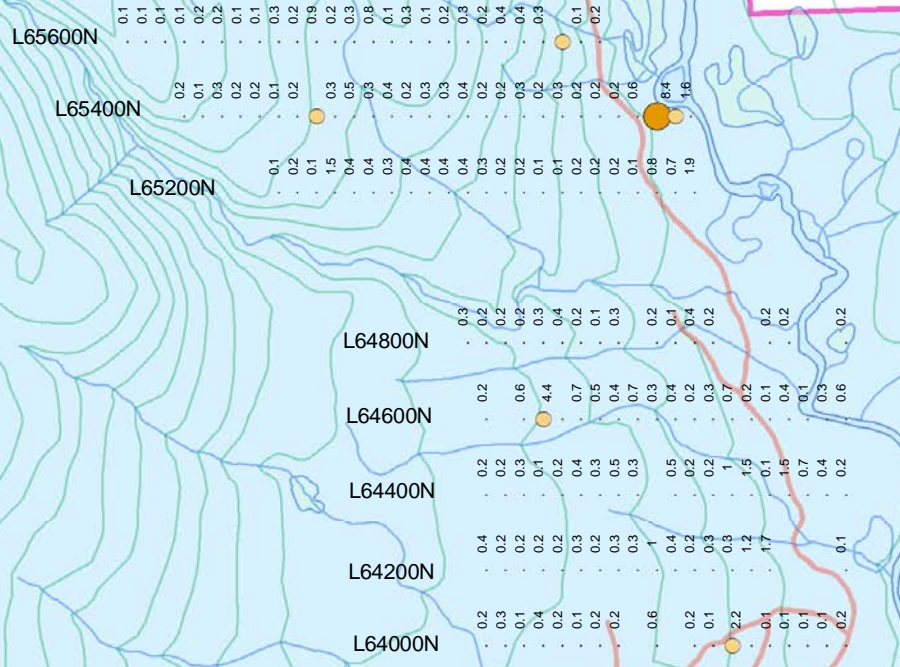
665000

666000

667000



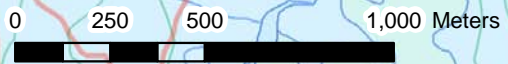
GOLDEN LEDGE PROPERTY
2009 Soil Samples
Figure 4i Tungsten
NAD 83 ZONE 10



LEGEND
Golden Ledge
Soil Geochemistry
(2009)

W (ppm)

- 0.1 - 2.0
- 2.1 - 5.0
- 5.1 - 8.4
- Existing Road
- HCM Claims



1:20,000

665000

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5764000

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**HAPPY CREEK
MINERALS LTD.**



DIVERSIFIED METALS EXPLORATION

GOLDEN LEDGE PROPERTY

2009 Soil Samples

Figure 4j Cobalt

NAD 83 ZONE 10

L65600N

L65400N

L65200N

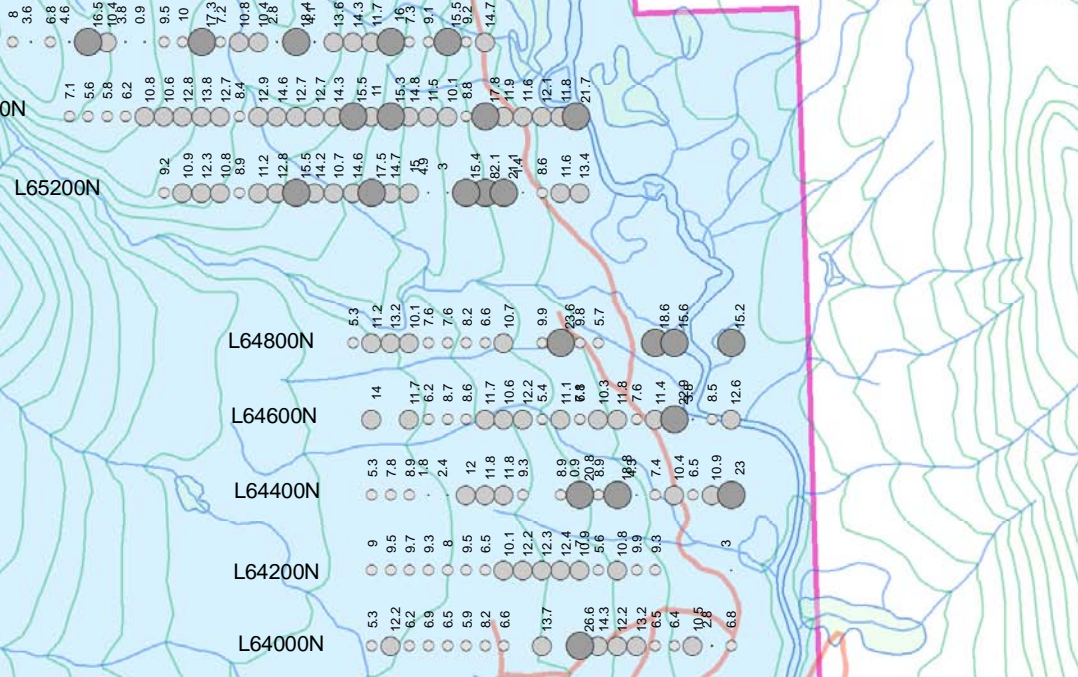
L64800N

L64600N

L64400N

L64200N

L64000N



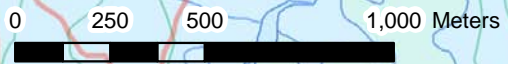
LEGEND
Golden Ledge
Soil Geochemistry
(2009)

Co (ppm)

- 0.9 - 5.0
- 5.1 - 10.0
- 10.1 - 15.0
- 15.1 - 82.1

Existing Road

HCM Claims



1:20,000

Appendix B
Geochemical Survey Soil Results

Northing	Easting	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	W (ppm)	Ni (ppm)	Co (ppm)	As (ppm)
5764000	667000	1.4	15.7	17.6	76.0	2.7	1.3	0.2	15.8	6.8	5.0
5764000	666950	0.7	8.2	6.9	29.0	0.6	0.8	0.1	6.1	2.8	1.4
5764000	666900	0.6	13.1	6.1	68.0	0.4	1.0	0.1	31.5	10.5	1.4
5764000	666850	1.0	26.9	9.6	34.0	1.4	1.6	0.1	46.2	6.4	2.7
5764000	666800	1.2	22.7	10.5	55.0	2.0	1.7	0.1	43.3	6.5	0.9
5764000	666750	2.0	80.7	8.4	271.0	1.2	6.6	0.4	144.9	13.2	2.5
5764000	666700	1.6	31.5	10.3	258.0	3.0	3.2	2.2	103.8	12.2	4.2
5764000	666650	3.6	23.0	20.5	75.0	0.3	2.8	0.1	24.1	14.3	47.5
5764000	666600	4.8	59.6	36.7	184.0	2.2	6.1	0.2	75.1	26.6	66.7
5764000	666500	1.6	18.5	7.2	102.0	0.6	1.7	0.6	49.6	13.7	10.0
5764000	666400	1.2	9.4	9.6	81.0	0.6	0.5	0.2	18.1	6.6	15.7
5764000	666350	1.5	19.3	7.5	92.0	2.6	3.5	0.2	35.3	8.2	19.0
5764000	666300	2.0	14.5	13.3	89.0	1.4	7.8	0.1	20.2	5.9	68.2
5764000	666250	1.4	8.3	10.6	104.0	3.2	1.8	0.2	20.8	6.5	7.4
5764000	666200	1.5	10.2	11.6	108.0	1.1	5.6	0.4	23.6	6.9	15.1
5764000	666150	1.2	11.7	11.2	79.0	0.7	5.8	0.1	20.2	6.2	14.6
5764000	666100	2.0	19.4	12.4	96.0	2.6	4.6	0.3	51.2	12.2	20.2
5764000	666050	1.7	11.4	8.9	47.0	0.3	0.7	0.2	20.0	5.3	12.8
5764200	667000	1.2	55.7	5.2	119.0	0.7	2.0	0.1	21.4	3.0	0.5
5764200	666800	1.4	10.4	7.9	119.0	0.3	1.8	1.7	28.1	9.3	5.5
5764200	666750	1.9	9.5	8.0	117.0	0.4	0.5	1.2	26.6	9.9	7.2
5764200	666700	1.1	11.2	6.6	117.0	0.3	0.7	0.3	36.4	10.8	6.8
5764200	666650	1.1	6.8	8.0	75.0	0.5	0.5	0.3	18.3	5.6	6.8
5764200	666600	1.4	11.0	9.7	72.0	0.3	1.3	0.3	21.2	7.0	12.6
5764200	666550	1.8	15.3	6.1	102.0	0.3	0.5	0.4	49.7	12.4	6.9
5764200	666500	1.3	13.8	5.0	81.0	0.3	2.4	1.0	42.8	12.3	3.9
5764200	666450	1.8	15.7	7.0	70.0	1.2	16.0	0.3	51.6	12.2	6.8
5764200	666400	1.7	11.9	7.0	70.0	0.5	0.6	0.3	40.2	10.1	6.9
5764200	666350	1.9	14.7	10.6	55.0	0.3	2.9	0.2	25.3	6.5	12.4
5764200	666300	1.8	16.6	11.8	94.0	0.9	2.7	0.3	31.6	9.5	16.8
5764200	666250	1.7	14.1	10.3	68.0	0.5	1.1	0.2	24.8	8.0	12.4
5764200	666200	1.5	19.1	8.6	72.0	0.8	1.9	0.2	33.5	9.3	13.3
5764200	666150	1.4	15.3	8.9	95.0	0.6	0.9	0.2	32.7	9.7	10.3
5764200	666100	1.3	11.7	6.4	44.0	1.1	0.8	0.2	28.5	9.5	4.4
5764200	666050	1.2	18.4	9.2	61.0	0.2	15.9	0.4	34.0	9.0	6.8
5764200	666600	2.0	23.8	10.8	85.0	0.8	1.4	0.2	37.1	10.9	8.6
5764400	667000	2.4	32.5	19.1	171.0	0.2	1.7	0.2	128.6	23.0	22.8
5764400	666950	1.2	27.7	13.4	76.0	1.2	1.9	0.4	33.9	10.9	26.0
5764400	666900	1.5	6.2	7.6	46.0	0.3	0.6	0.7	18.2	6.5	3.5
5764400	666850	4.4	16.6	12.7	153.0	0.6	0.8	1.5	39.2	10.4	12.6
5764400	666800	1.5	10.9	10.6	46.0	0.5	1.2	0.1	17.0	7.4	10.1
5764400	666750	1.4	11.3	10.0	67.0	0.4	1.2	1.5	12.6	4.3	7.2
5764400	666700	1.3	24.0	15.2	106.0	2.2	3.6	1.0	52.2	18.8	20.2
5764400	666650	1.4	18.6	11.7	98.0	0.7	2.6	0.2	22.0	8.9	13.8

Northing	Easting	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	W (ppm)	Ni (ppm)	Co (ppm)	As (ppm)
5764400	666600	0.3	1.6	2.4	11.0	0.4	0.7	0.1	2.1	0.9	0.6
5764400	666550	1.4	15.1	12.2	108.0	1.5	5.6	0.5	30.5	8.9	26.6
5764400	666450	2.0	18.6	11.4	73.0	0.6	4.1	0.3	29.8	9.3	58.9
5764400	666400	2.1	18.4	9.7	136.0	0.9	3.5	0.5	45.5	11.8	18.6
5764400	666350	1.2	13.3	8.0	95.0	1.0	8.9	0.3	36.2	11.8	5.6
5764400	666300	1.6	11.9	12.0	113.0	0.5	0.7	0.4	28.9	12.0	6.3
5764400	666250	0.7	3.6	12.5	31.0	0.3	0.6	0.2	5.0	2.4	1.5
5764400	666200	0.8	4.6	3.9	16.0	0.9	2.4	0.1	4.4	1.8	5.6
5764400	666150	2.1	14.8	12.4	84.0	1.5	12.2	0.3	32.2	8.9	15.4
5764400	666100	2.0	15.1	8.2	84.0	0.4	2.3	0.2	29.5	7.8	10.1
5764400	666050	1.9	11.9	5.6	50.0	0.1	1.4	0.2	15.8	5.3	5.2
5764400	666600	8.7	42.7	13.9	102.0	2.7	3.8	0.2	59.3	20.8	16.2
5764600	667000	1.5	17.8	10.3	73.0	0.7	0.8	0.6	41.5	12.6	7.2
5764600	666950	0.7	12.2	12.5	96.0	1.3	1.7	0.3	25.3	8.5	4.4
5764600	666900	1.5	5.3	9.0	46.0	0.2	6.9	0.1	9.9	3.8	4.6
5764600	666850	13.2	45.0	155.4	475.0	15.7	22.7	0.4	104.3	22.9	103.6
5764600	666800	0.8	55.2	21.7	54.0	3.2	7.5	0.1	39.8	11.4	16.5
5764600	666750	1.9	19.3	12.6	38.0	0.7	9.9	0.2	14.1	7.6	51.9
5764600	666700	2.7	16.0	20.7	110.0	3.8	75.9	0.7	31.9	11.8	20.2
5764600	666650	14.3	27.9	16.3	110.0	0.9	21.1	0.3	36.6	10.3	35.4
5764600	666600	1.6	17.1	6.9	48.0	0.9	1.3	0.3	22.9	6.1	13.4
5764600	666550	1.6	17.7	8.9	91.0	1.2	2.9	0.4	45.9	11.1	11.9
5764600	666500	1.2	7.4	9.5	79.0	0.7	1.6	0.3	10.8	5.4	6.5
5764600	666450	1.9	17.2	8.6	107.0	0.3	1.8	0.7	40.6	12.2	7.0
5764600	666400	2.0	13.7	9.2	91.0	1.3	1.0	0.4	38.2	10.6	7.5
5764600	666350	2.1	16.9	8.7	105.0	0.6	1.7	0.5	44.8	11.7	9.8
5764600	666300	1.5	10.8	6.7	49.0	0.2	2.3	0.7	32.9	8.6	10.2
5764600	666250	2.1	12.7	9.8	68.0	0.4	0.5	0.4	25.2	8.7	10.1
5764600	666200	1.7	12.3	7.0	80.0	0.3	0.6	4.4	25.6	6.2	8.0
5764600	666150	2.4	22.1	10.2	91.0	0.7	1.2	0.6	31.5	11.7	12.8
5764600	666050	2.3	24.3	8.1	109.0	0.3	4.0	0.2	56.4	14.0	13.3
5764600	666600	2.6	27.5	10.6	59.0	1.4	2.3	0.2	41.4	7.8	8.9
5764800	667000	2.6	34.5	17.0	88.0	1.9	3.8	0.2	52.5	15.2	20.9
5764800	666850	2.3	25.0	9.6	120.0	0.3	1.3	0.2	49.1	15.6	20.8
5764800	666800	2.6	48.3	9.9	110.0	0.4	3.5	0.2	84.1	18.6	22.0
5764800	666650	1.5	55.1	9.6	32.0	2.4	1.9	0.2	21.5	5.7	5.9
5764800	666600	4.7	18.8	21.9	107.0	0.7	3.5	0.4	34.4	9.8	12.2
5764800	666550	7.8	50.0	13.5	68.0	1.3	11.3	0.1	47.3	23.6	39.4
5764800	666500	2.9	11.8	8.9	129.0	0.3	0.9	0.2	26.4	9.9	8.5
5764800	666400	3.2	21.0	11.6	130.0	0.5	1.0	0.3	29.1	10.7	10.9
5764800	666350	1.6	7.4	7.2	59.0	0.7	0.5	0.1	8.9	6.6	3.3
5764800	666300	1.8	14.9	8.7	54.0	0.9	1.5	0.2	24.9	8.2	10.8
5764800	666250	1.9	15.0	12.2	94.0	0.6	0.5	0.4	28.1	7.6	12.0
5764800	666200	1.6	8.5	7.6	98.0	0.3	0.5	0.3	21.6	7.6	7.0

Northing	Easting	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	W (ppm)	Ni (ppm)	Co (ppm)	As (ppm)
5764800	666150	2.0	14.0	7.6	96.0	0.2	1.2	0.2	37.1	10.1	10.1
5764800	666100	2.5	22.2	8.2	132.0	0.3	3.5	0.2	47.3	13.2	14.5
5764800	666050	1.6	39.7	16.0	111.0	1.9	3.1	0.2	59.2	11.2	5.1
5764800	666000	5.0	71.7	7.3	80.0	3.4	7.7	0.3	37.6	5.3	15.0
5765200	666600	1.2	23.6	8.4	59.0	0.2	0.5	1.9	63.6	13.4	2.2
5765200	666550	2.2	25.0	12.1	55.0	0.9	0.9	0.7	35.9	11.6	4.7
5765200	666500	1.7	20.9	8.9	63.0	0.5	0.5	0.8	28.0	8.6	4.8
5765200	666450	0.4	16.9	1.3	22.0	0.2	0.9	0.1	15.2	1.4	0.5
5765200	666400	1.9	18.1	19.6	337.0	1.1	4.0	0.2	44.0	21.1	50.8
5765200	666350	1.1	33.9	5.5	90.0	1.9	1.5	0.2	965.6	82.1	32.8
5765200	666300	4.3	29.3	12.6	131.0	2.0	15.6	0.2	75.5	15.4	71.3
5765200	666250	0.7	15.9	7.6	24.0	2.9	0.5	0.1	15.7	3.0	5.0
5765200	666200	2.9	10.8	10.9	84.0	0.5	0.5	0.1	22.0	4.9	16.5
5765200	666150	9.4	40.9	17.6	172.0	1.4	6.9	0.2	75.4	15.0	58.0
5765200	666100	7.5	33.8	12.8	180.0	0.5	8.3	0.2	56.9	14.7	50.7
5765200	666050	6.1	40.9	12.0	186.0	0.6	4.8	0.3	65.3	17.5	23.6
5765200	666000	6.3	29.8	11.5	170.0	0.4	13.9	0.4	64.1	14.6	19.9
5765200	665950	2.4	9.6	12.4	123.0	0.3	0.5	0.4	20.2	10.7	9.6
5765200	665900	11.3	40.0	15.5	272.0	0.5	1.8	0.4	67.7	14.2	21.4
5765200	665850	6.4	33.9	14.4	274.0	0.8	0.9	0.4	59.3	15.5	19.3
5765200	665800	4.6	28.6	13.7	214.0	0.6	2.1	0.3	54.4	12.8	19.4
5765200	665750	6.8	23.3	19.7	194.0	1.0	1.9	0.4	44.2	11.2	14.1
5765200	665700	4.9	21.3	9.6	99.0	0.2	2.9	0.4	41.1	8.9	12.8
5765200	665650	5.0	22.1	10.3	168.0	0.4	14.5	1.5	46.0	10.8	13.8
5765200	665600	3.5	17.9	12.1	200.0	1.4	1.6	0.1	30.5	12.3	37.3
5765200	665550	11.5	30.1	11.4	181.0	0.6	2.4	0.2	44.9	10.9	111.5
5765200	665500	2.8	13.8	11.6	166.0	2.2	5.2	0.1	25.2	9.2	9.1
5765400	665250	5.6	36.9	14.5	200.0	1.2	1.5	0.2	40.1	7.1	22.9
5765400	665300	3.5	16.2	9.2	80.0	0.5	1.2	0.1	18.6	5.6	9.3
5765400	665350	3.0	16.4	12.3	165.0	1.6	3.1	0.3	20.4	5.8	10.6
5765400	665400	2.0	10.6	9.2	96.0	0.3	4.0	0.2	18.0	6.2	7.5
5765400	665450	3.1	20.6	11.0	141.0	0.6	1.2	0.2	33.4	10.8	10.4
5765400	665500	7.6	30.0	15.2	180.0	1.3	1.6	0.1	40.0	10.6	16.6
5765400	665550	6.0	27.5	21.6	164.0	1.1	4.0	0.2	39.5	12.8	26.5
5765400	665600	4.5	23.8	13.3	150.0	0.8	2.8	2.5	51.6	13.8	13.9
5765400	665650	6.5	23.0	14.6	214.0	0.8	1.6	0.3	46.1	12.7	14.1
5765400	665700	14.6	24.5	18.1	181.0	0.3	3.1	0.5	38.5	8.4	37.1
5765400	665750	9.1	38.1	13.6	147.0	0.6	4.5	0.3	59.1	12.9	18.2
5765400	665800	5.9	21.2	15.7	256.0	1.0	1.3	0.4	56.6	14.6	11.7
5765400	665850	8.8	25.6	16.7	174.0	0.9	0.5	0.2	39.4	12.7	12.3
5765400	665900	31.3	42.7	16.3	275.0	0.3	4.5	0.3	98.3	12.7	19.3
5765400	665950	13.4	40.6	14.8	149.0	0.5	9.0	0.3	69.8	14.3	28.4
5765400	666000	7.1	40.7	11.6	142.0	0.6	26.8	0.4	67.2	15.5	32.8
5765400	666050	7.2	35.7	13.2	117.0	1.1	10.5	0.2	46.8	11.0	34.4

Northing	Easting	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	W (ppm)	Ni (ppm)	Co (ppm)	As (ppm)
5765400	666100	14.1	42.0	10.8	188.0	0.9	16.9	0.2	77.7	15.3	54.3
5765400	666150	7.7	42.4	13.1	164.0	0.8	10.4	0.3	74.1	14.8	58.8
5765400	666200	23.6	36.5	31.5	166.0	3.9	11.5	0.2	91.2	11.5	24.6
5765400	666250	5.6	25.6	9.1	131.0	0.6	14.2	0.3	55.2	10.1	19.1
5765400	666300	2.0	15.9	9.5	86.0	0.6	1.3	0.2	32.0	8.8	10.4
5765400	666350	2.6	19.4	9.1	94.0	0.5	2.3	0.2	87.8	17.8	15.6
5765400	666400	1.8	20.8	9.0	86.0	0.7	1.6	0.2	41.9	11.9	8.2
5765400	666450	2.6	18.4	8.7	142.0	0.7	0.5	0.6	36.9	11.6	7.7
5765400	666500	2.5	14.7	10.4	61.0	0.1	0.5	8.4	40.6	12.1	6.0
5765400	666550	2.0	21.1	6.8	66.0	0.3	0.9	4.8	59.0	11.8	2.3
5765400	666590	3.3	27.1	9.4	74.0	0.2	0.8	1.6	73.6	21.7	3.8
5765600	665100	1.9	7.6	6.1	37.0	0.2	0.5	0.1	13.6	8.0	9.9
5765600	665150	3.5	32.1	6.6	75.0	0.6	6.2	0.1	22.2	3.6	14.9
5765600	665200	4.4	14.9	8.2	61.0	0.2	4.9	0.1	15.6	6.8	9.6
5765600	665250	2.5	13.3	7.7	81.0	0.7	1.3	0.1	20.5	4.6	5.2
5765600	665300	4.3	70.1	13.2	114.0	0.9	4.4	0.2	84.1	16.5	25.1
5765600	665350	5.1	27.8	12.6	112.0	0.4	4.1	0.2	45.4	10.4	9.3
5765600	665400	2.2	13.9	13.7	63.0	1.7	2.0	0.1	11.6	3.8	4.7
5765600	665450	0.7	1.6	4.9	11.0	0.3	15.0	0.1	2.1	0.9	1.2
5765600	665500	4.1	19.2	11.1	91.0	0.5	13.2	0.3	40.1	9.5	11.7
5765600	665550	5.4	20.0	8.9	172.0	0.3	1.9	0.2	40.3	10.0	10.3
5765600	665600	4.3	30.1	13.9	144.0	0.6	3.3	0.9	57.0	17.3	9.9
5765600	665650	2.2	15.5	8.0	116.0	0.5	8.5	0.2	26.7	7.2	6.8
5765600	665700	9.1	28.8	14.1	226.0	0.5	29.8	0.3	56.3	10.8	14.2
5765600	665750	5.0	22.5	10.4	125.0	1.2	3.4	0.8	43.4	10.4	11.4
5765600	665800	2.4	5.6	5.4	37.0	0.5	0.5	0.1	9.3	2.8	2.2
5765600	665850	14.6	44.9	16.1	155.0	0.3	6.0	0.3	76.5	18.4	21.4
5765600	665900	5.1	6.3	9.7	79.0	0.4	0.8	0.1	15.6	4.1	4.9
5765600	665950	12.2	40.0	11.3	136.0	0.9	16.8	0.2	71.0	13.6	29.4
5765600	666000	9.7	46.4	13.7	151.0	1.3	30.0	0.3	73.3	14.3	35.2
5765600	666050	7.3	24.4	9.3	114.0	0.7	84.3	0.2	49.8	11.7	20.6
5765600	666100	15.6	57.3	13.5	275.0	1.5	18.3	0.4	105.3	16.0	59.8
5765600	666150	7.7	16.4	14.5	182.0	1.1	2.2	0.4	35.2	7.3	22.1
5765600	666200	12.5	36.8	13.5	194.0	0.7	5.8	0.3	72.2	9.1	49.2
5765600	666250	11.3	51.2	9.3	216.0	0.7	15.4	2.5	131.4	15.5	73.0
5765600	666300	3.2	9.2	10.8	133.0	0.5	0.6	0.1	25.9	9.2	6.4
5765600	666350	19.9	63.0	20.4	289.0	0.5	4.2	0.2	113.1	14.7	6.2

UTM are NAD83 Zone 10.

Appendix C
Lab Certificates



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Acme Analytical Laboratories (Vancouver) Ltd.

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 09, 2009

Report Date: September 27, 2009

Page: 1 of 7

CERTIFICATE OF ANALYSIS

VAN09004114.1

CLIENT JOB INFORMATION

Project: DL
Shipment ID:
P.O. Number
Number of Samples: 174

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	169	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	169	Dry at 60C			VAN
1DX	169	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

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.



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

Project: DL
 Report Date: September 27, 2009

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN09004114.1

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
L64000N 67000E	Soil	1.4	15.7	17.6	76	2.7	15.8	6.8	362	2.81	5.0	0.4	1.3	0.6	33	0.3	0.2	0.3	28	0.35
L64000N 66950E	Soil	0.7	8.2	6.9	29	0.6	6.1	2.8	49	1.06	1.4	0.5	0.8	0.4	40	0.4	<0.1	0.2	19	0.40
L64000N 66900E	Soil	0.6	13.1	6.1	68	0.4	31.5	10.5	279	2.51	1.4	1.1	1.0	1.7	44	0.3	<0.1	0.3	38	0.72
L64000N 66850E	Soil	1.0	26.9	9.6	34	1.4	46.2	6.4	93	1.99	2.7	2.6	1.6	0.7	78	2.1	0.7	0.2	16	1.11
L64000N 66800E	Soil	1.2	22.7	10.5	55	2.0	43.3	6.5	819	1.32	0.9	1.2	1.7	0.7	48	3.5	0.2	0.1	20	0.63
L64000N 66750E	Soil	2.0	80.7	8.4	271	1.2	144.9	13.2	203	2.33	2.5	1.0	6.6	1.8	45	2.3	0.3	0.2	24	0.61
L64000N 66700E	Soil	1.6	31.5	10.3	258	3.0	103.8	12.2	561	2.46	4.2	3.2	3.2	3.8	32	3.1	0.3	0.2	35	0.37
L64000N 66650E	Soil	3.6	23.0	20.5	75	0.3	24.1	14.3	92	3.71	47.5	0.6	2.8	3.6	9	1.2	0.7	0.7	24	0.04
L64000N 66600E	Soil	4.8	59.6	36.7	184	2.2	75.1	26.6	212	5.88	66.7	1.0	6.1	4.8	17	1.2	1.3	1.0	30	0.14
L64000N 66500E	Soil	1.6	18.5	7.2	102	0.6	49.6	13.7	201	2.48	10.0	0.6	1.7	3.2	16	0.5	0.3	0.2	38	0.18
L64000N 66450E	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.
L64000N 66400E	Soil	1.2	9.4	9.6	81	0.6	18.1	6.6	218	2.27	15.7	0.4	<0.5	2.3	10	0.2	0.4	0.2	31	0.08
L64000N 66350E	Soil	1.5	19.3	7.5	92	2.6	35.3	8.2	131	2.31	19.0	0.6	3.5	5.3	10	0.4	0.6	0.2	24	0.12
L64000N 66300E	Soil	2.0	14.5	13.3	89	1.4	20.2	5.9	144	2.34	68.2	0.5	7.8	4.9	6	0.4	1.5	0.3	26	0.03
L64000N 66250E	Soil	1.4	8.3	10.6	104	3.2	20.8	6.5	161	2.19	7.4	0.5	1.8	3.6	8	0.4	0.3	0.2	34	0.08
L64000N 66200E	Soil	1.5	10.2	11.6	108	1.1	23.6	6.9	129	2.86	15.1	0.7	5.6	3.6	10	0.4	0.4	0.3	40	0.10
L64000N 66150E	Soil	1.2	11.7	11.2	79	0.7	20.2	6.2	135	2.02	14.6	0.5	5.8	4.9	11	0.2	0.6	0.2	26	0.07
L64000N 66100E	Soil	2.0	19.4	12.4	96	2.6	51.2	12.2	163	3.06	20.2	0.7	4.6	5.5	12	0.3	0.8	0.3	37	0.13
L64000N 66050E	Soil	1.7	11.4	8.9	47	0.3	20.0	5.3	137	1.90	12.8	0.5	0.7	2.9	14	0.2	0.5	0.2	35	0.11
L64000N 66000E	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.
L64200N 67000E	Soil	1.2	55.7	5.2	119	0.7	21.4	3.0	202	0.75	<0.5	13.0	2.0	0.2	208	3.8	0.6	<0.1	13	2.48
L64200N 66800E	Soil	1.4	10.4	7.9	119	0.3	28.1	9.3	248	2.34	5.5	0.5	1.8	2.6	9	0.5	0.2	0.2	42	0.12
L64200N 66750E	Soil	1.9	9.5	8.0	117	0.4	26.6	9.9	208	3.32	7.2	0.6	<0.5	2.5	12	0.6	0.2	0.2	60	0.14
L64200N 66700E	Soil	1.1	11.2	6.6	117	0.3	36.4	10.8	231	2.41	6.8	0.6	0.7	3.2	11	0.3	0.2	0.2	39	0.13
L64200N 66650E	Soil	1.1	6.8	8.0	75	0.5	18.3	5.6	112	1.99	6.8	0.5	<0.5	2.8	12	0.2	0.2	0.2	38	0.12
L64200N 66600E	Soil	1.4	11.0	9.7	72	0.3	21.2	7.0	175	2.22	12.6	0.5	1.3	3.3	8	0.3	0.3	0.2	34	0.09
L64200N 66550E	Soil	1.8	15.3	6.1	102	0.3	49.7	12.4	334	2.47	6.9	0.5	<0.5	2.5	14	0.4	0.3	0.2	41	0.19
L64200N 66500E	Soil	1.3	13.8	5.0	81	0.3	42.8	12.3	251	2.16	3.9	0.5	2.4	2.8	15	0.5	0.3	0.2	35	0.20
L64200N 66450E	Soil	1.8	15.7	7.0	70	1.2	51.6	12.2	174	2.81	6.8	0.8	16.0	2.9	10	0.4	0.3	0.2	45	0.14
L64200N 66400E	Soil	1.7	11.9	7.0	70	0.5	40.2	10.1	186	2.67	6.9	0.5	0.6	2.3	9	0.4	0.4	0.2	51	0.10

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.



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Project: DL
 Report Date: September 27, 2009

Page: 2 of 7 Part 2

CERTIFICATE OF ANALYSIS

VAN09004114.1

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	
L64000N 67000E	Soil	0.143	8	18	0.29	77	0.016	<20	1.19	0.012	0.08	0.2	0.03	0.8	<0.1	<0.05	6	0.7
L64000N 66950E	Soil	0.018	5	5	0.06	59	0.014	<20	0.62	0.010	0.02	<0.1	0.02	0.6	<0.1	<0.05	3	0.8
L64000N 66900E	Soil	0.067	8	49	0.85	62	0.167	<20	1.82	0.009	0.16	0.1	0.02	3.9	<0.1	<0.05	7	0.9
L64000N 66850E	Soil	0.038	5	17	0.28	48	0.025	<20	1.27	0.012	0.02	<0.1	0.05	1.4	<0.1	0.08	3	2.1
L64000N 66800E	Soil	0.032	5	8	0.13	39	0.047	<20	1.09	0.022	0.02	<0.1	0.05	1.3	<0.1	<0.05	2	2.2
L64000N 66750E	Soil	0.090	13	26	0.49	49	0.066	<20	1.04	0.019	0.10	0.4	0.02	3.4	<0.1	<0.05	3	2.0
L64000N 66700E	Soil	0.082	13	33	0.38	59	0.104	<20	2.52	0.017	0.05	2.2	0.08	3.9	0.1	<0.05	6	4.9
L64000N 66650E	Soil	0.022	12	8	0.06	41	0.017	<20	0.62	0.006	0.03	<0.1	0.02	1.2	<0.1	<0.05	3	1.5
L64000N 66600E	Soil	0.066	11	25	0.32	73	0.033	<20	1.74	0.005	0.05	0.2	0.05	2.4	0.1	<0.05	4	2.9
L64000N 66500E	Soil	0.115	10	36	0.55	88	0.083	<20	1.59	0.006	0.05	0.6	0.03	2.0	<0.1	<0.05	4	<0.5
L64000N 66450E	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.
L64000N 66400E	Soil	0.129	11	21	0.21	56	0.058	<20	1.02	0.006	0.04	0.2	0.01	1.0	<0.1	<0.05	5	<0.5
L64000N 66350E	Soil	0.105	15	20	0.27	72	0.043	<20	1.08	0.006	0.07	0.2	0.03	1.5	<0.1	<0.05	3	0.9
L64000N 66300E	Soil	0.062	21	16	0.17	57	0.028	<20	0.74	0.004	0.06	0.1	0.02	1.2	<0.1	<0.05	3	0.8
L64000N 66250E	Soil	0.077	14	28	0.23	74	0.056	<20	1.16	0.004	0.05	0.2	0.05	1.3	<0.1	<0.05	5	<0.5
L64000N 66200E	Soil	0.162	16	27	0.26	85	0.071	<20	1.50	0.005	0.06	0.4	0.04	1.5	<0.1	<0.05	7	<0.5
L64000N 66150E	Soil	0.069	15	24	0.24	84	0.031	<20	1.00	0.007	0.04	0.1	0.02	1.3	<0.1	<0.05	4	<0.5
L64000N 66100E	Soil	0.091	17	33	0.42	130	0.080	<20	1.82	0.010	0.09	0.3	0.03	2.0	<0.1	<0.05	5	0.8
L64000N 66050E	Soil	0.082	15	21	0.27	76	0.066	<20	0.72	0.004	0.06	0.2	0.01	1.2	<0.1	<0.05	4	<0.5
L64000N 66000E	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.
L64200N 67000E	Soil	0.070	10	11	0.25	63	0.021	<20	0.70	0.009	0.02	0.1	0.07	0.9	<0.1	0.31	2	8.5
L64200N 66800E	Soil	0.112	8	30	0.36	95	0.075	<20	1.85	0.007	0.06	1.7	0.04	1.8	<0.1	<0.05	5	0.5
L64200N 66750E	Soil	0.238	7	41	0.33	112	0.101	<20	2.57	0.005	0.05	1.2	0.04	2.0	<0.1	<0.05	7	<0.5
L64200N 66700E	Soil	0.094	11	32	0.35	97	0.084	<20	1.54	0.009	0.07	0.3	0.02	1.5	0.1	<0.05	5	<0.5
L64200N 66650E	Soil	0.084	10	24	0.19	69	0.083	<20	1.07	0.005	0.05	0.3	0.03	1.0	<0.1	<0.05	5	<0.5
L64200N 66600E	Soil	0.129	11	22	0.21	72	0.076	<20	1.28	0.007	0.05	0.3	0.03	1.3	<0.1	<0.05	5	<0.5
L64200N 66550E	Soil	0.163	9	41	0.56	90	0.080	<20	1.58	0.008	0.07	0.4	0.02	1.7	<0.1	<0.05	4	<0.5
L64200N 66500E	Soil	0.103	9	38	0.56	83	0.078	<20	1.33	0.008	0.05	1.0	0.02	1.6	<0.1	<0.05	4	<0.5
L64200N 66450E	Soil	0.076	8	44	0.74	65	0.094	<20	1.89	0.008	0.04	0.3	0.03	1.9	<0.1	<0.05	5	0.6
L64200N 66400E	Soil	0.062	7	36	0.55	64	0.118	<20	1.37	0.006	0.04	0.3	0.01	1.6	<0.1	<0.05	6	<0.5

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Project: DL
 Report Date: September 27, 2009

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CERTIFICATE OF ANALYSIS

VAN09004114.1

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
L64200N 66350E	Soil	1.9	14.7	10.6	55	0.3	25.3	6.5	184	2.36	12.4	0.6	2.9	4.3	10	0.3	0.4	0.3	41	0.07
L64200N 66300E	Soil	1.8	16.6	11.8	94	0.9	31.6	9.5	361	3.72	16.8	0.7	2.7	4.1	10	0.5	0.5	0.3	47	0.10
L64200N 66250E	Soil	1.7	14.1	10.3	68	0.5	24.8	8.0	414	2.73	12.4	0.6	1.1	4.4	10	0.2	0.4	0.3	37	0.11
L64200N 66200E	Soil	1.5	19.1	8.6	72	0.8	33.5	9.3	227	2.65	13.3	0.7	1.9	4.4	20	0.4	0.6	0.2	36	0.20
L64200N 66150E	Soil	1.4	15.3	8.9	95	0.6	32.7	9.7	251	2.61	10.3	0.9	0.9	3.0	18	0.5	0.3	0.2	38	0.21
L64200N 66100E	Soil	1.3	11.7	6.4	44	1.1	28.5	9.5	229	1.98	4.4	0.4	0.8	1.5	12	0.5	0.2	0.2	41	0.11
L64200N 66050E	Soil	1.2	18.4	9.2	61	0.2	34.0	9.0	244	2.05	6.8	1.0	15.9	3.8	19	0.3	0.2	0.2	33	0.24
L64200N 66000E	Soil	2.0	23.8	10.8	85	0.8	37.1	10.9	507	2.68	8.6	1.5	1.4	1.4	24	0.5	0.1	0.3	46	0.27
L66400N 67000E	Soil	2.4	32.5	19.1	171	0.2	128.6	23.0	383	4.56	22.8	0.4	1.7	2.2	19	0.5	0.4	0.4	70	0.24
L66400N 66950E	Soil	1.2	27.7	13.4	76	1.2	33.9	10.9	247	2.22	26.0	0.7	1.9	5.6	12	0.2	0.4	0.4	25	0.12
L66400N 66900E	Soil	1.5	6.2	7.6	46	0.3	18.2	6.5	168	2.05	3.5	0.5	0.6	2.3	10	0.3	0.1	0.2	39	0.10
L66400N 66850E	Soil	4.4	16.6	12.7	153	0.6	39.2	10.4	293	3.77	12.6	0.8	0.8	3.0	15	0.8	0.3	0.4	65	0.17
L66400N 66800E	Soil	1.5	10.9	10.6	46	0.5	17.0	7.4	154	1.78	10.1	0.6	1.2	3.6	12	0.5	0.4	0.3	26	0.12
L66400N 66750E	Soil	1.4	11.3	10.0	67	0.4	12.6	4.3	69	2.76	7.2	0.6	1.2	1.2	15	0.7	0.2	0.3	41	0.10
L66400N 66700E	Soil	1.3	24.0	15.2	106	2.2	52.2	18.8	1103	3.43	20.2	1.7	3.6	1.7	50	0.9	0.5	0.5	42	0.62
L66400N 66650E	Soil	1.4	18.6	11.7	98	0.7	22.0	8.9	268	2.40	13.8	0.5	2.6	3.9	6	0.4	0.4	0.3	30	0.07
L66400N 66600E	Soil	0.3	1.6	2.4	11	0.4	2.1	0.9	43	0.38	0.6	0.2	0.7	1.2	5	<0.1	<0.1	<0.1	14	0.05
L66400N 66550E	Soil	1.4	15.1	12.2	108	1.5	30.5	8.9	237	2.59	26.6	0.6	5.6	5.3	14	0.3	0.5	0.3	34	0.18
L66400N 66500E	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.
L66400N 66450E	Soil	2.0	18.6	11.4	73	0.6	29.8	9.3	211	2.57	58.9	0.7	4.1	4.2	14	0.7	4.7	0.2	38	0.11
L66400N 66400E	Soil	2.1	18.4	9.7	136	0.9	45.5	11.8	254	3.05	18.6	0.8	3.5	4.4	16	0.8	0.8	0.2	41	0.19
L66400N 66350E	Soil	1.2	13.3	8.0	95	1.0	36.2	11.8	228	2.39	5.6	0.7	8.9	3.3	29	0.5	0.3	0.2	37	0.30
L66400N 66300E	Soil	1.6	11.9	12.0	113	0.5	28.9	12.0	313	2.56	6.3	0.7	0.7	3.2	16	0.3	0.2	0.3	40	0.16
L66400N 66250E	Soil	0.7	3.6	12.5	31	0.3	5.0	2.4	75	0.74	1.5	0.4	0.6	0.9	7	0.2	<0.1	0.3	18	0.04
L66400N 66200E	Soil	0.8	4.6	3.9	16	0.9	4.4	1.8	117	0.70	5.6	0.2	2.4	1.7	13	0.1	0.2	0.1	12	0.21
L66400N 66150E	Soil	2.1	14.8	12.4	84	1.5	32.2	8.9	160	3.13	15.4	0.7	12.2	3.4	17	0.6	0.4	0.3	36	0.19
L66400N 66100E	Soil	2.0	15.1	8.2	84	0.4	29.5	7.8	200	2.62	10.1	0.7	2.3	4.1	14	0.3	0.5	0.2	38	0.17
L66400N 66050E	Soil	1.9	11.9	5.6	50	<0.1	15.8	5.3	174	1.47	5.2	0.5	1.4	3.0	12	0.3	0.4	0.2	33	0.10
L66400N 66000E	Soil	8.7	42.7	13.9	102	2.7	59.3	20.8	3104	4.69	16.2	5.8	3.8	2.0	94	2.5	0.5	0.5	61	1.10
L64600N 67000E	Soil	1.5	17.8	10.3	73	0.7	41.5	12.6	580	2.52	7.2	0.8	0.8	1.8	27	1.2	0.3	0.3	44	0.38

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Report Date: September 27, 2009

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CERTIFICATE OF ANALYSIS

VAN09004114.1

Method	Analyte	Unit	MDL	1DX P	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
				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
L64200N 66350E	Soil			0.066	15	28	0.27	62	0.080	<20	1.13	0.005	0.04	0.2	0.02	1.4	<0.1	<0.05	6	0.6
L64200N 66300E	Soil			0.230	14	34	0.31	100	0.064	<20	1.74	0.008	0.05	0.3	0.05	1.8	<0.1	<0.05	6	0.8
L64200N 66250E	Soil			0.193	15	30	0.28	78	0.065	<20	1.13	0.006	0.06	0.2	0.02	1.6	<0.1	<0.05	6	<0.5
L64200N 66200E	Soil			0.102	15	35	0.35	146	0.060	<20	1.60	0.008	0.07	0.2	0.03	1.9	<0.1	<0.05	4	0.7
L64200N 66150E	Soil			0.229	14	32	0.42	146	0.079	<20	1.55	0.008	0.11	0.2	0.03	1.8	0.1	<0.05	5	0.5
L64200N 66100E	Soil			0.043	8	31	0.40	71	0.088	<20	1.10	0.012	0.04	0.2	0.02	1.3	<0.1	<0.05	4	<0.5
L64200N 66050E	Soil			0.078	20	32	0.49	99	0.077	<20	1.32	0.014	0.11	0.4	<0.01	1.9	0.1	<0.05	4	<0.5
L64200N 66000E	Soil			0.047	14	37	0.43	133	0.082	<20	2.11	0.019	0.13	0.2	0.04	2.4	0.1	<0.05	6	1.1
L66400N 67000E	Soil			0.086	5	268	1.38	80	0.170	<20	2.67	0.007	0.08	0.2	0.02	2.0	<0.1	<0.05	8	1.1
L66400N 66950E	Soil			0.111	19	18	0.27	80	0.053	<20	0.90	0.007	0.07	0.4	0.03	1.4	<0.1	<0.05	3	0.7
L66400N 66900E	Soil			0.063	8	24	0.22	61	0.090	<20	1.64	0.007	0.05	0.7	0.04	1.2	<0.1	<0.05	5	<0.5
L66400N 66850E	Soil			0.166	9	35	0.45	107	0.121	<20	2.73	0.007	0.08	1.5	0.06	2.0	0.1	<0.05	8	1.2
L66400N 66800E	Soil			0.029	14	14	0.15	56	0.037	<20	0.70	0.010	0.05	<0.1	0.01	1.0	<0.1	<0.05	3	<0.5
L66400N 66750E	Soil			0.029	8	22	0.12	79	0.084	<20	1.27	0.006	0.03	1.5	0.03	1.1	<0.1	<0.05	7	0.6
L66400N 66700E	Soil			0.077	12	39	0.69	97	0.083	<20	1.87	0.017	0.10	1.0	0.06	3.2	0.2	<0.05	5	1.6
L66400N 66650E	Soil			0.052	12	19	0.20	64	0.058	<20	0.86	0.005	0.04	0.2	0.03	1.1	<0.1	<0.05	5	<0.5
L66400N 66600E	Soil			0.011	8	5	0.03	18	0.032	<20	0.14	0.011	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5
L66400N 66550E	Soil			0.167	13	29	0.29	101	0.060	<20	1.34	0.007	0.06	0.5	0.03	1.5	<0.1	<0.05	5	0.5
L66400N 66500E	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.
L66400N 66450E	Soil			0.082	16	32	0.40	100	0.084	<20	1.11	0.008	0.09	0.3	0.03	1.7	0.1	<0.05	4	0.9
L66400N 66400E	Soil			0.194	15	39	0.45	132	0.077	<20	2.18	0.010	0.08	0.5	0.06	2.3	0.1	<0.05	4	0.8
L66400N 66350E	Soil			0.157	12	31	0.39	108	0.077	<20	1.76	0.008	0.08	0.3	0.04	1.7	<0.1	<0.05	5	0.5
L66400N 66300E	Soil			0.103	14	29	0.41	155	0.095	<20	1.49	0.010	0.08	0.4	0.02	1.6	<0.1	<0.05	6	<0.5
L66400N 66250E	Soil			0.028	11	12	0.09	68	0.067	<20	0.55	0.008	0.04	0.2	0.02	0.5	<0.1	<0.05	4	<0.5
L66400N 66200E	Soil			0.023	8	4	0.03	40	0.014	<20	0.20	0.009	0.03	<0.1	0.03	0.4	<0.1	<0.05	2	<0.5
L66400N 66150E	Soil			0.114	12	34	0.30	108	0.073	<20	2.09	0.006	0.07	0.3	0.07	1.7	<0.1	<0.05	5	1.0
L66400N 66100E	Soil			0.190	17	25	0.40	110	0.079	<20	1.27	0.007	0.10	0.2	0.03	1.7	<0.1	<0.05	5	0.6
L66400N 66050E	Soil			0.031	14	22	0.21	52	0.089	<20	0.61	0.010	0.10	0.2	<0.01	1.1	<0.1	<0.05	4	<0.5
L66400N 66000E	Soil			0.118	19	49	0.54	340	0.088	<20	3.32	0.023	0.31	0.2	0.11	5.7	0.3	0.08	8	3.0
L66400N 67000E	Soil			0.046	14	31	0.52	89	0.092	<20	1.61	0.009	0.05	0.6	0.02	1.7	0.1	<0.05	6	0.7

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CERTIFICATE OF ANALYSIS

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Method	WGHT	1DX	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	
L64600N 66950E	Soil	0.7	12.2	12.5	96	1.3	25.3	8.5	658	2.41	4.4	2.5	1.7	1.1	44	0.8	0.1	0.3	38	0.71	
L64600N 66900E	Soil	1.5	5.3	9.0	46	0.2	9.9	3.8	193	1.76	4.6	0.3	6.9	0.7	9	0.3	0.2	0.3	47	0.08	
L64600N 66850E	Soil	13.2	45.0	155.4	475	15.7	104.3	22.9	1001	5.99	103.6	2.4	22.7	7.2	25	9.7	3.2	0.5	58	0.39	
L64600N 66800E	Soil	0.8	55.2	21.7	54	3.2	39.8	11.4	332	2.59	16.5	2.1	7.5	1.0	45	0.9	0.4	0.7	16	0.53	
L64600N 66750E	Soil	1.9	19.3	12.6	38	0.7	14.1	7.6	171	2.67	51.9	0.3	9.9	3.2	6	0.1	0.8	0.5	28	0.09	
L64600N 66700E	Soil	2.7	16.0	20.7	110	3.8	31.9	11.8	364	4.15	20.2	0.7	75.9	2.8	17	0.6	0.4	0.6	61	0.27	
L64600N 66650E	Soil	14.3	27.9	16.3	110	0.9	36.6	10.3	238	3.03	35.4	0.7	21.1	4.7	12	0.3	3.2	0.4	34	0.13	
L64600N 66600E	Soil	1.6	17.1	6.9	48	0.9	22.9	6.1	177	1.86	13.4	0.5	1.3	1.9	18	0.3	0.4	0.3	35	0.21	
L64600N 66550E	Soil	1.6	17.7	8.9	91	1.2	45.9	11.1	256	2.70	11.9	0.7	2.9	3.3	12	0.5	0.5	0.2	41	0.15	
L64600N 66500E	Soil	1.2	7.4	9.5	79	0.7	10.8	5.4	689	1.61	6.5	0.5	1.6	2.6	7	0.3	0.2	0.2	27	0.06	
L64600N 66450E	Soil	1.9	17.2	8.6	107	0.3	40.6	12.2	457	2.92	7.0	0.7	1.8	4.1	19	0.4	0.2	0.2	49	0.20	
L64600N 66400E	Soil	2.0	13.7	9.2	91	1.3	38.2	10.6	193	2.91	7.5	0.7	1.0	2.5	25	0.5	0.2	0.2	50	0.26	
L64600N 66350E	Soil	2.1	16.9	8.7	105	0.6	44.8	11.7	180	3.08	9.8	0.7	1.7	3.4	13	0.6	0.3	0.2	45	0.10	
L64600N 66300E	Soil	1.5	10.8	6.7	49	0.2	32.9	8.6	219	2.17	10.2	0.9	2.3	1.8	28	0.3	0.4	0.2	31	0.28	
L64600N 66250E	Soil	2.1	12.7	9.8	68	0.4	25.2	8.7	172	2.60	10.1	0.6	0.5	1.9	12	0.7	0.4	0.2	38	0.12	
L64600N 66200E	Soil	1.7	12.3	7.0	80	0.3	25.6	6.2	115	2.18	8.0	0.6	0.6	2.7	14	0.6	0.3	0.2	35	0.14	
L64600N 66150E	Soil	2.4	22.1	10.2	91	0.7	31.5	11.7	262	2.74	12.8	1.2	1.2	1.6	25	1.0	0.4	0.3	41	0.23	
L64600N 66100E	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.	
L64600N 66050E	Soil	2.3	24.3	8.1	109	0.3	56.4	14.0	256	2.65	13.3	0.6	4.0	3.8	23	0.6	0.8	0.2	47	0.24	
L64600N 66000E	Soil	2.6	27.5	10.6	59	1.4	41.4	7.8	176	2.47	8.9	5.0	2.3	3.4	32	0.3	0.5	0.2	39	0.28	
L64800N 66700E	Soil	2.6	34.5	17.0	88	1.9	52.5	15.2	1195	3.56	20.9	4.6	3.8	1.2	32	1.3	0.4	0.4	49	0.23	
L64800N 66850E	Soil	2.3	25.0	9.6	120	0.3	49.1	15.6	744	3.11	20.8	0.7	1.3	0.8	27	0.5	0.7	0.2	58	0.42	
L64800N 66800E	Soil	2.6	48.3	9.9	110	0.4	84.1	18.6	278	2.84	22.0	1.0	3.5	1.1	36	1.0	1.5	0.2	76	0.50	
L64800N 66650E	Soil	1.5	55.1	9.6	32	2.4	21.5	5.7	355	1.37	5.9	3.7	1.9	0.3	64	1.3	0.8	0.2	26	0.82	
L64800N 66600E	Soil	4.7	18.8	21.9	107	0.7	34.4	9.8	204	3.75	12.2	0.8	3.5	2.7	16	0.7	0.7	0.5	65	0.16	
L64800N 66550E	Soil	7.8	50.0	13.5	68	1.3	47.3	23.6	4648	5.07	39.4	5.6	11.3	1.5	62	1.6	1.0	0.4	47	0.69	
L64800N 66500E	Soil	2.9	11.8	8.9	129	0.3	26.4	9.9	225	2.92	8.5	0.5	0.9	2.0	24	1.0	0.3	0.2	59	0.25	
L64800N 66450E	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.	
L64800N 66400E	Soil	3.2	21.0	11.6	130	0.5	29.1	10.7	338	2.84	10.9	1.0	1.0	2.7	23	0.7	0.2	0.3	48	0.37	
L64800N 66350E	Soil	1.6	7.4	7.2	59	0.7	8.9	6.6	898	1.30	3.3	0.5	<0.5	1.1	11	0.8	<0.1	0.1	29	0.09	



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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	
L64600N 66950E	Soil	0.064	10	27	0.52	72	0.104	<20	2.67	0.022	0.06	0.3	0.07	2.4	0.1	<0.05	7	1.8
L64600N 66900E	Soil	0.105	5	24	0.19	48	0.106	<20	0.71	0.009	0.03	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5
L64600N 66850E	Soil	0.207	39	16	0.04	94	0.002	<20	1.82	0.003	0.03	0.4	0.17	7.9	<0.1	<0.05	1	2.4
L64600N 66800E	Soil	0.077	13	13	0.14	65	0.022	<20	0.99	0.009	0.03	<0.1	0.12	2.6	<0.1	<0.05	4	2.3
L64600N 66750E	Soil	0.094	14	13	0.08	25	0.042	<20	0.42	0.003	0.04	0.2	0.02	0.8	<0.1	<0.05	4	0.7
L64600N 66700E	Soil	0.119	7	42	0.44	83	0.125	<20	1.87	0.007	0.07	0.7	0.08	2.5	<0.1	<0.05	8	1.1
L64600N 66650E	Soil	0.108	21	29	0.31	103	0.064	<20	1.19	0.007	0.06	0.3	0.03	1.7	<0.1	<0.05	5	1.0
L64600N 66600E	Soil	0.054	11	26	0.27	76	0.076	<20	0.75	0.007	0.05	0.3	0.03	1.1	<0.1	<0.05	4	<0.5
L64600N 66550E	Soil	0.160	12	39	0.54	128	0.086	<20	1.92	0.008	0.09	0.4	0.05	2.0	<0.1	<0.05	4	0.6
L64600N 66500E	Soil	0.137	11	21	0.15	73	0.056	<20	0.83	0.008	0.07	0.3	0.03	0.9	<0.1	<0.05	5	<0.5
L64600N 66450E	Soil	0.192	12	42	0.61	158	0.123	<20	1.93	0.008	0.15	0.7	0.03	2.2	0.2	<0.05	6	0.7
L64600N 66400E	Soil	0.203	11	37	0.43	123	0.106	<20	2.37	0.008	0.07	0.4	0.08	1.9	<0.1	<0.05	6	<0.5
L64600N 66350E	Soil	0.080	12	47	0.46	124	0.099	<20	2.66	0.008	0.07	0.5	0.06	2.2	<0.1	<0.05	5	0.8
L64600N 66300E	Soil	0.046	13	30	0.37	71	0.071	<20	1.02	0.013	0.08	0.7	0.03	1.7	<0.1	<0.05	3	0.7
L64600N 66250E	Soil	0.112	10	29	0.25	82	0.083	<20	1.76	0.006	0.05	0.4	0.05	1.5	<0.1	<0.05	5	0.5
L64600N 66200E	Soil	0.112	13	33	0.30	80	0.072	<20	1.18	0.007	0.06	4.4	0.02	1.2	<0.1	<0.05	4	<0.5
L64600N 66150E	Soil	0.048	15	45	0.36	68	0.075	<20	1.47	0.008	0.06	0.6	0.03	2.2	<0.1	<0.05	5	1.3
L64600N 66100E	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.
L64600N 66050E	Soil	0.182	13	68	0.65	97	0.076	<20	1.48	0.007	0.07	0.2	0.02	1.8	<0.1	<0.05	4	0.7
L64600N 66000E	Soil	0.058	19	45	0.43	131	0.075	<20	1.55	0.014	0.08	0.2	0.03	3.4	0.1	<0.05	4	0.9
L64800N 66700E	Soil	0.093	23	51	0.45	204	0.075	<20	2.49	0.013	0.15	0.2	0.07	4.0	0.2	<0.05	6	1.5
L64800N 66850E	Soil	0.093	11	79	0.79	137	0.073	<20	1.62	0.011	0.10	0.2	0.03	2.0	<0.1	<0.05	5	1.2
L64800N 66800E	Soil	0.111	10	143	1.38	125	0.087	<20	1.81	0.016	0.10	0.2	0.03	3.5	0.2	<0.05	5	2.3
L64800N 66650E	Soil	0.062	21	34	0.20	75	0.040	<20	1.10	0.016	0.05	0.2	0.09	1.6	0.1	0.05	3	2.2
L64800N 66600E	Soil	0.051	9	47	0.42	128	0.128	<20	1.97	0.007	0.08	0.4	0.06	1.9	<0.1	<0.05	8	1.3
L64800N 66550E	Soil	0.095	20	47	0.41	234	0.059	<20	1.96	0.013	0.13	0.1	0.07	3.6	0.2	<0.05	6	1.8
L64800N 66500E	Soil	0.036	7	37	0.35	90	0.129	<20	1.69	0.011	0.06	0.2	0.04	1.8	<0.1	<0.05	6	0.9
L64800N 66450E	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.
L64800N 66400E	Soil	0.140	13	36	0.38	106	0.107	<20	2.07	0.008	0.09	0.3	0.03	2.3	0.1	<0.05	7	1.2
L64800N 66350E	Soil	0.049	9	17	0.10	58	0.062	<20	1.22	0.012	0.03	0.1	0.05	0.9	<0.1	<0.05	4	<0.5

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CERTIFICATE OF ANALYSIS

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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
L64800N 66300E	Soil	1.8	14.9	8.7	54	0.9	24.9	8.2	152	2.28	10.8	0.6	1.5	2.9	18	0.5	0.4	0.2	37	0.18
L64800N 66250E	Soil	1.9	15.0	12.2	94	0.6	28.1	7.6	184	2.74	12.0	0.7	<0.5	2.5	22	1.1	0.5	0.3	45	0.17
L64800N 66200E	Soil	1.6	8.5	7.6	98	0.3	21.6	7.6	166	2.44	7.0	0.5	<0.5	2.5	12	0.7	0.3	0.2	37	0.14
L64800N 66150E	Soil	2.0	14.0	7.6	96	0.2	37.1	10.1	181	2.52	10.1	0.6	1.2	2.5	10	0.6	0.5	0.2	38	0.11
L64800N 66100E	Soil	2.5	22.2	8.2	132	0.3	47.3	13.2	309	3.07	14.5	0.6	3.5	3.4	12	0.6	0.7	0.2	46	0.14
L64800N 66050E	Soil	1.6	39.7	16.0	111	1.9	59.2	11.2	459	1.95	5.1	4.1	3.1	1.2	43	2.0	0.4	0.3	40	0.46
L64800N 66000E	Soil	5.0	71.7	7.3	80	3.4	37.6	5.3	438	1.71	15.0	4.5	7.7	0.6	122	7.3	0.8	0.2	19	1.59
L65200N 66600E	Soil	1.2	23.6	8.4	59	0.2	63.6	13.4	155	2.04	2.2	3.3	<0.5	2.6	25	0.1	0.1	0.6	37	0.30
L65200N 66550E	Soil	2.2	25.0	12.1	55	0.9	35.9	11.6	164	3.36	4.7	1.9	0.9	3.7	50	0.9	0.2	0.4	57	0.47
L65200N 66500E	Soil	1.7	20.9	8.9	63	0.5	28.0	8.6	212	2.00	4.8	0.9	<0.5	2.3	18	0.6	0.3	0.2	40	0.17
L65200N 66450E	Soil	0.4	16.9	1.3	22	0.2	15.2	1.4	89	0.46	<0.5	1.3	0.9	0.2	276	0.6	0.9	<0.1	2	4.14
L65200N 66400E	Soil	1.9	18.1	19.6	337	1.1	44.0	21.1	637	3.98	50.8	1.7	4.0	1.3	66	1.9	1.5	0.4	52	0.76
L65200N 66350E	Soil	1.1	33.9	5.5	90	1.9	965.6	82.1	2901	6.75	32.8	5.8	1.5	0.4	85	2.1	0.6	0.2	15	1.08
L65200N 66300E	Soil	4.3	29.3	12.6	131	2.0	75.5	15.4	663	3.95	71.3	0.6	15.6	2.9	39	1.3	1.7	0.3	35	0.32
L65200N 66250E	Soil	0.7	15.9	7.6	24	2.9	15.7	3.0	65	1.08	5.0	2.8	<0.5	0.2	80	1.0	0.3	0.1	15	1.00
L65200N 66200E	Soil	2.9	10.8	10.9	84	0.5	22.0	4.9	232	2.09	16.5	0.5	<0.5	1.7	12	0.4	0.4	0.3	25	0.10
L65200N 66150E	Soil	9.4	40.9	17.6	172	1.4	75.4	15.0	420	3.91	58.0	1.7	6.9	3.1	44	1.6	1.3	0.5	39	0.35
L65200N 66100E	Soil	7.5	33.8	12.8	180	0.5	56.9	14.7	398	3.79	50.7	0.8	8.3	4.0	20	1.0	1.0	0.4	37	0.14
L65200N 66050E	Soil	6.1	40.9	12.0	186	0.6	65.3	17.5	405	3.47	23.6	0.8	4.8	3.6	21	1.4	1.0	0.3	44	0.17
L65200N 66000E	Soil	6.3	29.8	11.5	170	0.4	64.1	14.6	268	3.48	19.9	0.8	13.9	4.0	10	0.9	0.8	0.3	39	0.10
L65200N 65950E	Soil	2.4	9.6	12.4	123	0.3	20.2	10.7	343	2.75	9.6	0.5	<0.5	2.2	10	1.2	0.3	0.3	38	0.07
L65200N 65900E	Soil	11.3	40.0	15.5	272	0.5	67.7	14.2	292	4.84	21.4	1.0	1.8	4.2	14	1.6	0.9	0.4	52	0.16
L65200N 65850E	Soil	6.4	33.9	14.4	274	0.8	59.3	15.5	354	4.09	19.3	0.7	0.9	2.9	22	1.8	0.9	0.3	44	0.17
L65200N 65800E	Soil	4.6	28.6	13.7	214	0.6	54.4	12.8	220	4.16	19.4	0.9	2.1	3.5	16	2.1	0.9	0.3	54	0.13
L65200N 65750E	Soil	6.8	23.3	19.7	194	1.0	44.2	11.2	307	3.30	14.1	0.8	1.9	3.2	18	1.3	0.6	0.4	40	0.24
L65200N 65700E	Soil	4.9	21.3	9.6	99	0.2	41.1	8.9	154	2.73	12.8	0.6	2.9	3.1	13	0.7	0.5	0.3	36	0.13
L65200N 65650E	Soil	5.0	22.1	10.3	168	0.4	46.0	10.8	175	3.05	13.8	0.8	14.5	3.7	15	1.3	0.6	0.2	43	0.15
L65200N 65600E	Soil	3.5	17.9	12.1	200	1.4	30.5	12.3	582	2.67	37.3	0.6	1.6	2.2	17	1.9	0.9	0.3	38	0.16
L65200N 65550E	Soil	11.5	30.1	11.4	181	0.6	44.9	10.9	292	3.94	111.5	0.6	2.4	3.8	11	1.2	2.5	0.3	34	0.08
L65200N 65500E	Soil	2.8	13.8	11.6	166	2.2	25.2	9.2	147	2.69	9.1	0.4	5.2	2.8	11	1.2	0.5	0.2	47	0.09

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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	
L64800N 66300E	Soil	0.054	14	26	0.34	83	0.072	<20	1.32	0.007	0.06	0.2	0.04	1.4	0.1	<0.05	5	0.5
L64800N 66250E	Soil	0.085	17	34	0.33	95	0.092	<20	1.37	0.007	0.09	0.4	0.02	1.7	<0.1	<0.05	6	0.8
L64800N 66200E	Soil	0.076	11	32	0.22	81	0.070	<20	1.47	0.005	0.06	0.3	0.05	1.3	<0.1	<0.05	5	<0.5
L64800N 66150E	Soil	0.115	10	43	0.38	84	0.063	<20	1.35	0.005	0.05	0.2	0.03	1.4	<0.1	<0.05	5	0.6
L64800N 66100E	Soil	0.265	11	66	0.56	91	0.063	<20	1.89	0.006	0.07	0.2	0.04	2.0	<0.1	<0.05	5	0.9
L64800N 66050E	Soil	0.072	22	56	0.46	173	0.065	<20	2.34	0.016	0.13	0.2	0.06	3.8	0.2	0.06	6	3.4
L64800N 66000E	Soil	0.100	38	27	0.24	140	0.023	<20	1.68	0.014	0.11	0.3	0.13	3.8	0.2	0.66	3	5.5
L65200N 66600E	Soil	0.066	19	49	0.63	108	0.115	<20	2.05	0.016	0.12	1.9	0.02	2.5	0.3	<0.05	6	1.0
L65200N 66550E	Soil	0.064	16	45	0.59	84	0.122	<20	3.54	0.016	0.11	0.7	0.07	3.2	0.2	<0.05	7	1.5
L65200N 66500E	Soil	0.060	10	30	0.44	75	0.085	<20	1.45	0.012	0.09	0.8	0.03	1.9	0.1	<0.05	5	0.7
L65200N 66450E	Soil	0.075	2	6	0.23	74	0.003	<20	0.21	0.011	0.01	<0.1	0.08	0.4	<0.1	0.29	<1	11.0
L65200N 66400E	Soil	0.074	10	47	0.67	71	0.108	<20	2.86	0.016	0.06	0.2	0.04	2.3	<0.1	0.07	7	2.3
L65200N 66350E	Soil	0.103	4	99	14.38	105	0.013	<20	0.88	0.004	0.02	0.2	0.10	7.0	<0.1	0.08	2	3.8
L65200N 66300E	Soil	0.163	16	31	0.22	135	0.045	<20	1.32	0.005	0.06	0.2	0.06	2.8	<0.1	0.10	4	2.1
L65200N 66250E	Soil	0.059	5	10	0.08	32	0.036	<20	1.12	0.017	0.02	<0.1	0.06	0.6	<0.1	0.06	2	4.4
L65200N 66200E	Soil	0.073	15	1	0.03	38	0.021	<20	0.28	0.007	0.03	<0.1	0.02	0.8	<0.1	<0.05	4	1.7
L65200N 66150E	Soil	0.063	19	34	0.28	159	0.052	<20	1.65	0.008	0.09	0.2	0.03	2.9	0.1	<0.05	6	2.9
L65200N 66100E	Soil	0.173	16	33	0.33	114	0.045	<20	1.58	0.007	0.12	0.2	0.03	2.3	0.1	<0.05	4	1.9
L65200N 66050E	Soil	0.135	13	47	0.52	135	0.065	<20	1.97	0.007	0.11	0.3	0.05	2.3	0.1	<0.05	5	1.4
L65200N 66000E	Soil	0.157	12	30	0.44	120	0.050	<20	1.99	0.006	0.07	0.4	0.05	2.0	<0.1	<0.05	4	1.4
L65200N 65950E	Soil	0.214	10	26	0.17	109	0.052	<20	1.70	0.005	0.05	0.4	0.03	1.5	<0.1	<0.05	6	0.9
L65200N 65900E	Soil	0.126	13	36	0.51	110	0.074	<20	1.95	0.006	0.12	0.4	0.05	2.9	0.1	<0.05	5	2.1
L65200N 65850E	Soil	0.152	10	39	0.41	134	0.065	<20	2.28	0.005	0.10	0.4	0.07	2.2	0.1	<0.05	6	2.1
L65200N 65800E	Soil	0.224	13	56	0.54	162	0.063	<20	2.73	0.007	0.08	0.3	0.07	2.5	0.1	<0.05	6	1.2
L65200N 65750E	Soil	0.258	11	31	0.25	106	0.050	<20	1.74	0.005	0.06	0.4	0.04	1.8	0.1	<0.05	5	1.6
L65200N 65700E	Soil	0.100	13	28	0.34	77	0.052	<20	1.41	0.003	0.09	0.4	0.02	1.6	0.1	<0.05	5	1.1
L65200N 65650E	Soil	0.123	14	40	0.40	92	0.055	<20	1.62	0.005	0.06	1.5	0.03	1.8	<0.1	<0.05	5	1.3
L65200N 65600E	Soil	0.217	10	35	0.26	142	0.038	<20	1.70	0.006	0.05	0.1	0.05	1.6	0.1	<0.05	5	1.0
L65200N 65550E	Soil	0.109	19	23	0.25	86	0.014	<20	1.08	0.003	0.07	0.2	0.02	1.4	0.1	<0.05	4	1.3
L65200N 65500E	Soil	0.161	9	37	0.34	85	0.056	<20	1.93	0.005	0.06	0.1	0.04	1.6	<0.1	<0.05	7	0.9

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CERTIFICATE OF ANALYSIS

VAN09004114.1

Method	WGHT	1DX	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	
L65400N 65250E	Soil	5.6	36.9	14.5	200	1.2	40.1	7.1	269	3.01	22.9	0.6	1.5	2.7	6	0.4	1.4	0.3	38	0.04	
L65400N 65300E	Soil	3.5	16.2	9.2	80	0.5	18.6	5.6	134	1.84	9.3	0.4	1.2	1.8	6	0.5	0.7	0.2	29	0.04	
L65400N 65350E	Soil	3.0	16.4	12.3	165	1.6	20.4	5.8	109	2.14	10.6	0.5	3.1	3.2	15	1.5	0.6	0.2	34	0.11	
L65400N 65400E	Soil	2.0	10.6	9.2	96	0.3	18.0	6.2	205	2.04	7.5	0.4	4.0	2.8	25	0.9	0.4	0.2	31	0.23	
L65400N 65450E	Soil	3.1	20.6	11.0	141	0.6	33.4	10.8	186	3.01	10.4	0.6	1.2	4.5	17	1.0	0.5	0.2	38	0.16	
L65400N 65500E	Soil	7.6	30.0	15.2	180	1.3	40.0	10.6	368	3.12	16.6	0.7	1.6	4.0	15	0.9	1.1	0.3	34	0.15	
L65400N 65550E	Soil	6.0	27.5	21.6	164	1.1	39.5	12.8	286	4.51	26.5	0.8	4.0	5.1	9	1.0	1.1	0.4	42	0.05	
L65400N 65600E	Soil	4.5	23.8	13.3	150	0.8	51.6	13.8	247	3.08	13.9	1.8	2.8	5.0	24	1.4	0.7	0.3	32	0.20	
L65400N 65650E	Soil	6.5	23.0	14.6	214	0.8	46.1	12.7	301	3.49	14.1	0.8	1.6	2.7	9	1.8	0.5	0.3	37	0.07	
L65400N 65700E	Soil	14.6	24.5	18.1	181	0.3	38.5	8.4	171	3.24	37.1	1.1	3.1	2.0	15	1.1	1.6	0.4	47	0.12	
L65400N 65750E	Soil	9.1	38.1	13.6	147	0.6	59.1	12.9	210	3.37	18.2	0.9	4.5	3.5	18	0.7	0.8	0.3	39	0.15	
L65400N 65800E	Soil	5.9	21.2	15.7	256	1.0	56.6	14.6	265	4.23	11.7	0.9	1.3	4.4	17	1.7	0.4	0.4	46	0.14	
L65400N 65850E	Soil	8.8	25.6	16.7	174	0.9	39.4	12.7	323	3.71	12.3	0.8	<0.5	4.0	12	1.3	0.5	0.4	35	0.07	
L65400N 65900E	Soil	31.3	42.7	16.3	275	0.3	98.3	12.7	223	4.14	19.3	1.0	4.5	5.2	20	1.9	0.8	0.4	35	0.13	
L65400N 65950E	Soil	13.4	40.6	14.8	149	0.5	69.8	14.3	198	4.10	28.4	0.9	9.0	5.3	13	0.8	1.0	0.4	36	0.09	
L65400N 66000E	Soil	7.1	40.7	11.6	142	0.6	67.2	15.5	227	3.77	32.8	0.9	26.8	5.1	13	0.9	0.9	0.4	33	0.09	
L65400N 66050E	Soil	7.2	35.7	13.2	117	1.1	46.8	11.0	269	3.57	34.4	0.8	10.5	3.1	14	0.7	0.9	0.5	30	0.07	
L65400N 66100E	Soil	14.1	42.0	10.8	188	0.9	77.7	15.3	303	4.05	54.3	1.0	16.9	3.1	23	1.4	1.7	0.4	28	0.14	
L65400N 66150E	Soil	7.7	42.4	13.1	164	0.8	74.1	14.8	221	3.51	58.8	0.8	10.4	4.1	20	1.3	1.6	0.3	34	0.16	
L65400N 66200E	Soil	23.6	36.5	31.5	166	3.9	91.2	11.5	869	4.36	24.6	1.6	11.5	5.9	50	9.9	1.3	0.2	21	0.36	
L65400N 66250E	Soil	5.6	25.6	9.1	131	0.6	55.2	10.1	147	2.59	19.1	0.7	14.2	3.6	17	0.9	0.7	0.2	46	0.14	
L65400N 66300E	Soil	2.0	15.9	9.5	86	0.6	32.0	8.8	185	2.35	10.4	1.3	1.3	2.1	68	1.0	0.3	0.2	36	0.74	
L65400N 66350E	Soil	2.6	19.4	9.1	94	0.5	87.8	17.8	245	3.51	15.6	1.3	2.3	2.8	71	0.8	0.4	0.2	46	0.66	
L65400N 66400E	Soil	1.8	20.8	9.0	86	0.7	41.9	11.9	310	2.93	8.2	2.8	1.6	1.7	89	1.6	0.3	0.3	50	1.02	
L65400N 66450E	Soil	2.6	18.4	8.7	142	0.7	36.9	11.6	222	3.15	7.7	0.7	<0.5	2.9	20	0.9	0.3	0.2	61	0.21	
L65400N 66500E	Soil	2.5	14.7	10.4	61	0.1	40.6	12.1	192	3.13	6.0	0.8	<0.5	3.3	32	0.7	0.3	0.4	62	0.33	
L65400N 66550E	Soil	2.0	21.1	6.8	66	0.3	59.0	11.8	399	2.27	2.3	7.0	0.9	1.7	60	0.4	0.2	0.4	33	0.76	
L65400N 66590E	Soil	3.3	27.1	9.4	74	0.2	73.6	21.7	833	3.36	3.8	7.4	0.8	2.3	30	0.7	0.2	0.7	39	0.34	
L65600N 65100E	Soil	1.9	7.6	6.1	37	0.2	13.6	8.0	265	1.41	9.9	0.2	<0.5	0.9	3	0.1	1.4	0.1	30	0.02	
L65600N 65150E	Soil	3.5	32.1	6.6	75	0.6	22.2	3.6	115	1.40	14.9	0.3	6.2	1.2	14	0.8	2.1	0.2	26	0.15	

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 Report Date: September 27, 2009

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CERTIFICATE OF ANALYSIS

VAN09004114.1

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	
L65400N 65250E	Soil	0.147	10	33	0.40	101	0.018	<20	1.78	0.003	0.05	0.2	0.07	1.6	0.1	<0.05	6	2.0
L65400N 65300E	Soil	0.035	11	22	0.19	66	0.022	<20	1.09	0.004	0.04	0.1	0.03	1.0	<0.1	<0.05	4	0.9
L65400N 65350E	Soil	0.088	12	16	0.16	52	0.049	<20	1.42	0.007	0.05	0.3	0.04	1.1	<0.1	<0.05	6	1.1
L65400N 65400E	Soil	0.101	16	17	0.21	72	0.034	<20	1.11	0.009	0.05	0.2	0.02	1.0	<0.1	<0.05	4	0.5
L65400N 65450E	Soil	0.165	17	30	0.43	82	0.058	<20	1.72	0.005	0.08	0.2	0.03	1.6	0.1	<0.05	5	0.9
L65400N 65500E	Soil	0.148	21	23	0.32	91	0.015	<20	1.62	0.005	0.05	0.1	0.04	1.3	<0.1	<0.05	5	1.4
L65400N 65550E	Soil	0.382	14	30	0.31	103	0.032	<20	2.18	0.005	0.06	0.2	0.07	1.7	<0.1	<0.05	7	1.4
L65400N 65600E	Soil	0.118	14	29	0.31	108	0.062	<20	2.77	0.010	0.10	2.5	0.04	2.5	<0.1	<0.05	6	1.5
L65400N 65650E	Soil	0.194	15	31	0.33	73	0.045	<20	1.52	0.004	0.08	0.3	0.05	1.5	0.1	<0.05	5	1.7
L65400N 65700E	Soil	0.146	11	23	0.13	45	0.029	<20	0.90	0.003	0.03	0.5	0.03	1.2	<0.1	<0.05	4	1.9
L65400N 65750E	Soil	0.157	14	39	0.46	92	0.051	<20	1.82	0.005	0.10	0.3	0.04	2.1	0.1	<0.05	4	1.9
L65400N 65800E	Soil	0.287	13	35	0.35	122	0.053	<20	2.45	0.006	0.08	0.4	0.05	2.0	<0.1	<0.05	7	1.5
L65400N 65850E	Soil	0.226	16	23	0.26	77	0.034	<20	1.84	0.005	0.05	0.2	0.06	1.8	<0.1	<0.05	6	1.5
L65400N 65900E	Soil	0.125	18	18	0.18	125	0.015	<20	1.28	0.004	0.06	0.3	0.03	2.2	0.2	<0.05	3	2.6
L65400N 65950E	Soil	0.091	17	20	0.26	92	0.035	<20	1.56	0.005	0.07	0.3	0.04	2.1	<0.1	<0.05	4	2.4
L65400N 66000E	Soil	0.123	17	28	0.37	116	0.050	<20	1.56	0.006	0.11	0.4	0.03	2.3	0.1	<0.05	4	1.6
L65400N 66050E	Soil	0.120	16	21	0.24	96	0.031	<20	1.12	0.005	0.05	0.2	0.03	1.6	<0.1	<0.05	4	2.0
L65400N 66100E	Soil	0.157	12	21	0.17	127	0.022	<20	1.33	0.005	0.05	0.2	0.04	1.9	0.1	<0.05	3	3.2
L65400N 66150E	Soil	0.108	15	41	0.43	110	0.052	<20	1.93	0.005	0.08	0.3	0.05	2.3	0.1	<0.05	4	2.1
L65400N 66200E	Soil	0.239	15	15	0.12	96	0.017	<20	1.30	0.004	0.03	0.2	0.07	6.3	0.1	<0.05	1	3.0
L65400N 66250E	Soil	0.103	13	34	0.38	124	0.076	<20	1.55	0.007	0.06	0.3	0.04	1.9	<0.1	<0.05	5	1.6
L65400N 66300E	Soil	0.045	11	30	0.31	86	0.074	<20	1.68	0.013	0.05	0.2	0.03	2.0	<0.1	<0.05	4	1.2
L65400N 66350E	Soil	0.040	14	126	1.33	79	0.092	<20	1.86	0.031	0.06	0.2	0.02	2.5	<0.1	<0.05	5	2.3
L65400N 66400E	Soil	0.057	14	47	0.64	84	0.088	<20	2.02	0.018	0.05	0.2	0.03	2.5	<0.1	<0.05	5	2.1
L65400N 66450E	Soil	0.243	8	43	0.54	105	0.106	<20	3.10	0.007	0.07	0.6	0.09	2.2	<0.1	<0.05	6	0.9
L65400N 66500E	Soil	0.072	9	45	0.59	70	0.110	<20	2.19	0.009	0.05	8.4	0.02	2.3	<0.1	<0.05	6	0.8
L65400N 66550E	Soil	0.069	15	41	0.68	92	0.084	<20	1.56	0.015	0.16	4.8	0.03	2.0	0.2	<0.05	4	3.0
L65400N 66590E	Soil	0.063	25	50	0.73	106	0.111	<20	2.24	0.015	0.21	1.6	0.04	2.9	0.3	<0.05	6	3.1
L65600N 65100E	Soil	0.025	3	35	0.11	32	0.044	<20	0.83	0.008	0.02	0.1	0.03	0.8	<0.1	<0.05	4	<0.5
L65600N 65150E	Soil	0.026	6	9	0.08	65	0.012	<20	0.43	0.004	0.04	<0.1	0.03	0.5	<0.1	<0.05	3	2.8

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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
L65600N 65200E	Soil	4.4	14.9	8.2	61	0.2	15.6	6.8	393	1.55	9.6	0.3	4.9	1.1	4	0.2	0.7	0.2	35	0.05
L65600N 65250E	Soil	2.5	13.3	7.7	81	0.7	20.5	4.6	134	1.68	5.2	0.3	1.3	1.3	4	0.3	0.3	0.2	34	0.04
L65600N 65300E	Soil	4.3	70.1	13.2	114	0.9	84.1	16.5	692	2.77	25.1	1.4	4.4	2.0	29	1.6	0.6	0.3	34	0.27
L65600N 65350E	Soil	5.1	27.8	12.6	112	0.4	45.4	10.4	188	3.67	9.3	0.7	4.1	4.3	8	0.5	0.4	0.3	45	0.08
L65600N 65400E	Soil	2.2	13.9	13.7	63	1.7	11.6	3.8	116	2.06	4.7	0.4	2.0	3.9	6	0.8	0.3	0.3	26	0.04
L65600N 65450E	Soil	0.7	1.6	4.9	11	0.3	2.1	0.9	80	0.40	1.2	0.2	15.0	1.1	4	0.1	<0.1	0.2	14	0.09
L65600N 65500E	Soil	4.1	19.2	11.1	91	0.5	40.1	9.5	139	2.55	11.7	0.5	13.2	4.2	10	0.4	0.6	0.3	30	0.11
L65600N 65550E	Soil	5.4	20.0	8.9	172	0.3	40.3	10.0	222	2.41	10.3	0.8	1.9	2.6	18	1.8	0.7	0.2	33	0.22
L65600N 65600E	Soil	4.3	30.1	13.9	144	0.6	57.0	17.3	351	3.26	9.9	2.9	3.3	3.9	33	1.8	0.5	0.3	41	0.45
L65600N 65650E	Soil	2.2	15.5	8.0	116	0.5	26.7	7.2	150	2.12	6.8	0.6	8.5	3.6	9	0.7	0.3	0.2	28	0.12
L65600N 65700E	Soil	9.1	28.8	14.1	226	0.5	56.3	10.8	205	3.90	14.2	0.9	29.8	3.6	13	1.1	0.6	0.3	47	0.15
L65600N 65750E	Soil	5.0	22.5	10.4	125	1.2	43.4	10.4	183	3.01	11.4	0.6	3.4	2.8	18	0.7	0.6	0.2	37	0.22
L65600N 65800E	Soil	2.4	5.6	5.4	37	0.5	9.3	2.8	79	1.03	2.2	0.2	<0.5	1.4	7	0.3	0.1	0.2	21	0.08
L65600N 65850E	Soil	14.6	44.9	16.1	155	0.3	76.5	18.4	512	4.27	21.4	0.9	6.0	2.5	21	1.3	0.7	0.4	37	0.22
L65600N 65900E	Soil	5.1	6.3	9.7	79	0.4	15.6	4.1	179	1.71	4.9	0.3	0.8	1.5	11	0.7	0.2	0.2	26	0.08
L65600N 65950E	Soil	12.2	40.0	11.3	136	0.9	71.0	13.6	274	3.31	29.4	0.9	16.8	4.1	15	0.8	1.2	0.4	27	0.12
L65600N 66000E	Soil	9.7	46.4	13.7	151	1.3	73.3	14.3	265	4.17	35.2	1.0	30.0	4.0	14	0.9	1.2	0.5	31	0.11
L65600N 66050E	Soil	7.3	24.4	9.3	114	0.7	49.8	11.7	180	2.70	20.6	0.8	84.3	4.5	13	0.6	0.7	0.3	31	0.09
L65600N 66100E	Soil	15.6	57.3	13.5	275	1.5	105.3	16.0	289	3.81	59.8	1.2	18.3	4.1	25	1.7	3.2	0.3	36	0.19
L65600N 66150E	Soil	7.7	16.4	14.5	182	1.1	35.2	7.3	220	3.57	22.1	0.7	2.2	2.8	25	2.4	0.8	0.3	40	0.23
L65600N 66200E	Soil	12.5	36.8	13.5	194	0.7	72.2	9.1	292	3.19	49.2	1.0	5.8	3.6	18	1.6	1.7	0.3	36	0.16
L65600N 66250E	Soil	11.3	51.2	9.3	216	0.7	131.4	15.5	199	3.19	73.0	1.0	15.4	4.0	29	2.5	1.9	0.3	37	0.26
L65600N 66300E	Soil	3.2	9.2	10.8	133	0.5	25.9	9.2	379	2.21	6.4	0.4	0.6	1.4	29	0.9	0.3	0.2	45	0.38
L65600N 66350E	Soil	19.9	63.0	20.4	289	0.5	113.1	14.7	330	4.24	6.2	2.7	4.2	4.0	16	1.6	0.4	0.1	32	0.20



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Project: DL
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CERTIFICATE OF ANALYSIS

VAN09004114.1

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	
L65600N 65200E	Soil	0.031	8	10	0.05	40	0.032	<20	0.44	0.005	0.03	0.1	0.02	0.4	<0.1	<0.05	4	<0.5
L65600N 65250E	Soil	0.044	8	16	0.11	48	0.030	<20	0.91	0.005	0.03	0.1	0.03	0.6	<0.1	<0.05	4	<0.5
L65600N 65300E	Soil	0.049	22	30	0.43	102	0.034	<20	1.58	0.007	0.07	0.2	0.05	1.8	<0.1	<0.05	4	1.1
L65600N 65350E	Soil	0.049	16	41	0.53	96	0.056	<20	2.18	0.005	0.08	0.2	0.04	1.6	0.1	<0.05	6	1.1
L65600N 65400E	Soil	0.116	16	15	0.14	57	0.011	<20	1.08	0.005	0.03	<0.1	0.05	0.6	<0.1	<0.05	5	0.6
L65600N 65450E	Soil	0.014	15	4	0.02	17	0.019	<20	0.35	0.005	0.03	<0.1	<0.01	0.1	<0.1	<0.05	4	<0.5
L65600N 65500E	Soil	0.109	13	23	0.27	61	0.037	<20	1.11	0.003	0.06	0.3	0.03	1.2	<0.1	<0.05	4	0.9
L65600N 65550E	Soil	0.057	14	26	0.31	59	0.051	<20	1.13	0.006	0.09	0.2	0.01	1.3	0.1	<0.05	4	0.8
L65600N 65600E	Soil	0.095	20	36	0.47	122	0.068	<20	1.63	0.012	0.16	0.9	0.02	2.9	0.2	<0.05	5	1.3
L65600N 65650E	Soil	0.090	18	23	0.29	49	0.046	<20	1.00	0.004	0.09	0.2	0.02	1.2	<0.1	<0.05	4	0.5
L65600N 65700E	Soil	0.084	16	38	0.42	86	0.058	<20	1.77	0.006	0.08	0.3	0.03	1.7	0.1	<0.05	7	2.3
L65600N 65750E	Soil	0.157	13	32	0.33	84	0.049	<20	1.50	0.004	0.08	0.8	0.04	1.4	0.1	<0.05	5	1.1
L65600N 65800E	Soil	0.033	8	9	0.08	21	0.029	<20	0.34	0.006	0.03	0.1	0.02	0.4	<0.1	<0.05	3	<0.5
L65600N 65850E	Soil	0.129	15	33	0.44	102	0.034	<20	1.58	0.004	0.11	0.3	0.03	1.9	<0.1	<0.05	5	1.8
L65600N 65900E	Soil	0.118	7	8	0.04	73	0.020	<20	0.51	0.005	0.03	<0.1	0.03	0.5	<0.1	<0.05	3	<0.5
L65600N 65950E	Soil	0.094	14	21	0.24	97	0.035	<20	1.04	0.003	0.07	0.2	0.02	1.8	<0.1	<0.05	3	2.3
L65600N 66000E	Soil	0.141	13	28	0.33	84	0.036	<20	1.25	0.003	0.08	0.3	0.03	1.9	0.1	<0.05	4	2.8
L65600N 66050E	Soil	0.085	14	21	0.16	97	0.030	<20	1.29	0.006	0.07	0.2	0.03	1.6	0.1	<0.05	4	1.3
L65600N 66100E	Soil	0.180	11	29	0.19	107	0.040	<20	1.37	0.006	0.07	0.4	0.04	2.5	0.1	<0.05	3	5.7
L65600N 66150E	Soil	0.476	7	26	0.13	106	0.052	<20	1.72	0.005	0.06	0.4	0.07	1.4	0.1	<0.05	6	1.8
L65600N 66200E	Soil	0.263	10	27	0.14	117	0.038	<20	0.88	0.005	0.07	0.3	0.02	2.0	0.1	<0.05	4	4.2
L65600N 66250E	Soil	0.096	12	30	0.31	129	0.043	<20	1.41	0.006	0.07	2.5	0.03	2.1	0.1	<0.05	3	4.4
L65600N 66300E	Soil	0.118	5	24	0.25	88	0.085	<20	1.41	0.009	0.05	0.1	0.03	1.1	<0.1	<0.05	5	0.6
L65600N 66350E	Soil	0.173	12	23	0.22	86	0.023	<20	1.51	0.003	0.04	0.2	0.06	2.7	0.1	<0.05	2	2.9



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Project: DL
Report Date: September 27, 2009

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QUALITY CONTROL REPORT

VAN09004114.1

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																				
L64200N 66300E	Soil	1.8	16.6	11.8	94	0.9	31.6	9.5	361	3.72	16.8	0.7	2.7	4.1	10	0.5	0.5	0.3	47	0.10
REP L64200N 66300E	QC	1.6	16.6	12.1	95	0.8	30.5	9.3	367	3.66	16.9	0.7	2.2	4.0	10	0.6	0.5	0.3	47	0.10
L66400N 66650E	Soil	1.4	18.6	11.7	98	0.7	22.0	8.9	268	2.40	13.8	0.5	2.6	3.9	6	0.4	0.4	0.3	30	0.07
REP L66400N 66650E	QC	1.4	19.0	11.8	100	0.8	22.8	9.5	271	2.47	13.9	0.5	1.7	3.9	7	0.4	0.4	0.3	31	0.07
L64600N 66050E	Soil	2.3	24.3	8.1	109	0.3	56.4	14.0	256	2.65	13.3	0.6	4.0	3.8	23	0.6	0.8	0.2	47	0.24
REP L64600N 66050E	QC	2.4	23.9	7.8	110	0.3	53.9	14.0	252	2.74	12.6	0.5	1.3	3.7	23	0.6	0.9	0.2	46	0.25
L65400N 65950E	Soil	13.4	40.6	14.8	149	0.5	69.8	14.3	198	4.10	28.4	0.9	9.0	5.3	13	0.8	1.0	0.4	36	0.09
REP L65400N 65950E	QC	13.5	40.5	15.3	146	0.5	69.3	13.9	198	3.99	28.5	1.0	67.0	5.4	13	0.9	1.0	0.4	35	0.09
L65600N 65450E	Soil	0.7	1.6	4.9	11	0.3	2.1	0.9	80	0.40	1.2	0.2	15.0	1.1	4	0.1	<0.1	0.2	14	0.09
REP L65600N 65450E	QC	0.7	1.6	5.2	12	0.2	2.4	1.0	85	0.40	1.2	0.2	5.8	0.9	4	<0.1	<0.1	0.2	14	0.09
Reference Materials																				
STD DS7	Standard	20.1	111.8	67.2	409	0.8	58.7	9.0	595	2.36	49.0	4.5	51.1	3.8	64	6.5	4.9	4.4	84	0.88
STD DS7	Standard	21.4	109.4	71.1	402	0.8	58.0	9.8	619	2.44	53.3	4.6	76.8	4.3	71	6.5	5.1	4.7	84	0.98
STD DS7	Standard	22.2	112.2	72.7	415	0.9	56.8	9.7	610	2.41	54.5	4.6	51.2	4.5	69	6.6	5.0	4.7	86	0.93
STD DS7	Standard	19.2	101.4	69.7	391	0.8	52.7	9.4	587	2.30	51.2	4.4	46.9	3.9	63	6.0	4.5	4.5	83	0.90
STD DS7	Standard	20.8	101.3	68.4	396	0.8	61.1	9.8	614	2.38	46.6	4.8	57.8	4.1	64	5.9	4.5	4.4	86	0.96
STD OREAS45PA	Standard	0.8	625.2	17.3	118	0.2	289.5	109.7	1049	16.25	4.0	1.1	39.4	6.0	14	<0.1	<0.1	0.2	213	0.23
STD OREAS45PA	Standard	0.9	632.1	18.1	121	0.3	298.7	108.5	1075	16.92	4.5	1.1	36.4	6.2	14	<0.1	0.1	0.2	217	0.24
STD OREAS45PA	Standard	0.9	629.2	18.1	122	0.3	288.1	113.4	1130	17.44	4.3	1.1	37.4	5.9	14	<0.1	<0.1	0.1	226	0.24
STD OREAS45PA	Standard	0.8	607.1	18.2	113	0.3	283.1	106.5	1071	16.55	4.2	1.0	41.5	6.0	14	0.1	<0.1	0.2	217	0.24
STD OREAS45PA	Standard	1.0	595.0	17.5	110	0.3	279.7	109.0	1075	15.92	3.9	1.1	40.1	6.1	12	0.1	0.2	0.2	236	0.24
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected		0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	43	6	14	0.09	0.13	0.18	221	0.2411
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
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



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QUALITY CONTROL REPORT

VAN09004114.1

Method	1DX	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	
Pulp Duplicates																		
L64200N 66300E	Soil	0.230	14	34	0.31	100	0.064	<20	1.74	0.008	0.05	0.3	0.05	1.8	<0.1	<0.05	6	0.8
REP L64200N 66300E	QC	0.233	14	35	0.32	102	0.062	<20	1.82	0.005	0.05	0.3	0.05	1.9	<0.1	<0.05	6	<0.5
L66400N 66650E	Soil	0.052	12	19	0.20	64	0.058	<20	0.86	0.005	0.04	0.2	0.03	1.1	<0.1	<0.05	5	<0.5
REP L66400N 66650E	QC	0.051	12	20	0.19	64	0.058	<20	0.89	0.004	0.04	0.2	0.02	1.2	<0.1	<0.05	5	0.5
L64600N 66050E	Soil	0.182	13	68	0.65	97	0.076	<20	1.48	0.007	0.07	0.2	0.02	1.8	<0.1	<0.05	4	0.7
REP L64600N 66050E	QC	0.180	14	66	0.64	99	0.077	<20	1.47	0.007	0.07	0.2	0.02	1.8	<0.1	<0.05	4	1.0
L65400N 65950E	Soil	0.091	17	20	0.26	92	0.035	<20	1.56	0.005	0.07	0.3	0.04	2.1	<0.1	<0.05	4	2.4
REP L65400N 65950E	QC	0.091	16	25	0.26	91	0.035	<20	1.49	0.005	0.07	0.3	0.04	2.2	<0.1	<0.05	4	2.5
L65600N 65450E	Soil	0.014	15	4	0.02	17	0.019	<20	0.35	0.005	0.03	<0.1	<0.01	0.1	<0.1	<0.05	4	<0.5
REP L65600N 65450E	QC	0.014	15	4	0.02	16	0.019	<20	0.34	0.005	0.03	<0.1	<0.01	0.1	<0.1	<0.05	4	<0.5
Reference Materials																		
STD DS7	Standard	0.077	11	168	1.01	388	0.104	37	0.93	0.083	0.39	3.5	0.18	2.2	4.1	0.21	5	3.2
STD DS7	Standard	0.082	12	172	1.05	412	0.110	39	1.01	0.089	0.42	3.7	0.19	2.2	4.2	0.21	5	3.6
STD DS7	Standard	0.084	12	171	1.02	428	0.105	44	0.96	0.087	0.43	3.4	0.18	2.1	4.4	0.20	4	4.1
STD DS7	Standard	0.072	11	162	0.97	392	0.101	34	0.93	0.083	0.41	3.5	0.18	2.0	4.1	0.19	4	3.5
STD DS7	Standard	0.071	11	192	1.00	391	0.104	38	0.93	0.083	0.43	3.6	0.20	1.9	4.5	0.22	4	3.6
STD OREAS45PA	Standard	0.032	15	825	0.10	185	0.118	<20	3.08	0.011	0.07	<0.1	0.02	40.5	<0.1	<0.05	16	0.6
STD OREAS45PA	Standard	0.034	16	844	0.10	189	0.124	<20	3.24	0.011	0.07	<0.1	0.03	41.3	<0.1	<0.05	17	0.8
STD OREAS45PA	Standard	0.034	15	861	0.10	186	0.120	<20	3.24	0.012	0.08	<0.1	0.02	41.5	<0.1	<0.05	17	0.7
STD OREAS45PA	Standard	0.031	15	832	0.10	174	0.116	<20	3.09	0.011	0.07	<0.1	0.02	39.3	<0.1	<0.05	16	0.8
STD OREAS45PA	Standard	0.030	15	848	0.09	167	0.099	<20	2.87	0.009	0.07	<0.1	0.03	35.3	<0.1	<0.05	16	<0.5
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	43	0.07	0.03	16.8	0.54
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
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

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.