BRITISH COLUMBIA

Ministry of Energy & Mines
Energy & Minerals Division
Geological Survey Branch

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]	TOTAL COST
DIAMOND DRILLING.	$729,665

AUTHOR(S) KYOKO NAKANO SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-1-402 (2007 APR 13) YEAR OF WORK 2007

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S)

PROPERTY NAME RATERIA

CLAIM NAME(S) (on which work was done) RATERIA (513870)

COMMODITIES SOUGHT Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN

MINING DIVISION KAMLOOPS NTS 092I036

LATITUDE 50 ° 21 ' 59 " LONGITUDE 120 ° 57 ' 27 " (at centre of work)

OWNER(S)

1) BRIAN MALAHOFF 2)

MAILING ADDRESS

313-3411 SPRINGFIELD DR
RICHMOND BC

OPERATOR(S) [who paid for the work]

1) HAPPY CREEK MINERALS LTD. 2)

MAILING ADDRESS

2310 - 1066 WEST HASTINGS ST
VANCOUVER, BC, V6E 3X2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

PROPERTY IS UNDERLAIN BY GRANODIORITE, QUARTZ DIORITE & QUARTZ MONZONITE OF THE GUICHON CREEK BATHOLITH. BORNITE, CHALCOCITE & CHALCOPYRITE ARE STRONGLY ASSOCIATED WITH QUARTZ VEINS & PERVASIVE QUARTZ-SERICITE-KAOLINITE ALTERATION.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 27785, 28094, 28875, 26409, 5390, 3709, 1790, 29014, 405c

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core	3,082m; 14 HOLES; NQ	RATERIA.	729,665
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	729,665

MERIDIAN Mapping Ltd
1895 Bay Street, Nanaimo, BC, V9T-3A4
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www.MeridianMapping.ca

DIAMOND DRILLING REPORT

ON THE

Rateria Property

Kamloops Mining Division

NTS 092I.036

Prepared for

HAPPY CREEK MINERALS LTD.
#2310-1066 West Hastings Street
Vancouver, B.C.
V6E 3X2

By

Kiyoko Nakano, B.Sc.
Meridian Mapping Ltd.

April 2008

Summary

The Rateria property is situated within the Highland Valley copper belt, approximately 40 kilometres northwest of Merritt, B.C. Recently updated logging roads, as well as the 10 kilometre proximity to the Valley Copper mine and operating mill, provide reasonable access and infrastructure to the area. The property, having seven cell claims totaling 3,800 hectares, is under option to Happy Creek Minerals Ltd. to earn 100% interest.

Recent and historical drilling indicates the Rateria property is underlain by granodiorite, quartz diorite, quartz monzonite, and crowded quartz feldspar porphyry dykes. These lithologies are tentatively assigned to the Bethsaida, Skeena and Chataway phases of the Upper Triassic - Lower Jurassic Guichon Creek batholith, a multi-phase calc-alkaline intrusion which hosts the Valley Copper and Lornex deposits to the northwest.

Exploration in the area, dating from the 1950's to present, has covered prospecting, soil sampling, regional geochemical surveys, geological mapping, trenching, geophysical surveys, and percussion and diamond drilling. In 1970, shallow percussion holes were drilled on a 2000-foot grid pattern with drill hole 70-D8c intersecting 9.1 metres of 0.57% copper. An induced polarization survey performed on the Rateria property in 2000 identified several through-going structures having weak chargeability and resistivity anomalies. In 2005, a 341 metre diamond drill program was conducted to test IP anomalies from the 2000 survey, and results returned 9.7 metres of 0.063% copper. In addition, a 2005 IP survey indicated northerly trending geophysical features on the property, as well as an east-west elongated IP anomaly. Subsequently, a 2400 metre diamond drill program in 2006, drilled over the 2005 IP anomaly, identified a new zone of copper mineralization containing 94.0 metres of 0.15% copper.

Exploration in 2007 investigated Zone 1 mineralization with a 3082 metre diamond drill program. Mineralized intercepts from this and recent drill programs have provided notable control on the structure and extent of the alteration and mineralization in this zone. From drill hole R07-13, which intersected over 189 metres of 0.22% copper, mineralization was traced north for approximately 600 metres along strike. This mineralized zone may coincide with large-scale regional structures trending north to northwest. Copper minerals, dominantly bornite, chalcocite and chalcopyrite, are strongly associated with quartz veins and pervasive quartz-sericite-kaolinite alteration.

Geology and analytical results from the 2007 diamond drill program suggest a strong association between high grade copper mineralization and a north trending structure on the property.

Table of Contents

Tables

Appendices

1. Introduction

Happy Creek Minerals Ltd. has the option to earn 100% interest in the Rateria property located in the Highland Valley copper district of British Columbia. This assessment report is a summary of the diamond drill program conducted on the property in 2007.

2. Location and Access

The Rateria property is located approximately 40 kilometres northwest of Merritt, British Columbia, and 10 kilometres southeast of the Valley Copper mine, Highland Valley (Figure 1). On NTS map sheet 092I.036, the property is centred on 120^0 57" 27' West longitude and 50^0 21" 59' North latitude. Access to the property from Merritt, B.C., is via highway 8 to Lower Nicola, then north along Aberdeen Road to Pimainus Lake Forest Service road. This all-weather logging road and recently built secondary logging roads transect the property in and around kilometre 34. With relative proximity to the Valley Copper Mine and operating mill, infrastructure in the surrounding area is excellent.

Situated within an upland plateau area of approximately 1400 to 1600 metres elevation, the Rateria property is underlain by a thick blanket of glacio-fluvial sand and gravel. Small lakes, swamps and seasonal creeks occur throughout the property. Forested areas locally contain fir, birch, poplar and spruce, however, lodgepole pine is predominant and pine beetle infestation encourages ongoing logging activity. Characterized by a dry interior climate, the area has burnt and re-grown several times. Temperatures range from –30 to +40 degrees centigrade, and 50-100 cm annual precipitation occurs primarily as snow during the winter.

3. Claim Status

The Rateria property is composed of seven cell claims totaling approximately 3,800 hectares registered in the name of Brian Malahoff (Figure 2, Table 1). In December 2004, an option agreement was signed with Happy Creek Minerals Ltd. whereby the company can earn a 100% interest in the property by paying cash, issuing shares and performing work.

4. History

A historical claim boundary between Chataway Explorations Co. Ltd./King Resources Co., and Pathfinder Resources/International Mogul Mines Ltd. from 1968 to 1974, is presently covered by claims of the Rateria property. During this period, several options took place for which limited data is available. Presumably, the land positions later became amalgamated, at least in part, into Highmont Mining Co., Cominco Ltd., and National Trust Co. By 1999 a large number of claims south of the mines had lapsed and Brian Malahoff staked the Rateria property.

Between 1968 and 1974, the area which presently covers the Rateria property was subject to regional geochemical surveys, soil sampling, geological mapping, low power induced

polarization surveys, bulldozer trenching, road building, and percussion and minor diamond drilling. In 1970 Asarco drilled percussion holes on a 2000-foot grid pattern to test up to 100 feet of bedrock typically with a total depth of approximately 90-120 feet, and locally to a depth of 200 or more feet (Bayley, 1970; Blann, 2007). Percussion hole 70-D8c returned 0.57% copper in the bottom 30 feet of the hole. Two additional percussion holes were drilled 285 metres southwest and 312 metres northeast of 70-D8c to depths of 120 and 200 feet respectively, however, these did not intersect encouraging values (Bayley, 1970; Blann, 2007). In 1972, International Mogul Mines Ltd. drilled four diamond drill holes on the Chataway Exploration Co. property. Drill hole M72-4 was located 45 metres west of 70-D8c and drilled eastward at -45 degrees to a depth of 225 feet (68.6 metres) (Willars, 1972). The deepest sample contained 0.06% copper and strong oxidation as noted in drill logs, indicating that M72-4 may have stopped short of intersecting the mineralized zone noted in 70-D8c (Willars, 1972; Blann, 2007).

Cominco Ltd. optioned the Rateria property in 2000 and petitioned Scott Geophysics of Vancouver, B.C., to conduct an induced polarization survey on the property. Grid lines were oriented east-west with 300 metre spacing, and a pole-dipole array was used with an "a" spacing of 100 metres and "n" separations of 1 to 6. The north and south portions of the property were not covered by the survey, however, several strong through-going structural features comprising weakly anomalous chargeability and resistivity values were identified (Bond, 2000).

The Rateria property was optioned to Happy Creek Minerals Ltd. in December of 2004. Silt geochemistry, GPS surveying of topographic and historical features, and rectifying historical work with current NAD83UTM datum was completed between November 15th, 2004, and March 2nd, 2005. Between July 1st and November 18th, 2005, property work included a 341 metre diamond drill program, 13.5 kilometres of line cutting, and a subsequent 3D induced polarization survey. The two drill holes tested IP anomalies from the 2000 geophysical survey, and consequently DDH05-2 returned 13.8 metres of 0.071% copper and 9.7 metres of 0.063% copper. North of these drill holes, the 2005 IP survey identified an anomaly approximately 1.6 kilometres by 600 metres in dimension. (Blann 2006)

Between August 15th and November 17th, 2006, a 2400 metre diamond drill program was completed in the area of the 2005 induced polarization anomaly. The 14 diamond drill holes were designed to test the central portion of the IP anomaly from west to east (Blann 2007).

5. Regional Geology

The Rateria property is underlain by the Upper Triassic - Lower Jurassic Guichon Creek batholith (198 +/- 8 my; McMillan, CIM Special Volume 15, 1976). This multi-phase calc-alkaline intrusion extends over an area of approximately 1000 square kilometres and is elongated in a north-northwesterly direction. The nearly concentric phases have contacts ranging from gradational to locally sharp or partially brecciated, and are progressively younger and more felsic toward the central core of the batholith, as

indicated by cross cutting relationships (Figure 3). Textural and compositional criteria have been used to characterize the various intrusive phases after Northcote, 1969 (McMillan, 1976).

The oldest phase of the Guichon Creek batholith is the Border or Hybrid phase, a fine- to medium-grained, mafic-rich diorite to quartz diorite, which locally contains xenoliths of amphibolite and monzonite.

The Highland Valley phase consists of Guichon and Chataway varieties. The Guichon variety is a quartz diorite to granodiorite, typically containing 15% mafic minerals of uneven distribution. The Chataway variety is a hornblende granodiorite normally containing 12% evenly distributed mafic minerals.

The Bethlehem phase, a fine- to medium-grained granodiorite with approximately 8% mafic minerals, is characterized by amoeboid quartz crystals and several percent poikilitic hornblende crystals. The Skeena variety of granodiorite is texturally similar to the Bethlehem phase, but is distinguished by its coarser grain size, slightly lower mafic content, and subhedral to anhedral quartz.

The youngest intrusive phase of the Guichon Creek batholith is the Bethsaida, having a biotite +/- hornblende quartz monzonite to granodiorite composition, and containing approximately 6% mafic minerals, predominantly coarse-grained euhedral biotite books. The core of the Guichon Creek batholith is within a regional magnetic low (Figure 4).

A porphyry dyke swarm extending northward from Highland Valley cuts Bethlehem granodiorite, and to the south, dykes and small plugs of porphyry cut the Skeena variety. Some of these porphyries appear to be offshoots or derivatives of the Bethsaida phase (McMillan, 1976).

Alkaline and felsic volcanic dikes, flows and tuffs of Eocene-Miocene age cut the Guichon Creek batholith rocks. During glaciation, portions of the Tertiary and older rocks were eroded, and between one and upwards of 30 metres thickness of till, glaciofluvial and lacustrine cover was deposited toward a 165^0 azimuth.

North of Highland Valley, the large copper +/- molybdenum deposits are generally associated with the dyke swarm or occur within the contact zone of Bethsaida phase and related dykes. South of Highland Valley, however, deposits appear to post-date the Bethsaida phase rocks.

Dominant ore-controlling fracture sets at the Valley and Lornex deposits trend north-northwest to northeast and locally east-southeast. The north trending Lornex Fault cuts the length of the Guichon Creek batholith with a moderate to steep west dip and has a dextral sense slip. This fault apparently truncates the Lornex and Valley Copper deposits on the west and east respectively. Sulphide mineralization is strongly associated with veins, fractures, faults and/or breccias.

In Highland Valley deposits, potassic alteration is variably developed and hydrothermal biotite or k-feldspar may be fracture-controlled, flooded and veined. Phyllic alteration is typified by quartz and flakey sericite ($2M_1$ muscovite; McMillan, 1976) occurring in fracture-associated zones or as vein envelopes. In argillic zones, which often extend extensively beyond the mineralized zones, feldspars and locally mafic minerals are altered to sericite and kaolinite +/- montmorillonite. Sericite, carbonate and clay alteration of feldspars, as well as chlorite-carbonate alteration of mafic minerals is characteristic of propylitic alteration. Calcite and zeolites occur primarily as late-stage veins and fracture coatings.

Sulphide zoning is common in Highland Valley deposits with bornite as the predominant sulphide, followed by chalcopyrite, and then outward to pyrite. Main hypogene copper sulphides include chalcopyrite, bornite and minor digenite. Topographically above hypogene mineralization, supergene enriched zones may contain limonite, malachite, chalcocite, native copper and occasionally tenorite. Pyrite occurs in a propylitic fringe to potassic alteration zone generally in concentrations less than 1%. Distribution and concentration of molybdenite is highly variable throughout the Highland Valley deposits, with economically significant occurrences having similar distribution as that of the copper.

6. Property Geology

Rock outcrops comprise less than 5% of the Rateria property and occur in limited exposures such as creek beds, abandoned melt-water channels and locally flanks and crests of hills. Although bulldozer trenching was apparently widespread during the 1970's, the seven to 30 metre thickness of glacial deposits limited trenching effectiveness, therefore property geology is largely derived from recent and historical drilling and from scattered outcrops.

The western portion of the property is underlain by quartz rich, mafic poor intrusive rocks of quartz diorite, granodiorite and quartz monzonite composition, likely of the Bethsaida phase. Adjacent to these rocks, along a northerly trending contact to the east, are medium-grained granodiorite and biotite quartz diorite interpreted as the Skeena variety. Further east, a north striking contact occurs between the Skeena variety and medium- to coarse-grained granodiorite of the Chataway variety. Dykes and small plugs of quartz monzonite, aplite, quartz and feldspar porphyry, and crowded quartz-K-feldspar porphyry occur locally.

Detailed logging of drill core has revealed areas of strong to intense fracturing and shearing over intervals of 10 to 100 metres. Strong alteration is widespread in intensely fractured zones, however, alteration intensity is locally independent of the degree of fracturing. Trace to local 5% bornite, chalcocite and lesser chalcopyrite occur in moderately to strongly sericitized zones, commonly with kaolinite, calcite and quartz flooding.

7. 2007 Exploration

In 2007 a two-phase diamond drill program was conducted on the Rateria property, with 1706 metres drilled in eight holes between April 25th and June 12th by Glen's Drilling Ltd., and 1376 metres drilled in six holes between November 10th and December 14th by DJ Drilling Ltd. (Figure 5). This program was designed to further delineate "Zone 1" mineralization identified in 2006 drilling, and to test the southern extension of this anomalous zone (Figure 6). All 14 diamond drill holes were angled holes oriented either east or west with dips ranging from –45° to –70°, and were NQ-sized. Drill core logs, drill core recovery logs, drill core assay summary, and certificates of analyses are available in Appendices A through D. Cross sections of diamond drill holes are displayed in Figures 7-12 of Appendix E.

Drill sites were generally located in open cut blocks, and uncommonly minor clearing occurred to prepare drill sites. Water was pumped to the drills from nearby water sources when sufficient water supply was available, however, in the late fall a water truck provided by Lower Nicola Backhoe was necessary to haul water to the drill sites. Drill core was logged and sampled on site by personnel of Meridian Mapping Ltd. of Coldstream, B.C. A manual core splitter was utilized to halve the drill core for regular sample intervals and to quarter the core for duplicate samples. Certified standards and duplicate samples were inserted at regular sample intervals by on site personnel for quality control. Remaining core halves, corresponding to each sample, were returned to the core boxes, which are currently stored on the property in a secured sea container. Samples, along with assay tags, were placed in plastic bags and sealed with zap straps. Bagged samples were then placed inside rice bags which were sealed with zap straps and shipped by either Canadian Freightways or Greyhound Courier Express to Acme Analytical Laboratories, Vancouver, B.C. Samples were prepared and analyzed by aqua regia digestion and ICP-ES for 23 elements or ICP-MS for 34 elements. Analytical accuracy and precision were monitored at the laboratory by the analysis of reagent blanks, reference material and replicate samples.

8. Discussion of Results

Situated in the southeast portion of the Guichon Creek batholith, the Rateria property is underlain by granodiorite, quartz diorite, quartz monzonite, and dykes and small plugs of crowded quartz feldspar porphyry. As outcrop comprises less than 5% of the property, much of the geology is interpreted through recent and historical drilling. Lithologies encountered in recent drilling are consistent with the lithologic descriptions in historical literature of Bethsaida and Skeena phases of the intrusion (McMillan, 1976). These are the host lithologies for the Valley and Lornex copper deposits found approximately 10 kilometres northwest of Rateria.

A significant area of interest on the Rateria property, designated as Zone 1, was selected as a focus for the 2007 drill program. In 2005, an induced polarization survey covering the area identified northerly trending geophysical features, as well as anomalous east-west-elongated weak chargeability and resistivity readings. As a preliminary

investigation of the IP anomaly, a series of diamond drill holes in 2006 were placed in and around Zone 1 where encouraging copper values were recovered. The 2007 diamond drill program has provided further constraints on the structural control of the mineralization and alteration characterizing this zone.

Recent drilling strongly suggests a north trending mineralized zone that can be traced for approximately 600 metres along strike. Five of the 2007 diamond drill holes, all of which intersected over 50 metres of 0.22% copper, were collared west of and drilled east across the zone. Drill hole R07-13 contained the greatest mineralized intercept of 189.33 metres of 0.22% copper. Locally much higher grades were encountered, including 37 metres of 0.581% copper in hole R07-11. Alternately, drill holes R07-04 and R07-07 were oriented to the west, with respective holes collared within the zone hitting notable mineralization near surface, and collared east of the zone having intersections at depth. Drill hole R07-06 was drilled outside of and to the west of the targeted area, and did not intersect significant mineralization. An offsetting fault cutting off the zone to the south has been inferred with supporting evidence from holes R07-12 and R07-14, which did not contain favorable copper values.

Approximately 700 metres south of Zone 1, three diamond drill hole sites were selected to test the underlying rocks where weakly anomalous IP values had been documented by previous operators. Analytical results from drill holes R07-01, R07-02 and R07-03 confirmed the lack of significant copper mineralization in this location. Similarly, drill hole R07-08, collared at the R05-02 drill site, did not return noteworthy copper values.

Copper mineralization in drill core is strongly associated with pervasive white to green sericite-clay alteration, commonly within fault zones containing intermittent gouge. Chalcocite and bornite generally occur as fine-grained disseminations having ubiquitous mixing with alteration minerals (sericite – clay +/- hematite). Less frequently, chalcocite, bornite and lesser chalcopyrite occur as blebs within or associated with quartz veins, or are fracture controlled. Where alteration is intense, primary textures become obliterated by quartz flooding and sericitization. A potassic overprint forming salmon pink fracture halos and pervasive alteration occurs locally. Late hematite occurs as coatings on fractures and as granular specularite replacing magnetite.

9. Conclusions and Recommendations

Lithologies and alteration assemblages encountered in the Rateria property's 2007 diamond drill core are similar in composition and occurrence to the Valley Copper and Lornex deposits of the Upper Triassic - Lower Jurassic Guichon Creek batholith. This drill program successfully traced mineralization in Zone 1 for approximately 600 meters, with intercepts up to 189.33 metres of 0.22% copper. Geology and analytical results suggest a linkage between high-grade copper mineralization and a north trending fault structure on the property. Future exploration should further focus on structural controls on mineralization, as well as potential high temperature root zones along strike or at depth.

Respectfully Submitted,

"Kiyoko Nakano"

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Kiyoko Nakano, B.Sc.

10. Statement of Costs

Happy Creek Minerals Ltd.
Rateria Project
Project Expenditures for Assessment
Diamond Drilling
Period: 2007 April 1 - 2008 February 29

Personnel	Days	Rate	Total	
Paul Reynolds, P. Geo. (April 1, 2007 – January 31, 2008)	3.00	650	1,950.00	
Dugald Dunlop, B.Sc. April 1 – December 30, 2007)	4.00	600	2,400.00	
Kiyoko Nakano, B.Sc., GIT (April 1 – June 30, 2007)	53.5	500	26,750.00	
Rob Montgomery, B.Sc. (November 1 – December 31, 2007)	41.25	600	24,750.00	
Sean Bohle (April 1 – June 30, 2007)	21.00	400	8,400.00	
Sean Bohle (November 1 – December 31, 2007)	48.00	425	20,400.00	
John McNeil (April 1 – June 30, 2007)	18.00	375	6,750.00	
Ray Preikschas (November 1 – December 31, 2007)	17.50	375	6,562.50	
Total Personnel				$97,962.50
Diamond Drilling	Metres	Rate	Total	
Glen's Drilling Ltd. (April 1 – June 30, 2007)	1,706	111.29	189,865.89	
DJ Drilling Ltd. (November 1 – December 31, 2007)	1,376	217.72	299,577.22	
Total Diamond Drilling				$489,443.11
Room & board	Mandays	Rate	Total	
	342.25	82.01	28,066.58	$28,066.58
Travel & equipment	206.25	212.49		$43,826.04
Analysis (Acme Labs)				$21,398.94
Data compilation, digitizing, map preparation				$1,695.91
Project Management				$47,272.23
TOTAL PROJECT EXPENDITURES				**$729,665.31**

11. References

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McMillan, W.J. (1976). Geology and Genesis of the Highland Valley Ore Deposits and the Guichon Creek Batholith. *Porphyry Deposits of the Canadian Cordillera, CIM Special Volume, 15*, 85-104.

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Willars, Jack G., P.Eng. (1972). Report on the Geological Survey and Diamond Drilling on the Property of Chataway Explorations Co. Ltd., for International Mogul Mines Limited, AR04050.

12. Statement of Qualifications

I, Kiyoko Nakano, B.Sc., of Kelowna, British Columbia, do hereby certify that:

1) I am a graduate of the University of British Columbia with a Bachelor of Science in Geology in 2006.

2) I am a member of the Association of Professional Engineers and Geoscientists as a Geologist-in-Training (member no. 151322).

3) Since 2003 I have been involved in mineral exploration for copper, lead, zinc, nickel, PGE's, molybdenum, gold, silver, and uranium, and have conducted this work in southern Mexico and throughout Canada.

4) The conclusions within this report are based on property fieldwork conducted in 2007 and from a review of historical literature.

Dated in Kelowna, B.C., April 5, 2008

"Kiyoko Nakano"

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Kiyoko Nakano, B.Sc.

Table 1

Mineral Tenure

Claim	Tenure #	Owner	Mapsheet	Area	Expiry
Rateria	513870	116699	092I.036	1154.2	2014/dec/31
New Rateria	511809	116699	092I.036	144.26	2014/dec/31
Rateria NE	522356	116699	092I.036	494.41	2014/Nov17
Mal	528775	116699	092I.036	494.42	2014/feb/23
Mal 2	528778	116699	092I.036	514.86	2014/feb/23
Rateria North	529011	116699	092I.036	514.8	2014/feb/27
Rateria North-2	529013	116699	092I.036	515.1	2014/feb27

Appendix A

Drill Core Logs

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645943.362	START DATE: April 25, 2007
OVERBURDEN: 21.64 m	UTM-N: 5581154.515	FINISH DATE: May 1, 2007
TOTAL DEPTH: 245.97 m	ELEVATION: 1536.589	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 270	
	DIP: -60	

DOWNHOLE SURVEY		
INSTRUMENT: Acid Test		
DEPTH	AZIMUTH	DIP
245 m		-60

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	21.64	Casing																			
21.64	39.73	Granodiorite	Light grey (speckled w/ black	0			1			1					0.5						21.64-39.75:
		(Bethsaida?)	biotite); medium-coarse-grained;																		~10 fracs/m
			weakly porphyritic (qtz & biot),																		
			local feldspar crowding; 5-10%																		
			biot ("books" to 6mm); 20-25%																		
			qtz (subhedral to 8mm); 60-65%																		
			plag (euhedral to 6mm, average																		
			2-4mm); 10% k-feld (pink, euhed																		
			to 2mm); mnr-1% hbl; mnr-1%																		
			magnetite; chlorite after biot-hbl;																		
			sphene/leucoxene(?) after mag;																		
			Fracs commonly w/ carb +/- chl.																		
			21.64-23.78: orangy brown rust																		
			on fractures.																		
			38.42-38.82: hematite & sphene/				1			2	1				0.5	0.1					
			leucoxene(?) after magnetite;																		
			silica flooding, pervasive calcite &																		
			hematite, muscovite-carbonate																		
			after mafics.																		
39.73	40.17	Gouge		0			1	1	3	4			1								Highly frac'd.
40.17	45.52	Granodiorite	Same as 21.64 to 39.73 m.	0			1			1					0.5						40.17-42.75:
		(Bethsaida?)	Rare amphibolite clast to 3 cm.																		highly frac'd
																					42.75-45.52:

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
																					~10 fracs/m
45.52	48.83	Altered Gd	Pistachio-green to white, strong-	0			1	4	2	5			1			2					45.52-48.83:
			intensely alt'd, predominantly																		~10 fracs/m
			ep & carb, soft, mnr chl-hem-talc.																		
48.83	54.50	Granodiorite	Bleached white-greenish feldspar	0			2			2			1		0.5						~10 fracs/m
		(Bethsaida?)	(60-65%), 20-25% quartz, 10%																		
			k-feldspar, 5-10% biotite, minor-																		
			1% hornblende, minor magnetite,																		
			minor chlorite after mafics, trace																		
			sphene/leucoxene? Pervasive &																		
			fracture carbonate (calcite).																		
54.50	55.70	Silicified	Light pinkish-grey, intense silica	0				1		1	5										>20 fracs/m
		Granodiorite	flooding, local pervasive epidote,																		
			chl alt'n of mnr remnant mafics.																		
55.70	57.00	Granodiorite	Bleached white, strongly clay	0			1		4	2						1					>20 fracs/m
		(Bethsaida?)	altered, common hematite &																		
			pervasive carbonate (calcite),																		
			chlorite after mafics.																		
57.00	57.88	Hematized	Strongly hematized, common	0					1	2						25					>20 fracs/m
		Granodiorite	slicken sides, minor carb & clay.																		
		(dyke?)	Contains gouge near lower																		
			"contact". Predominantly fine-																		
			grained (alteration effect), but																		
			local reminant intrusive textures.																		
57.88	58.60	Granodiorite	Greenish grey, green talc & clay	0			1			2			3		0.1	0.5					~14 fracs/m
		(Bethsaida?)	after feldspar (60-65%), 20-25%																		
			quartz, minor-1% specular hem																		
			to 1mm after magnetite, brown																		
			carb-musc & minor chl after																		
			mafics (5-10%), med-coarse-gr.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
58.60	71.20	Granodiorite	Light grey (speckled w/ black	0			1			1					0.5						~6 fracs/m
		(Bethsaida?)	biot), medium-coarse-grained,																		
			weakly porphyritic (qtz & biot																		
			phenos), 10% pink k-feldspar																		
			(euhedral) to 2mm), 5-10% biot																		
			("books" or clusters to 6mm),																		
			20-25% qtz (subhedral to 6mm),																		
			60-65% plag (euhedral to 6mm,																		
			av 2-4mm), minor-1% hornblende,																		
			minor-1% magnetite, common																		
			chlorite after biotite-hornblende.																		
			Fractures w/ carbonate-chlorite.																		
71.20	72.65	Granodiorite	Medium-grained, light-medium	0			1			2					0.1	0.5					~6 fracs/m
		(Bethsaida?)	greenish-grey alteration of plag																		
			(60-65%), 5% musc-carb altered																		
			mafics, 20-25% quartz, 10% k-																		
			feldspar, minor-1% spec hem to																		
			1mm after mag. Carb fracs/veins.																		
72.65	95.00	Granodiorite	Light grey (speckled w/ black	0			1			1					0.5						~6 fracs/m
		(Bethsaida?)	biotite), medium-coarse-grained,																		dom @ 40-50,
			weakly porphyritic (qtz & biot																		lesser @ 30
			phenos), 10% k-feldspar (pink,																		& 65-70
			euhedral) to 2mm, 5-10% biotite																		
			("books" or clusters to 6mm),																		80.40-80.47:
			20-25% qtz (subhedral to 6mm),																		local fault
			60-65% plag (euhedral to 6mm,																		zone w/ hem'd
			average 2-4mm), minor-1% hbl,																		gouge @ 45
			minor-1% magnetite, chlorite																		
			replaces biotite-hornblende,																		
			fractures with chlorite-carbonate,																		
			trace accessory sphene/leuc?																		
95.00	97.35	Granodiorite	Light greenish grey, med-coarse	0	1		2	1	1	1					0.5	0.5					~6 fracs/m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
		(Bethsaida?)	grained, weakly porphyritic (qtz																		dom @ 45
			& mafic phenos), pale green																		
			alteration of feldspar (clay+/-																		
			ser?+/-ep?) (60-65% plagioclase,																		
			10% k-feldspar), 20-25% quartz,																		
			5-10% biotite>>hornblende (gen-																		
			erally altered to chlorite+/-quartz																		
			& rare pale green sericite), minor																		
			to 1% specular hem after mag.																		
97.35	97.93	Altered	Bleached white w/ reddish purple	0			1			4						5					~6 fracs/m
		Granodiorite	hem banding, strong pervasive																		dom @ 55-60
			carb alt'n (powder has reaction																		
			w/ HCl), 20-25% primary quartz.																		
97.93	132.91	Granodiorite	Light grey to greenish grey,	0			3	1	3	2					0.5	0.5					~12 fracs/m
		(Bethsaida?)	medim-coarse-grained, weakly																		dom @ 40-50,
			porphyritic (qtz & biot phenos),																		lesser @ 20,
			60-65% plagioclase with weak-																		30 & 60.
			moderate greenish clay+/-ep?+/-																		
			ser(?) alteration, 10% pink k-feld																		
			w/ weak clay alteration, 20-25%																		
			quartz, 5-10% mafics (predom-																		
			inantly biotite, minor hornblende)																		
			generally chlorite altered & rare																		
			muscovite-carbonate alteration,																		
			minor-1% magnetite w/ common																		
			specular hemaite replacement.																		
			Common chl-carb+/-hem+/-ep+/-																		
			clay on fracs.																		
			109.50-113.90: moderate fault	0			3		4	2											
			zone containing local patches																		
			of strong clay alteration. Highly																		
			fractured.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
			129.30-130.40: bleached white-	0			1		2	4											
			pale green, strong carb alteration																		
			(powder has reaction w/ HCl).																		
132.91	135.27	Hem-Carb	Bleached white w/ dark purplish-	0	1		1		1	4						5					~12 fracs/m
		Alt'n Zone	red irregular hematite banding,																		dom @ 20-30
			strong pervasive carb alteration																		
			(powder has reaction with HCl),																		
			chlorite &/or sericite alteration of																		
			minor remnant mafics, minor																		
			specular hem after mag.																		
			Common slicken sides on fracs.																		
			Contains 4cm vuggy calcite vein.																		
135.27	164.65	Granodiorite	Light grey to greenish grey,	0	1		2	1	1	2					0.5	3					135.27-147.00:
		(Bethsaida?)	med-coarse-grained, weakly																		~8 fracs/m
			porphyritic (qtz & mafics), rare																		
			local feldspar crowding, weakly-																		147.00-164.65:
			moderately variably altered.																		~15 fracs/m
			60-65% plag (white to pale green																		
			hard xls & brownish green soft																		
			xls), 20-25% quartz (subhedral,																		
			rarely with secondary quartz &																		
			weak grain boundaries), 5-10%																		
			mafics (generally chlorite(ep)+/-																		
			carbonate altered), ~10% k-feld																		
			(local white to pale green alt'n -																		
			relatively hard xls), minor-1%																		
			magnetite w/ specular hem &																		
			trace sphene/leucoxene(?)																		
			replacement. Strong carb (cal)																		
			& hem fractures. One massive																		
			hematite zone to 10cm.																		
			Common chlorite+/-epidote on																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
			fractures. Minor zonations																		
			grading into quartz monzonite.																		
164.65	172.53	Granodiorite	Light grey to greenish white,	0			2	1	1	1			1		0.5	0.1					~12 fracs/m
		(Bethsaida?)	10% k-feld (subhedral-euhedral																		dom @ 30-40
			to 2mm), 60-65% plag (subh-																		& 60-70.
			euhedral av 4mm), 20-25% qtz																		
			(subhedral to 6mm), 5-10% chl																		
			alt'd mafics to 8mm, mnr-1%																		
			mag, feld commonly greenish																		
			white coloured, minor calcite+/-																		
			hem+/-ep fracs. Minor patch w/																		
			clay+/-talc alt'd feldspar.																		
172.53	175.73	Hem-carb	Brownish-purplish red. Some	0			1	3		4						10					~20 fracs/m
		Altered	intervals have fine-grained, dyke-																		dom @ 20-30,
		Granodiorite	like appearance, but contain																		lesser @
			remnant med-coarse-grained																		60-70.
			intrusive textures (granodiorite:																		
			quartz & epidote after mafics).																		
			Predominantly FeOX-carb(cal)-																		
			ep. Microfractured with deep																		
			reddish-brown hematite. One																		
			50cm interval of light greenish																		
			grey, 10% chlorite+/-epidote																		
			altered mafics, predominantly																		
			anhedral qtz (some secondary),																		
			specular hematite & sphene/																		
			leucoxene(?) after magnetite,																		
			hematite-carb+/-epidote on fracs.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
175.73	185.15	Granodiorite	Light grey to greenish grey,	0	1		2								0.5	0.5					~10 fracs/m
		(Bethsaida)	medium-coarse-grained, weakly																		dom @ 35-45,
			porphyritic (qtz & mafic phenos)																		lesser @ 20.
			10% pink k-feldspar to 2mm,																		
			20-25% quartz (subhedral),																		
			5-10% biotite, minor-1% hbl,																		
			60-65% plagioclase, minor-1%																		
			magnetite. Mafics commonly																		
			altered to chlorite, feld locally																		
			altered to light-medium green																		
			(carb & ser?). Common specular																		
			hem after mag & trace sphene/																		
			leuc? Fracs w/ chl-carb+/-hem.																		
			178.55-179.10: pale milky green,						5	4						1					Fracs & mnr
			strongly altered to clay & carb,																		qtz-carb vein
			minor-1% diss hem after mag,																		dom @ 30.
			20-25% anhedral qtz (some																		
			secondary).																		
185.15	191.11	Quartz	Medium pinkish grey, fine-med-	0	1	1	1		1						0.1	0.5			0.01		
		Monzonite	grained, 40-45% orangy-pink																		
			subh-euhedral k-feld to 2mm,																		
			45-50% plag (generally white to																		
			green), 5-15% qtz, minor diss																		
			chl. Local zonations with weak																		
			clay &/or ser alt'n where mag is																		
			typically replaced by hem. Fracs																		
			w/ minor clay-carb+/-v mnr ser.																		
			Possible rare trace chalcocite.																		
			185.90-186.17: patchy white	1											0.1	3					
			quartz w/ orangy-pink pegmatitic																		
			k-feldspar crystals, 3% dissem																		
			specular hematite in vein halo.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
			189.10-189.45: light pinkish grey,				1		1	1						0.1					
			primary textures weak-moderate,																		
			minor clay-carb alteration.																		
			Hairline FeOX stain around (qtz)																		
			crystals & possible trace bornite?																		
191.11	204.30	Quartz	Medium pinkish grey, fine-med-	0	1		1		3	2						0.5		0.01	0.01		~20 fracs/m
		Monzonite	grained, 40-45% orangy-pink k-																		dom @ 60,
			feld (subh-euhedral xls to 2mm),																		lesser @
			5-15% quartz, 45-50% plag																		35-45
			(generally bleached white or																		
			green altered). Weak-moderate																		
			clay+/-carb & minor sericite.																		
			Possible local minor fine-grained																		
			bornite-chalcocite mixed with																		
			sericite in dark spots to 3mm.																		
			Minor disseminated specular																		
			hematite to 1mm after magnetite.																		
204.30	205.30	Alt'd Qtz	Light milky green, weak primary	1					1	3	2					0.1					
		Monzonite	textures, fine-medium-grained,	(patchy																	
			weak silica flooding, moderate	white qtz)																	
			pervasive carb-clay alt'n, minor																		
			sharp brownish red dissemina-																		
			tions <1mm (FeOX?).																		
205.30	206.00	Gouge	Pale greenish grey, intensely	0					5	5											
			clay-carb altered, 5% light grey																		
			quartz clasts.																		
206.00	245.97	Quartz	Mottled pink (k-feld) & green	0	1		1		2	2					0.1	0.5					206.00-212.00:
		Monzonite to	(altered feldspar), predominantly																		highly frac'd
		Granodiorite	quartz monzonite locally grading																		
			into granodiorite, porphyritic																		212.00-222.00:
			(quartz & feldspar), leucocratic																		~10 fracs/m
			(no significant mafics), medium-																		dom @ 60,

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld	Talc	Py	Mag	FeOX	Cpy	Bor	Cc		
			grained, generally 40-45% k-feld																		lesser @
			to 2mm, 5-15% quartz to 6mm,																		35-45.
			45-50% plag to 6mm (altered to																		222.00-245.97:
			carb+/-clay), minor<1% dissem																		>20 fracs/m
			specular hem to 1mm after mag.																		dom @ 35-45,
			Fractures with clay+/-carb+/-																		lesser @ 60.
			minor sericite. Trace dissem chl.																		
			~230.00-245.97: rock contains																		
			minor med-dark blueish-green																		
			anhedral mineral to 3mm (type																		
			of clay?, has a fluorite-like																		
			appearance, moderately soft &																		
			powders somewhat chalky).																		
			232.93-233.22: greenish white,		1				2	2	2					0.5	0.01	0.01	0.01		
			weak silica flooding, moderate																		
			clay-carb+/-ser?. Minor dissem																		
			specular hematite after mag.																		
			Possible trace chalcopyrite.																		
			One 1cm area w/ fine-grained																		
			bornite-chalcocite.																		
			237.89-238.56: light greenish		1					4	1						0.1		0.01		
			grey, weak silica flooding, strong																		
			carbonate alteration (powder has																		
			reaction with HCl), minor cpy																		
			disseminated & on 1 frac, minor																		
			fine-grained bor-cc mixed with																		
			sericite in dark spots to 3mm.																		
245.97	245.97	EOH																			

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645763.531	START DATE: May 2, 2007
OVERBURDEN: 21.34 m	UTM-N: 5581158.202	FINISH DATE: May 7, 2007
TOTAL DEPTH: 230.73	ELEVATION: 1537.135	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 270	
	DIP: -55	

DOWNHOLE SURVEY		
INSTRUMENT: Acid Test		
DEPTH	AZIMUTH	DIP
230 m		-55

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	21.34	Casing																			
21.34	37.00	Oxidized	Strong orangy-brown pervasive &	0			1		4	3						0.5					Highly frac'd.
		Granodiorite	fracture rust. Moderate to local																		
		(Bethsaida?)	very strong pervasive & fracture																		
			clay-calcite. Med-coarse-grained,																		
			20-25% qtz, 70-75% altered feld,																		
			local 5-10% chl altered mafics,																		
			mafics generally bleached out,																		
			minor-1% specular hem to 1mm																		
			after magnetite, common MnO																		
			associated with fractures.																		
37.00	80.00	Granodiorite	Light grey to light greenish grey,	0	1		1		3	3					0.1	1					~10 fracs/m
		(Bethsaida?)	medium-coarse-grained, weakly																		dom @ 60 &
			porphyritic (biot & qtz phenos),																		40-45.
			varies from very weak to strongly																		
			altered. The relatively unaltered																		
			rock contains 10% pink k-feld to																		
			2mm (anhedral to subhedral),																		
			20-25% qtz to 6mm (subhedral),																		
			60-65% plag (subh-euhedral to																		
			6mm, av 2-4mm), 5-10% biot																		
			"books" to 6mm, minor mag																		
			blebs to 1mm. Fracs commonly																		
			w/ hem+/-carb+/-lesser chl.																		
			Rare carb veins to 2cm.																		
			In weakly altered rock, mafics																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			are chl altered, mag w/ minor																		
			sphene/leucene? &/or hematite																		
			replacement. Strongly alt'd rock																		
			consists of strong clay-carb+/-																		
			minor ser alt'n of plag+/-k-feld;																		
			mafics either muscovite-carb																		
			altered or blasted.																		
			37.00-48.25: common orangy-																		
			brown rust on fracs & as frac halos.																		
			48.25-80.00: intermittent orangy-																		
			brown rust on fracs.																		
			At 62.15: 1.5cm fine-grained																		Dyke @ 25.
			pinkish tan aplite dyke (approx																		
			composition: 45% k-feld, 40%																		
			qtz, 15% plag, 1% mafics - dom																		
			mag +/-chl).																		
80.00	112.70	Quartz	Light to medium pinkish grey to	82.00-83.00:	2				3	3	2	1?			0.1	0.5		0.01	0.01		~8 fracs/m
		Monzonite	cream-coloured, fine-medium-	5																	dom @ 35-40
			grained, weakly porphyritic																		& 55-60,
			(~5-10% quartz & plag phenos),	92.90-112.70:																	lesser @
			35-40% k-feld, 15-20% quartz,	3																	70-75
			40-50% plag, minor magnetite.																		
			Variably alt'd (predom strong																		
			bleaching), minor specular hem																		
			after mag, plag+/-k-feld is white																		
			clay-carb &/or green ser-clay+/-																		
			carb alt'd. Fractures with minor																		
			orangy-brown rust are occasion-																		
			ally spotted w/ black circular to																		
			irregular spots or dendrites																		
			(<1-3mm) of Cu WAD (scratched																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			w/ HCl leaves native Cu stain on																		
			metal scratch tool). Local trace-																		
			minor fine-grained indistinguish-																		
			able bor-cc mixed with ser in																		
			dark spots to 3mm & discontin-																		
			uous along quartz veins.																		
			Generally silicified proximal to																		
			quartz veins.																		
			80.00-80.70; 3-5% mag blebs to																		
			1mm (commonly hem'd).																		
			Contains 20cm zone w/ white																		
			patchy qtz & large orangy-pink																		
			anhedral-subhedral k-feld xls to																		
			1.5cm.																		
			84.45-84.95: strongly silicified.	2	2				2	3	5					0.1			0.01		
			99.10-101.53: strong hem fracs/	2			2		1	1	2	1?				5					
			103.33-103.48: fine-grained cc													0.1			0.05		
			concentrated in & along qtz vns.																		
			106.95-107.45: notable blotchy													0.1			0.1		
			cc assoc w/ microfracs & quartz-																		
			carb(calcite) veinlets.																		
			At 107.95: malachite & Cu WAD																		
			on fracture.																		
112.70	116.68	Carb Alt'n	Light greenish grey, fine-grained,	0	2				3	5	1					1			0.01		10 fracs/m
		Zone	intensely alt'd, primary textures																		dom @ 30
			obliterated, predominantly carb																		& 50-60
			(cal)-clay+/-ser, local weak silic-																		
			ification, common irregular																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			reddish purple hem patches &																		
			fractures/veins.																		
116.68	126.75	Quartz	Light pinkish-grey to cream-	1	1		1		3	1	1	1?				0.1			0.01	0.01	~10 fracs/m
		Monzonite	coloured, minor anhedral quartz																		(local highly
			phenos to 6mm, overall 25-20%																		frac'd) dom @
			qtz, 35-40% subhedral k-feld to																		55-60 & 35-40
			1mm, 40-50% subhedral plag to																		
			1mm w/ minor phenos to 6mm,																		
			minor-1% spec hem after mag.																		
			Moderately to strongly altered,																		
			feldspar generally white to milky-																		
			green clay altered, locally silic'd																		
			in zones with quartz veinlets,																		
			possible pervasive k-feldspar?																		
			Rare Cu WAD spotted on occa-																		
			sional fracs. Very rare trace cpy																		
			assoc w/ cc-ser. Trace to local																		
			minor fine-grained bor?-cc mixed																		
			w/ sericite in dark spots to 3mm.																		
			Fracs w/ orangy-brown rust-carb																		
			(+/-)very minor chlorite-sericite.																		
			124.55-126.75: strong hematite	3	1				2	2	2	1?				1			0.01		
			fractures & along quartz veins.																		
126.75	128.95	Carb-Silica	Light lime-green w/ irregular	0	2				4	5	2	1?				2					~8 fracs/m
		Alt'n Zone	dark reddish purple hem banding.																		(highly frac'd
			Very strongly alt'd, fine-grained,																		near lower
			primary textures obliterated,																		contact)
			predominantly carb-clay+/-ser?,																		
			possible minor k-feld alteration?																		
128.95	146.63	Quartz	Pinkish grey, fine-med-grained,	0			1		1	1					0.5						128.95-138.00:
		Monzonite	porphyritic (15% quartz & plag																		~10 fracs/m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			phenos to 6mm), weakly alt'd,																		dom @ 30-40
			15-20% quartz, 35-40% k-feld,																		& 60.
			40-50% plag, minor diss mag,																		
			rare trace biot & chl, very local																		138.00-146.63:
			white kaolinite alteration of plag,																		highly frac'd
			plag phenos generally w/ light																		
			green alteration, minor carb-clay																		
			(+/-)orangy-brown rust on fracs.																		
146.63	148.44	Silic'd Zone	Very pale grey to pale greenish		1						5										>20 fracs/m
			grey, very strongly silicified,																		
			predominantly silica w/ alteration																		
			pseudo-clasts of qtz monzonite																		
			(strongly silicified, plag phenos																		
			with green sericite).																		
148.44	230.73	Quartz	Pinkish grey, fine-med-grained,	0	1		1		1	1		1?			0.5						148.44-157.50:
		Monzonite	porphyritic (15-20% qtz & plag																		>20 fracs/m
			phenos to 6mm), minor biotite,																		
			minor diss mag, 15-20% quartz,																		157.50-162.00:
			35-40% k-feldspar, 40-50% plag,																		~10 fracs/m
			weakly alt'd, minor diss chl after																		dom @ 30,
			biot?, plag phenos generally w/																		40 & 60-65
			light green alt'n (clay-ser?), plag																		
			occasionally bleached white																		162.00-167.50:
			(clay-carb), localized moderate																		>20 fracs/m
			pervasive pinkish-cream-coloured																		
			alt'n (k-feld?), fracs generally w/																		167.50-177.00:
			light coating of clay+/-ser+/-carb,																		~10 fracs/m
			very rare qtz veins to 1cm (<1/m).																		dom @ 35-50,
																					lesser @ 60
			At 160.77: 7mm quartz vein @														0.01	0.01	0.01		& 20.
			CAA 30 w/ tr bor, tr cpy? +/- cc?																		
																					177.00-230.73:

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			188.55-189.00: moderately ser'd	2	3					1	3					0.1		0.01	0.01		~6 fracs/m
			w/ minor quartz veins & silic'n;																		dom @ 35-45,
			trace chalcocite+/-bornite.																		lesser @ 20,
																					60 & 70.
			At 211.90: fracture @ CAA 20																		
			with fine-grained dark grey																		
			sulphide (pyrite?).																		
			At 230.30: frac @ 20 w/ vuggy																		
			coating of calcite.																		
230.73	230.73	EOH																			

PROPERTY: Rateria MINING DIVISION: Kamloops CLAIM: OVERBURDEN: 18.29 m TOTAL DEPTH: 239.88 m CORE SIZE: NQ	UTM ZONE: 11 DATUM: NAD83 UTM-E: 645797.367 UTM-N: 5581350.375 ELEVATION: 1549.691 AZIMUTH: 270 DIP: -55	DRILLED FOR: Happy Creek Minerals Ltd. DRILLED BY: Glen's Drilling Ltd. START DATE: May 8, 2007 FINISH DATE: May 13, 2007 LOGGED BY: Kiyoko Nakano	DOWNHOLE SURVEY INSTRUMENT: Acid Test DEPTH: 239 m / AZIMUTH: / DIP: -55

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	18.29	Casing																			
18.29	112.70	Granodiorite	Light grey to greenish grey,	0			1		2	2					0.5	0.5					18.29-22.00:
		(Bethsaida?)	medium-coarse-grained, weakly																		highly frac'd
			porphyritic (qtz & biot phenos),																		
			10% k-feldspar to 2mm, 20-25%																		22.00-39.80:
			quartz to 6mm, 5-10% biot+/-hbl																		~8 fracs/m
			"books" to 6mm, 60-65% plag to																		dom @ 20 &
			6mm (average 2-4mm), minor-1%																		40-50.
			magnetite. Variable weakly to																		
			moderately altered, local strongly																		39.80-50.00:
			altered, feldspar (plag) is generally																		>20 fracs/m
			altered to white to light green																		
			clay-carb+/-ser, biotite altered to																		50.00-61.70:
			either chlorite or muscovite/carb;																		~8 fracs/m
			magnetite generally hematized																		dom @ 20 &
			&/or w/ trace sphene/leucoxene?																		35-45.
			Fractures with carb-chl &/or hem.																		
			Minor quartz & carb (calcite) veins																		61.70-62.50:
			commonly w/ hematite selvages.																		highly frac'd
			In more strongly altered zones,																		
			quartz becomes slightly flooded.																		62.50-96.00:
																					~8 fracs/m
			18.29-24.00: strong pervasive &																		dom @ 30-40,
			fracture rust.																		lesser @ 20
																					& 50.
			59.78-62.88: strongly altered,					3		4		3?				5					
			local weak fabric, primary textures																		96.00-104.00:

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			weak to obliterated, dominantly																		>20 fracs/m
			carb-ep-hem-k-feld?																		
																					104.00-112.70:
			65.00-67.00: minor vuggy fracs																		fracs dom @
			w/ fine xls of gypsum? (clear xls																		35-45 & 60-70
			w/ greenish-blue undertone).																		
			24.00-35.00: common orangy-																		
			brown rust on fracs.																		
			104.00-112.70: trace to minor		3				3	2	1					0.5			0.05		
			fine-grained bornite-chalcocite																		
			(generally indistinguishable)																		
			mixed with sericite in dark spots																		
			to 4mm & discontinuous along																		
			fractures; very local 1% cc within																		
			5cm zones.																		
112.70	154.53	Quartz	Pinkish grey, fine-med-grained,																		112.70-119.00:
		Monzonite	porphyritic (15-20% plag & qtz																		~12 fracs/m
			phenos to 6mm), groundmass																		dom @ 30-40
			<1-3mm xls of k-feld, qtz, plag,																		
			mag & mafics. 35-40% k-feld,																		119.00-121.50:
			15-20% quartz, 40-50% plag,																		highly frac'd
			minor-1% mag/hem, 0-1% biot/																		
			chl. Accumulation of mag (hem)																		121.50-150.50:
			near upper contact.																		~10 fracs/m
																					dom @ 50-55
			112.70-121.20: minor fine-grained	4	3				3	2	2	2?				1	0.01	0.01	0.05		& 30-40.
			chalcocite+/-bornite+/-trace cpy																		
			mixed with sericite in dark spots																		150.50-154.53:
			to 4mm and discontinuous along																		highly frac'd
			fractures & quartz veins. Zone																		
			dominated by moderate alt'n:																		Quartz veins
			k-feld w/ weak clay, plag w/ mod																		variable.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			green sericite-carb-clay+/-quartz,																		
			mag strongly hem'd, possible																		
			weak pervasive k-feld alteration?																		
			Fracs w/;minor ser-clay-carb,																		
			common discontinuous strong																		
			hematite fractures/veins often																		
			associated with quartz.																		
			121.20-154.53: generally weak	0-1	2				2	1					0.1	0.5	0.01	0.01	0.01		
			to local moderately altered,																		
			k-feld & quartz relatively fresh,																		
			minor mafics are chl'd +/-ser'd,																		
			plagioclase is weakly-moderately																		
			ser-carb-clay altered, magnetite																		
			typically hematized, fractures w/																		
			clay+/-ser+/-carb.Trace to local																		
			minor cpy & fine-grained cc+/-																		
			trace bornite generally mixed w/																		
			sericite in dark spots to 3mm &																		
			discontinuous along fracs/veins.																		
154.53	155.55	Silic'd Zone	Very light grey, strongly silic'd,	0	2				2	1	4						0.01	0.01	0.05		>20 fracs/m
			remnant feldspar generally alt'd	Strongly																	
			to clay-ser-qtz, minor carb	silicified.																	
			patches/veins, local strong f-gr																		
			cc-bor-cpy discontinuous along																		
			microfracs (overall mnr amounts).																		
155.55	159.35	Quartz	Light to medium pinkish grey,	0-1	2				2	1	2					1					~8 fracs/m
		Monzonite	plagioclase phenocrysts are																		dom @ 50-60
			green sericite-clay altered,																		
			feldspar groundmass is clay+/-																		Cal vein @ 35
			sericite altered & weakly silicified,																		
			minor dissem specular hematite																		
			after mag, minor-1% anhedral																		
			quartz phenos to 6mm, fine-med-																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			grained, porphyritic. Fractures w/																		
			very minor carb-clay+/-sericite.																		
			Rare vuggy calcite vein to 1cm																		
			w/ strong hem halo to 2cm.																		
159.35	160.50	Pink Silic'd	Pale pinkish cream-coloured,	2	1				1	1	4						0.01		0.01		~8 fracs/m
		Zone	moderately-strongly silicified,																		dom @ 50
			primary textures weak, micro-																		
			fracs w/ ser-clay+/-very minor																		
			carb. Trace cc & cpy.																		
160.50	162.10	Silic'd Zone	Cream-coloured +/-irregular	0-10	1				1	1	4					0.01	0.01		0.01		Qtz stringers
			green banding, strong quartz	Strongly																	dom @ 40,
			stringers & silicification, weak	Silicified.																	lesser @ 20
			remnant primary textures, weak																		& 60.
			pervasive clay-carb, local green																		
			fine-grained ser-clay along fracs/																		~6 fracs/m
			veins. Trace-very local minor																		dom @ 30
			cc+/-cpy along microfracs;																		
			trace dissem & fracture hem.																		
162.10	167.40	Quartz	Pinkish grey, fine-med-grained,	0	1				1	1							0.01	0.01	0.01		~6 fracs/m
		Monzonite	porphyritic (15-20% anhedral																		dom @ 40-45
			quartz & subhedral plag phenos																		& 50-55
			to 6mm), 15-20% quartz, 35-40%																		
			k-feld, 40-50% plag. Weak-local																		
			moderately altered: plag phenos																		
			generally altered to light green																		
			very fine-grained sericite-clay or																		
			medium green sericite-carb;																		
			feldspar groundmass with weak																		
			clay-carb alteration, fractures w/																		
			very minor clay-carb+/-ser.																		
			Trace to local minor fine-grained																		
			cc+/-bor+/-cpy mixed with ser																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			in dark spots to 3mm & discont-																		
			inuous along fractures.																		
167.40	168.45	Green Silic'd	Light greenish grey, strongly	3	4				3	1	4								0.01		
		Ser'd Zone	ser-clay-silica altered, weak-mod																		
			primary intrusive textures, anhe-																		
			dral feldspar are weakly clay																		
			altered in a pale green sericite-																		
			silica+/-clay groundmass.																		
168.45	182.62	Quartz	Light pinkish grey, 24-30% qtz	0	1				1	1					0.5	0.1	0.01				~6 fracs/m
		Monzonite to	plag & biot phenos to 6mm,																		(local >20/m)
		Granodiorite	groundmass of fine-med-grained																		dom @ 30-45
			quartz-plag-k-feld, 25-30% qtz,																		
			15-20% k-feld, 50-60% plag,																		
			minor biotite, minor magnetite,																		
			weak greenish clay+/-ser+/-carb																		
			alteration of plag phenos, fracs																		
			with minor clay-carb, minor hem																		
			after magnetite, trace cpy?																		
182.62	239.88	Quartz	Medium pinkish grey, fine-med-	0-1	1				1	1						0.1			0.01		182.62-196.00:
		Monzonite	grained, weakly porphyritic																		8 fracs/m
			(5-15% quartz & plag phenos to																		dom @ 30&60
			4mm), 10-15% quartz, 35-40%																		
			k-feld, 40-50% plag, minor diss																		196.00-213.00:
			specular hematite, plagioclase																		gen >20 fr/m
			(predominantly phenos) generally																		
			altered to greenish clay-sericite																		213.00-239.88:
			& commonly to dark greenish																		~8 fracs/m
			grey ser-carb+/-fine-gr sulphide?,																		dom @ 30&60,
			rare trace cc+/-bor+/-cpy.																		lesser @ 20
			Fracs w/ minor ser-clay+/-carb.																		& 70.
			Local patches moderately alt'd:																		
			bleached feldspar w/ pale green																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			ser-clay+/-carb between grains																		
			(196.00-204.00).																		
			204.14-204.30: significant cc																		
			discontinuous along fracs.																		
			215.50-215.95: well-developed		3				1	1								0.01	0.01		
			green ser on fracs, 4x3cm qtz																		
			patch w/ 30% cc (overall <1%).																		
			217.00-218.00: minor qtz+/-carb	3	3				1	1											Qtz veinlets
			veinlets w/ well-developed thin																		dom @ 15-20
			(mm) green sericite selvages.																		
239.88	239.88	EOH																			

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645788.527	START DATE: May 14, 2007
OVERBURDEN: 12.19 m	UTM-N: 5582601.199	FINISH DATE: May 16, 2007
TOTAL DEPTH: 148.44 m	ELEVATION: 1574.478	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 270	
	DIP: -50	

DOWNHOLE SURVEY		
INSTRUMENT: Acid Test		
DEPTH	AZIMUTH	DIP
148 m		-50

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	12.19	Casing																			
12.19	91.00	Granodiorite	Medium grey to greenish or																		12.19-32.00:
		(Skeena?)	pinkish grey, medium-coarse-																		>20 fracs/m
			grained, 20-30% quartz (anhedral																		dom @ 30
			&/or w/o distinct grain boundaries,																		& 45-50
			some secondary quartz), trace																		
			sphene/leucoxene(?) after mag.																		32.00-43.60:
																					~10 fracs/m
			12.19-21.00: mafics generally	1	3		3		2	2						0.1		0.01	0.05		dom @ 30-40
			chl alt'd, feldspar w/ minor ser-																		
			clay+/-carb alt'n, fractures w/																		43.60-82.00:
			minor chl (ep) +/-clay +/-carb.																		>20 fracs/m
			Trace-local minor fine-grained																		to highly frac'd
			chalcocite+/-bornite mixed with																		dom @ 30 &
			sericite in dark spots to 4mm &																		40, lesser @
			discontinuous along fractures;																		50 & 0-10
			minor diss spec hem after mag.																		
																					82.00-91.00:
			21.00-29.42: alt'n dominated by	1	4				5	3						0.1		0.1	0.5		highly frac'd
			strong-intense green sericite-																		
			clay+/-carb (common gouge																		No dominant
			zones); minor to local 2% fine-																		vn orientation.
			grained chalcocite+/-bornite																		
			mixed with sericite in dark spots																		
			to 4mm, commonly finely																		
			rimmed by red FeOX.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			29.42-63.00: alt'n dominantly	1	3		2		2	2						0.1	0.01	0.01	0.05		
			green (70%) feldspar w/ strong																		
			ser-clay+/-very minor carb alt'n,																		
			mafics w/ musc-carb or chl-musc																		
			alt'n, fracs w/ chl(ep)+/-clay+/-																		
			carb. Lesser intervals (30%) w/						2	2	1	2?				0.5	0.01	0.01	0.05		
			pale orangy-pink alt'n: pervasive																		
			k-feld?/FeOX?+/-silica+/-clay+/-																		
			carb. Trace to local minor cc+/-																		
			bor+/-rare cpy, generally fine-																		
			grained & mixed with sericite in																		
			dark spots to 6mm & discontin-																		
			uous along qtz veins/fractures;																		
			minor diss spec hem after mag.																		
			63.00-91.00: 70% gouge zones	3	4				5	3						0.05		0.1	0.5		
			w/ intense ser-clay-carb alt'n &																		
			common qtz clasts. 30% mod-																		
			strongly alt'd: dominantly ser-																		
			clay+/-carb alt'n of feldspar.																		
			Qtz veins to 7cm are generally																		
			strongly mineralized w/ cc & bor																		
			blebs to 3mm, minor diss spec																		
			hem blebs to 3mm after mag.																		
			Gouge zones w/ strong-intense		4				5	3											
			clay+/-ser+/-carb alteration &																		
			local gouge development <5cm																		
			on fracs: 14.63-14.80, 21.47-																		
			21.60, 21.90-22.10, 24.55-29.00,																		
			30.00-30.30, 31.30-31.60, 45.00-																		
			45.18, 52.40-52.60, 53.00-53.25,																		
			62.75-63.00.																		
			~18.00: minor patchy fine-gr																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			aplite dyke.																		
			At 57.00: quartz vein w/ strong																		
			cc & bor blebs.																		
91.00	124.40	Granodiorite	Light-medim greenish grey,	0	2		2		1	1					0.1	0.5					91.00-102.00:
		(Skeena?)	med-coarse-grained, porphyritic																		~6 fracs/m
			(qtz+/-mafic phenos), 20-30%																		dom @ 45-50
			quartz (anhedral to indistinct																		& 25-30.
			grain boundaries w/ secondary																		
			qtz), 10% k-feld (subh-euhedral																		102.00-111.00:
			to 2mm) locally where rock is																		>20 fracs/m
			more fresh, 5-10% hbl & biot																		dom @ 45-50
			(2-8mm), minor dissem mag to																		& 25-30.
			2mm, 55-65% plag (2-4mm, rare																		
			6mm xls), trace sphene/leuc?																		111.00-124.40:
			Rock predominantly weakly to																		~6 fracs/m
			moderately altered feldspar to																		dom @ 60,
			green ser-clay+/-carb, mag is																		lesser @ 45-
			hematized; biotite is weakly																		50 & 70-80.
			chloritized or strongly musc-carb																		
			altered; fractures w/ chl-carb+/-																		
			mino hem, rare ser-clay on fracs;																		
			rare zones w/ pinkish frac halo.																		
			91.00-96.00: minor calcite &	<1																	Veins: 2 @
			quartz-calcite veins to 3cm.																		45, 1 @ 30
			100.90-101.60: 1cm hem-carb vn																		Vn subll to CA
			106.00-108.00: moderate-strong				3		1	3						5					
			hem-chl-carb (pervasive & along																		
			microfractures/calcite veins).																		
			98.45-98.75: pinkish grey, f-gr																		Dyke @ 30

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			dyke w/ minor diss hem to 1mm,																		
			very minor chl "blebs" to 2mm,																		
			minor rounded quartz phenos to																		
			4mm, moderate pervasive carb.																		
			97.00-98.45: tr-mnr fine-grained																0.01		
			cc+/-bor mixed w/ ser in dark																		
			spots to 3mm assoc w/ fracs.																		
			111.50-118.00: fresher rock.																		
124.40	138.90	Qtz-Feldspar	Pinkish brown to greenish grey,	0	2	1	1		2	2						0.5					Upper contact
		Porphyry	10% quartz phenos (rounded to																		at CAA 10-20
		Dyke	1cm, av 5mm) & 20-25% plag																		
			phenos (2-8mm, av 4mm, subh)																		
			in a fine-gr quartzo-feldspathic																		124.40-127.00:
			groundmass, minor dissem																		>20 fracs/m
			spec hem to 1mm, minor mafic																		
			phenos (biot+/-hbl?) to 6mm																		127.00-137.00:
			generally altered to chl or carb-																		15 fracs/m
			musc, feld phenos generally alt'd																		dom @ 30-40
			to green ser-clay or white-pink																		& 70-75.
			clay-carb, groundmass moder-																		
			ately silicified, fractures w/ carb-																		137.00-138.90:
			clay coatings. Contacts w/ f-gr																		>20 fracs/m
			chill margin (pinkish brown) w/																		
			trace fine-grained dark sulphide																		
			patches on or assoc w/ fracs/																		
			contact (cc-bor-cpy?), moderately																		
			carbonate (calcite) microfractured.																		
138.90	143.75	Granodiorite	Pale greenish to pinkish grey,	0	2		1		3	3						1			0.01		139.90-141.00:
		(Skeena?)	moderately to strongly altered:																		>20 fracs/m
			pervasive & fracture clay-sericite																		
			&/or chl-hem-carb fracs, mod-																		141.00-143.75:

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			erately microfractured, 20-25%																		~12 fracs/m
			anhedral quartz phenos, minor																		dom @ 45-50
			specular hematite after mag,																		
			trace sphene/leuc?; trace f-gr																		
			cc-ser+/-bor as dark spots,																		
			minor cc from 141.65-142.00.																		
143.75	148.44	Granodiorite	Light grey, medium- to coarse-				1		1	1					0.5	0.1					~8 fracs/m
		(Skeena?)	grained, weakly porphyritic,																		dom @ 40-50
			5-10% mafics to 6mm (generally																		
			weakly chloritized hbl>biot),																		
			minor dissem mag to 1mm,																		
			20-25% anhedral quartz to 6mm,																		
			10% k-feld (subhedral-euhedral																		
			to 2mm), 55-65% plagioclase																		
			(subhedral, 2-6mm), trace																		
			sphene/leucoxene? Fractures w/																		
			minor carb-clay or chl-carb-hem.																		
148.44	148.44	EOH																			

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645808.495	START DATE: May 17, 2007
OVERBURDEN: 15.24 m	UTM-N: 5582448.851	FINISH DATE: May 27, 2007
TOTAL DEPTH: 191.11 m	ELEVATION: 1570.575	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 90	
	DIP: -45	

DOWNHOLE SURVEY		
INSTRUMENT: Acid Test		
DEPTH	AZIMUTH	DIP
191 m		-45

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	15.24	Casing																			
15.24	24.00	Granodiorite	Light pinkish grey, porphyritic	0	1		1		1	1					0.5	0.1					>20 fracs/m
		to locally Qtz	(qtz & mafic phenos to 6mm in																		to highly frac'd
		Monzonite	a fine-med-grained k-feld-plag-																		dom @ 40-50
		(Skeena?)	quartz groundmass), 20-30%																		
			anhedral quartz, 10%-local 20%																		
			k-feld, 5-10% biotite, 55-65%																		
			plagioclase, minor dissem mag																		
			to 1mm (locally hem'd), tr sphene.																		
			Weakly altered: biot commonly																		
			chloritized +/-minor sericite,																		
			minor plag w/ clay-ser alteration,																		
			fractures w/ clay+/-chl+/-carb.																		
24.00	40.60	Granodiorite	Light grey to patchy pinkish grey,	0	3		1		3	3					0.1	0.5		0.05	0.5		~15 fracs/m
		(Skeena?)	minor dissem specular hematite																		locally highly
			after magnetite to 2mm, <1% to																		frac'd, dom @
			local 3% fine-grained chalcocite-																		40-45, lesser
			bornite-sericite as dark spots to																		at 30 & 50-60.
			5mm (disseminated & discontin-																		
			uous along fractures), cc-bor																		
			is generally indistinguishable,																		
			but rarely it is bleb-like & distinct.																		
			Weak-strongly altered: pinkish																		
			altered zones have pervasive																		
			FeOX (k-feld?); feldspar is dom																		
			alt'd to green ser-clay+/-carb,																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			mafics are commonly blasted or																		
			w/ chl &/or musc-carb alteration,																		
			mag is hem'd, quartz is generally																		
			ameboid or w/o distinct grain																		
			boundaries & includes some																		
			secondary quartz, fractures w/																		
			clay+/-carbonate+/-sericite.																		
			Gouge: 29.70-30.05, 30.66-30.78,		1				5	3						0.05			0.5		Zone @ 65
			36.90-37.15 (lower contact w/						5	1						0.01			0.1		Zone @ 50
			orange FeOX(?) stain).																		
			30.15-30.40: Aplite Dyke: light																		
			brownish grey, fine-grained qtz																		
			& feldspar, minor diss hem after																		
			mag, <1% f-gr cc & lesser bor																		
			as dark spots, contacts with																		
			strong ser-clay-carb+/-minor cc.																		
40.60	53.00	Granodiorite	Light greenish grey, porphyritic	0	2		2		2	2					0.1	0.5		0.05	0.1		>20 fracs/m
		(Skeena?)	(quartz & mafic phenos to 8mm),																		to highly frac'd
			5-10% hbl-biot, minor diss mag																		dom @ 60-70
			(commonly hematized), trace																		& 20-30,
			sphene/leucoxene?, trace-local																		lesser @
			minor f-gr cc-ser+/-bor as dark																		40-50
			spots & discontinuous along																		
			fracs. Fracs w/ clay-carb+/-mnr																		
			chl+/-very minor sericite; feldspar																		
			(predom plag) moderately clay-																		
			ser+/-carb alt'd, 20-30% quartz																		
			(partly secondary, anhedral to																		
			indistict grain boundaries),																		
			groundmass is fine-med-grained.																		
53.00	59.00	Granodiorite	Lt pinkish grey, relatively fresh,	0	1		1		2	1					0.5	0.1		0.05	0.05		~20 fracs/m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
		to Quartz	15-20% qtz to 6mm, 5-10% hbl-																		locally highly
		Monzonite	biot to 6mm, 10-15% k-feld gen																		frac'd, dom @
		(Skeena?)	to 2mm (local 2cm k-feld patch																		45 & 70.
			at ~55.60m), 55-65% plag (anh-																		
			edral in groundmass, anhedral-																		
			subhedral phenos to 6mm).																		
			Mafics commonly chl'd, plag																		
			phenos commonly w/ weak clay-																		
			ser+/-carb alt'n, fracs w/ very																		
			minor carb-clay. Minor diss mag																		
			blebs, local minor generally frac-																		
			related f-gr cc-mag+/-bor+/-ser																		
			dark spots, trace sphene.																		
			54.47-54.67: Feldspar porphyry																		
			dyke: minor chl (after biot?) to																		
			5mm, minor-1% rounded quartz																		
			phenos to 5mm, 1-3% feldspar																		
			phenos to 5mm, fine-grained																		
			quartz & feldspar groundmass;																		
			trace bor+/-cc along fracture.																		
59.00	64.50	Granodiorite	Light greenish grey, patchy clay-	0	2		2		2	2					0.5	0.1			0.01		~20 fracs/m
		(Skeena?)	ser+/-carb alteration of feldspar,																		dom @ 45-55
			medium-grained groundmass,																		
			5-10% hbl-biot (generally chl'd)																		
			to 6mm, 20-25% anhedral quartz																		
			to 6mm, minor diss mag, minor																		
			hem after mag, trace sphene,																		
			clay-carb+/-rare hem on fracs,																		
			minor musc-carb after mafics?																		
64.50	105.77	Granodiorite	Light grey, phorphyritic (quartz	0	1		3	2	1	2					0.5	0.01	0.01	0.05	0.01		64.50-87.00:
		(Skeena?)	& hbl +/-plag phenos to 6mm),																		~12 fracs/m
			20-25% anhedral-subhedral qtz,																		dom @ 65-75,

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			10% subhedral k-feld to 2mm,																		lesser @
			5-10% hbl-biot to 6mm, minor-1%																		35-40.
			mag blebs to 4mm, trace sphene.																		
			Mafics commonly chl'd (hbl-chl																		87.00-102.00:
			patches to 1cm), plag locally																		~8 fracs/m
			weakly clay+/-ser alt'd, fracs w/																		dom @ 55-65,
			clay+/-carb+/-chl-ep, local minor																		lesser @
			sericite-clay as narrow halo to																		35-45.
			occasional fracs. Mafics commonly																		
			speckled w/ mag-bor+/-cpy+/-cc																		102.00-108.00:
			(possible cc is fine-grained &																		~15 fracs/m
			indistinguishable); rare fracs w/																		dom @ 35-65
			minor discontinuous bleb-like																		
			bornite & more rare cpy.																		Chl-ep-carb
			Common chl-ep+/-carb veinlets.																		vnlets@ 45-55
			Gouge: 95.90-96.00, 98.65-98.90						5	1											
			100.70: 1.5cm aplite dyke																		dyke @ 10
			91.52-91.59: strong ep-clay-carb-				1	5	4	3		4									alt'n @ 45/50
			k-feld alt'n zone w/ carb vuggs,																		
			green & cream colours mottled,																		
			FeOX microfracs, minor chlorite																		
			flecks, f-gr cc on lower contact.																		
			100.50: strong cc & bor blebs																		
			assoc w/ fracs.																		
105.77	128.20	Granodiorite	Medium (greenish) grey, alt'n	0	3		3	1	3	1					0.5	0.1		0.1	0.1		>20 fracs/m
		(Skeena?)	variable from: (a) weak pervasive																		dom @ 25-35
			clay+/-chl+/-ser, irregular shaped																		& 50-60.
			chl after hbl? to 1cm, quartz																		
			generally w/ indistinct grain																		
			boundaries (some secondary),																		
			local fresh biot-hbl, minor mag																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			generally fresh blebs to 1mm;																		
			to (b) moderate pervasive ser-																		
			clay+/-chl, mafics blasted, fine-																		
			grained sulphide?-ser+/-carb as																		
			dark spots to 5mm (cc?+/-mag).																		
			20-30% quartz w/ indistinct grain																		
			boundaries (some secondary),																		
			5% chl/biot &/or f-gr sulphide-																		
			ser dark spots. Fracs w/ chl																		
			(ep)-clay+/-carb+/-rare hem.																		
			110.10-110.50: fault breccia &		3		2		5	4					0.5	0.1		0.1	0.5		
			gouge w/ mineralization.																		
			118.40-118.57: gouge.																		
128.20	130.00	Gouge	Greenish grey, intensely alt'd,	0	3		3		5	5						0.5		0.01	0.05		Lower contact
			varies from mud consistency w/																		at CAA 50.
			sand-sized particles to clasts of																		3cm carb vein
			qtz & alt'd rock to 1.5cm, local																		at CAA 60.
			carb-hem veins(2)/clasts, minor																		Carb-hem vns
			visible cc-bor.																		at 40 & 70.
130.00	155.60	Granodiorite	Intermittent gouge & fault breccia	0	4		3		3	3					0.1	0.1			.01?		Highly frac'd.
		(Skeena?)	w/ chl-carb matrix; intact pieces																		
		Fault Zone	have moderate-strong pervasive																		
			green ser-clay+/-carb w/ mod-																		
			str chl-clay-carb fracs, 20-25%																		
			anhedral qtz, 5% chl'd mafics &																		
			f-gr sulphides? (cc?+/-bor?)-ser-																		
			mag/hem predominantly as dark																		
			spots to 4mm.																		
155.60	166.10	Qtz Diorite to	Relatively fresh. Predominantly	0			2	1	1	2						0.1	0.01				20 fracs/m
		Granodiorite	quartz diorite: medium-grained,																		dom @ 40-45
		(Skeena?)	5-10% quartz, 5% k-feld, 70-80%																		& 65-75.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			plag, 10-15% hbl, <5% biot,																		
			1-3% mag. Granodiorite is c-gr																		
			w/ 20% qtz & 5-10% biot-hbl.																		
			Fracs w/ chl-carb+/-ep+/-hem.																		
			Mafics generally chl'd, trace																		
			sphene/leucoxene(?) after mag.																		
			Minor calcite veins to 1cm.																		
			Trace-local minor cpy w/in chl																		
			& discontinuous along fracs.																		
166.10	178.00	Fault Zone	Highly fractured w/ intermittent	0	2		4	2	4	2						1					Highly frac'd.
			fault breccia & gouge in a chl-																		
			clay+/-ep+/-carb+/-hem matrix;																		
			greenish grey; fracs w/ chl-ep-																		
			clay+/-carb+/-hem, common																		
			slicken sides. Intact pieces w/																		
			mod-str pervasive chl-clay &																		
			local sericite; mag is hem'd.																		
178.00	191.11	Granodiorite	Lt grey, m-c-gr, porphyritic (qtz	0			2		1	1					0.5						~15 fracs/m,
		(Skeena?)	& mafic phenos). 5-10% hbl-biot																		local highly
			to 6mm, 10% k-feld to 2mm,																		fractured.
			20% anhedral quartz to 6mm,																		
			minor mag to 1mm, 60-65%																		
			plag (2-6mm). Mafics commonly																		
			chl'd; fracs w/ chl-clay+/-carb,																		
			rare fracs/veins w/ orangy-pink																		
			carb-k-feld?/FeOX? Rare tr cpy&bor.																		
			Very strongly clay altered:				1		5	1											
			183.25-183.45, 183.70-184.50,																		
			187.95-188.05																		
			190.00-190.09: aplite dyke: pink																		dyke @ 35
191.11	191.11	EOH	f-gr, predom qtz&feld w/ v mnr mag & chl.																		

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645657.47	START DATE: May 28, 2007
OVERBURDEN: 15.24 m	UTM-N: 5582070.955	FINISH DATE: June 6, 2007
TOTAL DEPTH: 215.49 m	ELEVATION: 1562.22	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 90	
	DIP: -50	

DOWNHOLE SURVEY		
INSTRUMENT: Acid Test		
DEPTH	AZIMUTH	DIP
215 m		-50

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	15.24	Casing																			
15.24	23.47	Granodiorite	Light grey, med-coarse-grained,	0			2		1	1		1			0.5						>20 fracs/m
		(Skeena?)	porphyritic, 20-25% anhedral																		dom @ 60-70
			quartz phenocrysts to 6mm,																		& 40-45.
			~10% subhedral k-feldspar to																		
			2mm, minor dissem magnetite																		
			to 3mm, 5-10% chlorite after																		
			mafics from 2-8mm (anhedral to																		
			subhedral), 55-65% plagioclase																		
			from 2-4mm (subhedral-euhedral).																		
			Weak milky green clay+/-ser?																		
			alteration of feldspar. Fractures																		
			with minor clay-carb; possible																		
			minor fractures with k-feldspar																		
			alteration halos.																		
			20.20-20.45: moderately-strongly	0	3		1		1	1								0.05	0.01		
			sericitized with minor bor+/-cc.																		
23.47	24.00	Altered Zone	Light pinkish grey, strongly alt'd,	0	3				2	3	4					5					Highly frac'd.
		(possible	silica flooding intermixed with																		
		dyke)	sericite-clay-carbonate.																		
24.00	31.60	Fault Zone	Light grey to greenish grey,		3		2		3	2		2				0.1					>20 fracs/m
			intermittent gouge, strongly																		to highly frac'd.
			microfractured w/ chl-ser+/-carb,																		
			weak-moderate pervasive ser-chl,																		
			patchy pervasive k-feld?, minor																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			disseminated specular hematite,																		
			possible trace bornite?																		
			24.50-24.80: strongly silicified.				2				5										
31.60	105.65	Granodiorite	Light grey, ~20% qtz (anhedral	0-local 1	1		2	1	1	2					0.5	0.1					~10 fracs/m,
		(Skeena?)	phenos to 6mm), med-coarse-																		local >20,
			grained, 65-75% plag>>k-feld																		dom @ 40-45
			(2-6mm), 5-10% chlorite after																		& 65-75.
			mafics to 6mm, local fresh hbl &																		
			biot, feldspar generally bleached																		
			white or green altered (weak																		
			clay+/-chl+/-ser?), minor dissem																		
			magnetite to 1mm. Fractures w/																		
			chl-carb, very minor epidote on																		
			fractures & replacing mafics.																		
			Minor carbonate (calcite) +/-																		
			hematite veins to 1cm. Minor																		
			local gouge zones <10cm with																		
			no visible mineralization.																		
			47.55-47.95: green altered with		4		1		1	1		3?						0.01	0.01		
			minor bornite-chalcocite.																		
			(47.55-47.65: strongly sericitized)																		
			(47.65-47.95: strongly sericitized																		
			microfracs & between pink alt'd																		
			feldspar (k-feld alteration?)																		
			At 70.40: 3cm aplite dyke.																		Dyke @ 40-50
			85.00-90.53: intermittent gouge		3		2		4	3						0.5					
			& highly fractured core. Specular																		
			hematite after magnetite. Mod-																		
			strongly altered.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			92.10-99.40: predominantly	0	1		2	1	1	2					0.5						
			fresher rock with fracture-related																		
			alteration zones.																		
			99.40-105.65: moderately altered		1		3			3											>20 fracs/m
			with dark olive green alteration																		
			of feldspar.																		
105.65	138.00	Granodiorite	~40% fresh rock (light grey,	0	2	1	1	1	1	1					0.5	1					~6 fracs/m
		(Skeena?)	20-25% anhedral quartz to 6mm,																		dom @ 60-70
			5-10% hbl-biot+/-chl, occasional																		& 25-35,
			hornblende phenocrysts to 6mm,																		lesser @
			~10% subhedral-euhedral k-feld																		40-50.
			to 2mm, 55-65% subh-euhedral																		
			plag to 4mm, mnr mag to 1mm).																		
			~60% weak to moderate green																		
			alteration of feld & occasional																		
			muscovite-carbonate after mafics.																		
			Fractures with carb(cal)-hem+/-																		
			chl. Calcite-hematite+/-quartz																		
			veins to 1cm (<1/m).																		
			106.95-107.50: 3 aplite dykes to																		Dykes @
			1.5cm.																		35-40.
			117.10-117.15: ser frac halos.																		
			117.85-118.00: feldspar porphyry																		Dyke @ 35-40
			dyke (light grey, fine-grained																		
			quartzo-feldspathic groundmass,																		
			5% quartz & feldspar phenos).																		
			123.80-123.95: strong pervasive		4				1	1						0.1		0.05	0.05		
			& fracture-associated sericite																		
			with possible bornite-chalcocite.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			At ~125.00: 2cm aplite dyke																		Dyke @ 20
			(fine-grained quartz & feldspar)																		
			126.86-126.90: strongly altered		3					4						1					
			to pale milky green carb-ser?,																		
			dissem specular hem after mag.																		
			132.45-132.53: minor aplite dyke.																		
138.00	147.00	Granodiorite	Weak to moderately altered:	0	2		1	2	1	2						0.5					~6 fracs/m
		(Skeena?)	green to pinkish white alteration																		dom @ 60-70
			of feldspar (ser?-clay+/-carb),																		& 25-35,
			ep & chl after mafics & fracture-																		lesser @
			related. Hem-carb fractures.																		40-50.
			Minor aplite dykes <10cm.																		Dykes dom @
																					CAA 40.
			At 140.45: rare quartz patch.																		
			140.00-140.70: alteration zone.		2		2	3		3						3					Alt'n Zone @
																					~35.
147.00	183.70	Granodiorite	Light grey, weakly altered:	0<1	1		1		1						0.1	0.5					147.00-163.00:
		(Skeena?)	feldspar generally green altered																		~10 fracs/m
			to locally bleached white, mafics																		dom @ 65-75
			either chloritized or muscovite-																		& 35-45.
			carbonate altered, magnetite																		
			generally hematized (specularite).																		163.00-183.70:
			Carb-hem+/-chl fracs. Carb(cal)-																		>20 fracs/m
			hem+/-quartz veins to 1cm.																		
			148.20-149.00: strongly ser'd w/		4				2	2											
			indistinguishable fine-grained																		
			dark grey to black mineral.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			156.80-156.96: hematite-rich													5	0.01				Alt'n Zone @
			zone w/ possible trace cpy.																		CAA 30.
			159.65-159.71: aplite dyke.																		Dyke @ 35
			164.55-164.60: gouge.				1		5												
			173.30-173.35: gouge.				1		5												
			173.35-173.50: strongly silicified		2					3	5										
			176.50-178.82: gouge & strongly				1		5	3											
			altered rock.																		
183.70	215.49	Granodiorite	Relatively fresh to weakly altered	0			1		1	1					0.5						~20 fracs/m
		(Skeena?)	(mafics commonly chloritized or																		
			muscovite-carbonate altered,																		Hem-carb vns
			feldspar bleached white to green),																		dom @ 70.
			medium-coarse-grained, 20-25%																		
			anhedral quartz to 6mm, 5-10%																		
			hornblende & biotite (occasional																		
			biot "books" & hbl phenos to																		
			6mm), ~10% subhedral k-feld to																		
			2mm, 55-65% plagioclase (sub-																		
			hedral 2-4mm), minor magnetite,																		
			accessory sphene/leucoxene?																		
			Fractures with minor carb-chl+/-																		
			hem. V rare aplite dykes <10cm.																		
			196.83-197.70: disseminated													0.1		0.01	0.01		
			dark spots to 3mm with mixture																		
			of sericite & fine-grained indist-																		
			inguishable sulphide? (bor-cc)?																		
			At 200.00: quartz vein to 3mm																		
			with minor bornite-chalcocite.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			204.08-204.14: strong hematite													5					Hem zone @
			microfractures & spots to 4mm.																		25-45.
215.49	215.49	EOH																			

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645918.895	START DATE: June 2, 2007
OVERBURDEN: 22.56 m	UTM-N: 5582643.837	FINISH DATE: June 8, 2007
TOTAL DEPTH: 246.28 m	ELEVATION: 1573.674	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 270	
	DIP: -50	

DOWNHOLE SURVEY		
INSTRUMENT: Acid Test		
DEPTH	AZIMUTH	DIP
246 m		-55

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0.00	22.56	Casing																			
22.56	55.00	Altered	Moderately altered: ~20% quartz	0	3				1	3						1					>20 fracs/m
		Granodiorite	to 1cm with indistinct grain																		to highly frac'd
		(Skeena?)	boundaries, green ser?+/-clay+/-																		dom @ 40-60
			carb alteration of feldspar, very																		
			local bleached feldspar (clay																		
			alteration), rock is light grey.																		
			Common carbonate (calcite) +/-																		
			hematite veins to 1cm. Minor-1%																		
			dissem specular hem to 2mm.																		
			Tr sphene/leucoxene(?) after mag.																		
			22.56-31.62: strong fracture &																		
			pervasive orangy-brown rust.																		
			45.00-45.20: local minor dark																0.01		
			spots of indistinguishable fine-																		
			grained mineral (sulphide?)																		
			mixed with sericite.																		
			45.50-48.20: strong fracture &																		
			pervasive orangy-brown rust.																		
			48.20-49.40: gouge with clasts				2	1	5	3	3										
			of strongly silicified material.																		
55.00	58.82	Possible	Light pinkish grey, moderate to	0					2	1	3										Highly frac'd.
		Dyke	strong pervasive orangy-brown																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			rust, highly fractured with inter-																		
			mittent gouge. Fractures with																		
			rust +/-milky blueish-green clay.																		
			At 56.10: Tr bornite-chalcocite															0.01	0.01		
			in patchy quartz-carb (cal) vein.																		
58.82	61.50	Altered	Light grey, ~20% anhedral qtz,	0	3		1		3	3					0.1	1					>20 fracs/m
		Granodiorite	predominantly green sercite?+/-																		dom @ 20-30
		(Skeena?)	clay+/-carbonate altered feldspar,																		& 50-60.
			minor-1% diss specular hematite																		
			after mag. Strong clay-carb on																		
			fractures. Trace sphene/leuc?																		
			after magnetite.																		
61.50	67.80	Fault Zone	Gouge & very strongly altered	0			1		5	3						5					Highly frac'd.
			rock; intermittent strong micro-																		
			fracture & pervasive hematite,																		
			common slicken sides, primary																		
			textures generally obliterated.																		
			65.50-67.80: strong pervasive																		
			orangy-brown rust.																		
67.80	68.40	Feldspar	Pink, 20% plagioclase & quartz	0	1		1		1	1					0.01						Lower contact
		Porphyry	phenocrysts to 4mm in a quartz																		at CAA 15.
		Dyke	& k-feldspar +/-plagioclase fine-																		>20 fracs/m.
			grained groundmass, 1% chlorite																		
			after hornblende. Fractures with																		
			minor sericite. Minor carbonate																		
			(calcite) patches. Rare fractures																		
			with MnO speckled on fracture																		
			surface. Trace magnetite.																		
68.40	95.30	Granodiorite	Light grey, 20-25% quartz (anh-	0	1		2		1	2					0.5	0.1					68.40-75.70:

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
		(Skeena?)	edral to 6mm), ~10% k-feldspar																		>20 fracs/m
			(subhedral to euhedral to 2mm),																		
			55-65% plagioclase (subhedral																		75.70-87.00:
			to euhedral, 2-4mm), 5-10% hbl																		~10 fracs/m
			(1-3mm), minor irregular-shaped																		dom @ 35&50
			poikilitic hornblende(?) crystals																		
			to 8mm, hornblende generally																		87.00-95.30:
			weakly chloritized, minor-3%																		>20 fracs/m
			biotite to 3mm, minor diss mag																		
			to 1mm. Fractures with chlorite-																		
			carbonate+/-hematite+/-very rare																		
			epidote; occasional fractures w/																		
			moderate pervasive green ser-																		
			clay+/-chl halos. Trace sphene/																		
			leucoxene(?) after magnetite.																		
			68.70-68.76: pink porphyritic																		Dyke @ 45/10
			dyke.																		
			69.20-69.40: pink porphyritic																		
			dyke, gradational contacts																		
			(upper contact w/ moderate																		
			pervasive sericite, lower contact																		
			w/ pervasive chlorite?)																		
			68.40-82.35: occasional fractures																		
			with rust +/-MnO or possible																		
			Cu WAD(?) speckled on fracture																		
			surface.																		
			At 71.60: minor dark spots with															.01?	.01?		
			indistinguishable fine-grained																		
			mineral (sulphide?) mixed with																		
			sericite.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			At 78.55: 1cm aplite dyke.																		Dyke @ 35
			84.75-84.95: 2cm aplite dyke.																		Dyke @ 10
			91.22-91.32: moderate pervasive																		
			chlorite-sericite?																		
95.30	112.00	Granodiorite	Light grey, medium-grained,	0	2		3	1		2						1					>20 fracs/m
		(Skeena?)	weakly to moderately altered,																		to highly frac'd.
			5-10% chlorite (after mafics,																		
			generally 3mm-1cm), ~10% k-																		
			feldspar to 2mm, 20-25% quartz																		
			(anhedral to 6mm), 55-65% alt'd																		
			plagioclase with indistinct grain																		
			boundaries, minor-1% dissem																		
			specular hematite after magnetite																		
			(to 2mm), trace sphene/leuc?																		
			after magnetite. Fractures with																		
			chl(ep)-carb(carb). Pervasive																		
			ser(?)-chl(ep)+/-carb(cal).																		
			At 100.50: 1cm euhedral k-feld																		
			crystal.																		
112.00	174.20	Altered	Light greenish grey, primary	0-1	4		2		3	2						1		0.05	0.1		>20 fracs/m
		Granodiorite	textures are weak, 20-30% qtz																		to highly frac'd
		(Skeena?)	with indistinct grain boundaries																		
			(some secondary), 5-15% chl																		
			after mafics or mafics blasted,																		
			65-75% altered feldspar, mod-																		
			strong pervasive greenish ser?-																		
			clay-chl+/-carb alteration, local																		
			pervasive orangy-pink alteration																		
			(FeOX?/k-feld?), minor-1% diss																		
			spec hem. Common carbonate																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			(calcite) patches and veinlets.																		
			Intermittent gouge generally																		
			<10cm. Fractures with clay+/-																		
			hem/FeOX+/-chl+/-carb. Minor-																		
			local 1% fine-grained bornite-																		
			chalcocite (generally indistin-																		
			guishable) mixed with sericite																		
			in dark spots to 4mm, bor-cc is																		
			rarely bleb-like & distinct and																		
			occasionally occurs along fracs																		
			& qtz-calcite veins (vns to 1cm).																		
			127.16-127.40: very strongly													0.1		2	2		
			mineralized w/ bornite-chalcocite.																		
174.20	178.92	Ep-carb-hem	Mottled greenish & pinkish grey,	0-1				5		4						20			0.01		>20 fracs/m
		Alt'n Zone	very strongly altered, primary																		to highly frac'd
			textures weak, predominantly																		
			ep-carb-hem+/-chl+/-clay.																		Carb-hem vns
			Common calcite, specularite &																		at 30-35.
			lesser quartz-calcite veins to																		
			1cm. Rare trace chalcocite.																		
178.92	209.40	Altered	Mixed light greenish grey and	0-1	1		2		3	2		3?			0.1	1	0.01	0.05	0.01		178.92-188.00:
		Granodiorite	orangy-pink, weak to moderate																		>20 fracs/m
		(Skeena?)	primary textures, 20-25% quartz																		
			(ameboid to indistinct grain																		188.00-209.40:
			boundaries), 5-10% mafics either																		~10 fracs/m
			chloritized or blasted, 65-75%																		dom @ 30-45,
			altered feldspar, moderate perva-																		lesser @ 20
			sive greenish ser?-clay+/-carb																		& 55-70.
			or orangy-pink k-feld?/FeOX?,																		
			minor-1% disseminated specular																		Carb & qtz-
			hematite. Occasional calcite+/-																		carb vns dom
			hematite veinlets. Fractures with																		at CAA 20.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			clay, carb, chl &/or hem. Trace-																		
			local minor fine-grained bornite-																		
			chalcocite (generally indistin																		
			guishable) mixed with sericite																		
			in dark spots to 4mm or along																		
			fractures/veins.																		
			192.60-193.30: gouge.				3		5												Highly frac'd.
209.40	225.90	Fault Zone	Intact rock has alteration similar	1	1	1	3		4	2		2?			0.1	0.5			0.01		>20 fracs/m
			to above interval. Common																		to highly frac'd.
			intermittent gouge & fault breccia.																		
			Fractures with chl+/-carb+/-hem.																		
			Carb(cal)-hem+/-quartz veins to																		
			1cm. Trace coarse-grained																		
			muscovite to 4mm.																		
			211.70-211.75: quartz-calcite																		Vein @ 50-55
			vein with trace cc?, chl & hem.																		
			At 218.30: quartz vein with cpy																		
			& bor +/-cc.																		
225.90	238.63	Granodiorite	Greenish grey, weakly to mod	0	2	1	3		3	2		2?			0.5	0.5	0.01	0.01	0.01		~20 fracs/m
		(Skeena?)	altered, 20-25% quartz to 8mm																		dom @ 60 &
			(ameboid or with indistinct grain																		30-40.
			boundaries), 65-75% feldspar																		
			(~10% k-feld) w/ weak pervasive																		
			clay+/-ser?+/-chl alteration,																		
			5-10% mafics either chloritized																		
			hornblende>biotite or blasted,																		
			minor-1% dissem magnetite or																		
			specular hematite. Fractures w/																		
			carb-chl; occasional fractures w/																		
			orangy-pink halos (FeOX?/k-feld?)																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			Rare trace chalcopyrite & bornite																		
			along microfractures; possible																		
			trace fine-grained bor-cc mixed																		
			with ser in dark spots to 4mm.																		
			Minor coarse-grained muscovite																		
			to 5mm.																		
			233.30-238.13: trace-minor fine-															0.05	0.01		
			grained bornite-chalcocite (indist-																		
			inguishable) mixed with sericite																		
			in dark spots to 3mm.																		
238.63	246.28	Granodiorite	Relatively fresh rock, light grey,	0		1	2	1		1					0.5						~10 fracs/m
		(Skeena?)	20-25% quartz phenos to 6mm																		dom @ 60 &
			(open interstitial), 5-10% hbl+/-																		30-40.
			biotite generally to 3mm w/ rare																		
			poikilitic crystals to 1cm, minor																		
			disseminated magnetite to 1mm,																		
			~10% k-feldspar to 2mm (subh-																		
			euhedral), 55-65% plagioclase																		
			to 3mm (subhedral to euhedral),																		
			very weak greenish colouration																		
			to plag, mafics generally weakly																		
			chloritized. Fractures with carb-																		
			chl+/-hem.																		
			243.00-243.20: moderately alt'd.																		
246.28	246.28	EOH	Drill bit gone.																		

Meridian Mapping Ltd.
Diamond Drill Log
Hole No. R07-08

RATERIA PROJECT

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: Glen's Drilling Ltd.
CLAIM:	UTM-E: 645089.756	START DATE: June 9, 2007
OVERBURDEN: 25.30 m	UTM-N: 5581832.623	FINISH DATE: June 12, 2007
TOTAL DEPTH: 188.06 m	ELEVATION: 1552.817	LOGGED BY: Kiyoko Nakano
CORE SIZE: NQ	AZIMUTH: 270	
	DIP: -50	

DOWNHOLE SURVEY
INSTRUMENT: Acid Test

DEPTH	AZIMUTH	DIP

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
0	25.3	Casing																			
25.3	99.35	Qtz Diorite to	Light greenish grey to local	0-1	3	1	3		2	2					0.1	0.5		0.01	0.01		Strongly frac'd
		Granodiorite	pinkish grey, medium-coarse-																		dom @ 30 &
		(Bethsaida?)	grained, weakly porphyritic																		45-50.
			(quartz & mafic phenos to 6mm),																		
			15-25% quartz (phenos generally																		
			ameboid & anhedral, rarely euh-																		
			edral), 5-10% mafics (biot>hbl)																		
			generally chloritized, ~10% k-																		
			feldspar to 2mm, 55-65% plag																		
			xls to 4mm, feldspar generally																		
			with weak to moderate pervasive																		
			green sericite-clay alteration,																		
			mafics generally chloritized,																		
			local minor musc-carb xls to																		
			4mm, minor dissem specular																		
			hematite>>magnetite, fractures																		
			with carb+/-chl+/-hem.																		
			Intermittent gouge with clasts of		3				5	2											
			quartz: 28.80-29.00, 29.60-29.70,																		
			42.50-43.00, 55.85-55.95, 56.35-																		
			56.90, 65.83-65.90, 66.55-66.70,																		
			67.70-67.95, 68.50-68.75, 73.63-																		
			73.70, 78.82-79.12, 86.50-86.60,																		
			90.40-90.55, 94.50-96.00, 96.62-																		
			96.80, 98.15-98.80.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			Minor bornite+/-chalcocite	0-1														0.1	0.05		
			concentrated in local strongly																		
			sericite altered zones commonly																		
			with gouge and/or quartz veins.																		
			Mineralization specifically noted																		
			at: 43.85-44.00, 46.35-46.40,																		
			48.30-48.35, 55.95-56.35,																		
			59.20-59.70, 65.40-66.25.																		
			83.00-84.00: pervasive orangy-																		
			pink alteration (FeOX?/k-feld?).																		
99.35	188.06	Qtz Diorite to	Light grey, predominantly fresh	0			1	1	1	1		1?			0.5	0.5					Fracs dom @
		Granodiorite	rock with intermittent sericite																		40-60, lesser
		(Bethsaida?)	altered zones, medium-grained,																		at 70 & 30.
			porphyritic (5-10% biotite & qtz																		
			phenos to 8mm +/-rare hbl w/																		99.35-102.00:
			plag inclusions), 20-25% quartz																		>20 fracs/m
			(interstitial & ameboid/anhedral),																		
			~10% k-feld (subhedral to 3mm)																		102.00-115.00:
			55-65% plag (subhedral-euhedral																		~10 fracs/m
			to 4mm), 5-10% biotite & hbl																		
			(euhedral, generally to 4mm),																		115.00-129.00:
			minor dissem mag to 1mm,																		>20 fracs/m
			trace sphene/leucoxene? Fracs																		to highly frac'd.
			occasionally w/ carb+/-chl.																		
			Occasional calcite veinlets.																		129.00-188.06:
																					10-20 fracs/m
			108.30-109.15: moderately to	2	4	1			3							0.5	0.05	0.05			to locally
			strongly green sericite altered																		highly frac'd.
			with broken up quartz vein, minor																		
			bornite & chalcopyrite, minor																		
			disseminated specular hematite.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			115.10-116.10: mod-strong green	1	4	1	1		3							0.5					
			ser alt'n, minor diss spec hem.																		
			116.10-124.05: pervasive pinkish-				2	1	1	1		3?	1								
			brown (FeOX?/k-feld?) alteration																		
			mottled with pervasive green																		
			chlorite-talc alteration. Fractures																		
			with chlorite-talc-hematite. Minor-																		
			1% dissem & fracture hematite.																		
			Slicken sides common.																		
			124.05-127.10: moderately to	2	4	1			4	2						0.5	0.01	0.01	0.01		
			strongly sericite altered with																		
			intermittent gouge & common																		
			slicken sides. Tr cpy+/-bor+/-cc.																		
			127.10-188.06: occasional pink																		
			bands (k-feldspar) to 1cm dom-																		
			inantly @ CAA 45-50 (1per2-5cm)																		
			138.80-138.85: gouge		4				5	2											
			143.15-145.05: moderately to	2	4				4	2						0.5	0.01	0.01	0.01		
			strongly sericitized with local																		
			gouge. Minor bornite & chalcocite																		
			disseminated in altered rock &																		
			in quartz veins. Minor dissem																		
			hematite +/-trace chalcopyrite.																		
			146.35-147.65: moderately to																		
			strongly sericitized with minor																		
			dissem hem+/-bor?+/-trace cpy.																		
			149.70-156.50: moderately to		4				3	2						0.5	0.01				
			strongly sericitized with minor																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc		
			dissem hematite & trace cpy.																		
			167.75-168.50: moderately to		4				4	2						0.5					
			strongly sericitized altered with																		
			minor disseminated hematite.																		
			170.00-170.50: strongly sericite-		4				4	3						0.5					
			clay-carbonate altered.																		
			178.05-178.92: moderately to	1	4				3	2											Quartz vein @
			strongly sericitized with 5cm																		CAA 35.
			quartz-calcite vein with minor																		
			dark grey sulphide?																		
188.06	188.06	EOH																			

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: DJ Drilling
CLAIM:	UTM-E: 645815	START DATE: 10-Nov-07
OVERBURDEN: 8.2	UTM-N: 5582300	FINISH DATE: 17-Nov-07
TOTAL DEPTH: 202.39m	ELEVATION: 1569 m	LOGGED BY: Rob Montgomery
CORE SIZE: NQ	AZIMUTH: 090	
	DIP: -50	

DOWNHOLE SURVEY
INSTRUMENT: Acid Test

DEPTH	AZIMUTH	DIP
307 ft		-55
664 ft		-51

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
0.00	**8.20**	OVB	Casing to 27' (2' added later)																		
8.20	**45.40**	Altered Granodiorite (locally to quartz diorite composition) Skeena?	Medium grey-green, medium grained granodiorite. 20-25% pale to medium grey anhedral quartz. 50-60% sub-hedral to rare euhedral plagioclase (locally zoned). K-spar 3-10% as small irregular interstitial infillings. 7-15% mafics - primarily biotite; often as distinct 'books' up to 7mm. 1/2 to 1% magnetite; locally altering to hematite. Original texture largely obliterated over much of interval due to pervasive sericite/chlorite +/-clay alteration. Less altered sections display a well developed equigranular texture (ie @28.0M). Moderate to strong sericitization of plagioclase throughout interval. Locally plagioclase clay altered. Biotite typically chlorite +/- epidote altered.	0	3	0	2	0.5	0.25	1	0.01	0.1		0	1	0.01					Relatively competent core. Two fracture sets: first at 55-60 to c/a, second at 5-15 to c/a.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			Sub-sections of note: 8.50m malachite on fractures. 18.77-20.57m: strong hematite alteration, hematitic slickensides. Trace hematitic clay gouge.	0	0.5	0	0	0	1	0.25	0	0			0	3					
			29.15-32.61m: Broken/rubbly core due to faulting/shearing. Increase in k-spar, large (<1cm) masses of biotite altered to chorite and flaky sericite.	1	3.5	0	1.5	1	0.25	1	0.2	0.1			1				0.1		Intermittant faulting/shearing
			43.0-45.50m: Zone containing several narrow shear zones with grey clay gouge.	from 41-45m several narrow (1-3mm irregular quartz veinlets																	Clay gouge @43.0,43.30, 44.40-44.80 &45.40-45.50m
45.40	**47.45**	**Syenite Dyke**	Salmon pink, medium grained syenite (?) dyke. 85% K-spar, 10-15 % mafics (chlorite/carbonate altered). Upper and lower contacts sheared (angles unknown).				2.5		1	1											Upper and lower contacts destroyed due to shearing. Competent core; fractures distinct at 70-80 to c/a.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
47.45	**104.00**	**Granodiorite (Skeena?)**	Similar to above interval (8.2-45.40m) but seeing an increase in kaolinite. Slightly lower primary quartz content. As well some larger quartz +/-carbonate veinlets (53.35m). Trace very fine chalcocite disseminations within quartz vein. Local K-feldspar alteration evelopes. Noting very fine disseminations of chalcocite from ~39-45.40m.	At 53.35m 1.5cm wide quartz/pink calcite veinlet at 55 to c/a	2	0.01	1.5		1.5	1.5	0.25	0.5			0.5				0.01		Shear zones with clay gouge at: 47.45-47.90, 52.90, 53.45m. Fractures variable, but most at 45-55 to c/a.
			Sub-Sections of note:																		
			39.0-45.4m Widely scattered very fine disseminations of chalcocite in a sericite/chlorite/clay altered host.																		
			59.40-62.50 Strong sericite alteration (waxy green to locally white flaky clusters). Mafics totally altered to chlorite/sericite+/- epidote.		3		2	0.5	1	1		0.2									competent core. Fractures consistent at 55-65 to c/a. Hematite/calcite/chlorite on fractures
			67.0-71.0m Relatively fresh, unaltered equigranular granodiorite		0.5		1.5	0.5	0.25	1		0.01			1						
			64.0-66.0 Increasing epidote, also noting occasional hematitic slickenside					1.5												hem	Shear with clay gouge at 67.50

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			71.0-73.80m Broken, rubbly, faulted core. Grey clay gouge common throughout this interval.																		
			82.10-82.15m 5cm wide shear zone with hematitic/calcitic slickendsides. Shear cuts c/a at 35.																		78.0m hematitic slickensides cutting a 40 to c/a fracture.
			85.60-88.30 Sheared/faulted highly altered granodiorite. Pervasive sericite/hematitie/clay/chlorite throughout. Several 5-7mm wide quartz/carbonate veinlets at 87.35m. Minor chalcocite; generally spatially associated with hematite/specularite.		3		2	0.25	1.5	1.5	0.5								0.2	hem	
			~89.50-93.0m: Minor amounts of fracture controlled and disseminated chalcocite; typically associated with sericite+/- hematite. Increasing clay alteration.		2		1.5	0.1	2	0.5		0.2							0.3		fractures variable: 35-60. Locally narrow shears with grey clay gouge.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			93.0-103m: Less altered granodiorite. 20% grey anhedral quartz, 60% plagioclase (rarely as crowded euhedral crystals <3mm), 10% k-spar, 10% mafics (completely altered to chlorite/trace epidote/calcite). Rare minute specks of chalcocite (?)		0.5		0.75	0.25	0.75	0.25		0.1			1.5				trace		Competent core. Prominent fracture set at ~50 to c/a (these typically consist of 1mm chloritic partings.)
			103.65m: Several small aggregate crystal masses of chalcocite, trace native Cu (??).																		
104.00	**120.00**	**Fault zone**	Host rock (granodiorite) faulted and sheared over much of interval. Pervasive sericite alteration of phenocrysts and groundmass. Locally well developed potassic alteration. Local autobreccia. Abundant grey/green (sericite/chlorite stained) to pink (hematitic) clay gouge. Overall chalcocite content estimated to be .5 to 1%; Chalcocite is difficult to identify due to ubiquitous intermixing with very fine flaky sericite/muscovite/chlorite(?).	Rare narrow (<2mm) irregular discontinuous quartz veinlets.	2.5	tr?	1		1	0.5	tr	1						tr.	0.75	hem	Fault zone.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			104.0-105.5m Medium green, well sericitized/kaolinized; original texture destroyed. Strong shearing over lower 80cm of sample 783237. Disseminated fine aggregates of chalcocite/fine flaky sericite (note: chalcocite very difficult to positively identify here due to very fine granular habit and intermixing with sericite).		3	0.1	1.5	0.01	1	0.5								tr?	0.25		shearing with green to grey clay gouge from 104.85-105.5m. Strong hematite on fractures over lower portion of interval.
			105.5-108.75m: Highly k-spar altered, sheared (fault zone from 104.85 to 120.09m) clay altered; original texture largely destroyed. Noting significant amount of chalcocite as irregular disseminations and fracture fillings. Local strong kaolinization +/-potassic alteration. Locally hematitic clay gouge.		1	0.1	1		2	1		2.5						tr	0.75		Fault zone: 104.85 to 120.09m). Core is extremely broken/brecciated (autobreccia). White to grey/green clay gouge common.
			109-111.0 chalcocite/sericite along fractures. Chalcocite tends to be very fine grained and intermixed with fine flaky sericite. Rare wisps of fine bornite along margins of chalcocite.															tr	0.5		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			111.0-120.0m: Pale pink, bleached, sheared. Local salmon pink k-spar alteration. Sericite alteration throughout. Chalcocite occurs as small diffuse black spots. Several large irregular hematitic fracture fillings; also small disseminations of hematite (after magnetite).																	0.35		
120.00	**140.60**	**Altered Granodiorite**	Green/grey to pink, medium grained. Pervasive sericite alteration. Local salmon pink K-spar envelopes along fractures. Weak kaolin overprint?. ~25% quartz as large (<1cm) irregular crystals. ~50% plagioclase; largely destroyed (altered to fine sericite/clays). Locally crowded feldspar porphyritic texture; in these sections plagioclase phenocrysts are euhedral and pale green due to sericite/clay alteration. 0.5-1% chalcocite over interval as diffuse (mixed with sericite/muscovite) .5 to 2mm disseminations	Rare narrow (<4mm) irregular discontinuous quartz veinlets (ie. At 134.50m)	3	0.1	1		1	0.5	tr	0.75						0.1	0.75	hem	Core relatively competent. 8-10 fractures/m. Average 50 to c/a.
			Sub-sections of note:																		
			129.95m: 7mm wide massive irregular discontinuous seam of chalcocite (40 to c/a). Hematitic envelope. Minor bornite along margins.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			134.50m 7mm wide irregular quartz veinlet with clots and disseminations of chalcocite.																		
			139.20m 1cm wide seam of massive chalcocite (45 toc/a). Minor bornite along vein selvages. Associated narrow quartz/carbonate veinlet.																		
140.60	**152.50**	**Fault zone**	Faulted/altered (sericite,k-spar) granodiorite. Similar to previous section of faulting (104.0-120.0m). Locally 2-3% disseminated chalcocite; these disseminations give the core a spotted appearance. Minor crushed quartz within clay gouge (ie. At 140.6-140.8m)	Several crushed quartz/carbonate fragments within clay gouge.	3	0.5	1		0.1	0.25	0.2	1.5						0.1	1.5		
			Sub-sections of note:																		
			147.0-151.0m ~2% chalcocite as disseminations (up to 4mm) and fracture fillings. Sheared throughout, sericite/clay/minor hematite alteration. Irregular quartz veinlets (<1cm) at 148.0m.		3	0.1	1		1	0.5	0.1	0.2							2		
			151.0-152.50m Locally semimassive seams of chalcocite/bornite; one 2cm wide occurrence at 152.05m																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
152.50	**202.39**	**Granodiorite**	Gradational transition into fresh/unaltered granodiorite. 25% quartz, 55% sub-hedral to euhedral 3mm average plagioclase phenocrysts, 10% k-spar, 10-12% mafics (weakly chlorite/carbonate altered), 1% magnetite. Competent core (many pieces >30cm).		tr		1	tr	0.25	0.5											
			Sub-sections of note:		0.1		0.5			0.1					1						
			162.0-162.12m Breccia; matrix supported with sub-rounded to sub-angular granodiorite clasts to 2cm. Matrix chloritized+/-calcite. Two occurences of **bornite** as 1-2mm wide discontinuous fracture fillings. Local white powdery/crumbly clay/calcite coatings on fractures (ie at: 192.8,199.30).																		
			167.85-167.95 Narrow hematitic shear. Trace chalcocite?																		
			187.70-190.5m Fault zone. Green to grey clay gouge from 188.70 to 189.5m. Sericite alteration, local clay alteration of feldspar phenocrysts in granodiorite fragments.		3		2		1	0.5											
			199-200.39m Several narrow indistinct quartz/carbonate/chlorite envelopes along 45 to c/a fractures.																		
			eoh at 202.39																		

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: DJ Drilling
CLAIM:	UTM-E: 645818	START DATE: 17-Nov-07
OVERBURDEN: 5.83	UTM-N: 5582149	FINISH DATE: 21-Nov-07
TOTAL DEPTH: 203.30m	ELEVATION: 1569 m	LOGGED BY: Rob Montgomery
CORE SIZE: NQ	AZIMUTH: 090	
	DIP: -50	

DOWNHOLE SURVEY
INSTRUMENT: Acid Test

DEPTH	AZIMUTH	DIP
307 ft		-55
667 ft		-53

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
0.00	**5.83**	OVB	Casing to 22'																		
5.83	**62.25**	**Granodiorite (Skeena?)**	Relatively fresh granodiorite. (*becoming more altered over lower portion of interval*). Grey/green to pink equigranular, medium-grained. 25-30% grey, anhedral quartz, 50-60% sub-hedral to euhedral plagioclase (local weakly sericitized, 10% salmon pink interstitial k-spar, 5-7% mafics (chlorite/calcite altered), 1/2-1% magnetite.		0.25	tr	1	tr	0.1	0.2					1							Competent core. Most fractures at 45-50 to c/a.
			Sub-sections of note:																		
			27.95-30.90m :several 2.4mm quartz/carbonate veins at 65-75 to c/a. Section broken/rubbly with 10cm wide shear zone at 30.0m. Local epidote																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			34.10-62.25m: Increasing sericitic alteration. Intermittant narrow fault zones throughout this interval; local greenish/grey clay gouge. Core broken throughout. Locally weakly developed potassic evelopes proximal to fractures. Several 1-3mm irregular quartz/carbonate veinlets. Only trace very fine grained chalcocite noted (with hematite or marginal to quartz veinlets.	Several 1-3mm quartz/ carbonate veinlets seen between ~37 and 53m.	2.5	0.2	1	0.1	0.25	1	0.25	0.25			0.75				0.1	hem	Fracture angles quite variable but most at 45-50 to c/a.
			55.0-62.25: Increasing sericite. Hematitic fracture fillings <2cm (may contain minor very fine grained chalcocite; not identifiable).		3.5	0.5	1.5	tr	0.5	0.5		tr						.1?		
62.25	**82.00**	**'Unaltered' Granodiorite**	Grey/pink medium grained, equigranular, 'fresh'. 25% grey quartz, 50% sub-hedral 2-3mm average plagioclase, 5% interstitial k-spar, 10% mafics (primarily weakly chloritized biotite books up to 1cm). 1% magnetite.		tr		0.25								1						
			Sub-sections of note:																		
			71.60-73.50: Increasing sericite alteration of plagioclase, minor shearing with grey clay gouge at 73.10m. 5cm wide shear zone with grey/green to pink clay gouge at 79.25m		0.25		0.25			0.5					1						Competent core, prominent fracture set at 45-50 to c/a

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
82.00	**93.65**	**Altered granodiorite /Fault zone.**	Grey/green to pink, bleached, sericitized faulted granodiorite. Core extremely broken. Local kaolinization of plagioclase. Magnetite partially destroyed.Minor hematite on fractures. Late stage calcite veinlets to 1cm.	7mm quartz/carbonate veinlet at 45 to c/a with minor chalcocite/bornite blebs.	1.5		1		0.5	1	tr				0.5				tr		**Fault zone from 84.4 to 93.65m**
93.65	**96.90**	**Mafic dyke**	Dark green fine-grained mafic dyke. Moderately to strongly magnetic. Cut by hairline to 3cm wide calcite veinlets. Rare calcite amygdules.Upper contact sharp at 50 to c/a. Lower contact sharp at 25 to c/a.				0.5			1.5					2						
96.90	**101.70**	**Potassic altered Granodiorite / quartz monzonite(?)**	Salmon pink to grey granodiorite(?). Primary texture partially destroyed. Potassic overprint gives core a salmon pink color. ~.5% fracture controlled chalcocite/bornite +/- disseminated chalcocite/bornite.	1-2 1-3mm quartz veins per metre.	0.5		1			0.5	0.5	1.5						0.1	0.5		fractures 45-50 to c/a. 10/metre.
			Sub-sections of note:																		
			101.20-101.70: 1-2% chalcocite as disseminations and fracture fillings. Core highly broken; minor core loss over this interval.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
101.70	**135.90**	**Sericite/k-spar altered Granodiorite**	Green/pink medium grained; well altered. Pervasive sericitic alteration of plagiclase. Sericite is also seen as evelopes along fractures (at 120.0m a 2cm wide sericite envelope cuts fresh granodiorite). Intermittant salmon pink potassic alteration (overprinting sericite?). Narrow shear zones +/- clay gouge common. Sporadic narrow quartz/carbonate veinlets. Kaolinized plagioclase along some fractures. Chalcocite +/- bornite primarily as narrow fracture fillings; locally 2-4mm disseminations.	Widely spaced 2-5mm wide quartz/carbonate veinlets. Typically at 45-50 to c/a. Minor chalcocite/bornite as disseminations and along vein selvages.	3	0.2	1	0.1	0.2	1	0.2	1			0.5			0.2	0.5	hem	Shear zones with clay gouge at: 108.5-108.72, 107.1-107.3, 118.35, 130.30-130.40134.60 m. Overall core quite competent. Two fracture sets: 1st 55-60 to c/a, 2nd 25-30 to c/a.
			Sub-sections of note:																		
			113.50-116.0m: Clay alteration of plagioclase along fractures.																		
			117.1-7.7m: Several 2-3mm wide chalcocite/bornite/quartz/carbonate veinlets at 50 to c/a. Host sericite/k-spar/muscovite? Altered.																		
			119.7-121.70m: Fresh granodiorite with local kaolinized plagioclase and strong sericite 'soaking' along fractures.	1 cm wide quartz/calcite vein (70 to c/a) at 119.40m.																	

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			121.70-135.90m Mineralized granodiorite. Local diffuse disseminations of chalcocite/bornite (up to ~1%). Heavier concentrations of chalcocite/bornite occur intermixed with hematite/chlorite/sericite as 1-10mm wide fracture fillings. Pervasive sericite/chlorite/muscovite? +/-k-spar alteration over most of interval. Noting an increase in quartz veinlets (~2-3/metre).	2-3 quartz+/-carbonate veinlets/metre.	3	0.5	1.5	tr	0.25	1	0.5	1			0.5			0.2	0.75	hem.	Fractures average 45-55 to c/a. Several narrow (<2cm) shear zones (ie. At 132.85,134.70 m)
135.90	**136.40**	**Aplite dyke**	Pink/brown fine-medium grained aplite dyke; sugary texture. Spotted appearance due to iron rich haloes surrounding hematite (after magnetite). Upper contact sharp at 25 to c/a. Lower contact sharp/irregular at ~40 to c/a.		0.1		1			0.5										hem.	

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
136.40	**145.00**	**Sericite Altered Granodiorite**	Medium-dark green strongly sericitized granodiorite. 15-20% quartz as large (up to 7mm) irregular interstitial infillings . Feldspars largely destroyed. Hematite +/- minor very fine grained chalcocite/bornite on fracture partings. Locally up to 1% chalcocite +/-bornite as 'fuzzy' disseminations (intermixed with sericite/ +/-fine flaky muscovite).	2-3 1cm quartz/carbonate veinlets per metre. Trace associated chalcocite/bornite.	3	0.2	1	0.1	0.1	0.5	0.75							0.1	0.25	hem.	136.70 1.5cm wide quartz/carbonate veinlet at 25 to c/a.
145.00	**158.00**	**Faulted/sericite altered Granodiorite**	Interval strongly faulted/sheared. Grey to green clay gouge throughout. Chalcocite +/- bornite as disseminations and fracture filling - highest concentrations seen between 140 and 150m. Several broken quartz vein fragments within sheared sections.		2	0.5	1		1.5	0.5	tr	0.2						0.25	0.5	hem.	Faulting/shearing throughout interval.
			Sub-sections of note:																		
			148.90-149.0 Disseminations and clots of bornite/chalcocite up to 2cm wide.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
158.00	**164.00**	**Granodiorite (unaltered to weakly sericitized**	Grey to pale green medium grained, equigranular. Locally weak sericite alteration or plagioclase. Locally crowded, euhedral plagioclase phenocrysts. 10-15% mafics (large chlorite altered biotite books). Patchy epidote along fractures. Hematitic staining/fractures +/-slickensides over top 1.5m of interval.		0.5		1	0.25	0.1	0.5					1							Competent core; fractures at 45-50 to c/a. 3-4 fractures/metre.
164.00	**176.10**	**Granodiorite (moderately sericite/hematite +/- k-spar altered)**	Variable altered interval; some sections quite fresh. Local well developed sericite/chlorite/hematite alteration. Minor amounts of chalcocite/bornite noted on fractures (ie at 175.75m) and as local diffuse blebs intermixed with sericite/hematite/muscovite?.		1	tr	1	0.1	tr	0.5		0.75			0.5			tr	0.25	hem	Low angle calcite/clay fracture at 178.50m.
			Sub-sections of note:				`														
			171.35-171.72m Salmon pink aplite dyke S.T.A (135.9-136.40m)																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
176.10	**203.30**	**Granodiorite (weak propylitic alteration).**	Much fresher granodiorite overall. Local sericitic alteration of feldspar phenocrysts. Local epidote on fractures. Narrow potassic envelopes along occasional fractures. Mafics altering to chlorite and epidote. Chalcocite/bornite noted on one fracture (95.15m). Disseminated chalcocite/bornite not noted. Pink zeolites on fractures at 203.25m.		0.5		0.5	0.5		0.5		0.25			1			tr	tr	zeol.	competent core. No significant shear zones noted. Fractures at 45 and 75 to c/a.
			Sub-sections of note:																		
			Bornite/chalcocite on fracture at 95.15m.																		
			193.36-196.10 Several narrow (1-5cm wide) salmon pink aplite dykes. Average 45 to c/a.																		
			e.o.h. at 203.30m																		

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: DJ Drilling
CLAIM:	UTM-E: 645845	START DATE: 22-Nov-07
OVERBURDEN: 7.62	UTM-N: 5582000	FINISH DATE: 26-Nov-07
TOTAL DEPTH: 197.21 m	ELEVATION: 1565 m	LOGGED BY: Rob Montgomery
CORE SIZE: NQ	AZIMUTH: 090	
	DIP: -50	

DOWNHOLE SURVEY
INSTRUMENT: Acid Test

DEPTH	AZIMUTH	DIP
307 ft		-54
637 ft		-53

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
0.00	**7.62**	**OVB**	Casing to 25'																		
7.62	**65.50**	**Altered Granodiorite**	Green/grey to salmon pink, medium grained. Weak to moderate sericite alteration throughout (plagioclase phenocrysts and locally groundmass). Local weak salmon pink potassic alteration. Interval has a 'spotted appearance' due to 5-7% chlorite altered mafic clots and ~1% small (1-2mm average) hematite disseminations (after magnetite); locally these are intermixed with minor amounts of very fine grained chalcocite. 'Metallic' chalcocite is not noted in this interval. Several 2-7mm quartz/carbontate veinlets (average 45 to c/a) with hematite +/- chalcocite(?) along vein selvages.	.5-1 quartz veinlet/metre	1.5		1	0.1		1	0.25	0.25			0.5				0.1	hem	Rubbly shear zones with minor grey/white clay gouge noted at: 12.90-15.00, 19.50-21.00, 26.90-27.95, 37.80-38.5m
			Sub-sections of note:																		
			15.3-15.50m several 5-10mm quartz/carbonate veinlets at 45-55 to c/a.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			56.60-57.00m shear zone: green/pink clay gouge.																		
65.50	**125.35**	**Granodiorite / weak propylitic alteration. (Skeena?)**	25-30% quartz (occasionally as sub-hedral phenocrysts), 50% plagioclase, 5-10% interstitial k-spar, 5-7% mafics (chlorite +/- epidote altered), 1% magnetite (locally to hematite). Weak to moderate epidote alteration throughout interval.		0.5		0.75	1		1					1				tr	hem/ epidote	fractures average 45-55 to c/a.
			Sub-sections of note:																		
			75.0-76.2m Shear zone with green (sericite/epidote) clay gouge throughout.																		
			83.20 1.2cm wide milky white quartz vein. Broken; core angle destroyed. Chlorite and hematite on margins.																		
			85.0-85.4m Salmon pink medium grained monzonite dyke. Epidote on fractures		tr	0.1	0.5	1		0.25					0.1						
			88.0-89.5m Increasing epidote/calcite/kaolinite.																		dominant fracture set at 35 to c/a.
			87.45m Large low angle (20 to c/a) vug infilled with crystalline calcite.																		89.5-90.6m Fault zone. Grey/green chlorite gouge Mixed hematite/chalcocite on fractures (~.5/%).

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			101.50-105.77 Fault zone/shearing with green/grey clay gouge throughout. Local chloritic/sericitic slickensides. ~0.5% chalcocite +/- bornite as disseminations and fracture coatings.	1-2/metre	1.5	0.25	1	tr	1	1	0.5	0.25						0.1	0.5		
			105.77-109.70m Green/grey to salmon pink variably bleached/silicified/k-spar altered section. Local moderate to strong silicification. Mafics chlorite/clay altered. 15cm wide aplitic dyke at 107.40m (45 to c/a) Dyke is silicified.		1		0.5		0.25	0.1	2	0.25				1		tr?	0.25	hem	
			109.70-111.0m Pale green bleached clay/sericite altered section. Several 1-2mm quartz/carbonate/hematite veinlets. ~1/2 to 1% chalcocite as disseminations with hematite/sericite/muscovite.																0.75		
			114.0-125m Overall 'fresher' granodiorite; intermittant narrow sections of shearing. Minor disseminated chalcocite (with hematite/fine flaky sericite) Rare occurrence of metallic grey/blue chalcocite.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
125.35	**133.10**	**Weakly altered Granodiorite**	Plagioclase weakly to moderatedly sericitized. 20-25% anhedral quartz, 50% plagioclase as sub to euhedral 2-3mm average phenocrysts (locally weakly crowded texture). Strong hematitic fractures. Shear with clay gouge at 129.85-130.10m. Shear contains 2-3% chalcocite. Overall interval contains ~.5-1% chlacocite/bornite as disseminations with hematite/sericite and as larger blebs within quartz veinlets (ie. at 126.45m 3mm wide quartz veinlet at 80 to c/a with 1-2cm long chalcocite/bornite blebs)	1-2/metre (averaging 50-60 to c/a).	0.75	0.5	0.5			0.25	0.5	0.25						0.1	0.75	hem.	

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
133.10	**148.10**	**Mineralized Granodiorite**	Interval of highly mineralized, sericite/muscovite/chlorite altered Granodiorite? (original texture largely destroyed). 4-5% chalcocite/bornite over interval. Locally 7-10% chalcocite/bornite. Narrow sections (<30cm) with semi-massive chalcocite/bornite Host rock highly sericitized. Fine flaky muscovite throughout. Biotite books (< 5-7mm) completely altered to chlorite/sericite/clay/carbonate. *Quartz as large ameboid/anhedral phenocrysts (up to 1cm in width).*	Rare 1-2 mm calcite>quartz veinlets noted over interval. Also occasional irregular late stage open spaces infilled with calcite.	3.5	2	1		0.25	0.25		tr						1.5	4		Almost complete core recovery over interval. Narrow shears tend to cut c/a at 45 to c/a (ie at 137.55m). Angles of shear zones to c/a suggests a vertical or steep west dipping structure. Fractures somewhat variable but typically at 50 to c/a, second weak set at 25 to c/a.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			137.55-139.60m (Sample 783389) contains ~8-10% chalcocite/bornite as large irregular clots, disseminations and semi-massive seams. *137.95-138.25m semi-massive chalcocite/bornite (~25%).* Host rock shows *25-30%* 7mm average ameboid/anhedral quartz.															2	8		
			139.60-141.25m Fault zone. Total of 1.20m of pale grey/green clay gouge over interval. 1-2% ground chalcocite/semi-massive chalcocite at top of interval.																		
			134.30-134.50m Pitted/vuggy, pink (due to k-spar/hematite) Monzonite dyke. Mafics altered to chlorite. Mechancial pitting/kaolinization may be due to strong effects of hydrothermal fluids. *Similar to previous pitted dyke*.																		
			141.25-142.90m ~4-5% chalcocite>bornite. Lower 70cm of interval contains 7-10% chalcocite/bornite as disseminations and large irregular 'metallic' masses.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			142.90-144.40m. ~4-5% chalcocite/bornite (chalcocite>bornite) Weak local k-spar alteration																		Chloritic/calcitic fractures average 35-40 to c/a (4-5/m). Chloritic slickensides on a 50 to c/a fracture at 144.20m.
			146.55-148.1m ~1% chlacocite/minor bornite. Host rock showing original texture (30%quartz,50-55%plagioclase, 5%interstitial k-spar, 5-7% mafics 1/2% magnetite) . Moderate sericitic alteration of plagioclase, mafics chloritized.																		146.55m 2cm wide shear with clay gouge; 45 to c/a.
148.10	**186.20**	**Granodiorite (Skeena?)**	Grey/green to pale pink (k-spar alteration) medium grained, equigranular. Locally weak sericitization/k-spar envelopes. Only sparse chalcocite mineralization noted (one example of fracture controlled chalcocite at 161.83m. Locally 'fresh' biotite books.		0.25	0.1	0.5	tr	0.1	0.25		0.1							tr		competent core; near 100% recovery. Fractures average 50 to c/a. One shear zone at 171.2m (5cm wide with hematite and minor crushed quartz/calcite.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			161.83-163.90m 7mm wide 25 to c/a chalcocite/quartz veinlet. Trace disseminated chalcocite/bornite over lower half of interval.																		
			171.20-171.80m Pale pink, pitted/vuggy monzonite dyke. 85% plagioclase, 10% chloritized mafics, hematitic staining throughout.				1		0.25	0.25						1				hem	
			176.0-178.70m Several narrow sections with waxy green sericitic alteration of feldspars. White clay/calcite on several fractures.																		
186.20	**192.00**	**Dyke/Granodiorite**	Pink to green fine-grained aplite to syenite?. Sugary texture. Dyke locally exhibits a weakly porphyritic texture (sub-hedral 1-3mm plagioclase phenocrysts). **Sequence of intercalated dyke and intrusive: dyke only about 10-20cm wide but intersected at a very low angle to the c/a.**	Irregular milky white quartz vein at 188.95m	tr		0.5	0.25		0.5	tr										
			Sub-sections of note:																		
			186.75-187.50m Late stage pink zeolite veinlets.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
192.00	**197.21**	**Granodiorite**	Grey medium-grained, fresh/unaltered. Local weak chloritization of mafics. Chlorite/calcite/trace epidote on fractures. Compositionally S.T.A (148.1-186.20m) except only 2-3% interstitial k-spar. Locally potassic alteration envelopes along fractures.		0.1		0.25	0.1	tr	0.25		0.1									193.55m 5cm wide shear/crush zone.
			e.o.h at 197.21m																		

Meridian Mapping Ltd.
Diamond Drill Log
Hole No. R07- 12

RATERIA PROJECT

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.	DOWNHOLE SURVEY
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: DJ Drilling	INSTRUMENT: Acid Test
CLAIM:	UTM-E: 645896	START DATE: 26-Nov-07	DEPTH / AZIMUTH / DIP
OVERBURDEN: 9.15	UTM-N: 5581852	FINISH DATE: 29-Nov-07	
TOTAL DEPTH: 187.45 m	ELEVATION: 1560 m	LOGGED BY: Rob Montgomery	307 ft / / -52
CORE SIZE: NQ	AZIMUTH: 090		615 ft / / -52
	DIP: -50		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
0.00	**9.15**	OVB	Casing to 30'																		
9.15	**113.40**	**Granodiorite (Skenna?)**	Grey to pale green medium grained equigranular. Locally moderate to strong sericite alteration of plagioclase. Calcite common on fractures. Locally pink zeolites noted on fratures. Rare chalcocite noted on fractures and as minor disseminations with hematite and fine sericite. Composition: 25% subhedral to ameboid quartz, 50-60% plagioclase, 7-10% mafics (predominantly chloritized biotite, rare altered hornblende lath?), 3-4% k-spar, .5% magntetite.	Rare quartz/calcite veinlet; variable angles to the c/a. (calcite>quartz).	1.5	0.1	1	1	0.5	1		0.1			0.5				tr		Core broken and rubbly throughout much of interval. Narrow shears with minor clay gouge at: 32.60, 35.0,38.0m.
			Sub-sections of note:																		
			11.25-20.42m Intermittant strong sericitic alteration. Large irregular epidote infillings with calcite/chlorite/clays at 21.85-21.95m.																		
			23.90-38.0m Broken/rubbly/faulted core. Calcite/chlorite on fractures with minor chlacocite.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			22.0m Pink low angle aplitic dyke (10cm wide).																		
			36.0-41.0m Core extremely broken/sheared. ~1/2% chalcocite; primarily as fracture fillings. Abundant calcite +/-pink zeolites.																		
																					45.53-46.33 Fault; clay gouge. ~1/2% chalcocite (ground up in gouge).
																					Narrow shears with clay gouge at 47.70, 48.10, 48.35m
			51.50-53.95m Fault zone. Intermittant grey/green clay gouge throughout; rock well bleached. Calcite/chlorite/+/- epidote on fractures and local slickensides.																		
			62.0-68.85m Well sericitized granodiorite, local K-spar envelopes. Noting an increase in fracture controlled chalcocite in this section. Locally epidote and calcite on fractures.																		Narrow (<5cm)shear zones with white/grey/green clay gouge at: 64.20, 64.80, 80.5m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			74.0-77.08m Bleached, sericite/chlorite altered. Locally epidote on fractures. Late stage calcite veinlets (average 40 to c/a). Brick red hematite seams up to 4mm wide. Below 77.08 rock becomes much fresher with late stage calcite/zeolite veinlets common (25 to c/a)		2	0.5	1.5	0.1	0.25	1										tr	hem	
			94.20-94.25 Fine grained disseminated chalcocite; intermixed with sericite/muscovite.																		
			note 1/2%-1% widely scattered chloritic hornblende laths from 77.08-106.70																		
113.40	**116.05**	**Monzonite dyke**	Salmon pink, medium grained. Feldspar porphyritic; locally 3mm (average) euhedral, crowded plagioclase phenocrysts. Composition: 65% plagioclase, 25% k-spar, 3-5% quartz, 2-3% mafics. Cut by late stage calcite/epidote +/- pink zeolite veinlets		tr		tr	0.5		1										zeo.	117.25-17.60m Weak shear zone; broken/crumbly core.
116.05	**125.10**	**Granodiorite**	Medium grained, equigranular, quite fresh; local weak sericite alteration. 20% anhedral quartz,50% plagioclase,15% k-spar, 5% mafics.1% magnetite.		0.25		0.5	0.25		1		tr			1					zeo.	

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
125.10	**125.90**	**Aplite/Syenite Dyke**	Salmon pink, fine grained, weak feldspar porphyritic texture. Exhibits a sugary texture under the hand lens. Upper and lower contacts sharp/blurred at ~50 c/a. One 1cm wide 35 to c/a calcite/ankerite veinlet.					0.1		0.2											
125.90	**165.10**	**Granodiorite**	Grey to pink medium to coarse grained. Occasional large (<1.5cm) megacrysts of plagioclase. Large weakly chloritized mafic clots common (<1cm). Composition: 20% anhedral grey quartz, 50% 2-3mm euhedral plagioclase phenocrysts (locally crowded texture), 15% interstitial k-spar, mafics somewhat variable - 5-10%. 1% magnetite.		0.1		0.25	0.5	0.25	0.25					1						Competent core. 2 fracture sets: first at 35-40 to c/a, second at 70-80 to c/a.
			Sub-sections of note:																		
			127.40 Minor chalcocite with epidote/calcite on a 45 to c/a fracture.																		
			134-136m Broken/rubbly core; increasing epidote/clay on fractures.																		
			143.40 10cm section of rubbly core. Chlorite/epidote on fractures.																		
			153.0-153.1m Shear zone; 5cm of green/grey clay gouge.																		
			143.75-146.2m Weakly kaolinized plagioclase phenocrysts.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
165.10	169.75	Fault zone	Total of 1.2m of clay gouge over interval. Broken/rubbly core throughout. Strong hematite on fractures; seams up to 2cm wide.		0.5		1	0.25	0.5	0.5						2					
169.75	**187.45**	**Granodiorite**	Grey medium grained, fresh granodiorite. Occasional hematitic fractures. Some sections show moderate sericitic alteration. Composition: 25% grey anhedral to ameboid quartz, 60% plagioclase, 5-7% interstitial k-spar, 7-10% mafics (predominantly biotite, minor hornblende) as large, fresh to weakly chloritized clots.																		
			Sub-sections of note:																		
			186.80-187.0m Rubbly/crumbly core.																		
			e.o.h at 187.45																		

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: DJ Drilling
CLAIM:	UTM-E: 645843	START DATE: 29-Nov-07
OVERBURDEN: 6.1	UTM-N: 5582000	FINISH DATE: 10-Dec-07
TOTAL DEPTH: 388.22 m	ELEVATION: 1565 m	LOGGED BY: Rob Montgomery
CORE SIZE: NQ	AZIMUTH: 090	
	DIP: -70	

DOWNHOLE SURVEY
INSTRUMENT: Acid Test

DEPTH	AZIMUTH	DIP
637 ft		-71
1274 ft		-69.5

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
0.00	**6.10**	OVB	Casing to 20'																		
6.10	**91.15**	**Sericitized Granodiorite**	Green (due to pervasive sericite alteration) medium grained, equigranular (in fresher sections). Distinct 'waxy' green due to intense sericite/chlorite alteration. Broken/rubbly core over upper 25m. Narrow shear zones with green/grey clay gouge common. Numerous slickensides (chloritic/hematitic/+/-calcite). Trace chalcocite as diffuse intergrowths with hematite/sericite/chlorite. *Difficult to estimate percentage of chacocite*. Composition of host rock: 25% sub-hedral grey quartz, 50-60% sub-hedral to euhedral plagioclase, 5-7% mafics (primarily biotite, minor small hornblende laths), 2-5% interstitial k-spar, 1/2-1% primary magnetite in fresh/unaltered sections.		3	0.1	1	0.1	0.5	0.5		0.1			0.5	0.25			tr		Fractures quite variable but most at either 55-60 to c/a. A few low angle (<20) fractures noted. Shear zones with clay gouge at: 9.75, 11.70, 13.25 (80 to c/a), 18.10 (10 to c/a),24.65m.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			16.27-19.4m Faulting/shearing throughout with green clay gouge; one small shear at 18.10 cuts c/a at 10 degrees. Trace very fine chalcocite intermixed with hematite/sericite.																		
			33.0-33.75m Bleached, well sericitized. Clay alteration on fractures. Minor epidote with calcite along irregular hairline fractues.																tr		33.3m: 2 cm wide shear zone with green clay gouge. 50 to c/a.
			37.30-39.30m: Green/grey equigranular medium grained quartz diorite *(~20% grey sub-hedral quartz, 70% euhedral, locally sericitized plagioclase, 7% chlorite/epidote altered mafics, no primary k-spar)* . Several very well defined strongly sericitized alteration haloes adjacent to 45 to c/a fractures.		3.5	1	1	1	1	0.5					0.5				tr		
			41.30-41.90m: Shear zone; comprised of 40% green/grey clay gouge. Slickensides with hematite/chlorite/calcite.																tr		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			46.95-48.35m Pale grey, moderate to strong																		Shear zones at: 45.20-45.72, 46.34-46.94 (strong bleaching of host rock through these intervals.
																					Shear zones at: 50.50-50.75, 54.0-54.40 (including 20cm of green/grey clay gouge),
			58.10-58.75m Shear/Breccia zone. Autobreccia over top 12 cm of interval. Large (<2cm) hematitic clasts, hematitic to clay gouge matrix.																		
			58.75-60.45m Pale grey bleached/sheared section. Grey/green clay gouge throughout. Hematitic/kaolinized. Minor chalcocite as diffuse disseminations.																		
			85.95-85.97m: 2cm wide quartz/hematite vein. 25 to c/a. Tracevery fine disseminated chalcocite along vein selvages. @ 82.80 3-5mm disseminations and blebs of chalcocite along 30 to c/a.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
91.15	**93.30**	**Quartz monzonite dyke**	25% quartz, 35% plagioclase (weakly sericitized), 35% k-spar. 1% primary magnetite. Minor sericite/epidote along fractures.		0.5		0.1	0.25		tr					1						Upper and lower contacts gradational/broken.
93.30	**107.00**	**Altered Granodiorite /quartz monzonite.**	Section of intercalated pink quartz monzonite and grey/green sericitized granodiorite.	.5 to 1/metre.	2.5	0.25	0.5	0.25	0.25	0.5	tr	0.25			0.25			tr	.25?		Competent: fractures at 35-50 to c/a
			Sub-sections of note:																		
			95.0-99.0m: Strongly sericitized. Large ameboid quartz infillings. Chlorite alteration of mafics. Interval unusual in the number of wide (up to 2cm) brick red hematite seams (average 45 to c/a). These occur with abundant chlorite/calcite +/- very fine grained chalcocite.																		
			99.06-100.1m Highly fractured/rubbly core. Pink, weakly bleached, minor epidote on fractures.																		
			103.0-107m Pale green to pink. Intermittant shearing with minor green clay gouge. Interval strongly bleached. Bleached sections sericitized/kaolinized. Note: Trace chalcopyrite in a bleached zone at 104.60m																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
107.00	**114.40**	**Dykes**	107.0-114.40m: Interval of intercalated, bleached sericite/muscovite altered quartz monzonite and aplitic dykes. Aplite dykes are pale salmon pink/green with a fine 'sugary' texture. Under the handlens these are altered to abundant very fine sericite and flaky muscovite. At 113.20m scattered blebs of metallic chalcocite and trace bornite.		1.5	1	0.5	tr	tr	0.25					tr			tr	tr		Fractures 30-45 to c/a.
114.40	**133.27**	**Altered Granodiorite**	~20% of interval 'fresh' granodiorite (30% quartz, 50% plagioclase, 10% interstitial k-spar, 5% mafics). Remainder of interval well bleached/strongly sericitized. Chlorite/carbonate/epidote along fractures. Local kaolinization. Local irregular quartz veining with scattered disseminated chalcocite +/-bornite.	~1/metre	2.5	1	1	0.25	1	0.5	0.25				0.75	1		tr	.35?		Most fractures/quartz veinlets at 35-45 to c/a.
			Sub-sections of note:																		
			119.0-119.30m: sheared, irregular quartz vein with hematite and chalcocite at 119.25m. Hematite as fracture fillings and with calcite on slickensides.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			120.4-120.9m: Sheared/broken quartz vein material with widely scattered disseminations of chalcocite. Green (chloritic) clay gouge.																		
			122.35-122.50m Pink, fine-grained aplite dyke. Sharp contacts; cuts c/a at ~25 (true width ~ 5cm).																		
			123.25-124.0m: Kaolinized granodiorite. White clays/calcite on fractures. Drusy vugs with calcite crystal infillings. Fractures with slickensides at 35 to c/a.																		
			124.05-136.0m Increasing sericite alteration. Chlorite/carbonate +/-epidote on fractures. Minor chalcocite seen on fractures and as widely scattered disseminations.		3.5	0.25	0.5	0.5	0.25	0.5		0.1			0.25			tr	.25?		127.70-128.0m Shear zone.
133.27	**136.00**	**Sericitized Granodiorite ?**	133.27-136.0m Bleached, sericitized. Pale olive green. 1/2% fine disseminated chalcocite. 1.5cm white quartz/carbonate veinlet at 135.0m.	2 quartz veinlets/metre.	3	1	1	tr	0.25	0.25	0.25								0.5		2 fracture sets: 45 to c/a, and 15 to c/a.
136.00	**164.50**	**Variably altered Granodiorite .**	144.20m 5 cm wide olive green, very fine grained aplite? Dyke at 25 to c/a. Bounded on either side by 7mm wide white quartz veins. Dyke is spotted with very fine grained hematite 'specks'.																		Shear zones with sericite/hematite/chlorite at: 136.60, 140.0,140.45 m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			147.50m 4cm wide grey quartz vein with irregular hematite seams along margin. 147.50-147.8m Shear zone with green clay gouge and crushed white/grey quartz vein fragments.																		
			148.0-164.50m Section of 'fresher' granodiorite. Numerous narrow sericitic haloes along 45-50 to c/a fractures. Locally hematitic/chloritic/carbonate fractures. Only very rare chalcocite disseminations therefore interval not sampled.																		
164.50	**178.78**	**Fault zone**	Crushed broken/sheared core. Intermittant shearing throughout interval. Numerous sections with green/grey clay gouge. (difficult drilling; 'squeezing'). Hematitic fractures with minor chalcocite. Chloritic/calcite slickensides noted. Narrow aplite dyke? At 169.75-170.5m.	.5/metre	2.5	0.25	0.25		2	1									.5?	hem.	Most fractures at ~50 to c/a. Hematitic/chloritic/calcite slickensides at 171.45m cutting across a 15 to c/a fracture at 80 degreees.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			169.75-170.50: Salmon pink/pale green quartz monzonite. Plagioclase sericitized. Low angle to c/a; true thickness ~5cm.		1																Green/grey clay gouge at: 170.6-0171.1, 171.60-171.9, 178.78-180.67, 179.85-180.0m
178.78	**241.25**	**Mineralized/faulted zone.**	**178.78-241.25:Mineralized/faulted zone.** Notable increase in chalcocite/bornite mineralization. *Likely represents the mineralized zone intersected in 07-R-11 (-50 dip).* Host rock well bleached, moderate to locally intense sericite+/-muscovite alteration. Locally sections of weak-moderate silicification. ~1 quartz vein/m over interval; veinlets average 5-10mm and cut c/a at ~45-55. Sporadic, weak k-spar alteration	~1/metre	3	1	1			0.5	0.25	0.1				1		0.25	1.0 ?		
			Sub-sections of note:																		
			184.75-184.85m. Salmon pink to brown aplite dyke. Sharp, 50 to c/a upper contact. Lower contact destroyed.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			187.50-188.0m: 3-5% fracture controlled chalcocite +/- bornite. Peacock purple bornite in a bleached sericite/muscovite altered host. Hematitic fractures. 2cm wide white quartz vein at 188.1m (50 to c/a).																		
			188.70-191.55m Quartz rich section (~30% anhedral to ameboid quartz). Several 1-3cm wide 50-60 to c/a quartz/carbonate veinlets with minor disseminated peacock bornite and lessor grey metallic chalcocite. Fractures with hematite +/- chalcocite.																		
			191.55-194.40m Monzonite dyke. Salmon pink/brown 'spotted' appearance due to abundant mafic clots (25% mafics). 25-40 to c/a hematitic fractures.				1.5			0.25						2			tr?		Upper and lower contacts of dyke broken/destroyed.
			199.90-200.10m semi-massive chalcocite/bornite in a strongly sericitized/hematitic host.															1	8		Shear zones with grey/green clay gouge at: 195.59-19565, 200.45-200.60, 203.62-203.85m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			204.30-204.80m: Shear zone with chloritic slickensides. Noting minor smeared bornite on slickensides.																		
			204.80-215.10m Green to pale pink/grey. Strongly sericitized, local weak/patchy k-spar flooding.		3	1	1		0.5	0.5					0.1				0.1	0.5		
			215.10-216.50m: Fault zone. Interval comprised of 85% green/grey clay gouge. 10cm wide zone of hematitic gouge at 215.30m; distinct fabric at 35 to c/a.This may contain very fine grained intermixed chalcocite.																0.1	0.5		
																					216.95-218.54m: Fault zone. Two distinct fracture sets: sub-parallel to c/a and 40 to c/a. Hematitic/chloritic slickensides noted at 218.54m.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			218.54-225.80m: Green/grey strongly sericitized (original texture almost completely destroyed). ~1% combined chalcocite/bornite as diffuse disseminations (mixed with specularite and sericite/muscovite) and fracture fillings. Interval well bleached.	1-2/metre.	3.5	1	1		0.5	0.5								0.25	0.75	hem.	
																		tr	.5%?		225.80-229.25m: Fault zone, 25-30% grey/green clay gouge. Minor broken quartz vein material in gouge.
			230.75-231.25m: **Cave**																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			231.25-241.25m: Strong sericitization, local pale salmon pink potassic alteration (mottled appearance due to numerous color variations) Chalcocite as disseminations (intermixed with hematite/sericite +/-muscovite and as thin fracture/slickenside coatings. Narrow shear zones with green clay gouge at: 226.80, 235.0, 235.26, 236.63, 239.0, 240.9-241.0m. Several 5-10mm wide quartz/calcite/hematite veinlets; these cut the c/a at 50-60 degrees (average). Very fine disseminated bornite/chalcocite are often seen associated with these veinlets; it is difficult to estimate percentages due to the fine intermixed habit of the copper sulfides.	2-3 quartz/carbonate/hematite veinlets/metre.	3	1	1		0.1	1	0.25	0.25						0.1	0.5		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
241.25	**255.70**	**Fault zone**	Strongly bleached/sericitized fault zone. Interval is comprised of ~65% grey/green clay gouge. Most significant fault zone intersected to date (holes 07-R-09 to 13). Locally up to 35% large (5-8mm average) ameboid quartz. Feldspars completely sericitized. Original texture of host rock largely obliterated. Some narrow sections of silicification +/-quartz/carbonate veining. Difficult to estimate percentages of chalcocite/bornite due to crushing/pervasive gouge but likely .25 to locally 1%. Noting an overall increase in the density of quartz/calcite veinlets (most at steep angles to the core axis)	~2/metre	4	1	1		2	1	0.35	tr						.1?	.35?		
			Sub-sections of note:																		
			244.50-244.70m : 2 quartz veins (<5cm) one with terminated quartz crystals in a calcite matrix.																		
			246.85-248.0m: Several large (<2.5cm) irregular clots of hematite/calcite with minor associated chalcocite/bornite																		247.50-252.70m: interval consists of 90% grey/green clay gouge.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			250.85-250.95m: Pale green silicified section. Trace chalcocite.																		
255.70	**330.00**	**Highly altered/Mineralized Granodiorite /feldspar porphyry.**	Green to grey/pink varicolored. Original texture largely destroyed due to pervasive sericite/local k-spar alteration. Sections with well developed feldspar porphyritic texture. These typically consist of 50-60% crowded, euhedral 3-4mm sericite altered plagioclase phenocrysts, 25% subhedral 3-5mm quartz phenocrysts. Noting an increase in fracture controlled and disseminated chalcocite/bornite downsection. Larger, striated (due to drilling process) 'metallic' disseminations/clots and fracture fillings of chalcocite over lower half of interval.	1-2quartz veinlets/metre (most veins are at least 50% carbonate and *do not* host chalcocite mineralization)	3	1	0.5		0.25	0.5	0.25	0.5						0.1	0.5		Solid, competent core throughout interval. Fractures quite consistent at 55-60 to c/a. Much less shearing than previous intervals <u>but</u> minor clay gouge noted at: 272.85-272.95, 273.90, 290.70299.25, 300.0, 300.35m
			Sub-sections of note:																		
			262.65m 1cm wide brown fine-grained aplite dyke; cutting c/a at 85 degrees.																		
			264.80-265.50m: Bleached, sericitized, hematite stained feldspar porphyry. **Crowded texture**. Hematite staining of feldspars and locally fine-grained interstitial groundmass.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			266.40-268.20m: Strongly bleached pale green sericite altered granodiorite? (original texture obliterated). Several 1cm wide quartz/carbonate veinlets at 45 to c/a. ~5% chalcocite intermixed with sericite/hematite/+/-calcite.																		
			Aplite dykes: 278.10 (45 to c/a), 278.42 (90 to c/a), 283.40-283.75 (salmon pink, hematite stained ~50 to c/a), 286.85 (2cm wide, brown, 70 to c/a), 289.20-289.40 (1.5cm brown aplite dyke at 25 to c/a shows a 3cm offset along a 50 to c/a chalcocite mineralized fracture *photo taken*).																		
			278.30m 1.5cm wide seam of semi-massive chalcocite; 40 to c/a. Note: increasing chalcocite downhole of this point																		278.75m 5cm wide shear zone at 60 to c/a. Green/grey clay gouge.
			283.75-286.0m: 4-5 quartz/calcite veinlets/metre.																		
			~283.0-(at least 1047') Noting increasing amounts of metallic semi-massive (1-2mm) seams of chalcocite +/-bornite. Also chalcocite/bronze colored bornite on fractures/slickensides.	2-3/m	3	1	0.5		tr	1	0.25	0.35						0.1	0.75		Competent core . Fractures at 45-55 to c/a. High RQD section.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
																					300.0-300.10m: Shear zone with grey/green clay gouge. ~ 45 to c/a.
			300.0-303.0m: Pale grey/green, strongly bleached section 1-2% disseminated and fracture controlled chalcocite/bornite. 1.5 cm wide chalcocite/hematite/sericite seam at 303.72m																		304.85-305.20m: shear zone upper and lower contacts at 45 to c/a.
			312.80-313.5m: Semi-massive chalcocite/+/- bornite associated with irregular calcite +/- quartz veinlets.																		
			313.25-335.85m: Broken/crumbly, locally sheared core. Chlorite/hematite/chalcocite on several slickensides. Slickensides tend to occur on 30-45 to c/a fractures and cut across these fractures at high angles. ~1/2-1.5% chalcocite throughout interval.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			317.5-319m: 'fresh, relatively unaltered host rock (Granodiorite). Composition: 30%grey anhedral quartz , 55% euhedral to crowded plagioclase, 5% interstitial k-spar, 5% chloritized mafics.5% primary magnetite. *Note* this section is unusual in that it is the first section of relatively unaltered host rock since 187m.		1		1		tr	0.25					0.5							Hematitic/calcite slickensides (40 to c/a). Middle portion of interval crushed. Fractures predominantly at 45-50 to c/a.
			321.60-321.75m: 2 1cm wide ochre red hematite seams with clay and minor sooty grey/black chalcocite. 45 degrees to c/a.																		Shear zones with clay gouge at: 321.80-322.20m, 325.22-326.10m (intact lower contact: 70 to c/a.
			*Note sample 783545/546 contains ~3-4% chalcocite/bornite as semi-massive to fracture controlled clots and blebs.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
330.00	**332.00**	**Bleached Quartz diorite?**	Pale pink to green, well bleached, locally sheared. Difficult to determine orignal texture due to pervasive sericite/k-spar/clay alteration. 2-3% intermixed chalcocite/hematite/sericite/muscovite as elongate clots and tension gash? Infillings.	.5 quartz veins/metre.	2	tr	1		2	0.25		1						0.1	1		Chalcocite/bornite/hematite/chlorite on well developed slickensides at 330.90m (cutting across a 30 to c/a fracture).
332.00	**338.00**	**Quartz Monzonite**	Salmon pink medium grained . ~30% 5-6mm average anhedral to ameboid quartz, 25% sericite to hematite altered plagioclase, 20% interstitial k-spar, low amounts of chloritized mafics (~1%).		1		0.25		tr	tr		0.5						tr?	.25?		Upper and lower contacts of monzonite unknown (gradational/broken). Two fracture sets: 45 to c/a and 5-15 to c/a.
			Sub-sections of note:																		
			332.0-335.0m Several fractures with semi-massive (<1cm seams of chalcocite). Fracture angles quite variable from sub-parallel to c/a to 45 to c/a. Grey/black 'sooty' chalcocite in crushed narrow crushed shear zones.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
338.00	**351.15**	**Altered Granodiorite**	Green, sericitized. 25% anhedral quartz, 45-50% sericite altered plagioclase, 5% interstitial k-spar. Cut by several narrow salmon pink/red fine grained syenite dykes (342.90m, 347.50m,349.40 349.55m) Dyke contacts sharp at 45 to c/a.		3	0.5	1			tr		0.25			0.5	1		0.1	0.5		Most fractures at ~50 to c/a. Narrow shears with hematite+/- chalcocite at: 339.85, 341.2, 345.0, 345.40, 351.10m
351.15	**387.00**	**Syenite to quartz monzonite**	Salmon pink, fine to medium grained. Composition: Approximately equal amounts of plagioclase (weakly to moderately sericitized) and k-spar (interstitial/massive). Quartz variable 5-15%; sub-hedral to local crude quartz eyes. Mineralization seems to be decreasing from previous intervals; minor chacocite +/- bornite predominantly as fracture fillings - locally sections of 3-4 % 'fuzzy' 1-3mm disseminations of chalcocite/sericite/hematite +/- fine flaky muscovite. Mafics quite low; biotite>>hornblende.	No significant quartz veins noted.	0.75	0.1	0.5		0.1	0.1		.25?			0.25	0.25		0.05	.15?		Slickensides common throughout interval; these exhibit smeared hematite/chlorite/trace chalcocite and rarely bronze to copper colored bornite.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			361.20-363.50m: Chalcocite/hematite on low to mid angle fractures; also as local disseminations up to 2%.																		Shear zones with local green/grey clay gouge througout interval; too many to note each individually. Some contain crushed chalcocite on fractures and in gouge. A low angle (sub parallel to c/a) shear from 380.50-382.1m
			371.80-377.40m: Pale grey/salmon pink, intensely bleached/sheared. Sections of brittle fracture. Trace chalcocite on fractures.																		
			377.40-387.0m: Fresher, less altered quartz monzonite to granodiorite. Salmon pink. Approximately 40% of interval crushed/local brittle fracture.		0.1		0.5		tr						0.75	0.25			tr		Most fractures at 50-65 to c/a. 2cm wide shear zone with green clay gouge from 381.31-382.10m

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
387.00	**388.32**	**Sericite altered Granodiorite ?**	Green, medium grained sericite altered. 40% anedral to ameboid quartz, 30-40% sericitized plagioclase, 15% chloritized mafics (predominantly biotite), 1-3% interstitial k-spar, .25% magnetite.																		Fractures and rare calcite+/- quartz veinlet at 45 to c/a. Trace fracture controlled chalcocite. Trace disseminated chalcocite (difficult to identify due to ubiquitous dark mafic/magnetite clots.)
			e.o.h 388.32m																		

PROPERTY: Rateria	UTM ZONE: 11	DRILLED FOR: Happy Creek Minerals Ltd.
MINING DIVISION: Kamloops	DATUM: NAD83	DRILLED BY: DJ Drilling
CLAIM:	UTM-E: 645845	START DATE: 10-Dec-07
OVERBURDEN: 6.1	UTM-N: 5581876	FINISH DATE: 14-Dec-07
TOTAL DEPTH: 197.21	ELEVATION: 1561 m	LOGGED BY: Rob Montgomery
CORE SIZE: NQ	AZIMUTH: 090	
	DIP: -47	

DOWNHOLE SURVEY
INSTRUMENT: Acid Test

DEPTH	AZIMUTH	DIP
307 ft		-55
647 ft		-54

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
0.00	**6.10**	**OVB**	Casing to 20'																		
6.10	**86.50**	**Granodiorite to quartz diorite**	Green to grey moderately to strongly sericitized, locally bleached and sheared. *Note*: through much of interval difficult to determine composition as original textures are often destroyed. Composition somewhat variable, but typically: 15-25% pale grey anhedral to ameboid (interstitial) quartz, 55-60% sercitized, locally crowded plagioclase, 3-10% mafics (increasing downsection), 1-3% k-spar as small interstitial infillings. Fresher sections contain 1/2 to 1% primary magnetite (altering to hematite. Purplish hematite/calcite (tr chalcocite?) veinlets common throughout interval. Widely scattered irregular carbonate+/-quartz veinlets (locally containing small disseminations of chalcocite/bornite.	~1/metre.	2.5	tr	1		tr	1		0.1			0.1	0.5	tr	tr	.1?	hem	2 fracture sets: 60-65 to c/a and ~35-40 to c/a.
			Sub-sections of note:																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			Strongly limonitic fractures from surface to 13.80m.																		
			19.5-23.85m: Shear zone with intense bleaching. Grey to pale green clay gouge over ~ 40% of interval.																		Upper and lower contacts of fault zone at ~50 to c/a.
			23.85-26.30m: ~13 2-3mm wide calcite/hematite veinlets. Angles to c/a variable; ranging from 25-45 degrees.																		
			31.90m Low angle fracture with hematite/calcite +/- chalcocite.																		
			34.20-38.5m: Bleached, locally sheared interval. Pale grey/green. At 37.60 a very nice example of intergrown chalcopyrite/bornite within a irregular (50 to c/a) 1.5cm wide quartz/calcite veinlet. *Note* this occurrence is the best example of chalcopyrite seen in the current drill program; generally chalcopyrite is exceedingly rare in these host rocks).																		Bleached shear zones at: 37.60-38.35, 41.4-41.70m
			50.80-53.55m: Bleached,sheared, sericitized and locally k-spar altered(?). Several cross-cutting hematite/calcite/chalcocite stringers. Gouge zones generally cut c/a at 45-50 degrees.	2/metre	2		0.5		1	1	0.5	1				0.25			.2?		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			56.50-57.0m: Brown to salmon pink fine-grained aplite dyke. Irregular and cuts c/a at ~25 degrees. Sharp upper and lower contacts.																		Shear zone with minor green clay gouge at 59.0-59.15m. Upper contact irregual at ~ 70 to c/a, lower contact sharp/regular at 45 to c/a.
			62.75-79.50m: Broken/rubbly core throughout. Narrow sections of shearing common. Overall mafic content increasing (7% average). Slight increase in primary k-spar Rock moderately sericite altered but original texture somewhat evident (composition seems to be changing from quartz diorite to granodiorite). Chalcocite content appears quite low; trace very fine grained chalcocite intermixed with hematitic/sercitic clots.	2-3/metre (calcite usually greater quartz) veins generally do not host mineralizatio n.	1	0.1	2			1	0.5	0.5			tr				tr		Broken core. In solid sections most fractures at 50-60 to c/a.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
86.50	**107.25**	**Unaltered Granodiorite**	Pale grey to pink medium grained, equigranular. Fresh, unaltered. Composition: ~30 % grey anhedral quartz, 50% weakly sericitized plagioclase, 7-10% mafics (biotite>hornblende), 3-7% intersititial k-spar, 1% magnetite; locally altering to hematite. Mafics weakly chloritized, trace epidote. Competent core, high rqd. Most fractures at ~60 to c/a. 2cm wide sericite/chlorite/clay shear at 90.22m (25 to c/a).		0.5		1	0.1	0.1	0.25					1							75.40-76.40m: Shear zone with grey/green clay gouge; broken,crumbly core. Trace chalcocite with sericite/muscovite.
107.25	**118.50**	**Faulted/altered Granodiorite (?)**	Varicolored, faulting/shearing throughout interval. Minor amounts of chalcocite as scattered disseminations within bleached, sericitized host. Core tends to have a pitted/rotted appearance; partly due to kaolinization of feldspars. Local k-spar alteration. Hematite on fractures. Minor chalcocite on fractures and as disseminations (locally to 1% with sericite/hematite).		1.5	tr	1	0.25	2	1		1					1			.1?		83.10-85.60m: Shear zone.S.T.A Strongly hematitic fractures.
			Sub-sections of note:																		
			107.55m 20 degree to c/a shear with grey/green clay gouge. Kaolinized plagioclase .																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			109.75-112.5m: Dark green; abundant fine chlorite/muscovite +/-sericite. Hematitic fractures. Broken/crumbly core. 2-3% disseminated hematite (after magnetite) with minor intermixed chalcocite.																		113.0-113.75m: Bleached green/grey to pink; shearing throughout.
			118.0-126.1m. Fresher, less altered granodiorite over upper portion of interval. Increasing sericite/epidote over lower portion of interval.																		
118.50	**126.10**	**Sericite alterted Granodiorite**	Green to grey sericitized, locally kaolinized granodiorite (original texture largely destroyed). Some sections 'fresh/unaltered'. Local cross-cutting (~25 to c/a) 5mm wide calcite veinlets.		2.5	0.5	1	tr	1	1	0.1				1						

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
126.10	**171.00**	**Intercalated granodiorite /Biotite-Hornblende granodiorite .**	Multiple fluidal phases seen over interval. Overall color pink (due to increasing primary k-spar) to grey. Equigranular, unaltered intrusives. Interval generally devoid of mineralization. *Samples 783614-783618 were collected to test for locallized chalcocite on fractures* . Noting an increase in hornblende content as well as a notable increase in mafics overall; up to 15-% as large (5-7mm average) weakly chloritized biotite books. 1-2% hornblende laths (3-5mm in length). Composition of hornblende/biotite granodiorite: 15% anhedral quartz, 40% plagioclase, 25% interstitial k-spar, 12-15% mafics, 1/2% magnetite.		0.1		0.25	0.1	tr	0.25					0.5							Competent core:
			Sub-sections of note:																		
			133.70-135.0m: Chalcocite on fractures. Trace bornite.																		
			138.15-138.6m: Bleached, sheared section. Upper and lower contacts at 60 and 50 to c/a.																		
			149.15-152.15m: Minor chalcocite on 80-90 to c/a fractures.																		

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
			154.75-155.05m: 25% fresh mafics (biotite>hornblende). Notable increase from surrounding rock.																		
			157.5-161.70m: Fracture controlled chalcocite/bornite (4-5/metre). Minor irregular late stage calcite veining. 7mm wide (55 to c/a) epidote veinlet at 116.4m. Hematite/minor chalcocite along vein selvages.																		
			163.0-167.30m: Pink zeolites/calcite on fractures (predominant fracture angle: 60 to c/a).																	zeo.	
171.00	**175.60**	**Feldspar porphyry**	Pale grey, well developed feldspar porphyritic texture, 'fresh'. Locally calcite/epidote on 45-50 to c/a fractures. Composition: ~70% sub-hedral to euhedral 3-4mm average plagioclase., 3-4% mafics as fine irregular clots (weakly chloritized) 15-20% grey interstitial quartz. Local hematite staining of feldspars (ie. at 172.10-172.40m).		tr		0.25	0.25	tr	0.25						0.25					Upper contact at 70 to c/a; sheared with 1cm of green clay gouge.

INTERVAL (m):		ROCK TYPE	DESCRIPTION	QTZ VEINS	ALTERATION (1-5):									MINERALIZATION (%):							STRUCTURE
FROM	TO			>3mm (#/m)	Ser	Musc	Chl	Ep	Kaol	Carb	Silica	Kfeld		Py	Mag	FeOX	Cpy	Bor	Cc	other	
175.60	**197.21**	**Granodiorite**	Grey to pale green (weak local sericitization) medium grained equigranular. Section quite fresh. Locally waxy green sericite alteration of plagioclase. Noting an increase in epidote/calcite (propylitic alteration). Interval essentially unmineralized. Locally broken/sheared core.		1		1	1	tr	1	tr				1						
			Sub-sections of note:																		
			184.85-197.21m: Increase in fracture controlled epidote +/- calcite.																		
			178.45-179.50m: Shearing, strongly hematitic fractures. Hematite/sericite/chlorite on slickensides.																		Minor shearing noted at: 189.53-189.70, 192.10-192.25, 196.50m
			E.O.H. 197.21m																		

Appendix B

Drill Core Recovery Logs

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log Logged by:

Hole No. R07-01 K. Nakano and S. Bohle

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
71	77	6	21.64	23.47	1.83	1.44	79	0.43	24
77	87	10	23.47	26.52	3.05	3.05	100	2.16	71
87	97	10	26.52	29.57	3.05	3.05	100	1.09	36
97	107	10	29.57	32.61	3.05	3.05	100	1.55	51
107	117	10	32.61	35.66	3.05	3.05	100	1.82	60
117	127	10	35.66	38.71	3.05	3.05	100	1.78	58
127	137	10	38.71	41.76	3.05	2.87	94	0.92	30
137	147	10	41.76	44.81	3.05	2.70	89	0.91	30
147	157	10	44.81	47.85	3.05	2.78	91	1.81	59
157	167	10	47.85	50.90	3.05	3.05	100	0.87	29
167	177	10	50.90	53.95	3.05	2.75	90	0.95	31
177	187	10	53.95	57.00	3.05	2.45	80	0.00	0
187	197	10	57.00	60.05	3.05	2.90	95	0.80	26
197	207	10	60.05	63.09	3.05	2.94	96	1.80	59
207	217	10	63.09	66.14	3.05	3.05	100	2.96	97
217	227	10	66.14	69.19	3.05	3.05	100	2.38	78
227	237	10	69.19	72.24	3.05	3.00	98	1.36	45
237	247	10	72.24	75.29	3.05	3.00	98	2.40	79
247	257	10	75.29	78.33	3.05	2.90	95	2.18	72
257	267	10	78.33	81.38	3.05	3.05	100	2.28	75
267	277	10	81.38	84.43	3.05	3.05	100	2.78	91
277	287	10	84.43	87.48	3.05	3.05	100	2.63	86
287	297	10	87.48	90.53	3.05	3.05	100	1.95	64
297	307	10	90.53	93.57	3.05	3.05	100	1.77	58
307	317	10	93.57	96.62	3.05	3.05	100	2.03	67
317	327	10	96.62	99.67	3.05	3.05	100	2.30	75
327	337	10	99.67	102.72	3.05	3.05	100	1.60	52
337	347	10	102.72	105.77	3.05	3.05	100	2.15	71
347	357	10	105.77	108.81	3.05	3.05	100	0.45	15
357	367	10	108.81	111.86	3.05	3	98	0.74	24
367	377	10	111.86	114.91	3.05	2.9	95	0.5	16
377	387	10	114.91	117.96	3.05	3	98	1.8	59
387	397	10	117.96	121.01	3.05	3	98	1.43	47
397	407	10	121.01	124.05	3.05	3	98	0.83	27
407	417	10	124.05	127.10	3.05	2.8	92	1.3	43
417	427	10	127.10	130.15	3.05	3.05	100	2.09	69
427	437	10	130.15	133.20	3.05	3	98	2.3	75
437	447	10	133.20	136.25	3.05	2.95	97	2.2	72
447	457	10	136.25	139.29	3.05	3.05	100	2.44	80
457	467	10	139.29	142.34	3.05	3.05	100	2.26	74
467	477	10	142.34	145.39	3.05	3.05	100	2.2	72
477	487	10	145.39	148.44	3.05	3.05	100	1.85	61
487	497	10	148.44	151.49	3.05	2.9	95	0.92	30
497	507	10	151.49	154.53	3.05	3.05	100	1.02	33
507	517	10	154.53	157.58	3.05	3.05	100	1.03	34
517	527	10	157.58	160.63	3.05	3.05	100	1.37	45
527	537	10	160.63	163.68	3.05	3.00	98	1.40	46
537	547	10	163.68	166.73	3.05	3.05	100	0.58	19
547	557	10	166.73	169.77	3.05	3.05	100	0.97	32
557	567	10	169.77	172.82	3.05	3.00	98	1.84	60

Geotechnical Log Logged by:
Hole No. R07-01 K. Nakano and S. Bohle

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
567	577	10	172.82	175.87	3.05	3.05	100	0.52	17
577	587	10	175.87	178.92	3.05	3.05	100	0.66	22
587	597	10	178.92	181.97	3.05	2.95	97	0.85	28
597	607	10	181.97	185.01	3.05	3.00	98	1.05	34
607	617	10	185.01	188.06	3.05	3.05	100	0.00	0
617	627	10	188.06	191.11	3.05	3.05	100	0.18	6
627	637	10	191.11	194.16	3.05	3.05	100	0.27	9
637	647	10	194.16	197.21	3.05	3.05	100	0.26	9
647	657	10	197.21	200.25	3.05	3.05	100	0.48	16
657	667	10	200.25	203.30	3.05	3.05	100	1.30	43
667	677	10	203.30	206.35	3.05	3.05	100	0.75	25
677	687	10	206.35	209.40	3.05	3.05	100	0.86	28
687	697	10	209.40	212.45	3.05	2.80	92	0.97	32
697	707	10	212.45	215.49	3.05	3.05	100	1.80	59
707	717	10	215.49	218.54	3.05	3.05	100	1.26	41
717	727	10	218.54	221.59	3.05	3.05	100	1.93	63
727	737	10	221.59	224.64	3.05	2.80	92	0.43	14
737	747	10	224.64	227.69	3.05	3.05	100	0.18	6
747	757	10	227.69	230.73	3.05	2.45	80	0.30	10
757	767	10	230.73	233.78	3.05	2.40	79	0.60	20
767	777	10	233.78	236.83	3.05	2.95	97	1.46	48
777	787	10	236.83	239.88	3.05	2.90	95	0.87	29
787	797	10	239.88	242.93	3.05	2.87	94	1.08	35
797	807	10	242.93	245.97	3.05	3.05	100	2.32	76

Meridian Mapping Ltd.
Geotechnical Log
Hole No. R07-02

RATERIA PROJECT

Logged by:
S. Bohle

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
70	77	7	21.34	23.47	2.13	1.48	69	0.23	11
77	87	10	23.47	26.52	3.05	2.97	97	0.92	30
87	97	10	26.52	29.57	3.05	2.90	95	1.38	45
97	107	10	29.57	32.61	3.05	1.70	56	0.45	15
107	117	10	32.61	35.66	3.05	2.90	95	0.68	22
117	127	10	35.66	38.71	3.05	3.05	100	2.54	83
127	137	10	38.71	41.76	3.05	3.00	98	1.45	48
137	147	10	41.76	44.81	3.05	2.85	94	2.16	71
147	157	10	44.81	47.85	3.05	2.95	97	2.07	68
157	167	10	47.85	50.90	3.05	3.05	100	2.70	89
167	177	10	50.90	53.95	3.05	3.05	100	0.86	28
177	187	10	53.95	57.00	3.05	3.05	100	2.10	69
187	197	10	57.00	60.05	3.05	3.00	98	1.53	50
197	207	10	60.05	63.09	3.05	3.05	100	1.40	46
207	217	10	63.09	66.14	3.05	3.05	100	1.64	54
217	227	10	66.14	69.19	3.05	3.05	100	1.92	63
227	237	10	69.19	72.24	3.05	3.00	98	1.95	64
237	247	10	72.24	75.29	3.05	3.05	100	1.20	39
247	257	10	75.29	78.33	3.05	3.05	100	1.25	41
257	267	10	78.33	81.38	3.05	3.01	99	2.22	73
267	277	10	81.38	84.43	3.05	3.02	99	2.20	72
277	287	10	84.43	87.48	3.05	3.05	100	1.50	49
287	297	10	87.48	90.53	3.05	3.05	100	0.70	23
297	307	10	90.53	93.57	3.05	2.95	97	1.72	56
307	317	10	93.57	96.62	3.05	3.05	100	1.62	53
317	327	10	96.62	99.67	3.05	3.00	98	1.78	58
327	337	10	99.67	102.72	3.05	3.05	100	0.90	30
337	347	10	102.72	105.77	3.05	2.97	97	1.97	65
347	357	10	105.77	108.81	3.05	3.05	100	1.33	44
357	367	10	108.81	111.86	3.05	3.05	100	1.6	52
367	377	10	111.86	114.91	3.05	2.85	94	0.57	19
377	387	10	114.91	117.96	3.05	3.01	99	1.3	43
387	397	10	117.96	121.01	3.05	3.05	100	1.18	39
397	407	10	121.01	124.05	3.05	3.05	100	1.6	52
407	417	10	124.05	127.10	3.05	2.9	95	0.92	30
417	427	10	127.10	130.15	3.05	2.95	97	0.66	22
427	437	10	130.15	133.20	3.05	2.87	94	0.69	23
437	447	10	133.20	136.25	3.05	3.05	100	1.51	50
447	457	10	136.25	139.29	3.05	3	98	1.28	42
457	467	10	139.29	142.34	3.05	3.05	100	1.14	37
467	477	10	142.34	145.39	3.05	2.92	96	0.15	5
477	487	10	145.39	148.44	3.05	2.95	97	0.79	26
487	497	10	148.44	151.49	3.05	3.01	99	1.15	38
497	507	10	151.49	154.53	3.05	2.99	98	0.14	5
507	517	10	154.53	157.58	3.05	3.05	100	0.67	22
517	527	10	157.58	160.63	3.05	3.05	100	1.33	44
527	537	10	160.63	163.68	3.05	3.00	98	0.68	22
537	547	10	163.68	166.73	3.05	2.99	98	0.44	14
547	557	10	166.73	169.77	3.05	3.05	100	1.05	34
557	567	10	169.77	172.82	3.05	3.05	100	1.40	46

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
567	577	10	172.82	175.87	3.05	3.05	100	1.55	51
577	587	10	175.87	178.92	3.05	2.88	94	1.78	58
587	597	10	178.92	181.97	3.05	3.05	100	2.60	85
597	607	10	181.97	185.01	3.05	3.05	100	1.85	61
607	617	10	185.01	188.06	3.05	3.05	100	0.40	13
617	627	10	188.06	191.11	3.05	3.01	99	1.42	47
627	637	10	191.11	194.16	3.05	3.05	100	1.55	51
637	647	10	194.16	197.21	3.05	3.05	100	1.13	37
647	657	10	197.21	200.25	3.05	3.00	98	0.64	21
657	667	10	200.25	203.30	3.05	3.05	100	1.20	39
667	677	10	203.30	206.35	3.05	2.99	98	1.95	64
677	687	10	206.35	209.40	3.05	3.05	100	1.90	62
687	697	10	209.40	212.45	3.05	3.05	100	0.75	25
697	707	10	212.45	215.49	3.05	3.05	100	1.27	42
707	717	10	215.49	218.54	3.05	3.05	100	0.85	28
717	727	10	218.54	221.59	3.05	3.05	100	1.96	64
727	737	10	221.59	224.64	3.05	3.00	98	1.55	51
737	747	10	224.64	227.69	3.05	3.05	100	1.81	59
747	757	10	227.69	230.73	3.05	3.05	100	0.62	20

Meridian Mapping Ltd.
Geotechnical Log
Hole No. R07-03

RATERIA PROJECT

Logged by:
S. Bohle

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
60	67	7	18.29	20.42	2.13	1.05	49	0.15	7
67	77	10	20.42	23.47	3.05	3.01	99	1.02	33
77	87	10	23.47	26.52	3.05	3.05	100	1.43	47
87	97	10	26.52	29.57	3.05	3.05	100	1.60	52
97	107	10	29.57	32.61	3.05	3.05	100	2.28	75
107	117	10	32.61	35.66	3.05	3.00	98	1.58	52
117	127	10	35.66	38.71	3.05	3.05	100	1.00	33
127	137	10	38.71	41.76	3.05	3.00	98	0.99	32
137	147	10	41.76	44.81	3.05	3.05	100	0.62	20
147	157	10	44.81	47.85	3.05	3.01	99	0.55	18
157	167	10	47.85	50.90	3.05	3.05	100	0.30	10
167	177	10	50.90	53.95	3.05	2.99	98	1.70	56
177	187	10	53.95	57.00	3.05	3.05	100	1.39	46
187	197	10	57.00	60.05	3.05	3.05	100	1.74	57
197	207	10	60.05	63.09	3.05	2.64	87	1.47	48
207	217	10	63.09	66.14	3.05	3.05	100	0.70	23
217	227	10	66.14	69.19	3.05	3.00	98	1.14	37
227	237	10	69.19	72.24	3.05	3.01	99	2.00	66
237	247	10	72.24	75.29	3.05	3.05	100	2.17	71
247	257	10	75.29	78.33	3.05	3.05	100	1.72	56
257	267	10	78.33	81.38	3.05	3.05	100	2.16	71
267	277	10	81.38	84.43	3.05	3.05	100	1.50	49
277	287	10	84.43	87.48	3.05	2.95	97	1.32	43
287	297	10	87.48	90.53	3.05	3.05	100	1.95	64
297	307	10	90.53	93.57	3.05	3.05	100	0.79	26
307	317	10	93.57	96.62	3.05	3.05	100	1.95	64
317	327	10	96.62	99.67	3.05	3.00	98	0.76	25
327	337	10	99.67	102.72	3.05	2.90	95	1.55	51
337	347	10	102.72	105.77	3.05	3.05	100	1.03	34
347	357	10	105.77	108.81	3.05	3.05	100	0.6	20
357	367	10	108.81	111.86	3.05	3.01	99	0.95	31
367	377	10	111.86	114.91	3.05	3.05	100	0.62	20
377	387	10	114.91	117.96	3.05	3.05	100	0.64	21
387	397	10	117.96	121.01	3.05	3.05	100	0.7	23
397	407	10	121.01	124.05	3.05	3.05	100	0.84	28
407	417	10	124.05	127.10	3.05	3.05	100	1.2	39
417	427	10	127.10	130.15	3.05	3.05	100	0.97	32
427	437	10	130.15	133.20	3.05	3.05	100	2.4	79
437	447	10	133.20	136.25	3.05	3.05	100	2.62	86
447	457	10	136.25	139.29	3.05	3.05	100	1.3	43
457	467	10	139.29	142.34	3.05	3.05	100	1.8	59
467	477	10	142.34	145.39	3.05	3.05	100	0.73	24
477	487	10	145.39	148.44	3.05	3.05	100	1.07	35
487	497	10	148.44	151.49	3.05	2.99	98	0.77	25
497	507	10	151.49	154.53	3.05	2.70	89	0.45	15
507	517	10	154.53	157.58	3.05	3.01	99	1.74	57
517	527	10	157.58	160.63	3.05	3.05	100	1.84	60
527	537	10	160.63	163.68	3.05	3.05	100	1.32	43
537	547	10	163.68	166.73	3.05	3.05	100	1.62	53
547	557	10	166.73	169.77	3.05	3.05	100	1.70	56

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
557	567	10	169.77	172.82	3.05	3.05	100	1.66	54
567	577	10	172.82	175.87	3.05	3.05	100	1.39	46
577	587	10	175.87	178.92	3.05	3.05	100	1.25	41
587	597	10	178.92	181.97	3.05	3.05	100	1.32	43
597	607	10	181.97	185.01	3.05	3.05	100	1.10	36
607	617	10	185.01	188.06	3.05	3.05	100	1.15	38
617	627	10	188.06	191.11	3.05	3.05	100	2.32	76
627	637	10	191.11	194.16	3.05	3.05	100	0.64	21
637	647	10	194.16	197.21	3.05	3.00	98	0.57	19
647	657	10	197.21	200.25	3.05	3.05	100	0.70	23
657	667	10	200.25	203.30	3.05	2.85	94	0.56	18
667	677	10	203.30	206.35	3.05	3.05	100	0.38	12
677	687	10	206.35	209.40	3.05	3.05	100	0.60	20
687	697	10	209.40	212.45	3.05	3.00	98	0.32	10
697	707	10	212.45	215.49	3.05	3.00	98	1.90	62
707	717	10	215.49	218.54	3.05	3.01	99	1.90	62
717	727	10	218.54	221.59	3.05	3.02	99	1.35	44
727	737	10	221.59	224.64	3.05	3.05	100	0.74	24
737	747	10	224.64	227.69	3.05	2.73	90	1.19	39
747	757	10	227.69	230.73	3.05	3.00	98	0.51	17
757	767	10	230.73	233.78	3.05	3.01	99	0.81	27
767	777	10	233.78	236.83	3.05	2.94	96	1.31	43
777	787	10	236.83	239.88	3.05	3.02	99	1.59	52

Meridian Mapping Ltd.
Geotechnical Log
Hole No. R07-04

RATERIA PROJECT

Logged by:
J. McNeil

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
40	47	7	12.19	14.33	2.13	1.59	75	0.00	0
47	57	10	14.33	17.37	3.05	2.93	96	0.86	28
57	67	10	17.37	20.42	3.05	2.70	89	0.29	10
67	77	10	20.42	23.47	3.05	2.98	98	0.83	27
77	87	10	23.47	26.52	3.05	1.85	61	0.00	0
87	97	10	26.52	29.57	3.05	2.29	75	0.28	9
97	107	10	29.57	32.61	3.05	2.72	89	0.80	26
107	117	10	32.61	35.66	3.05	2.82	93	2.36	77
117	127	10	35.66	38.71	3.05	2.97	97	0.65	21
127	137	10	38.71	41.76	3.05	3.03	99	1.17	38
137	147	10	41.76	44.81	3.05	2.79	92	0.53	17
147	157	10	44.81	47.85	3.05	2.48	81	0.14	5
157	167	10	47.85	50.90	3.05	2.75	90	0.20	7
167	177	10	50.90	53.95	3.05	2.65	87	0.29	10
177	187	10	53.95	57.00	3.05	2.50	82	0.10	3
187	197	10	57.00	60.05	3.05	2.82	93	0.44	14
197	207	10	60.05	63.09	3.05	2.62	86	0.00	0
207	217	10	63.09	66.14	3.05	2.78	91	0.45	15
217	227	10	66.14	69.19	3.05	2.89	95	0.35	11
227	237	10	69.19	72.24	3.05	2.65	87	0.12	4
237	247	10	72.24	75.29	3.05	2.70	89	0.44	14
247	257	10	75.29	78.33	3.05	2.75	90	0.15	5
257	267	10	78.33	81.38	3.05	2.80	92	0.36	12
267	277	10	81.38	84.43	3.05	2.10	69	0.00	0
277	287	10	84.43	87.48	3.05	1.80	59	0.00	0
287	297	10	87.48	90.53	3.05	1.80	59	0.00	0
297	307	10	90.53	93.57	3.05	2.95	97	1.19	39
307	317	10	93.57	96.62	3.05	2.98	98	1.43	47
317	327	10	96.62	99.67	3.05	2.95	97	1.39	46
327	337	10	99.67	102.72	3.05	2.99	98	1.38	45
337	347	10	102.72	105.77	3.05	2.83	93	0.1	3
347	357	10	105.77	108.81	3.05	2.74	90	0.34	11
357	367	10	108.81	111.86	3.05	2.75	90	0.28	9
367	377	10	111.86	114.91	3.05	2.96	97	1.96	64
377	387	10	114.91	117.96	3.05	3.02	99	1.48	49
387	397	10	117.96	121.01	3.05	2.92	96	1	33
397	407	10	121.01	124.05	3.05	2.9	95	0.78	26
407	417	10	124.05	127.10	3.05	2.91	95	0.21	7
417	427	10	127.10	130.15	3.05	3.02	99	0.87	29
427	437	10	130.15	133.20	3.05	2.95	97	0.26	9
437	447	10	133.20	136.25	3.05	2.88	94	0.31	10
447	457	10	136.25	139.29	3.05	2.85	94	0.23	8
457	467	10	139.29	142.34	3.05	3	98	0.37	12
467	477	10	142.34	145.39	3.05	2.94	96	1	33
477	487	10	145.39	148.44	3.05	2.95	97	1.35	44

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log

Hole No. R07-05

Logged by:
J. McNeil and K. Nakano

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
50	57	7	15.24	17.37	2.13	1.36	64	0.11	5
57	67	10	17.37	20.42	3.05	2.65	87	0.00	0
67	77	10	20.42	23.47	3.05	2.50	82	0.00	0
77	87	10	23.47	26.52	3.05	2.89	95	0.94	31
87	97	10	26.52	29.57	3.05	3.01	99	1.56	51
97	107	10	29.57	32.61	3.05	2.90	95	1.31	43
107	117	10	32.61	35.66	3.05	2.89	95	0.81	27
117	127	10	35.66	38.71	3.05	2.41	79	0.71	23
127	137	10	38.71	41.76	3.05	2.45	80	0.25	8
137	147	10	41.76	44.81	3.05	2.80	92	0.74	24
147	157	10	44.81	47.85	3.05	2.10	69	0.00	0
157	167	10	47.85	50.90	3.05	2.20	72	0.00	0
167	177	10	50.90	53.95	3.05	2.70	89	0.47	15
177	187	10	53.95	57.00	3.05	2.30	75	0.25	8
187	197	10	57.00	60.05	3.05	2.05	67	0.13	4
197	207	10	60.05	63.09	3.05	2.50	82	0.93	31
207	217	10	63.09	66.14	3.05	2.55	84	0.28	9
217	227	10	66.14	69.19	3.05	2.51	82	0.27	9
227	237	10	69.19	72.24	3.05	2.70	89	1.00	33
237	247	10	72.24	75.29	3.05	3.00	98	0.97	32
247	257	10	75.29	78.33	3.05	2.70	89	0.88	29
257	267	10	78.33	81.38	3.05	2.85	94	0.65	21
267	277	10	81.38	84.43	3.05	2.97	97	1.20	39
277	287	10	84.43	87.48	3.05	3.05	100	1.74	57
287	297	10	87.48	90.53	3.05	3.05	100	2.15	71
297	307	10	90.53	93.57	3.05	2.90	95	2.19	72
307	317	10	93.57	96.62	3.05	3.05	100	1.50	49
317	327	10	96.62	99.67	3.05	2.70	89	1.00	33
327	337	10	99.67	102.72	3.05	3.05	100	1.92	63
337	347	10	102.72	105.77	3.05	2.95	97	1.4	46
347	357	10	105.77	108.81	3.05	2.8	92	0.36	12
357	367	10	108.81	111.86	3.05	3	98	0.5	16
367	377	10	111.86	114.91	3.05	3.05	100	1.25	41
377	387	10	114.91	117.96	3.05	2.85	94	0.13	4
387	397	10	117.96	121.01	3.05	3	98	0.57	19
397	407	10	121.01	124.05	3.05	2.5	82	0.39	13
407	417	10	124.05	127.10	3.05	2.9	95	0.78	26
417	427	10	127.10	130.15	3.05	2.72	89	0.7	23
427	437	10	130.15	133.20	3.05	1.5	49	0	0
437	447	10	133.20	136.25	3.05	0.5	16	0	0
447	457	10	136.25	139.29	3.05	1.45	48	0	0
457	467	10	139.29	142.34	3.05	2.1	69	0.1	3
467	477	10	142.34	145.39	3.05	1.8	59	0	0
477	487	10	145.39	148.44	3.05	1.9	62	0.22	7
487	492	5	148.44	149.96	1.52	1.10	72	0.13	9
492	495	3	149.96	150.88	0.91	0.80	87	0.16	17
495	497	2	150.88	151.49	0.61	0.50	82	0.00	0
497	507	10	151.49	154.53	3.05	2.50	82	0.24	8
507	517	10	154.53	157.58	3.05	2.30	75	0.25	8
517	527	10	157.58	160.63	3.05	2.60	85	0.45	15

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
527	537	10	160.63	163.68	3.05	2.70	89	1.07	35
537	547	10	163.68	166.73	3.05	2.95	97	1.08	35
547	557	10	166.73	169.77	3.05	2.00	66	0.00	0
557	567	10	169.77	172.82	3.05	1.80	59	0.00	0
567	577	10	172.82	175.87	3.05	2.10	69	0.00	0
577	587	10	175.87	178.92	3.05	2.50	82	0.10	3
587	597	10	178.92	181.97	3.05	2.50	82	1.12	37
597	607	10	181.97	185.01	3.05	3.05	100	1.02	33
607	617	10	185.01	188.06	3.05	2.85	94	0.65	21
617	627	10	188.06	191.11	3.05	3.00	98	1.80	59

Meridian Mapping Ltd.
Geotechnical Log
Hole No. R07-06

RATERIA PROJECT

Logged by:
J. McNeil

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
50	57	7	15.24	17.37	2.13	1.61	75	0.00	0
57	67	10	17.37	20.42	3.05	2.50	82	0.00	0
67	77	10	20.42	23.47	3.05	2.00	66	0.00	0
77	87	10	23.47	26.52	3.05	1.80	59	0.13	4
87	97	10	26.52	29.57	3.05	2.30	75	0.44	14
97	107	10	29.57	32.61	3.05	2.43	80	0.00	0
107	117	10	32.61	35.66	3.05	2.55	84	0.19	6
117	127	10	35.66	38.71	3.05	2.93	96	0.79	26
127	137	10	38.71	41.76	3.05	2.90	95	0.61	20
137	147	10	41.76	44.81	3.05	2.83	93	1.21	40
147	157	10	44.81	47.85	3.05	2.52	83	0.30	10
157	167	10	47.85	50.90	3.05	2.95	97	1.19	39
167	177	10	50.90	53.95	3.05	2.55	84	0.52	17
177	187	10	53.95	57.00	3.05	2.40	79	0.71	23
187	197	10	57.00	60.05	3.05	2.82	93	0.26	9
197	207	10	60.05	63.09	3.05	2.66	87	0.24	8
207	217	10	63.09	66.14	3.05	2.71	89	0.13	4
217	227	10	66.14	69.19	3.05	2.51	82	0.29	10
227	237	10	69.19	72.24	3.05	2.20	72	0.00	0
237	247	10	72.24	75.29	3.05	2.35	77	0.00	0
247	257	10	75.29	78.33	3.05	2.54	83	0.26	9
257	267	10	78.33	81.38	3.05	2.66	87	0.35	11
267	277	10	81.38	84.43	3.05	2.99	98	0.79	26
277	287	10	84.43	87.48	3.05	2.39	78	0.00	0
287	297	10	87.48	90.53	3.05	2.96	97	0.13	4
297	307	10	90.53	93.57	3.05	2.75	90	0.91	30
307	317	10	93.57	96.62	3.05	2.80	92	0.57	19
317	327	10	96.62	99.67	3.05	2.86	94	0.63	21
327	337	10	99.67	102.72	3.05	2.77	91	0.28	9
337	347	10	102.72	105.77	3.05	2.67	88	0.11	4
347	357	10	105.77	108.81	3.05	2.85	94	1.56	51
357	367	10	108.81	111.86	3.05	2.93	96	1.45	48
367	377	10	111.86	114.91	3.05	2.99	98	2.02	66
377	387	10	114.91	117.96	3.05	3.02	99	2.09	69
387	397	10	117.96	121.01	3.05	3.03	99	1.84	60
397	407	10	121.01	124.05	3.05	2.91	95	1.81	59
407	417	10	124.05	127.10	3.05	3.01	99	2.26	74
417	427	10	127.10	130.15	3.05	2.96	97	1.86	61
427	437	10	130.15	133.20	3.05	2.95	97	1.03	34
437	447	10	133.20	136.25	3.05	2.98	98	1.02	33
447	457	10	136.25	139.29	3.05	3.01	99	0.95	31
457	467	10	139.29	142.34	3.05	2.95	97	1.51	50
467	477	10	142.34	145.39	3.05	2.99	98	0.25	8
477	487	10	145.39	148.44	3.05	3.03	99	0.34	11
487	497	10	148.44	151.49	3.05	3.00	98	1.43	47
497	507	10	151.49	154.53	3.05	3.02	99	0.84	28
507	517	10	154.53	157.58	3.05	2.97	97	0.69	23
517	527	10	157.58	160.63	3.05	3.04	100	1.76	58
527	537	10	160.63	163.68	3.05	2.90	95	1.06	35
537	547	10	163.68	166.73	3.05	2.83	93	0.41	13

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
547	557	10	166.73	169.77	3.05	2.98	98	0.83	27
557	567	10	169.77	172.82	3.05	2.75	90	0.26	9
567	577	10	172.82	175.87	3.05	2.55	84	0.39	13
577	587	10	175.87	178.92	3.05	2.65	87	0.12	4
587	597	10	178.92	181.97	3.05	2.85	94	0.70	23
597	607	10	181.97	185.01	3.05	2.81	92	0.62	20
607	617	10	185.01	188.06	3.05	2.69	88	0.10	3
617	627	10	188.06	191.11	3.05	2.78	91	0.27	9
627	637	11	191.11	194.16	3.05	2.85	94	0.53	17
637	647	12	194.16	197.21	3.05	2.75	90	0.57	19
647	657	13	197.21	200.25	3.05	2.84	93	0.58	19
657	667	14	200.25	203.30	3.05	2.90	95	0.39	13
667	677	15	203.30	206.35	3.05	2.72	89	0.32	10
677	687	16	206.35	209.40	3.05	2.79	92	1.21	40
687	697	17	209.40	212.45	3.05	2.75	90	1.09	36
697	707	18	212.45	215.49	3.05	2.84	93	1.26	41

Meridian Mapping Ltd.
Geotechnical Log
Hole No. R07-07

RATERIA PROJECT

Logged by:
J. McNeil and K. Nakano

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
74	77	3	22.56	23.47	0.91	0.80	87	0.12	13
77	87	10	23.47	26.52	3.05	2.44	80	0.51	17
87	97	10	26.52	29.57	3.05	2.07	68	0.15	5
97	107	10	29.57	32.61	3.05	2.79	92	0.14	5
107	117	10	32.61	35.66	3.05	2.75	90	0.00	0
117	127	10	35.66	38.71	3.05	2.41	79	0.19	6
127	137	10	38.71	41.76	3.05	2.56	84	0.23	8
137	147	10	41.76	44.81	3.05	2.11	69	0.46	15
147	157	10	44.81	47.85	3.05	2.01	66	0.00	0
157	167	10	47.85	50.90	3.05	2.45	80	0.13	4
167	177	10	50.90	53.95	3.05	2.21	73	0.00	0
177	187	10	53.95	57.00	3.05	2.05	67	0.00	0
187	197	10	57.00	60.05	3.05	2.46	81	0.21	7
197	207	10	60.05	63.09	3.05	2.83	93	0.00	0
207	217	10	63.09	66.14	3.05	2.45	80	0.00	0
217	227	10	66.14	69.19	3.05	2.81	92	0.15	5
227	237	10	69.19	72.24	3.05	2.49	82	0.12	4
237	247	10	72.24	75.29	3.05	2.65	87	0.25	8
247	257	10	75.29	78.33	3.05	2.88	94	0.60	20
257	267	10	78.33	81.38	3.05	2.82	93	0.76	25
267	277	10	81.38	84.43	3.05	2.71	89	0.82	27
277	287	10	84.43	87.48	3.05	2.51	82	0.64	21
287	297	10	87.48	90.53	3.05	2.25	74	0.00	0
297	307	10	90.53	93.57	3.05	2.65	87	0.13	4
307	317	10	93.57	96.62	3.05	2.46	81	0.21	7
317	327	10	96.62	99.67	3.05	2.51	82	0.11	4
327	337	10	99.67	102.72	3.05	1.95	64	0.00	0
337	347	10	102.72	105.77	3.05	2.05	67	0.19	6
347	357	10	105.77	108.81	3.05	2.55	84	0.00	0
357	367	10	108.81	111.86	3.05	2.22	73	0.00	0
367	377	10	111.86	114.91	3.05	1.80	59	0.13	4
377	387	10	114.91	117.96	3.05	2.45	80	0.15	5
387	397	10	117.96	121.01	3.05	1.71	56	0.10	3
397	407	10	121.01	124.05	3.05	2.50	82	0.48	16
407	417	10	124.05	127.10	3.05	2.90	95	0.00	0
417	427	10	127.10	130.15	3.05	2.80	92	0.55	18
427	437	10	130.15	133.20	3.05	1.35	44	0.00	0
437	447	10	133.20	136.25	3.05	2.00	66	0.28	9
447	457	10	136.25	139.29	3.05	2.65	87	0.50	16
457	467	10	139.29	142.34	3.05	2.90	95	0.52	17
467	477	10	142.34	145.39	3.05	3.05	100	0.95	31
477	487	10	145.39	148.44	3.05	3.00	98	0.50	16
487	497	10	148.44	151.49	3.05	2.60	85	0.20	7
497	507	10	151.49	154.53	3.05	2.95	97	0.67	22
507	517	10	154.53	157.58	3.05	2.80	92	0.31	10
517	527	10	157.58	160.63	3.05	3.05	100	1.28	42
527	537	10	160.63	163.68	3.05	3.05	100	1.23	40
537	547	10	163.68	166.73	3.05	2.20	72	0.17	6
547	557	10	166.73	169.77	3.05	2.10	69	0.00	0
557	567	10	169.77	172.82	3.05	1.40	46	0.27	9

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
567	577	10	172.82	175.87	3.05	2.70	89	0.75	25
577	587	10	175.87	178.92	3.05	2.80	92	0.53	17
587	597	10	178.92	181.97	3.05	2.85	94	0.12	4
597	607	10	181.97	185.01	3.05	2.85	94	0.48	16
607	617	10	185.01	188.06	3.05	2.80	92	0.18	6
617	627	10	188.06	191.11	3.05	3.05	100	1.35	44
627	637	10	191.11	194.16	3.05	2.90	95	0.44	14
637	647	10	194.16	197.21	3.05	2.95	97	1.10	36
647	657	10	197.21	200.25	3.05	2.90	95	1.45	48
657	667	10	200.25	203.30	3.05	2.95	97	0.35	11
667	677	10	203.30	206.35	3.05	2.85	94	0.21	7
677	687	10	206.35	209.40	3.05	2.70	89	0.35	11
687	697	10	209.40	212.45	3.05	2.75	90	0.11	4
697	707	10	212.45	215.49	3.05	2.40	79	0.18	6
707	717	10	215.49	218.54	3.05	2.80	92	0.30	10
717	727	10	218.54	221.59	3.05	2.45	80	0.21	7
727	737	10	221.59	224.64	3.05	2.80	92	0.10	3
737	747	10	224.64	227.69	3.05	3.01	99	0.11	4
747	757	10	227.69	230.73	3.05	2.98	98	0.85	28
757	767	10	230.73	233.78	3.05	3.02	99	0.19	6
767	777	10	233.78	236.83	3.05	3.03	99	0.98	32
777	787	10	236.83	239.88	3.05	3.04	100	1.37	45
787	797	10	239.88	242.93	3.05	2.95	97	1.70	56
797	807	10	242.93	245.97	3.05	2.90	95	0.77	25
807	808	1	245.97	246.28	0.30	0.26	85	0.13	43

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log Logged by:

Hole No. R07-08 J. McNeil

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
83	87	4	25.30	26.52	1.22	0.80	66	0.00	0
87	97	10	26.52	29.57	3.05	1.90	62	0.00	0
97	107	10	29.57	32.61	3.05	1.95	64	0.00	0
107	117	10	32.61	35.66	3.05	0.60	20	0.00	0
117	127	10	35.66	38.71	3.05	2.25	74	0.32	10
127	137	10	38.71	41.76	3.05	1.80	59	0.00	0
137	147	10	41.76	44.81	3.05	2.05	67	0.13	4
147	157	10	44.81	47.85	3.05	2.50	82	0.25	8
157	167	10	47.85	50.90	3.05	2.70	89	0.17	6
167	177	10	50.90	53.95	3.05	3.00	98	0.15	5
177	187	10	53.95	57.00	3.05	2.65	87	0.40	13
187	197	10	57.00	60.05	3.05	2.70	89	0.18	6
197	207	10	60.05	63.09	3.05	2.90	95	1.30	43
207	217	10	63.09	66.14	3.05	2.65	87	0.67	22
217	227	10	66.14	69.19	3.05	2.20	72	0.00	0
227	237	10	69.19	72.24	3.05	2.55	84	0.65	21
237	247	10	72.24	75.29	3.05	2.30	75	0.00	0
247	257	10	75.29	78.33	3.05	2.85	94	0.24	8
257	267	10	78.33	81.38	3.05	2.45	80	0.39	13
267	277	10	81.38	84.43	3.05	2.55	84	0.23	8
277	287	10	84.43	87.48	3.05	1.00	33	0.00	0
287	297	10	87.48	90.53	3.05	2.10	69	0.16	5
297	307	10	90.53	93.57	3.05	1.65	54	0.00	0
307	317	10	93.57	96.62	3.05	1.80	59	0.00	0
317	327	10	96.62	99.67	3.05	2.55	84	0.15	5
327	337	10	99.67	102.72	3.05	2.90	95	0.43	14
337	347	10	102.72	105.77	3.05	3.00	98	1.13	37
347	357	10	105.77	108.81	3.05	2.95	97	0.83	27
357	367	10	108.81	111.86	3.05	2.90	95	1.18	39
367	377	10	111.86	114.91	3.05	3.00	98	1.27	42
377	387	10	114.91	117.96	3.05	2.85	94	0.37	12
387	397	10	117.96	121.01	3.05	2.65	87	0.00	0
397	407	10	121.01	124.05	3.05	1.90	62	0.00	0
407	417	10	124.05	127.10	3.05	2.05	67	0.00	0
417	427	10	127.10	130.15	3.05	2.65	87	0.64	21
427	437	10	130.15	133.20	3.05	2.90	95	0.91	30
437	447	10	133.20	136.25	3.05	2.90	95	0.56	18
447	457	10	136.25	139.29	3.05	2.75	90	0.11	4
457	467	10	139.29	142.34	3.05	-	-	-	-
467	477	10	142.34	145.39	3.05	-	-	-	-
477	487	10	145.39	148.44	3.05	-	-	-	-
487	497	10	148.44	151.49	3.05	-	-	-	-
497	507	10	151.49	154.53	3.05	-	-	-	-
507	517	10	154.53	157.58	3.05	3.05	100	1.10	36
517	527	10	157.58	160.63	3.05	3.05	100	1.45	48
527	537	10	160.63	163.68	3.05	3.05	100	0.80	26
537	547	10	163.68	166.73	3.05	2.90	95	0.49	16
547	557	10	166.73	169.77	3.05	2.85	94	0.37	12
557	567	10	169.77	172.82	3.05	2.92	96	1.22	40
567	577	10	172.82	175.87	3.05	3.05	100	0.30	10

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
577	587	10	175.87	178.92	3.05	3.05	100	0.44	14
587	597	10	178.92	181.97	3.05	3.00	98	0.48	16
597	607	10	181.97	185.01	3.05	3.05	100	1.70	56
607	617	10	185.01	188.06	3.05	3.05	100	0.00	0

Meridian Mapping Ltd.
Geotechnical Log
Hole No. R07-09

RATERIA PROJECT

Logged by:
R. Montgomery

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
27.00	37.00	10.00	8.20	11.30	3.10	2.00	65%	0.70	0%
37.00	47.00	10.00	11.30	14.33	3.03	3.03	100%	1.50	50%
47.00	57.00	10.00	14.33	17.37	3.04	3.03	100%	2.00	66%
57.00	67.00	10.00	17.37	20.42	3.05	3.04	100%	1.85	61%
67.00	77.00	10.00	20.42	23.47	3.05	3.05	100%	1.80	59%
77.00	87.00	10.00	23.47	26.52	3.05	3.05	100%	1.25	41%
87.00	97.00	10.00	26.52	29.57	3.05	3.05	100%	1.70	56%
97.00	107.00	10.00	29.57	32.61	3.04	2.95	97%	0.60	20%
107.00	117.00	10.00	32.61	35.66	3.05	3.00	98%	1.20	39%
117.00	127.00	10.00	35.66	38.71	3.05	3.05	100%	1.55	51%
127.00	137.00	10.00	38.71	41.76	3.05	3.00	98%	1.20	39%
137.00	147.00	10.00	41.76	44.80	3.04	2.05	67%	1.25	41%
147.00	157.00	10.00	44.80	47.85	3.05	2.65	87%	1.15	38%
157.00	167.00	10.00	47.85	50.90	3.05	3.00	98%	1.40	46%
167.00	176.00	9.00	50.90	53.65	2.75	2.70	98%	1.35	49%
176.00	186.00	10.00	53.65	56.69	3.04	3.04	100%	2.20	72%
186.00	195.00	9.00	56.69	59.44	2.74	2.70	98%	2.50	91%
195.00	205.00	10.00	59.44	62.48	3.05	3.05	100%	2.40	79%
205.00	213.00	8.00	62.48	64.92	2.44	2.44	100%	1.70	70%
213.00	217.00	4.00	64.92	66.14	1.22	1.22	100%	0.75	62%
217.00	227.00	10.00	66.14	69.19	3.05	3.00	98%	1.25	41%
227.00	237.00	10.00	69.19	72.24	3.05	2.95	97%	2.10	69%
237.00	247.00	10.00	72.24	75.29	3.05	2.65	87%	0.45	15%
247.00	257.00	10.00	75.29	78.33	3.05	2.95	97%	1.80	59%
257.00	267.00	10.00	78.33	81.38	3.05	3.05	100%	2.45	80%
267.00	277.00	10.00	81.38	84.43	3.05	2.80	92%	1.20	39%
277.00	287.00	10.00	84.43	87.48	3.05	2.60	85%	0.65	21%
287.00	297.00	10.00	87.48	90.53	3.05	3.00	98%	1.05	34%
297.00	307.00	10.00	90.53	93.57	3.05	2.85	94%	1.75	57%
307.00	317.00	10.00	93.57	96.62	3.05	2.9	95%	2.7	89%
317.00	327.00	10.00	96.62	99.67	3.05	3.02	99%	1.85	61%
327.00	337.00	10.00	99.67	102.72	3.05	3.05	100%	2.65	87%
337.00	345.00	8.00	102.72	105.16	2.44	2.4	98%	1.1	45%
345.00	352.00	7.00	105.16	107.29	2.13	2.13	100%	0.5	23%
352.00	360.00	8.00	107.29	109.73	2.44	2.15	88%	0.1	4%
360.00	367.00	7.00	109.73	111.86	2.13	1.95	91%	0.2	9%
367.00	375.00	8.00	111.86	114.30	2.44	2.35	96%	0.15	6%
375.00	384.00	9.00	114.30	117.04	2.74	2.65	97%	0.55	20%
384.00	394.00	10.00	117.04	120.09	3.05	3	98%	1.25	41%
394.00	404.00	10.00	120.09	123.14	3.05	3.05	100%	1.55	51%
404.00	407.00	3.00	123.14	124.05	0.91	0.91	100%	0.45	49%
407.00	417.00	10.00	124.05	127.10	3.05	3.05	100%	2.45	80%
417.00	427.00	10.00	127.10	130.15	3.05	3.05	100%	0.8	26%
427.00	437.00	10.00	130.15	133.20	3.05	3	98%	1.95	64%
437.00	447.00	10.00	133.20	136.25	3.05	3.05	100%	2.45	80%
447.00	457.00	10.00	136.25	139.29	3.05	3.05	100%	2.35	77%
457.00	467.00	10.00	139.29	142.34	3.05	2.85	94%	1.3	43%
467.00	477.00	10.00	142.34	145.39	3.05	2.90	95%	0.95	31%
477.00	487.00	10.00	145.39	148.44	3.05	2.90	95%		0%
487.00	496.00	9.00	148.44	151.18	2.74	2.45	89%	0.30	11%

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
496.00	506.00	10.00	151.18	154.23	3.05	3.00	98%	2.30	75%
506.00	516.00	10.00	154.23	157.28	3.05	3.05	100%	2.40	79%
516.00	525.00	9.00	157.28	160.02	2.74	3.00	109%	1.80	66%
525.00	527.00	2.00	160.02	160.63	0.61	0.61	100%	0.20	33%
527.00	536.00	9.00	160.63	163.37	2.74	2.72	99%	0.90	33%
536.00	546.00	10.00	163.37	166.42	3.05	3.05	100%	2.75	90%
546.00	556.00	10.00	166.42	169.47	3.05	3.00	98%	2.80	92%
556.00	566.00	10.00	169.47	172.52	3.05	3.00	98%	2.60	85%
566.00	576.00	10.00	172.52	175.56	3.05	3.05	100%	2.45	80%
576.00	577.00	10.00	175.56	175.87	0.30	0.30	98%	0.10	33%
577.00	587.00	10.00	175.87	178.92	3.05	3.05	100%	2.9	95%
587.00	597.00	10.00	178.92	181.97	3.05	3.05	100%	2.25	74%
597.00	604.00	7.00	181.97	184.10	2.13	2.13	100%	1.55	73%
604.00	614.00	10.00	184.10	187.15	3.05	3.05	100%	2.1	69%
614.00	619.00	5.00	187.15	188.67	1.52	1.1	72%	0.5	33%
619.00	625.00	6.00	188.67	190.50	1.83	1.55	85%	0	0%
625.00	632.00	7.00	190.50	192.63	2.13	2.1	98%	0.5	23%
632.00	640.00	8.00	192.63	195.07	2.44	2.44	100%	1.2	49%
640.00	645.00	5.00	195.07	196.60	1.52	1.45	95%	0.4	26%
645.00	655.00	10.00	196.60	199.64	3.05	2.95	97%	1.85	61%
655.00	664.00	9.00	199.64	202.39	2.74	2.74	100%	1.45	53%

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log Logged by:

Hole No. R07-10 R. Montgomery

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
19.00	27.00	8.00	5.83	8.23	2.44	2.40	98.36	1.60	65.57
27.00	37.00	10.00	8.23	11.28	3.05	2.45	80.33	0.95	31.15
37.00	47.00	10.00	11.28	14.33	3.05	3.05	100.00	1.85	60.66
47.00	57.00	10.00	14.33	17.37	3.05	3.05	100.00	1.45	47.54
57.00	67.00	10.00	17.37	20.42	3.05	3.05	100.07	1.35	44.29
67.00	76.00	9.00	20.42	23.16	2.74	2.74	99.88	1.35	49.21
76.00	86.00	10.00	23.16	26.21	3.05	3.05	100.07	1.28	41.99
86.00	96.00	10.00	26.21	29.26	3.05	3.05	100.07	1.30	42.65
96.00	106.00	10.00	29.26	32.31	3.05	3.05	100.07	1.73	56.76
106.00	116.00	10.00	32.31	35.36	3.05	3.00	98.43	1.33	43.64
116.00	122.00	6.00	35.36	37.19	1.83	1.75	95.69	0.10	5.47
122.00	127.00	5.00	37.19	38.71	1.52	1.45	95.14	0.00	0.00
127.00	137.00	10.00	38.71	41.76	3.05	2.75	90.22	0.15	4.92
137.00	147.00	10.00	41.76	44.81	3.05	2.90	95.14	0.40	13.12
147.00	157.00	10.00	44.81	47.85	3.05	2.75	90.22	0.27	8.86
157.00	167.00	10.00	47.85	50.90	3.05	3.05	100.07	0.50	16.40
167.00	176.00	9.00	50.90	53.64	2.74	2.65	96.60	0.10	3.65
176.00	186.00	10.00	53.64	56.69	3.05	3.05	100.07	0.25	8.20
186.00	196.00	10.00	56.69	59.74	3.05	3.00	98.43	0.72	23.62
196.00	207.00	11.00	59.74	63.09	3.35	3.30	98.43	0.87	25.95
207.00	217.00	10.00	63.09	66.14	3.05	3.05	100.07	1.30	42.65
217.00	227.00	10.00	66.14	69.19	3.05	3.00	98.43	1.50	49.21
227.00	237.00	10.00	69.19	72.24	3.05	3.05	100.07	1.10	36.09
237.00	247.00	10.00	72.24	75.29	3.05	3.05	100.07	0.55	18.04
247.00	257.00	10.00	75.29	78.33	3.05	3.05	100.07	1.70	55.77
257.00	267.00	10.00	78.33	81.38	3.05	2.65	86.94	1.25	41.01
267.00	277.00	10.00	81.38	84.43	3.05	3.05	100.07	1.70	55.77
277.00	287.00	10.00	84.43	87.48	3.05	2.60	85.30	0.00	0.00
287.00	297.00	10.00	87.48	90.53	3.05	2.20	72.18	0.50	16.40
297.00	307.00	10.00	90.53	93.57	3.05	2.85	93.50	0.10	3.28
307.00	317.00	10.00	93.57	96.62	3.05	3.00	98.43	2.55	83.66
317.00	327.00	10.00	96.62	99.67	3.05	3.00	98.43	2.10	68.90
327.00	337.00	10.00	99.67	102.72	3.05	3.05	100.07	0.75	24.61
337.00	347.00	10.00	102.72	105.77	3.05	3.05	100.07	1.70	55.77
347.00	357.00	10.00	105.77	108.81	3.05	3.05	100.07	1.00	32.81
357.00	367.00	10.00	108.81	111.86	3.05	3.05	100.07	1.85	60.70
367.00	377.00	10.00	111.86	114.91	3.05		0.00		0.00
377.00	387.00	10.00	114.91	117.96	3.05		0.00		0.00
387.00	397.00	10.00	117.96	121.01	3.05	3.05	100.07	1.55	50.85
397.00	407.00	10.00	121.01	124.05	3.05	3.05	100.07	1.85	60.70
407.00	417.00	10.00	124.05	127.10	3.05	3.00	98.43	1.90	62.34
417.00	427.00	10.00	127.10	130.15	3.05	3.05	100.07	1.90	62.34
427.00	437.00	10.00	130.15	133.20	3.05	3.05	100.07	1.15	37.73
437.00	447.00	10.00	133.20	136.25	3.05	3.05	100.07	2.10	68.90
447.00	457.00	10.00	136.25	139.29	3.05	3.00	98.43	1.80	59.06
457.00	467.00	10.00	139.29	142.34	3.05	3.05	100.07	1.70	55.77
467.00	477.00	10.00	142.34	145.39	3.05	3.00	98.43	0.85	27.89
477.00	487.00	10.00	145.39	148.44	3.05	2.95	96.78	0.00	0.00
487.00	497.00	10.00	148.44	151.49	3.05	3.00	98.43	0.75	24.61
497.00	507.00	10.00	151.49	154.53	3.05	2.70	88.58	1.05	34.45

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
507.00	515.00	8.00	154.53	156.97	2.44	2.30	94.32	0.10	4.10
515.00	525.00	10.00	156.97	160.02	3.05	3.00	98.43	1.40	45.93
525.00	535.00	10.00	160.02	163.07	3.05	3.05	100.07	1.75	57.41
535.00	542.00	7.00	163.07	165.20	2.13	1.85	86.71	1.30	60.93
542.00	547.00	5.00	165.20	166.73	1.52	1.35	88.58	0.10	6.56
547.00	557.00	10.00	166.73	169.77	3.05	2.75	90.22	0.65	21.33
557.00	567.00	10.00	169.77	172.82	3.05	2.75	90.22	1.15	37.73
567.00	577.00	10.00	172.82	175.87	3.05	2.80	91.86	1.70	55.77
577.00	587.00	10.00	175.87	178.92	3.05	3.05	100.07	1.60	52.49
587.00	597.00	10.00	178.92	181.97	3.05	3.05	100.07	2.00	65.62
597.00	607.00	10.00	181.97	185.01	3.05	3.05	100.07	1.50	49.21
607.00	617.00	10.00	185.01	188.06	3.05	3.05	100.07	2.55	83.66
617.00	627.00	10.00	188.06	191.11	3.05	3.05	100.07	2.05	67.26
627.00	637.00	10.00	191.11	194.16	3.05	3.05	100.07	2.65	86.94
637.00	647.00	10.00	194.16	197.21	3.05	3.05	100.07	2.45	80.38
647.00	657.00	10.00	197.21	200.25	3.05	3.05	100.07	2.05	67.26
657.00	667.00	10.00	200.25	203.30	3.05	3.05	100.07	2.65	86.94

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log Logged by:

Hole No. R07-11 R. Montgomery

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
25.00	27.00	2.00	7.62	8.23	0.61	0.61	100.07	0.20	32.79
27.00	37.00	10.00	8.23	11.28	3.05	2.95	96.78	1.10	37.29
37.00	45.00	8.00	11.28	13.72	2.44	2.40	98.43	1.20	50.00
45.00	55.00	10.00	13.72	16.76	3.05	3.05	100.07	0.85	27.87
55.00	65.00	10.00	16.76	19.81	3.05	3.05	100.07	0.90	29.51
65.00	70.00	5.00	19.81	21.34	1.52	1.52	99.74	1.00	65.79
70.00	77.00	7.00	21.34	23.47	2.13	2.13	99.83	1.35	63.38
77.00	86.00	9.00	23.47	26.21	2.74	2.70	98.43	1.05	38.89
86.00	96.00	10.00	26.21	29.26	3.05	2.75	90.22	0.95	34.55
96.00	106.00	10.00	29.26	32.31	3.05	3.05	100.07	0.85	27.87
106.00	116.00	10.00	32.31	35.36	3.05	3.05	100.07	1.25	40.98
116.00	125.00	9.00	35.36	38.10	2.74	2.65	96.60	1.00	37.74
125.00	134.00	9.00	38.10	40.84	2.74	1.80	65.62	1.20	66.67
134.00	137.00	3.00	40.84	41.76	0.91	0.90	98.43	0.35	38.89
137.00	147.00	10.00	41.76	44.81	3.05	3.00	98.43	1.20	40.00
147.00	157.00	10.00	44.81	47.85	3.05	2.85	93.50	1.15	40.35
157.00	167.00	10.00	47.85	50.90	3.05	3.05	100.07	0.75	24.59
167.00	177.00	10.00	50.90	53.95	3.05	3.05	100.07	0.95	31.15
177.00	187.00	10.00	53.95	57.00	3.05	2.45	80.38	1.05	42.86
187.00	197.00	10.00	57.00	60.05	3.05	2.50	82.02	0.90	36.00
197.00	207.00	10.00	60.05	63.09	3.05	3.00	98.43	0.95	31.67
207.00	217.00	10.00	63.09	66.14	3.05	2.65	86.94	0.20	7.55
217.00	227.00	10.00	66.14	69.19	3.05	3.05	100.07	1.30	42.62
227.00	237.00	10.00	69.19	72.24	3.05	3.05	100.07	0.50	16.39
237.00	245.00	8.00	72.24	74.68	2.44	2.40	98.43	0.80	33.33
245.00	255.00	10.00	74.68	77.72	3.05	2.95	96.78	0.00	0.00
255.00	257.00	2.00	77.72	78.33	0.61	0.61	100.07	0.30	49.18
257.00	267.00	10.00	78.33	81.38	3.05	3.05	100.07	1.10	36.07
267.00	277.00	10.00	81.38	84.43	3.05	3.05	100.07	1.20	39.34
277.00	287.00	10.00	84.43	87.48	3.05	3.05	100.07	1.15	37.70
287.00	297.00	10.00	87.48	90.53	3.05	3.05	100.07	0.90	29.51
297.00	307.00	10.00	90.53	93.57	3.05	3.05	100.07	0.85	27.87
307.00	317.00	10.00	93.57	96.62	3.05	3.05	100.07	0.90	29.51
317.00	327.00	10.00	96.62	99.67	3.05	3.00	98.43	0.90	30.00
327.00	337.00	10.00	99.67	102.72	3.05	2.95	96.78	0.40	13.56
337.00	347.00	10.00	102.72	105.77	3.05	3.05	100.07	0.75	24.59
347.00	357.00	10.00	105.77	108.81	3.05	3.05	100.07	1.70	55.74
357.00	367.00	10.00	108.81	111.86	3.05	3.05	100.07	1.30	42.62
367.00	377.00	10.00	111.86	114.91	3.05	3.05	100.07	1.80	59.02
377.00	387.00	10.00	114.91	117.96	3.05	3.05	100.07	1.10	36.07
387.00	397.00	10.00	117.96	121.01	3.05	3.05	100.07	1.25	40.98
397.00	407.00	10.00	121.01	124.05	3.05	3.05	100.07	1.50	49.18
407.00	417.00	10.00	124.05	127.10	3.05	3.05	100.07	2.10	68.85
417.00	427.00	10.00	127.10	130.15	3.05	2.85	93.50	1.90	66.67
427.00	437.00	10.00	130.15	133.20	3.05	3.05	100.07	1.70	55.74
437.00	447.00	10.00	133.20	136.25	3.05	3.05	100.07	1.50	49.18
447.00	457.00	10.00	136.25	139.29	3.05	3.05	100.07	2.10	68.85
457.00	467.00	10.00	139.29	142.34	3.05	3.00	98.43	1.20	40.00
467.00	477.00	10.00	142.34	145.39	3.05	3.05	100.07	1.85	60.66
477.00	487.00	10.00	145.39	148.44	3.05	3.05	100.07	1.50	49.18

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
487.00	497.00	10.00	148.44	151.49	3.05	3.05	100.07	2.30	75.41
497.00	507.00	10.00	151.49	154.53	3.05	3.05	100.07	2.40	78.69
507.00	517.00	10.00	154.53	157.58	3.05	3.05	100.07	2.55	83.61
517.00	527.00	10.00	157.58	160.63	3.05	3.05	100.07	1.95	63.93
527.00	537.00	10.00	160.63	163.68	3.05	3.05	100.07	2.40	78.69
537.00	547.00	10.00	163.68	166.73	3.05	3.05	100.07	2.75	90.16
547.00	557.00	10.00	166.73	169.77	3.05	3.05	100.07	2.15	70.49
557.00	567.00	10.00	169.77	172.82	3.05	3.05	100.07	1.60	52.46
567.00	577.00	10.00	172.82	175.87	3.05	3.05	100.07	1.20	39.34
577.00	587.00	10.00	175.87	178.92	3.05	3.05	100.07	1.10	36.07
587.00	597.00	10.00	178.92	181.97	3.05	3.05	100.07	2.45	80.33
597.00	607.00	10.00	181.97	185.01	3.05	3.05	100.07	1.10	36.07
607.00	617.00	10.00	185.01	188.06	3.05	3.05	100.07	1.00	32.79
617.00	627.00	10.00	188.06	191.11	3.05	3.05	100.07	1.40	45.90
627.00	637.00	10.00	191.11	194.16	3.05	3.05	100.07	1.45	47.54
637.00	647.00	10.00	194.16	197.21	3.05	3.05	100.07	1.65	54.10

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log Logged by:

Hole No. R07-12 R. Montgomery

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
30.00	37.00	7.00	9.14	11.28	2.13	1.30	60.93	0.15	7.03
37.00	47.00	10.00	11.28	14.33	3.05	3.05	100.07	1.60	52.49
47.00	57.00	10.00	14.33	17.37	3.05	3.05	100.07	1.00	32.81
57.00	67.00	10.00	17.37	20.42	3.05	2.95	96.78	0.75	24.61
67.00	77.00	10.00	20.42	23.47	3.05	3.05	100.07	0.80	26.25
77.00	87.00	10.00	23.47	26.52	3.05	3.00	98.43	0.65	21.33
87.00	97.00	10.00	26.52	29.57	3.05	3.00	98.43	0.40	13.12
97.00	107.00	10.00	29.57	32.61	3.05	2.25	73.82	0.10	3.28
107.00	117.00	10.00	32.61	35.66	3.05	2.35	77.10	0.20	6.56
117.00	127.00	10.00	35.66	38.71	3.05	2.75	90.22	0.60	19.69
127.00	137.00	10.00	38.71	41.76	3.05	2.75	90.22	0.20	6.56
137.00	145.00	8.00	41.76	44.20	2.44	2.40	98.43	0.25	10.25
145.00	152.00	7.00	44.20	46.33	2.13	2.10	98.43	0.15	7.03
152.00	157.00	5.00	46.33	47.85	1.52	1.45	95.14	0.60	39.37
157.00	167.00	10.00	47.85	50.90	3.05	3.05	100.07	1.60	52.49
167.00	177.00	10.00	50.90	53.95	3.05	3.05	100.07	0.50	16.40
177.00	187.00	10.00	53.95	57.00	3.05	3.05	100.07	1.10	36.09
187.00	197.00	10.00	57.00	60.05	3.05	3.05	100.07	1.30	42.65
197.00	207.00	10.00	60.05	63.09	3.05	3.05	100.07	1.80	59.06
207.00	217.00	10.00	63.09	66.14	3.05	3.05	100.07	0.50	16.40
217.00	227.00	10.00	66.14	69.19	3.05	3.05	100.07	0.75	24.61
227.00	237.00	10.00	69.19	72.24	3.05	3.05	100.07	1.60	52.49
237.00	247.00	10.00	72.24	75.29	3.05	3.05	100.07	1.15	37.73
247.00	257.00	10.00	75.29	78.33	3.05	3.05	100.07	2.00	65.62
257.00	267.00	10.00	78.33	81.38	3.05	3.05	100.07	1.30	42.65
267.00	277.00	10.00	81.38	84.43	3.05	3.05	100.07	1.40	45.93
277.00	287.00	10.00	84.43	87.48	3.05	3.05	100.07	0.65	21.33
287.00	297.00	10.00	87.48	90.53	3.05	3.05	100.07	1.25	41.01
297.00	307.00	10.00	90.53	93.57	3.05	3.05	100.07	1.40	45.93
307.00	317.00	10.00	93.57	96.62	3.05	3.05	100.07	1.30	42.65
317.00	327.00	10.00	96.62	99.67	3.05	3.05	100.07	1.90	62.34
327.00	337.00	10.00	99.67	102.72	3.05	3.05	100.07	1.75	57.41
337.00	347.00	10.00	102.72	105.77	3.05	3.05	100.07	1.70	55.77
347.00	357.00	10.00	105.77	108.81	3.05	3.05	100.07	1.80	59.06
357.00	367.00	10.00	108.81	111.86	3.05	3.05	100.07	1.75	57.41
367.00	377.00	10.00	111.86	114.91	3.05	3.05	100.07	2.20	72.18
377.00	387.00	10.00	114.91	117.96	3.05	3.05	100.07	1.00	32.81
387.00	397.00	10.00	117.96	121.01	3.05	3.05	100.07	0.75	24.61
397.00	407.00	10.00	121.01	124.05	3.05	3.05	100.07	1.45	47.57
407.00	417.00	10.00	124.05	127.10	3.05	3.05	100.07	2.30	75.46
417.00	427.00	10.00	127.10	130.15	3.05	3.05	100.07	1.70	55.77
427.00	436.00	9.00	130.15	132.89	2.74	2.74	99.88	0.20	7.29
436.00	446.00	10.00	132.89	135.94	3.05	2.25	73.82	0.95	31.17
446.00	456.00	10.00	135.94	138.99	3.05	3.05	100.07	0.95	31.17
456.00	467.00	11.00	138.99	142.34	3.35	3.35	99.92	1.00	29.83
467.00	477.00	10.00	142.34	145.39	3.05	2.75	90.22	1.00	32.81
477.00	487.00	10.00	145.39	148.44	3.05	3.05	100.07	1.40	45.93
487.00	497.00	10.00	148.44	151.49	3.05	3.05	100.07	2.00	65.62
497.00	507.00	10.00	151.49	154.53	3.05	3.05	100.07	1.15	37.73
507.00	517.00	10.00	154.53	157.58	3.05	3.05	100.07	0.55	18.04

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
517.00	527.00	10.00	157.58	160.63	3.05	3.05	100.07	0.45	14.76
527.00	537.00	10.00	160.63	163.68	3.05	3.05	100.07	1.40	45.93
537.00	547.00	10.00	163.68	166.73	3.05	2.70	88.58	0.65	21.33
547.00	557.00	10.00	166.73	169.77	3.05	2.35	77.10	0.25	8.20
557.00	565.00	8.00	169.77	172.21	2.44	2.44	100.07	1.00	41.01
565.00	575.00	10.00	172.21	175.26	3.05	3.05	100.07	2.55	83.66
575.00	585.00	10.00	175.26	178.31	3.05	3.05	100.07	2.75	90.22
585.00	595.00	10.00	178.31	181.36	3.05	3.05	100.07	2.30	75.46
595.00	605.00	10.00	181.36	184.40	3.05	3.05	100.07	1.90	62.34
605.00	615.00	10.00	184.40	187.45	3.05	3.05	100.07	2.10	68.90

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
20.00	27.00	7.00	6.10	8.23	2.13	2.10	98.43	0.10	4.69
27.00	37.00	10.00	8.23	11.28	3.05	3.00	98.43	0.80	26.25
37.00	47.00	10.00	11.28	14.33	3.05	3.05	100.07	0.90	29.53
47.00	57.00	10.00	14.33	17.37	3.05	3.05	100.07	0.40	13.12
57.00	67.00	10.00	17.37	20.42	3.05	2.90	95.14	0.75	24.61
67.00	77.00	10.00	20.42	23.47	3.05	3.05	100.07	1.20	39.37
77.00	87.00	10.00	23.47	26.52	3.05	2.95	96.78	0.90	29.53
87.00	97.00	10.00	26.52	29.57	3.05	3.05	100.07	1.30	42.65
97.00	107.00	10.00	29.57	32.61	3.05	3.00	98.43	1.15	37.73
107.00	117.00	10.00	32.61	35.66	3.05	3.05	100.07	1.20	39.37
117.00	127.00	10.00	35.66	38.71	3.05	3.05	100.07	1.70	55.77
127.00	136.00	9.00	38.71	41.45	2.74	2.70	98.43	0.70	25.52
136.00	138.00	2.00	41.45	42.06	0.61	0.61	100.07	0.20	32.81
138.00	146.00	8.00	42.06	44.50	2.44	2.40	98.43	0.85	34.86
146.00	150.00	4.00	44.50	45.72	1.22	1.15	94.32	0.40	32.81
150.00	154.00	4.00	45.72	46.94	1.22	1.20	98.43	0.00	0.00
154.00	157.00	3.00	46.94	47.85	0.91	0.85	92.96	0.15	16.40
157.00	162.00	5.00	47.85	49.38	1.52	1.52	99.74	0.20	13.12
162.00	167.00	5.00	49.38	50.90	1.52	1.45	95.14	0.25	16.40
167.00	172.00	5.00	50.90	52.43	1.52	1.50	98.43	0.25	16.40
172.00	177.00	5.00	52.43	53.95	1.52	1.52	99.74	0.50	32.81
177.00	184.00	7.00	53.95	56.08	2.13	1.55	72.65	0.00	0.00
184.00	187.00	3.00	56.08	57.00	0.91	0.50	54.68	0.00	0.00
187.00	192.00	5.00	57.00	58.52	1.52	1.52	99.74	0.10	6.56
192.00	197.00	5.00	58.52	60.05	1.52	1.15	75.46	0.00	0.00
197.00	207.00	10.00	60.05	63.09	3.05	2.80	91.86	1.00	32.81
207.00	217.00	10.00	63.09	66.14	3.05	2.60	85.30	0.45	14.76
217.00	227.00	10.00	66.14	69.19	3.05	3.05	100.07	0.40	13.12
227.00	237.00	10.00	69.19	72.24	3.05	3.00	98.43	1.55	50.85
237.00	247.00	10.00	72.24	75.29	3.05	3.05	100.07	1.70	55.77
247.00	257.00	10.00	75.29	78.33	3.05	3.05	100.07	1.30	42.65
257.00	267.00	10.00	78.33	81.38	3.05	3.05	100.07	1.40	45.93
267.00	277.00	10.00	81.38	84.43	3.05	3.05	100.07	0.40	13.12
277.00	287.00	10.00	84.43	87.48	3.05	3.05	100.07	0.65	21.33
287.00	297.00	10.00	87.48	90.53	3.05	3.05	100.07	0.95	31.17
297.00	307.00	10.00	90.53	93.57	3.05	3.05	100.07	1.00	32.81
307.00	317.00	10.00	93.57	96.62	3.05	3.05	100.07	1.45	47.57
317.00	325.00	8.00	96.62	99.06	2.44	2.35	96.37	0.70	28.71
325.00	334.00	9.00	99.06	101.80	2.74	2.55	92.96	0.25	9.11
334.00	337.00	3.00	101.80	102.72	0.91	0.91	99.52	0.65	71.08
337.00	341.00	4.00	102.72	103.94	1.22	1.22	100.07	0.00	0.00
341.00	347.00	6.00	103.94	105.77	1.83	1.83	100.07	0.90	49.21
347.00	355.00	8.00	105.77	108.20	2.44	2.44	100.07	1.10	45.11
355.00	367.00	12.00	108.20	111.86	3.66	-		-	
367.00	377.00	10.00	111.86	114.91	3.05	-		-	
377.00	387.00	10.00	114.91	117.96	3.05	-		-	
387.00	397.00	10.00	117.96	121.01	3.05	-		-	
397.00	407.00	10.00	121.01	124.05	3.05	-		-	
407.00	417.00	10.00	124.05	127.10	3.05	3.00	98.43	1.00	32.81
417.00	427.00	10.00	127.10	130.15	3.05	3.00	98.43	0.55	18.04

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
427.00	437.00	10.00	130.15	133.20	3.05	3.05	100.07	1.25	41.01
437.00	447.00	10.00	133.20	136.25	3.05	3.05	100.07	0.75	24.61
447.00	457.00	10.00	136.25	139.29	3.05	3.05	100.07	1.40	45.93
457.00	467.00	10.00	139.29	142.34	3.05	3.05	100.07	2.05	67.26
467.00	477.00	10.00	142.34	145.39	3.05	3.05	100.07	1.15	37.73
477.00	485.00	8.00	145.39	147.83	2.44	2.44	100.07	0.70	28.71
485.00	495.00	10.00	147.83	150.88	3.05	3.05	100.07	1.05	34.45
495.00	507.00	12.00	150.88	154.53	3.66	3.55	97.06	1.30	35.54
507.00	517.00	10.00	154.53	157.58	3.05	3.05	100.07	1.50	49.21
517.00	527.00	10.00	157.58	160.63	3.05	2.85	93.50	1.20	39.37
527.00	537.00	10.00	160.63	163.68	3.05	3.05	100.07	1.10	36.09
537.00	545.00	8.00	163.68	166.12	2.44	2.40	98.43	0.50	20.51
545.00	551.00	6.00	166.12	167.94	1.83	1.75	95.69	0.10	5.47
551.00	557.00	6.00	167.94	169.77	1.83	1.80	98.43	0.15	8.20
557.00	561.00	4.00	169.77	170.99	1.22	1.20	98.43	0.20	16.40
561.00	567.00	6.00	170.99	172.82	1.83	1.75	95.69	0.00	0.00
567.00	577.00	10.00	172.82	175.87	3.05	2.85	93.44	0.65	21.33
577.00	587.00	10.00	175.87	178.92	3.05	1.40	45.93	0.00	0.00
587.00	597.00	10.00	178.92	181.97	3.05	3.00	98.43	1.05	34.45
597.00	606.00	9.00	181.97	184.71	2.74	2.65	96.60	0.60	21.87
606.00	616.00	10.00	184.71	187.76	3.05	2.95	96.78	1.40	45.93
616.00	626.00	10.00	187.76	190.80	3.05	3.05	100.07	0.55	18.04
626.00	636.00	10.00	190.80	193.85	3.05	3.05	100.07	0.80	26.25
636.00	644.00	8.00	193.85	196.29	2.44	2.40	98.43	0.15	6.15
644.00	654.00	10.00	196.29	199.34	3.05	3.05	100.07	1.10	36.09
654.00	657.00	3.00	199.34	200.25	0.91	0.91	99.52	0.15	16.40
657.00	667.00	10.00	200.25	203.30	3.05	3.05	100.07	1.30	42.65
667.00	677.00	10.00	203.30	206.35	3.05	3.05	100.07	0.40	13.12
677.00	687.00	10.00	206.35	209.40	3.05	3.05	100.07	1.50	49.21
687.00	697.00	10.00	209.40	212.45	3.05	3.05	100.07	0.60	19.69
697.00	707.00	10.00	212.45	215.49	3.05	3.00	98.43	1.05	34.45
707.00	717.00	10.00	215.49	218.54	3.05	3.05	100.07	0.40	13.12
717.00	727.00	10.00	218.54	221.59	3.05	3.00	98.43	0.85	27.89
727.00	737.00	10.00	221.59	224.64	3.05	3.05	100.07	0.75	24.61
737.00	747.00	10.00	224.64	227.69	3.05	2.75	90.22	0.65	21.33
747.00	757.00	10.00	227.69	230.73	3.05	2.85	93.50	1.10	36.09
757.00	762.00	5.00	230.73	232.26	1.52	1.30	85.30	0.00	0.00
762.00	767.00	5.00	232.26	233.78	1.52	1.52	99.74	0.60	39.37
767.00	777.00	10.00	233.78	236.83	3.05	3.05	100.07	1.80	59.06
777.00	787.00	10.00	236.83	239.88	3.05	3.05	100.07	0.50	16.40
787.00	797.00	10.00	239.88	242.93	3.05	3.00	98.43	0.60	19.69
797.00	807.00	10.00	242.93	245.97	3.05	3.05	100.07	1.00	32.81
807.00	817.00	10.00	245.97	249.02	3.05	3.00	98.43	0.10	3.28
817.00	827.00	10.00	249.02	252.07	3.05	2.80	91.86	1.85	60.70
827.00	837.00	10.00	252.07	255.12	3.05	1.80	59.06	0.35	11.48
837.00	847.00	10.00	255.12	258.17	3.05	3.05	100.07	1.40	45.93
847.00	857.00	10.00	258.17	261.21	3.05	3.05	100.07	1.65	54.13
857.00	867.00	10.00	261.21	264.26	3.05	3.05	100.07	2.50	82.02
867.00	877.00	10.00	264.26	267.31	3.05	3.05	100.07	2.00	65.62
877.00	887.00	10.00	267.31	270.36	3.05	3.05	100.07	1.80	59.06

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
887.00	897.00	10.00	270.36	273.41	3.05	3.05	100.07	2.00	65.62
897.00	907.00	10.00	273.41	276.45	3.05	3.05	100.07	1.45	47.57
907.00	917.00	10.00	276.45	279.50	3.05	3.05	100.07	2.00	65.62
917.00	927.00	10.00	279.50	282.55	3.05	3.05	100.07	1.35	44.29
927.00	937.00	10.00	282.55	285.60	3.05	3.05	100.07	2.40	78.74
937.00	947.00	10.00	285.60	288.65	3.05	3.05	100.07	1.70	55.77
947.00	957.00	10.00	288.65	291.69	3.05	3.05	100.07	1.30	42.65
957.00	967.00	10.00	291.69	294.74	3.05	3.05	100.07	2.40	78.74
967.00	977.00	10.00	294.74	297.79	3.05	3.05	100.07	1.90	62.34
977.00	987.00	10.00	297.79	300.84	3.05	3.05	100.07	1.05	34.45
987.00	997.00	10.00	300.84	303.89	3.05	3.05	100.07	1.20	39.37
997.00	1007.00	10.00	303.89	306.93	3.05	3.05	100.07	1.50	49.21
1007.00	1017.00	10.00	306.93	309.98	3.05	3.05	100.07	1.20	39.37
1017.00	1027.00	10.00	309.98	313.03	3.05	3.05	100.07	1.05	34.45
1027.00	1037.00	10.00	313.03	316.08	3.05	2.50	82.02	0.40	13.12
1037.00	1047.00	10.00	316.08	319.13	3.05	3.05	100.07	0.70	22.97
1047.00	1053.00	6.00	319.13	320.95	1.83	1.50	82.02	0.30	16.40
1053.00	1060.00	7.00	320.95	323.09	2.13	2.13	99.83	0.20	9.37
1060.00	1067.00	7.00	323.09	325.22	2.13	2.13	99.83	1.20	56.24
1067.00	1077.00	10.00	325.22	328.27	3.05	3.00	98.43	0.25	8.20
1077.00	1087.00	10.00	328.27	331.32	3.05	3.05	100.07	0.85	27.89
1087.00	1097.00	10.00	331.32	334.37	3.05	3.05	100.07	0.30	9.84
1097.00	1107.00	10.00	334.37	337.41	3.05	3.05	100.07	1.10	36.09
1107.00	1117.00	10.00	337.41	340.46	3.05	3.05	100.07	0.30	9.84
1117.00	1127.00	10.00	340.46	343.51	3.05	3.05	100.07	1.30	42.65
1127.00	1137.00	10.00	343.51	346.56	3.05	3.05	100.07	0.75	24.61
1137.00	1147.00	10.00	346.56	349.61	3.05	3.05	100.07	1.10	36.09
1147.00	1155.00	8.00	349.61	352.04	2.44	2.44	100.07	0.50	20.51
1155.00	1164.00	9.00	352.04	354.79	2.74	2.74	99.88	0.30	10.94
1164.00	1170.00	6.00	354.79	356.62	1.83	1.83	100.07	0.30	16.40
1170.00	1177.00	7.00	356.62	358.75	2.13	2.13	99.83	0.75	35.15
1177.00	1183.00	6.00	358.75	360.58	1.83	1.80	98.43	0.00	0.00
1183.00	1193.00	10.00	360.58	363.63	3.05	3.05	100.07	0.40	13.12
1193.00	1203.00	10.00	363.63	366.67	3.05	3.05	100.07	0.55	18.04
1203.00	1212.00	9.00	366.67	369.42	2.74	2.74	99.88	0.45	16.40
1212.00	1217.00	5.00	369.42	370.94	1.52	1.52	99.74	0.20	13.12
1217.00	1227.00	10.00	370.94	373.99	3.05	3.00	98.43	0.60	19.69
1227.00	1237.00	10.00	373.99	377.04	3.05	2.95	96.78	0.70	22.97
1237.00	1247.00	10.00	377.04	380.09	3.05	2.85	93.50	0.85	27.89
1247.00	1253.00	6.00	380.09	381.91	1.83	1.83	100.07	0.70	38.28
1253.00	1259.00	6.00	381.91	383.74	1.83	1.83	100.07	0.15	8.20
1259.00	1264.00	5.00	383.74	385.27	1.52	1.52	99.74	0.75	49.21
1264.00	1274.00	10.00	385.27	388.32	3.05	3.05	100.07	0.95	31.17

Meridian Mapping Ltd. **RATERIA PROJECT**

Geotechnical Log Logged by:

Hole No. R07-14 R. Montgomery

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
20.00	27.00	7.00	6.10	8.23	2.13	1.35	63.27	0.15	7.03
27.00	37.00	10.00	8.23	11.28	3.05	2.75	90.22	0.40	13.12
37.00	47.00	10.00	11.28	14.33	3.05	3.00	98.43	1.15	37.73
47.00	57.00	10.00	14.33	17.37	3.05	2.05	67.26	0.40	13.12
57.00	77.00	20.00	17.37	23.47	6.10	3.22	52.82	0.35	5.74
77.00	87.00	10.00	23.47	26.52	3.05	3.05	100.07	1.70	55.77
87.00	97.00	10.00	26.52	29.57	3.05	3.05	100.07	2.50	82.02
97.00	107.00	10.00	29.57	32.61	3.05	3.05	100.07	1.85	60.70
107.00	117.00	10.00	32.61	35.66	3.05	3.05	100.07	2.20	72.18
117.00	127.00	10.00	35.66	38.71	3.05	2.60	85.30	1.10	36.09
127.00	137.00	10.00	38.71	41.76	3.05	2.95	96.78	1.60	52.49
137.00	147.00	10.00	41.76	44.81	3.05	3.05	100.07	0.90	29.53
147.00	157.00	10.00	44.81	47.85	3.05	3.05	100.07	1.10	36.09
157.00	167.00	10.00	47.85	50.90	3.05	2.95	96.78	1.15	37.73
167.00	177.00	10.00	50.90	53.95	3.05	3.05	100.07	2.10	68.90
177.00	187.00	10.00	53.95	57.00	3.05	3.00	98.43	1.80	59.06
187.00	197.00	10.00	57.00	60.05	3.05	3.05	100.07	1.55	50.85
197.00	207.00	10.00	60.05	63.09	3.05	3.00	98.43	1.60	52.49
207.00	217.00	10.00	63.09	66.14	3.05	3.05	100.07	0.45	14.76
217.00	227.00	10.00	66.14	69.19	3.05	3.05	100.07	1.00	32.81
227.00	237.00	10.00	69.19	72.24	3.05	3.05	100.07	0.70	22.97
237.00	247.00	10.00	72.24	75.29	3.05	3.05	100.07	0.30	9.84
237.00	247.00	10.00	72.24	75.29	3.05	3.05	100.07	0.35	11.48
247.00	257.00	10.00	75.29	78.33	3.05	3.05	100.07	0.50	16.40
257.00	267.00	10.00	78.33	81.38	3.05	3.00	98.43	1.70	55.77
267.00	277.00	10.00	81.38	84.43	3.05	2.85	93.50	0.55	18.04
277.00	287.00	10.00	84.43	87.48	3.05	3.00	98.43	0.90	29.53
287.00	297.00	10.00	87.48	90.53	3.05	3.05	100.07	1.70	55.77
297.00	307.00	10.00	90.53	93.57	3.05	3.00	98.43	1.15	37.73
307.00	317.00	10.00	93.57	96.62	3.05	3.05	100.07	1.20	39.37
317.00	327.00	10.00	96.62	99.67	3.05	3.05	100.07	1.80	59.06
327.00	337.00	10.00	99.67	102.72	3.05	3.05	100.07	2.05	67.26
337.00	347.00	10.00	102.72	105.77	3.05	3.05	100.07	2.00	65.62
347.00	357.00	10.00	105.77	108.81	3.05	3.05	100.07	1.05	34.45
357.00	367.00	10.00	108.81	111.86	3.05	2.95	96.78	0.80	26.25
367.00	377.00	10.00	111.86	114.91	3.05	3.00	98.43	0.30	9.84
377.00	387.00	10.00	114.91	117.96	3.05	3.05	100.07	0.40	13.12
387.00	397.00	10.00	117.96	121.01	3.05	3.05	100.07	1.50	49.21
397.00	407.00	10.00	121.01	124.05	3.05	3.05	100.07	1.70	55.77
407.00	417.00	10.00	124.05	127.10	3.05	3.05	100.07	2.10	68.90
417.00	427.00	10.00	127.10	130.15	3.05	3.05	100.07	2.10	68.90
427.00	437.00	10.00	130.15	133.20	3.05	3.05	100.07	1.20	39.37
437.00	447.00	10.00	133.20	136.25	3.05	3.05	100.07	1.25	41.01
447.00	457.00	10.00	136.25	139.29	3.05	3.05	100.07	1.80	59.06
457.00	467.00	10.00	139.29	142.34	3.05	3.05	100.07	2.20	72.18
467.00	477.00	10.00	142.34	145.39	3.05	3.05	100.07	2.20	72.18
477.00	485.00	8.00	145.39	147.83	2.44	2.44	100.07	1.30	53.31
485.00	494.00	9.00	147.83	150.57	2.74	2.74	99.88	1.00	36.45
494.00	497.00	3.00	150.57	151.49	0.91	0.91	99.52	0.50	54.68
497.00	507.00	10.00	151.49	154.53	3.05	3.05	100.07	1.15	37.73

Advance						Recovery		RQD	
From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	meters	%	Length (m)	%
507.00	517.00	10.00	154.53	157.58	3.05	3.05	100.07	1.40	45.93
517.00	527.00	10.00	157.58	160.63	3.05	3.05	100.07	0.80	26.25
527.00	537.00	10.00	160.63	163.68	3.05	3.05	100.07	1.80	59.06
537.00	547.00	10.00	163.68	166.73	3.05	3.05	100.07	1.20	39.37
547.00	557.00	10.00	166.73	169.77	3.05	3.05	100.07	2.50	82.02
557.00	567.00	10.00	169.77	172.82	3.05	3.05	100.07	2.00	65.62
567.00	577.00	10.00	172.82	175.87	3.05	3.05	100.07	1.15	37.73
577.00	587.00	10.00	175.87	178.92	3.05	2.95	96.78	1.00	32.81
587.00	597.00	10.00	178.92	181.97	3.05	3.05	100.07	0.95	31.17
597.00	607.00	10.00	181.97	185.01	3.05	3.05	100.07	0.70	22.97
607.00	617.00	10.00	185.01	188.06	3.05	3.05	100.07	2.00	65.62
617.00	627.00	10.00	188.06	191.11	3.05	3.05	100.07	1.00	32.81
627.00	632.00	5.00	191.11	192.63	1.52	1.52	99.74	0.45	29.53
632.00	637.00	5.00	192.63	194.16	1.52	1.52	99.74	0.60	39.37
637.00	647.00	10.00	194.16	197.21	3.05	3.05	100.07	2.05	67.26

Appendix C

Drill Core Assay Summary

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-01	A702828	556001	21.64	24.64	3.00	0.001	
R07-01	A702828	556002	24.64	28.00	3.36	0.001	
R07-01	A702828	556003	28.00	31.00	3.00	0.001	
R07-01	A702828	556004	31.00	34.00	3.00	<.001	
R07-01	A702828	556005	34.00	37.00	3.00	<.001	
R07-01	A702828	556006	37.00	39.75	2.75	<.001	
R07-01	A702828	556007	39.75	42.75	3.00	<.001	
R07-01	A702828	556008	42.75	45.55	2.80	<.001	
R07-01	A702828	556009	45.55	48.83	3.28	<.001	
R07-01	A702828	556010	48.83	51.08	2.25	<.001	
R07-01	A702828	556011	51.08	53.95	2.87	<.001	
R07-01	A702828	556012	53.95	57.00	3.05	<.001	
R07-01	A702828	556013	57.00	60.05	3.05	<.001	
R07-01	A702828	556014	60.05	63.09	3.04	0.001	
R07-01	A702828	556015				0.346	Standard Cu124
R07-01	A702828	556016	63.09	66.14	3.05	0.001	
R07-01	A702828	556017	66.14	69.19	3.05	<.001	
R07-01	A702828	556018	69.19	72.24	3.05	<.001	
R07-01	A702828	556019	72.24	75.29	3.05	0.001	
R07-01	A702828	556020	75.29	78.33	3.04	<.001	
R07-01	A702828	556021	78.33	81.38	3.05	0.001	
R07-01	A702828	556022	81.38	84.43	3.05	<.001	
R07-01	A702828	556023	84.43	87.48	3.05	<.001	
R07-01	A702828	556024	87.48	90.53	3.05	<.001	
R07-01	A702828	556025	90.53	93.57	3.04	<.001	
R07-01	A702828	556026	90.53	93.57	3.04	<.001	Duplicate
R07-01	A702828	556027	93.57	96.62	3.05	<.001	
R07-01	A702828	556028	96.62	99.67	3.05	<.001	
R07-01	A702828	556029	99.67	102.72	3.05	<.001	
R07-01	A702828	556030	102.72	105.77	3.05	<.001	
R07-01	A702828	556031	105.77	108.81	3.04	<.001	
R07-01	A702828	556032	108.81	111.86	3.05	<.001	
R07-01	A702828	556033	111.86	114.91	3.05	<.001	
R07-01	A702828	556034	114.91	117.96	3.05	<.001	
R07-01	A702828	556035				0.467	Standard Cu116
R07-01	A702828	556036	117.96	121.01	3.05	0.001	
R07-01	A702828	556037	121.01	124.05	3.04	<.001	
R07-01	A702828	556038	124.05	127.10	3.05	<.001	
R07-01	A702828	556039	127.10	130.15	3.05	<.001	
R07-01	A702828	556040	130.15	133.20	3.05	<.001	
R07-01	A702828	556041	133.20	136.25	3.05	<.001	
R07-01	A702828	556042	136.25	139.29	3.04	<.001	
R07-01	A702828	556043	139.29	142.34	3.05	<.001	
R07-01	A702828	556044	142.34	145.39	3.05	<.001	
R07-01	A702828	556045	145.39	148.44	3.05	<.001	
R07-01	A702828	556046	145.39	148.44	3.05	<.001	Duplicate
R07-01	A702828	556047	148.44	151.49	3.05	<.001	
R07-01	A702828	556048	151.49	154.53	3.04	<.001	
R07-01	A702828	556049	154.53	157.58	3.05	<.001	
R07-01	A702828	556050	157.58	160.63	3.05	<.001	
R07-01	A702828	556051	160.63	163.68	3.05	<.001	
R07-01	A702828	556052	163.68	166.73	3.05	<.001	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-01	A702828	556053	166.73	169.77	3.04	<.001	
R07-01	A702828	556054	169.77	172.82	3.05	<.001	
R07-01	A702828	556055				0.354	Standard Cu124
R07-01	A702828	556056	172.82	175.87	3.05	<.001	
R07-01	A702828	556057	175.87	178.92	3.05	<.001	
R07-01	A702828	556058	178.92	181.97	3.05	<.001	
R07-01	A702828	556059	181.97	185.01	3.04	<.001	
R07-01	A702828	556060	185.01	188.06	3.05	<.001	
R07-01	A702828	556061	188.06	191.11	3.05	0.001	
R07-01	A702828	556062	191.11	194.16	3.05	0.001	
R07-01	A702828	556063	194.16	197.21	3.05	0.002	
R07-01	A702828	556064	197.21	200.25	3.04	0.010	
R07-01	A702828	556065	200.25	203.30	3.05	0.002	
R07-01	A702828	556066	200.25	203.30	3.05	0.002	Duplicate
R07-01	A702828	556067	203.30	206.35	3.05	<.001	
R07-01	A702828	556068	206.35	209.40	3.05	0.001	
R07-01	A702828	556069	209.40	212.45	3.05	<.001	
R07-01	A702828	556070	212.45	215.49	3.04	<.001	
R07-01	A702828	556071	215.49	218.54	3.05	<.001	
R07-01	A702828	556072	218.54	221.59	3.05	<.001	
R07-01	A702828	556073	221.59	224.64	3.05	<.001	
R07-01	A702828	556074	224.64	227.69	3.05	0.001	
R07-01	A702828	556075				0.485	Standard Cu116
R07-01	A702828	556076	227.69	230.73	3.04	0.001	
R07-01	A702828	556077	230.73	233.78	3.05	<.001	
R07-01	A702828	556078	233.78	236.83	3.05	<.001	
R07-01	A702828	556079	236.83	239.88	3.05	0.002	
R07-01	A702828	556080	239.88	242.93	3.05	0.001	
R07-01	A702828	556081	242.93	245.97	3.04	<.001	
R07-02	A702828	556082	21.34	23.47	2.13	0.001	
R07-02	A702828	556083	23.47	26.52	3.05	<.001	
R07-02	A702828	556084	26.52	29.59	3.07	0.001	
R07-02	A702828	556085	29.59	32.61	3.02	<.001	
R07-02	A702828	556086	29.59	32.61	3.02	<.001	Duplicate
R07-02	A702828	556087	32.61	35.66	3.05	<.001	
R07-02	A702828	556088	35.66	38.71	3.05	0.001	
R07-02	A702828	556089	38.71	41.76	3.05	<.001	
R07-02	A702828	556090	41.76	44.81	3.05	<.001	
R07-02	A702828	556091	44.81	47.85	3.04	<.001	
R07-02	A702828	556092	47.85	50.90	3.05	<.001	
R07-02	A702828	556093	50.90	53.95	3.05	<.001	
R07-02	A702828	556094	53.95	57.00	3.05	<.001	
R07-02	A702828	556095				0.355	Standard Cu124
R07-02	A702828	556096	57.00	60.05	3.05	<.001	
R07-02	A702828	556097	60.05	63.09	3.04	<.001	
R07-02	A702828	556098	63.09	66.14	3.05	<.001	
R07-02	A702828	556099	66.14	69.19	3.05	<.001	
R07-02	A702828	556100	69.19	72.24	3.05	<.001	
R07-02	A702828	556101	72.24	75.29	3.05	<.001	
R07-02	A702828	556102	75.29	77.30	2.01	<.001	
R07-02	A702828	556103	77.30	79.66	2.36	<.001	
R07-02	A702828	556104	79.66	81.38	1.72	0.001	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-02	A702828	556105	81.38	83.47	2.09	0.003	
R07-02	A702828	556106	81.38	83.47	2.09	0.003	Duplicate
R07-02	A702828	556107	83.47	85.47	2.00	0.003	
R07-02	A702828	556108	85.47	87.48	2.01	0.005	
R07-02	A702828	556109	87.48	89.48	2.00	0.006	
R07-02	A702828	556110	89.48	91.50	2.02	0.009	
R07-02	A702828	556111	91.50	93.57	2.07	0.005	
R07-02	A702828	556112	93.57	95.60	2.03	0.003	
R07-02	A702828	556113	95.60	97.67	2.07	0.002	
R07-02	A702828	556114	97.67	99.67	2.00	0.013	
R07-02	A702828	556115				0.486	Standard Cu116
R07-02	A702828	556116	99.67	101.82	2.15	0.002	
R07-02	A702828	556117	101.82	103.57	1.75	0.009	
R07-02	A702828	556118	103.57	105.35	1.78	0.006	
R07-02	A702828	556119	105.35	106.95	1.60	0.002	
R07-02	A702828	556120	106.95	108.35	1.40	0.125	
R07-02	A702828	556121	108.35	110.50	2.15	0.007	
R07-02	A702828	556122	110.50	112.70	2.20	0.002	
R07-02	A702828	556123	112.70	114.70	2.00	<.001	
R07-02	A702828	556124	114.70	116.68	1.98	<.001	
R07-02	A702828	556125	116.68	119.58	2.90	0.006	
R07-02	A702828	556126	116.68	119.58	2.90	0.007	Duplicate
R07-02	A702828	556127	119.58	121.90	2.32	0.005	
R07-02	A702828	556128	121.90	124.05	2.15	0.001	
R07-02	A702828	556129	124.05	126.75	2.70	<.001	
R07-02	A702828	556130	126.75	128.95	2.20	<.001	
R07-02	A702828	556131	128.95	131.00	2.05	<.001	
R07-02	A702828	556132	131.00	133.20	2.20	<.001	
R07-02	A702828	556133	133.20	136.25	3.05	0.001	
R07-02	A702828	556134	136.25	139.29	3.04	0.003	
R07-02	A702828	556135				0.355	Standard Cu124
R07-02	A702828	556136	139.29	142.34	3.05	0.001	
R07-02	A702828	556137	142.34	145.39	3.05	0.001	
R07-02	A702828	556138	145.39	146.63	1.24	0.002	
R07-02	A702828	556139	146.63	148.44	1.81	<.001	
R07-02	A702952	556140	148.44	151.49	3.05	0.002	
R07-02	A702952	556141	151.49	154.53	3.04	0.002	
R07-02	A702952	556142	154.53	157.58	3.05	0.003	
R07-02	A702952	556143	157.58	160.63	3.05	0.001	
R07-02	A702952	556144	160.63	163.68	3.05	0.002	
R07-02	A702952	556145	163.68	166.73	3.05	0.001	
R07-02	A702952	556146	163.68	166.73	3.05	0.001	Duplicate
R07-02	A702952	556147	166.73	169.77	3.04	0.002	
R07-02	A702952	556148	169.77	172.82	3.05	0.001	
R07-02	A702952	556149	172.82	175.87	3.05	<.001	
R07-02	A702952	556150	175.87	178.92	3.05	<.001	
R07-02	A702952	556151	178.92	181.97	3.05	<.001	
R07-02	A702952	556152	181.97	185.01	3.04	<.001	
R07-02	A702952	556153	185.01	188.06	3.05	<.001	
R07-02	A702952	556154	188.06	191.11	3.05	0.002	
R07-02	A702952	556155				0.470	Standard Cu116
R07-02	A702952	556156	191.11	194.16	3.05	0.003	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-02	A702952	556157	194.16	197.21	3.05	0.001	
R07-02	A702952	556158	197.21	200.25	3.04	0.002	
R07-02	A702952	556159	200.25	203.30	3.05	<.001	
R07-02	A702952	556160	203.30	206.35	3.05	0.002	
R07-02	A702952	556161	206.35	209.40	3.05	<.001	
R07-02	A702952	556162	209.40	212.45	3.05	0.007	
R07-02	A702952	556163	212.45	215.49	3.04	<.001	
R07-02	A702952	556164	215.49	218.54	3.05	0.003	
R07-02	A702952	556165	218.54	221.59	3.05	<.001	
R07-02	A702952	556166	218.54	221.59	3.05	<.001	Duplicate
R07-02	A702952	556167	221.59	224.64	3.05	0.001	
R07-02	A702952	556168	224.64	227.69	3.05	0.001	
R07-02	A702952	556169	227.69	230.73	3.04	<.001	
R07-03	A702952	556170	18.29	21.45	3.16	0.001	
R07-03	A702952	556171	21.45	23.47	2.02	0.001	
R07-03	A702952	556172	23.47	26.52	3.05	0.002	
R07-03	A702952	556173	26.52	29.57	3.05	0.007	
R07-03	A702952	556174	29.57	32.61	3.04	0.001	
R07-03	A702952	556175				0.357	Standard Cu124
R07-03	A702952	556176	32.61	35.66	3.05	0.001	
R07-03	A702952	556177	35.66	38.71	3.05	0.002	
R07-03	A702952	556178	38.71	41.76	3.05	<.001	
R07-03	A702952	556179	41.76	44.81	3.05	<.001	
R07-03	A702952	556180	44.81	47.85	3.04	0.002	
R07-03	A702952	556181	47.85	50.90	3.05	<.001	
R07-03	A702952	556182	50.90	53.95	3.05	0.001	
R07-03	A702952	556183	53.95	57.00	3.05	0.001	
R07-03	A702952	556184	57.00	60.05	3.05	0.001	
R07-03	A702952	556185	60.05	63.09	3.04	<.001	
R07-03	A702952	556186	60.05	63.09	3.04	<.001	Duplicate
R07-03	A702952	556187	63.09	66.14	3.05	<.001	
R07-03	A702952	556188	66.14	69.19	3.05	0.001	
R07-03	A702952	556189	69.19	72.24	3.05	0.003	
R07-03	A702952	556190	72.24	75.29	3.05	<.001	
R07-03	A702952	556191	75.29	78.33	3.04	<.001	
R07-03	A702952	556192	78.33	81.38	3.05	<.001	
R07-03	A702952	556193	81.38	84.43	3.05	<.001	
R07-03	A703145	556194	84.43	87.48	3.05	<.001	
R07-03	A703145	556195				0.466	Standard Cu116
R07-03	A703145	556196	87.48	90.53	3.05	0.001	
R07-03	A703145	556197	90.53	93.57	3.04	<.001	
R07-03	A703145	556198	93.57	96.62	3.05	0.001	
R07-03	A703145	556199	96.62	99.67	3.05	<.001	
R07-03	A703145	556200	99.67	102.72	3.05	0.005	
R07-03	A703145	556201	102.72	104.70	1.98	0.005	
R07-03	A703145	556202	104.70	106.70	2.00	0.002	
R07-03	A703145	556203	106.70	108.70	2.00	0.004	
R07-03	A703145	556204	108.70	110.70	2.00	0.016	
R07-03	A703145	556205	110.70	112.70	2.00	0.027	
R07-03	A703145	556206	110.70	112.70	2.00	0.023	Duplicate
R07-03	A703145	556207	112.70	114.70	2.00	0.010	
R07-03	A703145	556208	114.70	116.60	1.90	0.027	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-03	A703145	556209	116.60	118.69	2.09	0.020	
R07-03	A703145	556210	118.69	121.01	2.32	0.015	
R07-03	A703145	556211	121.01	124.05	3.04	0.001	
R07-03	A703145	556212	124.05	127.10	3.05	0.005	
R07-03	A703145	556213	127.10	130.15	3.05	0.001	
R07-03	A703145	556214	130.15	133.00	2.85	0.005	
R07-03	A703145	556215				0.354	Standard Cu124
R07-03	A703145	556216	133.00	135.00	2.00	0.005	
R07-03	A703145	556217	135.00	137.00	2.00	0.007	
R07-03	A703145	556218	137.00	139.00	2.00	0.009	
R07-03	A703145	556219	139.00	141.00	2.00	0.003	
R07-03	A703145	556220	141.00	143.00	2.00	0.007	
R07-03	A703145	556221	143.00	145.00	2.00	0.008	
R07-03	A703145	556222	145.00	147.34	2.34	0.009	
R07-03	A703145	556223	147.34	149.34	2.00	0.011	
R07-03	A703145	556224	149.34	151.49	2.15	0.013	
R07-03	A703145	556225	151.49	154.53	3.04	0.022	
R07-03	A703145	556226	151.49	154.53	3.04	0.030	Duplicate
R07-03	A703145	556227	154.53	157.00	2.47	0.029	
R07-03	A703145	556228	157.00	159.35	2.35	0.003	
R07-03	A703145	556229	159.35	162.10	2.75	0.003	
R07-03	A703145	556230	162.10	165.00	2.90	0.004	
R07-03	A703145	556231	165.00	167.40	2.40	0.003	
R07-03	A703145	556232	167.40	169.77	2.37	0.002	
R07-03	A703145	556233	169.77	172.82	3.05	<.001	
R07-03	A703145	556234	172.82	175.87	3.05	0.001	
R07-03	A703145	556235				0.461	Standard Cu116
R07-03	A703145	556236	175.87	178.92	3.05	<.001	
R07-03	A703145	556237	178.92	181.97	3.05	<.001	
R07-03	A703145	556238	181.97	185.01	3.04	0.001	
R07-03	A703145	556239	185.01	188.06	3.05	<.001	
R07-03	A703145	556240	188.06	191.11	3.05	0.008	
R07-03	A703145	556241	191.11	194.16	3.05	0.010	
R07-03	A703145	556242	194.16	197.21	3.05	0.005	
R07-03	A703145	556243	197.21	200.25	3.04	0.004	
R07-03	A703145	556244	200.25	203.30	3.05	0.003	
R07-03	A703145	556245	203.30	206.35	3.05	0.015	
R07-03	A703145	556246	203.30	206.35	3.05	0.018	Duplicate
R07-03	A703145	556247	206.35	209.40	3.05	<.001	
R07-03	A703145	556248	209.40	212.45	3.05	0.002	
R07-03	A703145	556249	212.45	214.45	2.00	<.001	
R07-03	A703145	556250	214.45	216.45	2.00	0.005	
R07-03	A703145	556251	216.45	218.54	2.09	0.001	
R07-03	A703145	556252	218.54	221.59	3.05	0.002	
R07-03	A703145	556253	221.59	224.64	3.05	0.001	
R07-03	A703145	556254	224.64	227.69	3.05	0.001	
R07-03	A703145	556255				0.339	Standard Cu124
R07-03	A703145	556256	227.69	230.73	3.04	0.005	
R07-03	A703145	556257	230.73	233.78	3.05	<.001	
R07-03	A703145	556258	233.78	236.83	3.05	<.001	
R07-03	A703145	556259	236.83	239.88	3.05	<.001	
R07-04	A703250	556260	12.19	14.33	2.14	0.017	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-04	A703250	556261	14.33	17.37	3.04	0.144	
R07-04	A703250	556262	17.37	20.42	3.05	0.003	
R07-04	A703250	556263	20.42	23.47	3.05	0.301	
R07-04	A703250	556264	23.47	26.52	3.05	0.262	
R07-04	A703250	556265	26.52	29.57	3.05	0.040	
R07-04	A703250	556266	26.52	29.57	3.05	0.047	Duplicate
R07-04	A703250	556267	29.57	32.61	3.04	0.030	
R07-04	A703250	556268	32.61	34.95	2.34	0.064	
R07-04	A703250	556269	34.95	37.43	2.48	0.006	
R07-04	A703250	556270	37.43	40.13	2.70	0.042	
R07-04	A703250	556271	40.13	42.13	2.00	0.075	
R07-04	A703250	556272	42.13	44.81	2.68	0.019	
R07-04	A703250	556273	44.81	47.85	3.04	0.077	
R07-04	A703250	556274	47.85	50.90	3.05	0.005	
R07-04	A703250	556275				0.466	Standard Cu116
R07-04	A703250	556276	50.90	53.95	3.05	0.016	
R07-04	A703250	556277	53.95	57.00	3.05	0.005	
R07-04	A703250	556278	57.00	60.05	3.05	0.052	
R07-04	A703250	556279	60.05	63.09	3.04	0.018	
R07-04	A703250	556280	63.09	66.14	3.05	0.137	
R07-04	A703250	556281	66.14	69.19	3.05	0.031	
R07-04	A703250	556282	69.19	72.24	3.05	0.001	
R07-04	A703250	556283	72.24	75.29	3.05	0.016	
R07-04	A703250	556284	75.29	78.33	3.04	0.390	
R07-04	A703250	556285	78.33	81.38	3.05	0.228	
R07-04	A703250	556286	78.33	81.38	3.05	0.148	Duplicate
R07-04	A703250	556287	81.38	84.43	3.05	0.015	
R07-04	A703250	556288	84.43	87.48	3.05	0.001	
R07-04	A703250	556289	87.48	90.53	3.05	0.004	
R07-04	A703250	556290	90.53	93.57	3.04	0.001	
R07-04	A703250	556291	93.57	96.62	3.05	0.006	
R07-04	A703250	556292	96.62	99.67	3.05	0.018	
R07-04	A703250	556293	99.67	102.72	3.05	0.001	
R07-04	A703250	556294	102.72	105.77	3.05	0.003	
R07-04	A703250	556295				0.345	Standard Cu124
R07-04	A703250	556296	105.77	108.81	3.04	0.001	
R07-04	A703250	556297	108.81	111.86	3.05	0.005	
R07-04	A703250	556298	111.86	114.91	3.05	<.001	
R07-04	A703250	556299	114.91	117.96	3.05	0.001	
R07-04	A703250	556300	117.96	121.01	3.05	0.006	
R07-04	A703250	556301	121.01	124.05	3.04	0.010	
R07-04	A703250	556302	124.05	127.10	3.05	0.007	
R07-04	A703250	556303	127.10	130.15	3.05	<.001	
R07-04	A703250	556304	130.15	133.20	3.05	<.001	
R07-04	A703250	556305	133.20	136.25	3.05	<.001	
R07-04	A703250	556306	133.20	136.25	3.05	0.001	Duplicate
R07-04	A703250	556307	136.25	139.29	3.04	0.004	
R07-04	A703250	556308	139.29	142.34	3.05	0.002	
R07-04	A703250	556309	142.34	145.39	3.05	0.002	
R07-04	A703250	556310	145.39	148.44	3.05	0.002	
R07-05	A703250	566311	15.24	17.37	2.13	0.013	
R07-05	A703250	556312	17.37	20.42	3.05	0.007	

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-05	A703250	556313	20.42	23.47	3.05	0.023	
R07-05	A703250	556314	23.47	25.50	2.03	0.180	
R07-05	A703250	556315				0.465	Standard Cu116
R07-05	A703250	556316	25.50	27.57	2.07	0.121	
R07-05	A703250	556317	27.57	29.57	2.00	0.535	
R07-05	A703250	556318	29.57	31.57	2.00	0.941	
R07-05	A703250	556319	31.57	33.50	1.93	0.141	
R07-05	A703250	556320	33.50	35.66	2.16	0.355	
R07-05	A703250	556321	35.66	38.71	3.05	0.537	
R07-05	A703250	556322	38.71	41.76	3.05	0.179	
R07-05	A703250	556323	41.76	44.81	3.05	0.186	
R07-05	A703250	556324	44.81	47.85	3.04	0.271	
R07-05	A703250	556325	47.85	50.90	3.05	0.149	
R07-05	A703250	556326	47.85	50.90	3.05	0.110	Duplicate
R07-05	A703250	556327	50.90	53.95	3.05	0.463	
R07-05	A703250	556328	53.95	57.00	3.05	0.152	
R07-05	A703250	556329	57.00	60.05	3.05	0.096	
R07-05	A703250	556330	60.05	63.09	3.04	0.018	
R07-05	A703250	556331	63.09	66.14	3.05	0.031	
R07-05	A703250	556332	66.14	69.19	3.05	0.084	
R07-05	A703250	556333	69.19	72.24	3.05	0.103	
R07-05	A703250	556334	72.24	75.29	3.05	0.114	
R07-05	A703250	556335				0.350	Standard Cu124
R07-05	A703250	556336	75.29	78.33	3.04	0.073	
R07-05	A703250	556337	78.33	81.38	3.05	0.077	
R07-05	A703250	556338	81.38	84.43	3.05	0.072	
R07-05	A703250	556339	84.43	87.48	3.05	0.074	
R07-05	A703250	556340	87.48	90.53	3.05	0.133	
R07-05	A703250	556341	90.53	93.57	3.04	0.104	
R07-05	A703250	556342	93.57	96.62	3.05	0.131	
R07-05	A703250	556343	96.62	99.67	3.05	0.097	
R07-05	A703250	556344	99.67	102.72	3.05	0.127	
R07-05	A703250	556345	102.72	105.77	3.05	0.073	
R07-05	A703250	556346	102.72	105.77	3.05	0.112	Duplicate
R07-05	A703250	556347	105.77	108.81	3.04	0.104	
R07-05	A703250	556348	108.81	111.86	3.05	0.246	
R07-05	A703250	556349	111.86	114.91	3.05	0.147	
R07-05	A703250	556350	114.91	117.96	3.05	0.065	
R07-05	A703250	556351	117.96	121.01	3.05	0.031	
R07-05	A703250	556352	121.01	124.05	3.04	0.009	
R07-05	A703250	556353	124.05	127.10	3.05	0.014	
R07-05	A703539	556354	127.10	130.15	3.05	0.074	
R07-05	A703539	556355				0.465	Standard Cu116
R07-05	A703539	556356	130.15	133.20	3.05	0.185	
R07-05	A703539	556357	133.20	136.25	3.05	0.103	
R07-05	A703539	556358	136.25	139.29	3.04	0.139	
R07-05	A703539	556359	139.29	142.34	3.05	0.171	
R07-05	A703539	556360	142.34	145.39	3.05	0.095	
R07-05	A703539	556361	145.39	148.44	3.05	0.364	
R07-05	A703539	556362	148.44	150.88	2.44	0.095	
R07-05	A703539	556363	150.88	152.30	1.42	0.343	
R07-05	A703539	556364	152.30	154.53	2.23	0.171	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-05	A703539	556365	154.53	157.58	3.05	0.076	
R07-05	A703539	556366	154.53	157.58	3.05	0.054	Duplicate
R07-05	A703539	556367	157.58	160.63	3.05	0.030	
R07-05	A703539	556368	160.63	163.68	3.05	0.038	
R07-05	A703539	556369	163.68	166.73	3.05	0.017	
R07-05	A703539	556370	166.73	169.77	3.04	0.009	
R07-05	A703539	556371	169.77	172.82	3.05	0.027	
R07-05	A703539	556372	172.82	175.87	3.05	0.057	
R07-05	A703539	556373	175.87	178.92	3.05	0.059	
R07-05	A703539	556374	178.92	181.97	3.05	0.045	
R07-05	A703539	556375				0.343	Standard Cu124
R07-05	A703539	556376	181.97	185.01	3.04	0.009	
R07-05	A703539	556377	185.01	188.06	3.05	0.010	
R07-05	A703539	556378	188.06	191.11	3.05	0.025	
R07-06	A703539	556379	15.24	17.37	2.13	0.006	
R07-06	A703539	556380	17.37	20.42	3.05	0.012	
R07-06	A703539	556381	20.42	23.47	3.05	0.016	
R07-06	A703539	556382	23.47	26.52	3.05	0.003	
R07-06	A703539	556383	26.52	29.57	3.05	0.002	
R07-06	A703539	556384	29.57	32.61	3.04	<.001	
R07-06	A703539	556385	32.61	35.66	3.05	0.001	
R07-06	A703539	556386	32.61	35.66	3.05	0.001	Duplicate
R07-06	A703539	556387	35.66	38.71	3.05	0.001	
R07-06	A703539	556388	38.71	41.76	3.05	0.001	
R07-06	A703539	556389	41.76	44.81	3.05	0.001	
R07-06	A703539	556390	44.81	47.85	3.04	0.003	
R07-06	A703539	556391	47.85	50.90	3.05	0.003	
R07-06	A703539	556392	50.90	53.95	3.05	0.001	
R07-06	A703539	556393	53.95	57.00	3.05	0.001	
R07-06	A703539	556394	57.00	60.05	3.05	<.001	
R07-06	A703539	556395				0.460	Standard Cu116
R07-06	A703539	556396	60.05	63.09	3.04	<.001	
R07-06	A703539	556397	63.09	66.14	3.05	<.001	
R07-06	A703539	556398	66.14	69.19	3.05	<.001	
R07-06	A703539	556399	69.19	72.24	3.05	0.001	
R07-06	A703539	556400	72.24	75.29	3.05	0.001	
R07-06	A703539	556401	75.29	78.33	3.04	0.002	
R07-06	A703539	556402	78.33	81.38	3.05	0.005	
R07-06	A703539	556403	81.38	84.43	3.05	<.001	
R07-06	A703539	556404	84.43	87.48	3.05	<.001	
R07-06	A703539	556405	87.48	90.53	3.05	0.001	
R07-06	A703539	556406	87.48	90.53	3.05	0.001	Duplicate
R07-06	A703539	556407	90.53	93.57	3.04	<.001	
R07-06	A703539	556408	93.57	96.62	3.05	<.001	
R07-06	A703539	556409	96.62	99.67	3.05	0.003	
R07-06	A703539	556410	99.67	102.72	3.05	<.001	
R07-06	A703539	556411	102.72	105.77	3.05	<.001	
R07-06	A703539	556412	105.77	108.81	3.04	0.001	
R07-06	A703539	556413	108.81	111.86	3.05	<.001	
R07-06	A703539	556414	111.86	114.91	3.05	0.001	
R07-06	A703539	556415				0.342	Standard Cu124
R07-06	A703539	556416	114.91	117.96	3.05	0.002	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-06	A703539	556417	117.96	121.01	3.05	0.003	
R07-06	A703539	556418	121.01	124.05	3.04	0.002	
R07-06	A703539	556419	124.05	127.10	3.05	0.001	
R07-06	A703539	556420	127.10	130.15	3.05	<.001	
R07-06	A703539	556421	130.15	133.20	3.05	0.001	
R07-06	A703539	556422	133.20	136.25	3.05	<.001	
R07-06	A703539	556423	136.25	139.29	3.04	0.001	
R07-06	A703539	556424	139.29	142.34	3.05	0.002	
R07-06	A703539	556425	142.34	145.39	3.05	0.002	
R07-06	A703539	556426	142.34	145.39	3.05	0.002	Duplicate
R07-06	A703539	556427	145.39	148.44	3.05	<.001	
R07-06	A703539	556428	148.44	151.49	3.05	0.071	
R07-06	A703539	556429	151.49	154.53	3.04	0.003	
R07-06	A703539	556430	154.53	157.58	3.05	<.001	
R07-06	A703539	556431	157.58	160.63	3.05	0.001	
R07-06	A703539	556432	160.63	163.68	3.05	<.001	
R07-06	A703539	556433	163.68	166.73	3.05	<.001	
R07-06	A703539	556434	166.73	169.77	3.04	<.001	
R07-06	A703539	556435				0.473	Standard Cu116
R07-06	A703539	556436	169.77	172.82	3.05	0.002	
R07-06	A703539	556437	172.82	175.87	3.05	<.001	
R07-06	A703539	556438	175.87	178.92	3.05	0.006	
R07-06	A703539	556439	178.92	181.97	3.05	0.009	
R07-06	A703539	556440	181.97	185.01	3.04	0.001	
R07-06	A703539	556441	185.01	188.06	3.05	0.001	
R07-06	A703539	556442	188.06	191.11	3.05	0.001	
R07-06	A703539	556443	191.11	194.16	3.05	0.001	
R07-06	A703539	556444	194.16	197.21	3.05	0.004	
R07-06	A703539	556445	197.21	200.25	3.04	0.023	
R07-06	A703539	556446	200.25	203.30	3.05	0.005	
R07-06	A703539	556447	203.30	206.35	3.05	<.001	
R07-06	A703539	556448	206.35	209.40	3.05	<.001	
R07-06	A703539	556449	209.40	212.45	3.05	<.001	
R07-06	A703539	556450	212.45	215.49	3.04	<.001	
R07-07	A703857	556451	22.56	26.52	3.96	0.003	
R07-07	A703857	556452	26.52	29.57	3.05	0.001	
R07-07	A703857	556453	29.57	32.61	3.04	0.003	
R07-07	A703857	556454	32.61	35.66	3.05	0.001	
R07-07	A703857	556455	35.66	38.71	3.05	<.001	
R07-07	A703857	556456	35.66	38.71	3.05	0.001	Duplicate
R07-07	A703857	556457	38.71	41.76	3.05	0.003	
R07-07	A703857	556458	41.76	44.81	3.05	0.037	
R07-07	A703857	556459	44.81	47.85	3.04	0.004	
R07-07	A703857	556460	47.85	50.90	3.05	0.016	
R07-07	A703857	556461	50.90	53.95	3.05	0.001	
R07-07	A703857	556462	53.95	57.00	3.05	0.007	
R07-07	A703857	556463	57.00	60.05	3.05	0.002	
R07-07	A703857	556464	60.05	63.09	3.04	0.001	
R07-07	A703857	556465				0.342	Standard Cu124
R07-07	A703857	556466	63.09	66.14	3.05	0.001	
R07-07	A703857	556467	66.14	69.19	3.05	0.002	
R07-07	A703857	556468	69.19	72.24	3.05	0.002	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-07	A703857	556469	72.24	75.29	3.05	<.001	
R07-07	A703857	556470	75.29	78.33	3.04	<.001	
R07-07	A703857	556471	78.33	81.38	3.05	<.001	
R07-07	A703857	556472	81.38	84.43	3.05	<.001	
R07-07	A703857	556473	84.43	87.48	3.05	<.001	
R07-07	A703857	556474	87.48	90.53	3.05	<.001	
R07-07	A703857	556475	90.53	93.57	3.04	0.001	
R07-07	A703857	556476	90.53	93.57	3.04	0.001	Duplicate
R07-07	A703857	556477	93.57	96.62	3.05	<.001	
R07-07	A703857	556478	96.62	99.67	3.05	0.001	
R07-07	A703857	556479	99.67	102.72	3.05	0.002	
R07-07	A703857	556480	102.72	105.77	3.05	0.004	
R07-07	A703857	556481	105.77	108.81	3.04	0.004	
R07-07	A703857	556482	108.81	111.86	3.05	0.001	
R07-07	A703857	556483	111.86	114.91	3.05	0.021	
R07-07	A703857	556484	114.91	117.96	3.05	0.117	
R07-07	A703857	556485				0.462	Standard Cu116
R07-07	A703857	556486	117.96	121.01	3.05	0.113	
R07-07	A703857	556487	121.01	124.05	3.04	0.122	
R07-07	A703857	556488	124.05	127.10	3.05	0.208	
R07-07	A703857	556489	127.10	130.15	3.05	0.418	
R07-07	A703857	556490	130.15	133.20	3.05	0.079	
R07-07	A703857	556491	133.20	136.25	3.05	0.109	
R07-07	A703857	556492	136.25	139.29	3.04	0.065	
R07-07	A703857	556493	139.29	142.34	3.05	0.054	
R07-07	A703857	556494	142.34	145.39	3.05	0.115	
R07-07	A703857	556495	145.39	148.44	3.05	0.062	
R07-07	A703857	556496	145.39	148.44	3.05	0.087	Duplicate
R07-07	A703857	556497	148.44	151.49	3.05	0.101	
R07-07	A703857	556498	151.49	154.53	3.04	0.029	
R07-07	A703857	556499	154.53	157.58	3.05	0.036	
R07-07	A703857	556500	157.58	160.63	3.05	0.040	
R07-07	A703857	556501	160.63	163.68	3.05	0.038	
R07-07	A703857	556502	163.68	166.73	3.05	0.039	
R07-07	A703857	556503	166.73	169.77	3.04	0.151	
R07-07	A703857	556504	169.77	172.82	3.05	0.047	
R07-07	A703857	556505				0.343	Standard Cu124
R07-07	A703857	556506	172.82	175.87	3.05	0.207	
R07-07	A703857	556507	175.87	178.92	3.05	0.102	
R07-07	A703857	556508	178.92	181.97	3.05	0.033	
R07-07	A703857	556509	181.97	185.01	3.04	0.014	
R07-07	A703857	556510	185.01	188.06	3.05	0.002	
R07-07	A703857	556511	188.06	191.11	3.05	0.004	
R07-07	A703857	556512	191.11	194.16	3.05	0.005	
R07-07	A703857	556513	194.16	197.21	3.05	0.001	
R07-07	A703857	556514	197.21	200.25	3.04	0.002	
R07-07	A703857	556515	200.25	203.30	3.05	0.001	
R07-07	A703857	556516	200.25	203.30	3.05	0.002	Duplicate
R07-07	A703857	556517	203.30	206.35	3.05	0.004	
R07-07	A703857	556518	206.35	209.40	3.05	0.002	
R07-07	A703857	556519	209.40	212.45	3.05	0.001	
R07-07	A703857	556520	212.45	215.49	3.04	0.002	

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-07	A703857	556521	215.49	218.54	3.05	0.006	
R07-07	A703857	556522	218.54	221.59	3.05	0.004	
R07-07	A703857	556523	221.59	224.64	3.05	0.001	
R07-07	A703857	556524	224.64	227.69	3.05	0.003	
R07-07	A703857	556525				0.461	Standard Cu116
R07-07	A703857	556526	227.69	230.73	3.04	0.004	
R07-07	A703857	556527	230.73	233.78	3.05	0.010	
R07-07	A703857	556528	233.78	236.00	2.22	0.028	
R07-07	A703857	556529	236.00	238.63	2.63	0.032	
R07-07	A703857	556530	238.63	241.00	2.37	0.023	
R07-07	A703857	556531	241.00	244.00	3.00	0.004	
R07-07	A703857	556532	244.00	246.28	2.28	0.005	
R07-08	A703857	556533	25.30	26.52	1.22	<.001	
R07-08	A703857	556534	26.52	29.57	3.05	0.016	
R07-08	A703857	556535	29.57	32.61	3.04	0.042	
R07-08	A703857	556536	29.57	32.61	3.04	0.013	Duplicate
R07-08	A703857	556537	32.61	35.66	3.05	0.010	
R07-08	A703857	556538	35.66	38.71	3.05	0.007	
R07-08	A703857	556539	38.71	41.76	3.05	0.004	
R07-08	A703857	556540	41.76	44.81	3.05	0.038	
R07-08	A703857	556541	44.81	47.85	3.04	0.008	
R07-08	A703857	556542	47.85	50.90	3.05	0.015	
R07-08	A703857	556543	50.90	53.95	3.05	0.001	
R07-08	A703857	556544	53.95	57.00	3.05	0.003	
R07-08	A703857	556545				0.336	Standard Cu124
R07-08	A703857	556546	57.00	60.05	3.05	0.012	
R07-08	A703857	556547	60.05	63.09	3.04	0.001	
R07-08	A703857	556548	63.09	66.14	3.05	0.039	
R07-08	A703857	556549	66.14	69.19	3.05	0.008	
R07-08	A703857	556550	69.19	72.24	3.05	0.005	
R07-08	A703857	556551	72.24	75.29	3.05	0.004	
R07-08	A703857	556552	75.29	78.33	3.04	0.002	
R07-08	A703857	556553	78.33	81.38	3.05	0.002	
R07-08	A703857	556554	81.38	84.43	3.05	0.003	
R07-08	A703857	556555	84.43	87.48	3.05	0.004	
R07-08	A703857	556556	87.48	90.53	3.05	0.006	
R07-08	A703857	556557	90.53	93.57	3.04	0.009	
R07-08	A703857	556558	93.57	96.62	3.05	0.005	
R07-08	A703857	556559	96.62	99.67	3.05	0.008	
R07-08	A703857	556560	99.67	102.72	3.05	0.003	
R07-08	A703857	556561	102.72	105.77	3.05	0.003	
R07-08	A703857	556562	105.77	108.81	3.04	0.032	
R07-08	A703857	556563	108.81	111.86	3.05	0.012	
R07-08	A703857	556564	111.86	114.91	3.05	0.003	
R07-08	A703857	556565	114.91	117.96	3.05	0.001	
R07-08	A703857	556566	114.91	117.96	3.05	0.002	Duplicate
R07-08	A703857	556567	117.96	121.01	3.05	<.001	
R07-08	A703857	556568	121.01	124.05	3.04	0.001	
R07-08	A703857	556569	124.05	127.10	3.05	0.006	
R07-08	A703857	556570	127.10	130.15	3.05	0.002	
R07-08	A703857	556571	130.15	133.20	3.05	0.002	
R07-08	A703857	556572	133.20	136.25	3.05	0.001	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-08	A703857	556573	136.25	139.29	3.04	0.001	
R07-08	A703857	556574	139.29	142.34	3.05	0.002	
R07-08	A703857	556575				0.354	Standard Cu124
R07-08	A703857	556576	142.34	145.39	3.05	0.024	
R07-08	A703857	556577	145.39	148.44	3.05	0.005	
R07-08	A703857	556578	148.44	151.49	3.05	0.012	
R07-08	A703857	556579	151.49	154.53	3.04	0.003	
R07-08	A703857	556580	154.53	157.58	3.05	0.030	
R07-08	A703857	556581	157.58	160.63	3.05	0.001	
R07-08	A703857	556582	160.63	163.68	3.05	0.010	
R07-08	A703857	556583	163.68	166.73	3.05	0.010	
R07-08	A703857	556584	166.73	169.77	3.04	0.011	
R07-08	A703857	556585	169.77	172.82	3.05	0.007	
R07-08	A703857	556586	169.77	172.82	3.05	0.006	Duplicate
R07-08	A703857	556587	172.82	175.87	3.05	0.002	
R07-08	A703857	556588	175.87	178.92	3.05	0.004	
R07-08	A703857	556589	178.92	181.97	3.05	0.004	
R07-08	A703857	556590	181.97	185.01	3.04	0.005	
R07-08	A703857	556591	185.01	188.06	3.05	0.001	
R07-09	VAN08003509	783201	7.95	11.00	3.05	0.021	
R07-09	VAN08003509	783202	11.00	14.00	3.00	0.003	
R07-09	VAN08003509	783203	14.00	17.00	3.00	0.024	
R07-09	VAN08003509	783204	17.00	20.00	3.00	0.025	
R07-09	VAN08003509	783205	20.00	23.00	3.00	0.014	
R07-09	VAN08003509	783206	23.00	26.00	3.00	0.045	
R07-09	VAN08003509	783207	26.00	29.15	3.15	0.006	
R07-09	VAN08003509	783208	29.15	32.61	3.46	0.001	
R07-09	VAN08003509	783209	32.61	35.66	3.05	0.062	
R07-09	VAN08003509	783210	35.66	38.71	3.05	0.006	
R07-09	VAN08003509	783211	38.71	41.50	2.79	0.015	
R07-09	VAN08003509	783212	41.50	43.50	2.00	0.026	
R07-09	VAN08003509	783213	43.50	45.40	1.90	0.138	
R07-09	VAN08003509	783214	45.40	47.45	2.05	0.197	
R07-09	VAN08003509	783215	47.45	50.50	3.05	0.013	
R07-09	VAN08003509	783215A				0.346	Standard Cu124
R07-09	VAN08003509	783216	50.50	53.50	3.00	0.137	
R07-09	VAN08003509	783217	53.50	56.50	3.00	0.008	
R07-09	VAN08003509	783218	56.50	59.50	3.00	0.040	
R07-09	VAN08003509	783219	59.50	62.50	3.00	0.041	
R07-09	VAN08003509	783220	62.50	65.50	3.00	0.018	
R07-09	VAN08003509	783221	65.50	68.50	3.00	0.096	
R07-09	VAN08003509	783222	68.50	71.50	3.00	0.155	
R07-09	VAN08003509	783223	71.50	73.04	1.54	0.880	
R07-09	VAN08003509	783224	73.04	75.00	1.96	0.265	
R07-09	VAN08003509	783225	75.00	78.00	3.00	0.206	
R07-09	VAN08003509	783226	78.00	81.00	3.00	0.699	
R07-09	VAN08003509	783227	81.00	84.00	3.00	0.030	
R07-09	VAN08003509	783228	84.00	85.60	1.60	0.080	
R07-09	VAN08003509	783229	85.60	88.30	2.70	0.497	
R07-09	VAN08003509	783230	88.30	91.00	2.70	0.137	
R07-09	VAN08003509	783231	91.00	93.00	2.00	0.097	
R07-09	VAN08003509	783232	93.00	95.00	2.00	0.088	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-09	VAN08003509	783233	95.00	98.00	3.00	0.128	
R07-09	VAN08003509	783234	98.00	100.00	2.00	0.082	
R07-09	VAN08003509	783235	100.00	102.00	2.00	0.265	
R07-09	VAN08003509	783235A				0.344	Standard Cu124
R07-09	VAN08003509	783236	102.00	104.00	2.00	0.268	
R07-09	VAN08003509	783237	104.00	105.50	1.50	0.308	
R07-09	VAN08003509	783238	105.50	107.50	2.00	0.226	
R07-09	VAN08003509	783239	107.50	109.50	2.00	0.076	
R07-09	VAN08003509	783240	109.50	112.00	2.50	0.066	
R07-09	VAN08003509	783241	112.00	114.50	2.50	0.112	
R07-09	VAN08003509	783242	114.50	117.00	2.50	0.205	
R07-09	VAN08003509	783243	117.00	119.50	2.50	0.110	
R07-09	VAN08003509	783244	119.50	122.00	2.50	0.040	
R07-09	VAN08003509	783245	122.00	124.50	2.50	0.055	
R07-09	VAN08003509	783246	122.00	124.50	2.50	0.054	Duplicate
R07-09	VAN08003509	783247	124.50	127.00	2.50	0.255	
R07-09	VAN08003509	783248	127.00	130.00	3.00	0.426	
R07-09	VAN08003509	783249	130.00	132.00	2.00	0.202	
R07-09	VAN08003509	783250	132.00	134.00	2.00	0.106	
R07-09	VAN08003509	783251	134.00	136.50	2.50	0.111	
R07-09	VAN08003509	783252	136.50	138.00	1.50	0.323	
R07-09	VAN08003509	783253	138.00	139.50	1.50	0.508	
R07-09	VAN08003509	783254	139.50	141.00	1.50	0.155	
R07-09	VAN08003509	783255				0.350	Standard Cu124
R07-09	VAN08003509	783256	141.00	143.00	2.00	0.267	
R07-09	VAN08003509	783257	143.00	145.00	2.00	0.164	
R07-09	VAN08003509	783258	145.00	147.00	2.00	0.361	
R07-09	VAN08003509	783259	147.00	149.00	2.00	0.373	
R07-09	VAN08003509	783260	149.00	151.00	2.00	0.490	
R07-09	VAN08003509	783261	151.00	152.50	1.50	2.727	
R07-09	VAN08003509	783262	152.50	154.50	2.00	0.918	
R07-09	VAN08003509	783263	154.50	157.00	2.50	0.582	
R07-09	VAN08003509	783264	157.00	160.00	3.00	0.204	
R07-09	VAN08003509	783265	160.00	161.00	1.00	0.093	
R07-09	VAN08003509	783266	160.00	161.00	1.00	0.075	Duplicate
R07-09	VAN08003509	783267	161.00	164.00	3.00	0.158	
R07-09	VAN08003509	783268	164.00	167.00	3.00	0.160	
R07-09	VAN08003509	783269	167.00	168.50	1.50	0.214	
R07-09	VAN08003509	783270	168.50	171.00	2.50	0.028	
R07-09	VAN08003509	783271	187.70	189.50	1.80	0.001	
R07-09	VAN08003509	783272	189.50	191.50	2.00	0.006	
R07-09	VAN08003509	783273	191.50	194.50	3.00	0.002	
R07-09	VAN08003509	783274	194.50	196.00	1.50	0.002	
R07-09	VAN08003509	783275				0.344	Standard Cu124
R07-09	VAN08003509	783276	200.80	202.39	1.59	0.001	
R07-10	VAN08003509	783277	5.83	8.33	2.50	0.002	
R07-10	VAN08003509	783278	8.33	11.00	2.67	0.003	
R07-10	VAN08003509	783279	11.00	14.00	3.00	0.001	
R07-10	VAN08003509	783280	14.00	17.00	3.00	0.114	
R07-10	VAN08003509	783281	17.00	19.00	2.00	0.020	
R07-10	VAN08003509	783282	27.95	30.90	2.95	0.052	
R07-10	VAN08003509	783283	37.25	40.25	3.00	0.004	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-10	VAN08003509	783284	40.25	43.25	3.00	0.007	
R07-10	VAN08003509	783285	43.25	44.25	1.00	0.023	
R07-10	VAN08003509	783286	43.25	44.25	1.00	0.014	Duplicate
R07-10	VAN08003509	783287	44.25	47.25	3.00	0.141	
R07-10	VAN08003509	783288	47.25	50.25	3.00	0.013	
R07-10	VAN08003509	783289	50.25	53.25	3.00	0.017	
R07-10	VAN08003509	783290	53.25	56.25	3.00	0.005	
R07-10	VAN08003509	783291	56.25	59.25	3.00	0.040	
R07-10	VAN08003509	783292	59.25	62.25	3.00	0.093	
R07-10	VAN08003509	783293	82.00	85.00	3.00	0.029	
R07-10	VAN08003509	783294	85.00	88.00	3.00	0.119	
R07-10	VAN08003509	783295				0.339	Standard Cu124
R07-10	VAN08003509	783296	88.00	91.00	3.00	0.291	
R07-10	VAN08003509	783297	91.00	93.65	2.65	0.019	
R07-10	VAN08003509	783298	93.65	96.90	3.25	0.003	
R07-10	VAN08003509	783299	96.90	99.40	2.50	0.043	
R07-10	VAN08003509	783300	99.40	101.70	2.30	0.178	
R07-10	VAN08003509	783301	101.70	104.70	3.00	0.076	
R07-10	VAN08003509	783302	104.70	107.45	2.75	0.251	
R07-10	VAN08003509	783303	107.45	108.75	1.30	0.510	
R07-10	VAN08003509	783304	108.75	111.75	3.00	0.008	
R07-10	VAN08003509	783305	111.75	112.75	1.00	0.392	
R07-10	VAN08003509	783306	111.75	112.70	0.95	0.384	Duplicate
R07-10	VAN08003509	783307	112.70	115.00	2.30	0.018	
R07-10	VAN08003509	783308	115.00	117.50	2.50	0.340	
R07-10	VAN08003509	783309	117.50	120.00	2.50	0.267	
R07-10	VAN08003509	783310	120.00	122.50	2.50	0.106	
R07-10	VAN08003509	783311	122.50	125.00	2.50	0.160	
R07-10	VAN08003509	783312	125.00	127.50	2.50	0.299	
R07-10	VAN08003509	783313	127.50	130.00	2.50	0.241	
R07-10	VAN08003509	783314	130.00	132.50	2.50	0.110	
R07-10	VAN08003509	783315				0.345	Standard Cu124
R07-10	VAN08003509	783316	132.50	135.00	2.50	0.089	
R07-10	VAN08003509	783317	135.00	137.50	2.50	0.011	
R07-10	VAN08003509	783318	137.50	140.00	2.50	0.070	
R07-10	VAN08003509	783319	140.00	142.50	2.50	0.027	
R07-10	VAN08003509	783320	142.50	145.00	2.50	0.261	
R07-10	VAN08003509	783321	145.00	148.00	3.00	0.419	
R07-10	VAN08003509	783322	148.00	150.10	2.10	1.256	
R07-10	VAN08003509	783323	150.10	152.30	2.20	0.389	
R07-10	VAN08003509	783324	152.30	154.00	1.70	0.650	
R07-10	VAN08003509	783325	154.00	155.00	1.00	0.628	
R07-10	VAN08003509	783326	154.00	155.00	1.00	1.274	Duplicate
R07-10	VAN08003509	783327	155.00	158.00	3.00	0.155	
R07-10	VAN08003509	783328	158.00	161.00	3.00	0.027	
R07-10	VAN08003509	783329	161.00	164.00	3.00	0.054	
R07-10	VAN08003509	783330	164.00	167.00	3.00	0.040	
R07-10	VAN08003509	783331	167.00	170.00	3.00	0.040	
R07-10	VAN08003509	783332	170.00	173.00	3.00	0.031	
R07-10	VAN08003509	783333	173.00	175.00	2.00	0.008	
R07-10	VAN08003509	783334	175.00	178.00	3.00	0.015	
R07-10	VAN08003509	783335				0.292	Standard Cu124

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-10	VAN08003509	783336	178.00	181.00	3.00	0.002	
R07-10	VAN08003509	783337	181.00	184.00	3.00	0.003	
R07-10	VAN08003509	783338	193.70	195.30	1.60	0.018	
R07-10	VAN08003509	783339	201.80	203.30	1.50	0.002	
R07-11	VAN08003555	783340	7.62	10.50	2.88	0.005	
R07-11	VAN08003555	783341	10.50	13.50	3.00	0.003	
R07-11	VAN08003555	783342	13.50	16.50	3.00	0.002	
R07-11	VAN08003555	783343	16.50	19.50	3.00	0.005	
R07-11	VAN08003555	783344	19.50	22.50	3.00	0.005	
R07-11	VAN08003555	783345	22.50	23.50	1.00	0.003	
R07-11	VAN08003555	783346	22.50	23.50	1.00	0.002	Duplicate
R07-11	VAN08003555	783347	23.50	26.50	3.00	0.011	
R07-11	VAN08003555	783348	26.50	29.50	3.00	0.029	
R07-11	VAN08003555	783349	29.50	32.50	3.00	0.006	
R07-11	VAN08003555	783350	32.50	35.50	3.00	0.034	
R07-11	VAN08003555	783351	35.50	38.50	3.00	0.018	
R07-11	VAN08003555	783352	38.50	41.50	3.00	0.017	
R07-11	VAN08003555	783353	41.50	44.50	3.00	0.004	
R07-11	VAN08003555	783354	44.50	47.50	3.00	0.005	
R07-11	VAN08003555	783355				0.348	Standard Cu124
R07-11	VAN08003555	783356	47.50	50.50	3.00	0.019	
R07-11	VAN08003555	783357	50.50	53.50	3.00	0.047	
R07-11	VAN08003555	783358	53.50	56.50	3.00	0.010	
R07-11	VAN08003555	783359	56.50	59.50	3.00	0.003	
R07-11	VAN08003555	783360	59.50	62.50	3.00	0.001	
R07-11	VAN08003555	783361	62.50	65.50	3.00	0.006	
R07-11	VAN08003555	783362	65.50	67.00	1.50	0.009	
R07-11	VAN08003555	783363	74.40	76.00	1.60	0.009	
R07-11	VAN08003555	783364	81.00	84.00	3.00	0.014	
R07-11	VAN08003555	783365	84.00	85.00	1.00	0.027	
R07-11	VAN08003555	783366	84.00	85.00	1.00	0.014	Duplicate
R07-11	VAN08003555	783367	85.00	88.00	3.00	0.004	
R07-11	VAN08003555	783368	88.00	91.00	3.00	0.003	
R07-11	VAN08003555	783369	91.00	94.00	3.00	0.006	
R07-11	VAN08003555	783370	94.00	97.00	3.00	0.007	
R07-11	VAN08003555	783371	97.00	100.00	3.00	0.010	
R07-11	VAN08003555	783372	100.00	103.00	3.00	0.020	
R07-11	VAN08003555	783373	103.00	105.77	2.77	0.099	
R07-11	VAN08003555	783374	105.77	108.00	2.23	0.030	
R07-11	VAN08003555	783375				0.354	Standard Cu124
R07-11	VAN08003555	783376	108.00	111.00	3.00	0.027	
R07-11	VAN08003555	783377	111.00	114.00	3.00	0.019	
R07-11	VAN08003555	783378	114.00	117.00	3.00	0.118	
R07-11	VAN08003555	783379	117.00	120.00	3.00	0.102	
R07-11	VAN08003555	783380	120.00	123.00	3.00	0.244	
R07-11	VAN08003555	783381	123.00	126.00	3.00	0.175	
R07-11	VAN08003555	783382	126.00	129.00	3.00	0.391	
R07-11	VAN08003555	783383	129.00	131.50	2.50	0.141	
R07-11	VAN08003555	783384	131.50	133.10	1.60	0.040	
R07-11	VAN08003555	783385	133.10	134.05	0.95	0.470	
R07-11	VAN08003555	783386	133.10	134.05	0.95	0.356	Duplicate
R07-11	VAN08003555	783387	134.05	135.30	1.25	0.838	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-11	VAN08003555	783388	135.30	137.55	2.25	0.361	
R07-11	VAN08003555	783389	137.55	139.60	2.05	3.266	
R07-11	VAN08003555	783390	139.60	141.25	1.65	2.842	
R07-11	VAN08003555	783391	141.25	142.90	1.65	1.043	
R07-11	VAN08003555	783392	142.90	144.40	1.50	0.684	
R07-11	VAN08003555	783393	144.40	146.55	2.15	0.252	
R07-11	VAN08003555	783394	146.55	148.10	1.55	0.326	
R07-11	VAN08003555	783395				0.354	Standard Cu124
R07-11	VAN08003555	783396	148.10	151.00	2.90	0.170	
R07-11	VAN08003555	783397	151.00	154.00	3.00	0.028	
R07-11	VAN08003555	783398	161.83	163.90	2.07	0.091	
R07-11	VAN08003555	783399	163.90	166.40	2.50	0.072	
R07-11	VAN08003555	783400	195.21	197.21	2.00	0.001	
R07-12	VAN08003555	783401	27.00	30.00	3.00	0.019	
R07-12	VAN08003555	783402	30.00	33.00	3.00	0.016	
R07-12	VAN08003555	783403	33.00	36.00	3.00	0.001	
R07-12	VAN08003555	783404	36.00	40.00	4.00	0.005	
R07-12	VAN08003555	783405	40.00	41.00	1.00	0.002	
R07-12	VAN08003555	783406	40.00	41.00	1.00	0.002	Duplicate
R07-12	VAN08003555	783407	41.00	44.00	3.00	0.001	
R07-12	VAN08003555	783408	44.00	47.00	3.00	0.002	
R07-12	VAN08003555	783409	47.00	50.00	3.00	0.001	
R07-12	VAN08003555	783410	50.00	53.00	3.00	0.001	
R07-12	VAN08003555	783411	53.00	56.00	3.00	0.001	
R07-12	VAN08003555	783412	56.00	59.00	3.00	0.001	
R07-12	VAN08003555	783413	59.00	62.00	3.00	0.001	
R07-12	VAN08003555	783414	62.00	65.00	3.00	0.008	
R07-12	VAN08003555	783415				0.353	Standard Cu124
R07-12	VAN08003555	783416	65.00	68.00	3.00	0.001	
R07-12	VAN08003555	783417	68.00	71.00	3.00	0.028	
R07-12	VAN08003555	783418	71.00	74.00	3.00	0.002	
R07-12	VAN08003555	783419	74.00	77.08	3.08	0.003	
R07-12	VAN08003555	783420	77.08	78.58	1.50	0.001	
R07-12	VAN08003555	783421	94.00	96.00	2.00	0.002	
R07-12	VAN08003555	783422	163.50	165.10	1.60	0.001	
R07-12	VAN08003555	783423	165.10	167.60	2.50	0.009	
R07-12	VAN08003555	783424	167.60	169.95	2.35	0.005	
R07-12	VAN08003555	783425	185.95	187.45	1.50	0.003	
R07-12	VAN08003555	783426	185.95	187.45	1.50	0.002	Duplicate
R07-13	VAN08003555	783427	6.10	9.00	2.90	0.003	
R07-13	VAN08003555	783428	9.00	12.00	3.00	0.006	
R07-13	VAN08003555	783429	12.00	15.00	3.00	0.002	
R07-13	VAN08003555	783430	15.00	18.00	3.00	0.002	
R07-13	VAN08003555	783431	18.00	21.00	3.00	0.001	
R07-13	VAN08003555	783432	21.00	24.00	3.00	0.001	
R07-13	VAN08003555	783433	24.00	27.00	3.00	0.001	
R07-13	VAN08003555	783434	27.00	30.00	3.00	0.002	
R07-13	VAN08003555	783435				0.351	Standard Cu124
R07-13	VAN08003555	783436	30.00	33.00	3.00	0.002	
R07-13	VAN08003555	783437	33.00	35.60	2.60	0.003	
R07-13	VAN08003555	783438	35.60	38.00	2.40	0.004	
R07-13	VAN08003555	783439	38.00	41.00	3.00	0.004	

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-13	VAN08003555	783440	41.00	44.00	3.00	0.003	
R07-13	VAN08003555	783441	44.00	47.00	3.00	0.001	
R07-13	VAN08003555	783442	47.00	50.00	3.00	0.004	
R07-13	VAN08003555	783443	50.00	53.00	3.00	0.002	
R07-13	VAN08003555	783444	53.00	56.08	3.08	0.001	
R07-13	VAN08003555	783445	56.08	57.00	0.92	0.001	
R07-13	VAN08003555	783446	56.08	57.00	0.92	0.001	Duplicate
R07-13	VAN08003555	783447	57.00	60.05	3.05	0.001	
R07-13	VAN08003555	783448	60.05	63.00	2.95	0.009	
R07-13	VAN08003555	783449	63.00	66.00	3.00	0.005	
R07-13	VAN08003555	783450	66.00	69.00	3.00	0.008	
R07-13	VAN08003555	783451	69.00	72.00	3.00	0.004	
R07-13	VAN08003555	783452	72.00	75.00	3.00	0.006	
R07-13	VAN08003555	783453	75.00	78.00	3.00	0.009	
R07-13	VAN08003555	783454	78.00	81.00	3.00	0.005	
R07-13	VAN08003555	783455				0.340	Standard Cu124
R07-13	VAN08003555	783456	81.00	84.00	3.00	0.036	
R07-13	VAN08003555	783457	84.00	87.00	3.00	0.006	
R07-13	VAN08003555	783458	87.00	89.50	2.50	0.004	
R07-13	VAN08003555	783459	89.50	92.00	2.50	0.009	
R07-13	VAN08003555	783460	92.00	95.00	3.00	0.004	
R07-13	VAN08003555	783461	95.00	96.80	1.80	0.002	
R07-13	VAN08003555	783462	96.80	99.00	2.20	0.003	
R07-13	VAN08003555	783463	99.00	102.00	3.00	0.003	
R07-13	VAN08003555	783464	102.00	105.00	3.00	0.002	
R07-13	VAN08003555	783465	105.00	106.00	1.00	0.001	
R07-13	VAN08003555	783466	105.00	106.00	1.00	0.001	Duplicate
R07-13	VAN08003555	783467	106.00	109.00	3.00	0.015	
R07-13	VAN08003555	783468	109.00	112.00	3.00	0.011	
R07-13	VAN08003555	783469	112.00	115.00	3.00	0.014	
R07-13	VAN08003555	783470	115.00	118.00	3.00	0.036	
R07-13	VAN08003555	783471	118.00	121.00	3.00	0.133	
R07-13	VAN08003555	783472	121.00	124.00	3.00	0.022	
R07-13	VAN08003555	783473	124.00	127.00	3.00	0.103	
R07-13	VAN08003610	783474	127.00	130.00	3.00	0.105	
R07-13	VAN08003610	783475				0.354	Standard Cu124
R07-13	VAN08003610	783476	130.00	133.00	3.00	0.007	
R07-13	VAN08003610	783477	133.00	136.00	3.00	0.066	
R07-13	VAN08003610	783478	136.00	139.00	3.00	0.008	
R07-13	VAN08003610	783479	139.00	142.00	3.00	0.010	
R07-13	VAN08003610	783480	142.00	145.00	3.00	0.016	
R07-13	VAN08003610	783481	145.00	148.00	3.00	0.005	
R07-13	VAN08003610	783482	148.00	151.00	3.00	0.002	
R07-13	VAN08003610	783483	162.80	164.50	1.70	0.008	
R07-13	VAN08003610	783484	164.50	167.50	3.00	0.007	
R07-13	VAN08003610	783485	167.50	168.50	1.00	0.005	
R07-13	VAN08003610	783486	167.50	168.50	1.00	0.000	Duplicate
R07-13	VAN08003610	783487	168.50	171.50	3.00	0.007	
R07-13	VAN08003610	783488	171.50	174.50	3.00	0.000	
R07-13	VAN08003610	783489	174.50	178.78	4.28	0.017	
R07-13	VAN08003610	783490	178.78	180.67	1.89	0.071	
R07-13	VAN08003610	783491	180.67	183.40	2.73	0.166	

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-13	VAN08003610	783492	183.40	186.06	2.66	0.088	
R07-13	VAN08003610	783493	186.06	189.00	2.94	0.394	
R07-13	VAN08003610	783494	189.00	191.55	2.55	0.208	
R07-13	VAN08003610	783495				0.314	Standard Cu124
R07-13	VAN08003610	783496	191.55	194.40	2.85	0.237	
R07-13	VAN08003610	783497	194.40	197.40	3.00	0.117	
R07-13	VAN08003610	783498	197.40	199.90	2.50	0.085	
R07-13	VAN08003610	783499	199.90	201.40	1.50	0.355	
R07-13	VAN08003610	783500	201.40	203.90	2.50	0.139	
R07-13	VAN08003610	783501	203.90	206.60	2.70	0.088	
R07-13	VAN08003610	783502	206.60	209.10	2.50	0.211	
R07-13	VAN08003610	783503	209.10	212.00	2.90	0.081	
R07-13	VAN08003610	783504	212.00	215.10	3.10	0.156	
R07-13	VAN08003610	783505	215.10	216.50	1.40	0.205	
R07-13	VAN08003610	783506	215.10	216.50	1.40	0.253	Duplicate
R07-13	VAN08003610	783507	216.50	218.54	2.04	0.379	
R07-13	VAN08003610	783508	218.54	221.50	2.96	0.098	
R07-13	VAN08003610	783509	221.50	224.50	3.00	0.076	
R07-13	VAN08003610	783510	224.50	225.80	1.30	0.094	
R07-13	VAN08003610	783511	225.80	228.00	2.20	0.088	
R07-13	VAN08003610	783512	228.00	229.25	1.25	0.050	
R07-13	VAN08003610	783513	229.25	232.25	3.00	0.174	
R07-13	VAN08003610	783514	232.25	235.26	3.01	0.127	
R07-13	VAN08003610	783515				0.351	Standard Cu124
R07-13	VAN08003610	783516	235.26	238.25	2.99	0.120	
R07-13	VAN08003610	783517	238.25	241.25	3.00	0.080	
R07-13	VAN08003610	783518	241.25	244.25	3.00	0.107	
R07-13	VAN08003610	783519	244.25	246.30	2.05	0.078	
R07-13	VAN08003610	783520	246.30	249.30	3.00	0.093	
R07-13	VAN08003610	783521	249.30	252.70	3.40	0.172	
R07-13	VAN08003610	783522	252.70	255.70	3.00	0.245	
R07-13	VAN08003610	783523	255.70	258.70	3.00	0.229	
R07-13	VAN08003610	783524	258.70	261.70	3.00	0.174	
R07-13	VAN08003610	783525	261.70	263.00	1.30	0.110	
R07-13	VAN08003610	783526	261.70	263.00	1.30	0.104	Duplicate
R07-13	VAN08003610	783527	263.00	266.00	3.00	0.058	
R07-13	VAN08003610	783528	266.00	269.00	3.00	0.151	
R07-13	VAN08003610	783529	269.00	272.00	3.00	0.182	
R07-13	VAN08003610	783530	272.00	274.00	2.00	0.258	
R07-13	VAN08003610	783531	274.00	277.00	3.00	0.145	
R07-13	VAN08003610	783532	277.00	280.00	3.00	0.403	
R07-13	VAN08003610	783533	280.00	283.00	3.00	0.238	
R07-13	VAN08003610	783534	283.00	286.00	3.00	0.120	
R07-13	VAN08003610	783535				0.344	Standard Cu124
R07-13	VAN08003610	783536	286.00	289.00	3.00	0.244	
R07-13	VAN08003610	783537	289.00	292.00	3.00	0.374	
R07-13	VAN08003610	783538	292.00	294.80	2.80	0.278	
R07-13	VAN08003610	783539	294.80	296.90	2.10	0.579	
R07-13	VAN08003610	783540	296.90	300.00	3.10	0.337	
R07-13	VAN08003610	783541	300.00	303.00	3.00	0.247	
R07-13	VAN08003610	783542	303.00	306.00	3.00	0.299	
R07-13	VAN08003610	783543	306.00	309.00	3.00	0.425	

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-13	VAN08003610	783544	309.00	312.00	3.00	0.283	
R07-13	VAN08003610	783545	312.00	313.25	1.25	1.314	
R07-13	VAN08003610	783546	312.00	313.25	1.25	1.306	Duplicate
R07-13	VAN08003610	783547	313.25	316.08	2.83	0.556	
R07-13	VAN08003610	783548	316.08	319.00	2.92	0.303	
R07-13	VAN08003610	783549	319.00	322.00	3.00	0.134	
R07-13	VAN08003610	783550	322.00	325.00	3.00	0.105	
R07-13	VAN08003610	783551	325.00	328.00	3.00	0.337	
R07-13	VAN08003610	783552	328.00	330.00	2.00	0.324	
R07-13	VAN08003610	783553	330.00	332.00	2.00	0.260	
R07-13	VAN08003610	783554	332.00	335.00	3.00	0.633	
R07-13	VAN08003610	783555				0.344	Standard Cu124
R07-13	VAN08003610	783556	335.00	338.00	3.00	0.488	
R07-13	VAN08003610	783557	338.00	341.00	3.00	0.118	
R07-13	VAN08003610	783558	341.00	344.00	3.00	0.138	
R07-13	VAN08003610	783559	344.00	347.00	3.00	0.337	
R07-13	VAN08003610	783560	347.00	350.00	3.00	0.116	
R07-13	VAN08003610	783561	350.00	351.15	1.15	0.092	
R07-13	VAN08003610	783562	351.15	354.00	2.85	0.031	
R07-13	VAN08003610	783563	354.00	357.00	3.00	0.027	
R07-13	VAN08003610	783564	357.00	360.00	3.00	0.167	
R07-13	VAN08003610	783565	360.00	361.00	1.00	0.126	
R07-13	VAN08003610	783566	360.00	361.00	1.00	0.235	Duplicate
R07-13	VAN08003610	783567	361.00	364.00	3.00	0.218	
R07-13	VAN08003610	783568	364.00	367.00	3.00	0.156	
R07-13	VAN08003610	783569	367.00	370.00	3.00	0.526	
R07-13	VAN08003610	783570	370.00	373.00	3.00	0.038	
R07-13	VAN08003610	783571	373.00	376.10	3.10	0.037	
R07-13	VAN08003610	783572	376.10	379.00	2.90	0.019	
R07-13	VAN08003610	783573	379.00	382.00	3.00	0.015	
R07-13	VAN08003610	783574	382.00	385.00	3.00	0.160	
R07-13	VAN08003610	783575				0.367	Standard Cu124
R07-13	VAN08003610	783576	385.00	387.00	2.00	0.011	
R07-13	VAN08003610	783577	387.00	388.32	1.32	0.158	
R07-14	VAN08003610	783578	14.50	17.50	3.00	0.003	
R07-14	VAN08003610	783579	17.50	19.50	2.00	0.024	
R07-14	VAN08003610	783580	19.50	23.85	4.35	0.009	
R07-14	VAN08003610	783581	23.85	26.60	2.75	0.009	
R07-14	VAN08003610	783582	26.60	29.50	2.90	0.002	
R07-14	VAN08003610	783583	29.50	32.50	3.00	0.013	
R07-14	VAN08003610	783584	32.50	35.50	3.00	0.010	
R07-14	VAN08003610	783585	35.50	38.50	3.00	0.051	
R07-14	VAN08003610	783586	38.50	41.50	3.00	0.026	
R07-14	VAN08003610	783587	41.50	42.50	1.00	0.007	
R07-14	VAN08003610	783588	41.50	42.50	1.00	0.005	Duplicate
R07-14	VAN08003610	783589	42.50	45.00	2.50	0.003	
R07-14	VAN08003610	783590	45.00	48.00	3.00	0.010	
R07-14	VAN08003610	783591	48.00	50.80	2.80	0.010	
R07-14	VAN08003610	783592	50.80	53.55	2.75	0.161	
R07-14	VAN08003610	783593	53.55	56.50	2.95	0.016	
R07-14	VAN08003610	783594	56.50	59.50	3.00	0.018	
R07-14	VAN08003610	783595				0.354	Standard Cu124

Drill Core Assay Summary 2007

Hole ID	Certificate	Sample	From	To	Interval	Cu (%)	Sample Type
R07-14	VAN08003610	783596	59.50	62.50	3.00	0.009	
R07-14	VAN08003610	783597	62.50	65.50	3.00	0.111	
R07-14	VAN08003610	783598	65.50	68.40	2.90	0.058	
R07-14	VAN08003610	783599	68.40	71.00	2.60	0.014	
R07-14	VAN08003610	783600	71.00	74.00	3.00	0.002	
R07-14	VAN08003610	783601	74.00	76.00	2.00	0.017	
R07-14	VAN08003610	783602	76.00	79.00	3.00	0.033	
R07-14	VAN08003610	783603	79.00	82.00	3.00	0.039	
R07-14	VAN08003610	783604	82.00	84.00	2.00	0.015	
R07-14	VAN08003610	783605	84.00	86.50	2.50	0.052	
R07-14	VAN08003610	783606	84.00	86.50	2.50	0.048	Duplicate
R07-14	VAN08003610	783607	86.50	88.00	1.50	0.007	
R07-14	VAN08003610	783608	107.25	109.75	2.50	0.002	
R07-14	VAN08003610	783609	109.75	112.50	2.75	0.097	
R07-14	VAN08003610	783610	112.50	115.50	3.00	0.037	
R07-14	VAN08003610	783611	115.50	118.50	3.00	0.037	
R07-14	VAN08003610	783612	118.50	121.50	3.00	0.013	
R07-14	VAN08003610	783613	121.50	124.50	3.00	0.003	
R07-14	VAN08003610	783614	132.10	135.00	2.90	0.028	
R07-14	VAN08003610	783615				0.348	Standard Cu124
R07-14	VAN08003610	783616	149.15	152.15	3.00	0.012	
R07-14	VAN08003610	783617	157.50	160.50	3.00	0.026	
R07-14	VAN08003610	783618	160.50	163.00	2.50	0.022	
R07-14	VAN08003610	783619	194.20	197.21	3.01	0.000	

Appendix D

Certificate of Analysis

ACME ANALYTICAL LABORATORIES LTD. (ISO 9001 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A702828 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: Meridian Mapping

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	2.17	<.01	.010	<.001	<.001	<.01	.69	.087	.001	.65	1.33	.19	.67	<.001	<.001	-
556001	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.54	<.01	.018	<.001	<.001	<.01	1.18	.051	<.001	.32	.78	.10	.18	<.001	<.001	6.5
556002	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.53	<.01	.017	<.001	<.001	<.01	.88	.047	<.001	.41	.88	.11	.14	<.001	<.001	8.5
556003	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.63	<.01	.008	<.001	<.001	<.01	.95	.051	<.001	.39	.91	.14	.17	<.001	<.001	8.3
RE 556003	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.62	<.01	.008	<.001	<.001	<.01	.93	.049	<.001	.40	.92	.14	.17	.001	<.001	-
RRE 556003	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.74	<.01	.008	<.001	.001	<.01	.95	.052	<.001	.39	.90	.13	.16	.001	<.001	-
556004	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.55	<.01	.012	<.001	<.001	<.01	1.55	.051	<.001	.41	.91	.09	.15	.001	<.001	7.5
556005	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.65	<.01	.008	<.001	<.001	<.01	.84	.052	.001	.39	.86	.14	.16	<.001	<.001	8.4
556006	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	1.52	<.01	.008	<.001	<.001	<.01	.92	.054	<.001	.31	.75	.11	.15	<.001	<.001	7.0
556007	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.52	<.01	.026	<.001	<.001	<.01	1.64	.053	<.001	.35	.95	.07	.18	<.001	<.001	6.8
556008	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.52	<.01	.014	<.001	<.001	<.01	1.73	.051	<.001	.40	.97	.12	.11	<.001	<.001	6.5
556009	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	.71	<.01	.027	<.001	<.001	<.01	3.80	.064	<.001	.09	1.39	.01	.13	.001	<.001	9.0
556010	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.44	<.01	.010	<.001	<.001	<.01	2.01	.057	<.001	.56	1.31	.12	.17	<.001	<.001	6.2
556011	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.47	<.01	.012	<.001	<.001	<.01	1.83	.051	<.001	.57	1.08	.08	.15	<.001	<.001	6.5
556012	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.62	<.01	.015	<.001	<.001	<.01	1.92	.058	<.001	.17	.87	.06	.10	.001	<.001	6.0
556013	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.39	<.01	.014	<.001	<.001	<.01	2.78	.053	<.001	.23	.94	.06	.19	<.001	<.001	8.0
556014	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.59	<.01	.009	<.001	<.001	<.01	.96	.053	.001	.41	.93	.16	.13	<.001	<.001	8.2
556015 (pulp)	.027	.346	<.01	<.01	11	<.001	<.001	.03	1.04	<.01	.022	<.001	.002	<.01	1.21	.026	.002	.09	.50	.05	.31	<.001	<.001	-
556016	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.61	<.01	.008	<.001	<.001	<.01	.81	.046	<.001	.40	.95	.16	.19	<.001	<.001	8.5
556017	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.52	<.01	.008	<.001	<.001	<.01	.90	.047	<.001	.37	.89	.16	.16	<.001	<.001	8.3
556018	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.49	<.01	.017	<.001	<.001	<.01	2.50	.046	<.001	.37	.89	.11	.16	<.001	<.001	8.5
556019	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.60	<.01	.008	<.001	<.001	<.01	.93	.051	<.001	.36	.83	.13	.19	<.001	<.001	8.0
556020	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.63	<.01	.019	<.001	<.001	<.01	1.05	.051	<.001	.39	.92	.12	.17	.001	<.001	7.6
556021	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.57	<.01	.009	<.001	<.001	<.01	1.20	.050	.001	.37	.97	.16	.20	<.001	<.001	8.3
556022	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.66	<.01	.009	<.001	<.001	<.01	.99	.055	<.001	.45	1.12	.16	.17	<.001	<.001	8.0
556023	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.66	<.01	.008	<.001	<.001	<.01	.97	.054	.001	.44	1.12	.19	.19	<.001	<.001	8.5
556024	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.67	<.01	.009	<.001	<.001	<.01	1.08	.052	<.001	.44	1.09	.15	.16	<.001	<.001	8.4
556025	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.63	<.01	.010	<.001	<.001	<.01	.96	.047	.001	.44	1.23	.22	.20	<.001	<.001	3.9
556026	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.62	<.01	.011	<.001	<.001	<.01	.98	.049	<.001	.43	1.33	.27	.21	<.001	<.001	3.8
556027	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.63	<.01	.012	<.001	<.001	<.01	1.45	.051	<.001	.37	.94	.13	.14	<.001	<.001	8.0
556028	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.45	<.01	.010	<.001	<.001	<.01	2.01	.042	<.001	.39	.69	.08	.14	<.001	<.001	8.3
556029	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.56	<.01	.009	<.001	<.001	<.01	1.30	.050	<.001	.36	.70	.10	.15	.001	<.001	7.5
556030	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.45	<.01	.012	<.001	<.001	<.01	1.76	.048	<.001	.32	.84	.10	.19	<.001	<.001	8.0
556031	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.45	<.01	.013	<.001	<.001	<.01	1.77	.050	<.001	.30	.84	.10	.18	.001	<.001	7.5
556032	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.56	<.01	.016	<.001	<.001	<.01	1.95	.044	<.001	.47	.72	.08	.15	<.001	<.001	7.5
556033	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.50	<.01	.014	<.001	<.001	<.01	1.45	.049	<.001	.34	.74	.09	.17	<.001	<.001	8.0
556034	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.41	<.01	.017	<.001	<.001	<.01	1.20	.045	<.001	.38	.83	.11	.11	<.001	<.001	7.5
556035 (pulp)	.020	.467	.01	<.01	42	<.001	<.001	.02	1.23	<.01	.017	<.001	.009	<.01	.99	.027	.002	.07	.35	.05	.23	<.001	<.001	-
STANDARD R-3	.074	.819	1.97	4.13	203	.541	.063	.07	30.23	.04	.003	.025	.038	<.01	1.32	.052	.011	1.07	1.12	.04	.46	<.001	.002	-

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: MAY 10 2007 DATE REPORT MAILED: MAY 22 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	.001	<.001	.06	2.16	<.01	.009	<.001	<.001	<.01	.65	.089	.001	.67	1.25	.18	.67	.001	<.001	-
556036	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.52	<.01	.017	<.001	<.001	<.01	1.16	.049	<.001	.37	.87	.10	.15	.001	<.001	7.2
556037	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.56	<.01	.012	<.001	<.001	<.01	1.57	.050	<.001	.28	.71	.08	.14	<.001	<.001	7.3
556038	<.001	<.001	<.01	<.01	<2	<.001	.001	.04	1.77	<.01	.016	<.001	.001	<.01	1.81	.050	<.001	.51	.63	.08	.10	<.001	<.001	6.5
556039	<.001	<.001	<.01	<.01	<2	<.001	.001	.07	2.20	<.01	.018	<.001	.001	<.01	2.71	.058	.001	.70	.68	.07	.06	.001	<.001	7.8
556040	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.67	<.01	.014	<.001	<.001	<.01	2.19	.040	<.001	.60	.65	.08	.09	.001	<.001	7.0
556041	<.001	<.001	<.01	<.01	<2	<.001	<.001	.07	1.38	<.01	.014	<.001	.001	<.01	3.71	.023	<.001	.51	.58	.06	.09	<.001	<.001	7.0
556042	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.62	<.01	.011	<.001	<.001	<.01	1.81	.042	<.001	.38	.58	.09	.08	<.001	<.001	8.4
556043	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.59	<.01	.011	<.001	<.001	<.01	1.51	.047	<.001	.40	.60	.09	.09	<.001	<.001	7.6
556044	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.50	<.01	.012	<.001	<.001	<.01	2.47	.043	<.001	.43	.60	.07	.13	<.001	<.001	7.4
556045	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.34	<.01	.011	<.001	<.001	<.01	1.94	.044	<.001	.38	.51	.08	.12	<.001	<.001	4.3
556046	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.43	<.01	.010	<.001	<.001	<.01	1.52	.051	<.001	.33	.56	.09	.14	<.001	<.001	3.8
556047	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.73	<.01	.010	<.001	<.001	<.01	.77	.014	.001	.17	.52	.10	.12	<.001	<.001	6.3
RE 556047	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.71	<.01	.010	<.001	<.001	<.01	.78	.015	.001	.17	.52	.10	.12	.001	<.001	-
RRE 556047	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.72	<.01	.011	<.001	<.001	<.01	.79	.014	<.001	.18	.53	.10	.12	<.001	<.001	-
556048	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.39	<.01	.009	<.001	<.001	<.01	1.33	.031	.001	.49	.79	.10	.11	.001	<.001	8.0
556049	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.70	<.01	.008	<.001	<.001	<.01	1.83	.014	<.001	.21	.44	.09	.14	<.001	<.001	8.0
556050	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.89	<.01	.012	<.001	<.001	<.01	1.03	.020	<.001	.24	.66	.10	.14	.001	<.001	7.5
556051	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.88	<.01	.011	<.001	<.001	<.01	.92	.023	<.001	.20	.62	.10	.13	<.001	<.001	7.7
556052	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.34	<.01	.010	<.001	<.001	<.01	1.26	.035	<.001	.39	.77	.09	.13	.001	<.001	7.5
556053	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.43	<.01	.010	<.001	.001	<.01	1.23	.039	<.001	.45	.97	.13	.12	.001	<.001	7.5
556054	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.13	<.01	.016	<.001	<.001	<.01	1.66	.044	<.001	.44	.89	.09	.11	.001	<.001	8.0
556055 (pulp)	.029	.354	<.01	<.01	11	<.001	<.001	.03	1.11	<.01	.022	<.001	.003	<.01	1.26	.027	.002	.09	.51	.06	.33	<.001	<.001	-
556056	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.14	<.01	.023	<.001	<.001	<.01	4.19	.052	<.001	.17	1.13	.06	.21	.001	<.001	8.0
556057	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.15	<.01	.010	<.001	<.001	<.01	2.95	.042	<.001	.37	.62	.05	.20	<.001	<.001	8.0
556058	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.52	<.01	.009	<.001	<.001	<.01	1.35	.045	<.001	.34	.73	.09	.19	.001	<.001	7.6
556059	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.45	<.01	.008	<.001	<.001	<.01	1.20	.045	.001	.35	.62	.08	.20	<.001	<.001	7.9
556060	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.55	<.01	.005	<.001	<.001	<.01	1.03	.019	.001	.04	.33	.07	.28	.001	<.001	7.0
556061	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.36	<.01	.004	<.001	<.001	<.01	1.21	.015	.001	.02	.33	.06	.31	.001	<.001	7.4
556062	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.37	<.01	.005	<.001	<.001	<.01	1.22	.014	<.001	.03	.33	.06	.31	<.001	<.001	7.5
556063	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.33	<.01	.006	<.001	<.001	<.01	1.04	.009	.001	.03	.36	.04	.32	.001	<.001	7.4
556064	<.001	.010	<.01	<.01	<2	<.001	<.001	.02	.43	<.01	.005	<.001	<.001	<.01	.74	.011	<.001	.03	.36	.06	.31	<.001	<.001	7.3
556065	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.43	<.01	.004	<.001	<.001	<.01	.80	.013	.001	.03	.30	.06	.27	.001	<.001	4.0
556066	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.42	<.01	.005	<.001	.001	<.01	.82	.013	<.001	.02	.34	.08	.28	<.001	<.001	4.0
556067	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.31	<.01	.011	<.001	<.001	<.01	1.79	.002	<.001	.09	.45	.01	.32	.001	<.001	7.6
556068	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.40	<.01	.008	<.001	<.001	<.01	1.23	.015	<.001	.04	.39	.06	.30	.001	<.001	7.0
556069	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.33	<.01	.007	<.001	<.001	<.01	1.59	.013	<.001	.03	.35	.05	.31	.001	<.001	6.5
556070	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.49	<.01	.007	<.001	<.001	<.01	1.33	.013	<.001	.05	.37	.07	.29	<.001	<.001	7.8
STANDARD R-3	.078	.812	2.00	4.07	204	.545	.063	.07	30.57	.04	.003	.025	.039	<.01	1.35	.052	.012	1.07	1.10	.04	.47	.001	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ___

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.97	<.01	.007	<.001	<.001	<.01	.52	.080	.001	.64	1.17	.14	.63	<.001	<.001	-
556071	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.58	<.01	.006	<.001	<.001	<.01	1.19	.016	<.001	.12	.42	.06	.27	<.001	<.001	7.5
556072	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	.56	<.01	.010	<.001	<.001	<.01	1.37	.021	.001	.09	.39	.07	.31	<.001	<.001	8.0
556073	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.56	<.01	.005	<.001	<.001	<.01	.94	.021	.001	.04	.36	.08	.29	.001	<.001	6.8
556074	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.43	<.01	.004	<.001	<.001	<.01	.85	.017	.001	.04	.29	.06	.25	<.001	<.001	7.8
556075 (pulp)	.022	.485	.01	<.01	42	<.001	<.001	.02	1.31	<.01	.018	<.001	.009	<.01	1.04	.031	.002	.07	.33	.04	.22	<.001	<.001	-
556076	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.37	<.01	.006	<.001	<.001	<.01	1.17	.012	<.001	.04	.37	.05	.30	<.001	<.001	6.4
556077	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.43	<.01	.006	<.001	<.001	<.01	1.25	.007	<.001	.07	.33	.04	.22	.001	<.001	5.5
556078	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.40	<.01	.006	<.001	<.001	<.01	1.49	.004	<.001	.05	.39	.04	.25	<.001	<.001	6.8
556079	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.29	<.01	.008	<.001	<.001	<.01	2.39	.005	<.001	.04	.38	.03	.32	.001	<.001	7.4
556080	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.52	<.01	.005	<.001	<.001	<.01	.94	.017	<.001	.06	.36	.06	.26	.001	<.001	7.3
556081	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.63	<.01	.004	<.001	<.001	<.01	.64	.015	.001	.08	.30	.07	.17	<.001	<.001	7.4
556082	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.20	<.01	.005	<.001	<.001	<.01	1.30	.041	<.001	.18	.67	.06	.20	.001	<.001	4.0
556083	<.001	<.001	<.01	<.01	<2	<.001	<.001	.07	1.12	<.01	.006	<.001	<.001	<.01	3.10	.036	<.001	.10	.55	.06	.25	<.001	<.001	7.5
RE 556083	<.001	<.001	<.01	<.01	<2	<.001	<.001	.07	1.14	<.01	.007	<.001	<.001	<.01	3.03	.037	<.001	.10	.56	.06	.25	.001	<.001	-
RRE 556083	<.001	<.001	<.01	<.01	<2	<.001	<.001	.08	1.20	<.01	.007	<.001	<.001	<.01	3.16	.036	<.001	.11	.59	.06	.25	<.001	<.001	-
556084	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.28	<.01	.006	<.001	<.001	<.01	2.90	.027	<.001	.10	.52	.04	.17	.001	<.001	7.6
556085	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.39	<.01	.005	<.001	<.001	<.01	2.08	.037	<.001	.13	.58	.05	.20	.001	<.001	2.8
556086	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.31	<.01	.005	<.001	<.001	<.01	2.37	.039	<.001	.12	.55	.05	.22	<.001	<.001	2.0
556087	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.46	<.01	.005	<.001	<.001	<.01	1.83	.045	<.001	.18	.70	.07	.17	<.001	<.001	7.6
556088	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.39	<.01	.005	<.001	<.001	<.01	2.00	.040	.001	.32	.52	.06	.17	<.001	<.001	9.7
556089	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.40	<.01	.007	<.001	<.001	<.01	1.45	.042	<.001	.28	.93	.10	.20	<.001	<.001	7.4
556090	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.48	<.01	.007	<.001	<.001	<.01	1.40	.046	<.001	.31	.79	.10	.17	<.001	<.001	7.5
556091	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.48	<.01	.007	<.001	<.001	<.01	1.75	.043	.001	.42	.65	.08	.12	<.001	<.001	8.0
556092	.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.52	<.01	.008	<.001	<.001	<.01	2.56	.034	<.001	.48	.52	.06	.13	<.001	<.001	7.6
556093	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	1.36	<.01	.004	<.001	<.001	<.01	1.10	.045	<.001	.25	.52	.06	.17	.001	<.001	8.0
556094	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.32	<.01	.009	<.001	<.001	<.01	2.77	.038	.001	.43	.43	.05	.18	.001	<.001	7.8
556095 (pulp)	.030	.355	<.01	<.01	11	<.001	<.001	.03	1.10	<.01	.022	<.001	.002	<.01	1.24	.026	.002	.09	.46	.05	.31	<.001	<.001	-
556096	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.38	<.01	.009	<.001	<.001	<.01	2.58	.038	<.001	.44	.43	.05	.21	<.001	<.001	7.6
556097	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.56	<.01	.007	<.001	<.001	<.01	1.50	.042	.001	.47	.47	.07	.14	<.001	<.001	8.0
556098	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.52	<.01	.008	<.001	<.001	<.01	1.98	.042	<.001	.42	.50	.07	.16	<.001	<.001	8.3
556099	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.53	<.01	.007	<.001	<.001	<.01	1.90	.041	<.001	.41	.43	.07	.15	<.001	<.001	7.7
556100	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.46	<.01	.008	<.001	<.001	<.01	1.91	.043	.001	.44	.48	.07	.16	<.001	<.001	7.7
556101	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.37	<.01	.007	<.001	<.001	<.01	2.31	.037	<.001	.41	.37	.06	.18	<.001	<.001	7.9
556102	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.33	<.01	.007	<.001	<.001	<.01	2.14	.040	<.001	.38	.46	.06	.18	<.001	<.001	5.0
556103	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.48	<.01	.007	<.001	<.001	<.01	2.25	.046	.001	.37	.45	.07	.21	<.001	<.001	6.6
556104	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.19	<.01	.005	<.001	<.001	<.01	1.22	.075	<.001	.13	.32	.06	.22	<.001	<.001	4.4
556105	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.34	<.01	.003	<.001	<.001	<.01	1.15	.011	<.001	.02	.31	.06	.24	.001	<.001	3.0
STANDARD R-3	.079	.823	2.02	4.19	201	.553	.064	.07	30.46	.04	.003	.025	.037	<.01	1.37	.055	.012	1.06	1.09	.04	.48	.001	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data / FA ___

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	2.02	<.01	.008	<.001	.001	<.01	.54	.081	.001	.65	1.23	.15	.63	<.001	<.001	-
556106	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.37	<.01	.003	<.001	.001	<.01	1.12	.014	.001	.03	.37	.07	.25	<.001	<.001	2.6
556107	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	.35	<.01	.003	<.001	<.001	<.01	1.20	.009	.001	.02	.37	.06	.26	<.001	<.001	5.4
556108	<.001	.005	<.01	<.01	<2	<.001	<.001	.03	.38	<.01	.003	<.001	.001	<.01	.96	.014	.001	.02	.36	.07	.29	<.001	<.001	5.8
556109	<.001	.006	<.01	<.01	<2	<.001	<.001	.04	.39	<.01	.003	<.001	.001	<.01	1.12	.014	<.001	.02	.40	.06	.27	<.001	<.001	5.0
556110	<.001	.009	<.01	<.01	<2	<.001	<.001	.03	.40	<.01	.003	<.001	.001	<.01	.98	.016	.001	.02	.35	.06	.25	<.001	<.001	5.5
556111	<.001	.005	<.01	<.01	<2	<.001	<.001	.03	.32	<.01	.003	<.001	<.001	<.01	1.33	.009	<.001	.02	.38	.05	.30	<.001	<.001	5.4
556112	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.30	<.01	.004	<.001	.001	<.01	1.46	.010	.001	.02	.38	.05	.29	<.001	<.001	5.5
556113	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.31	<.01	.003	<.001	<.001	<.01	1.15	.009	<.001	.02	.35	.06	.26	<.001	<.001	5.4
556114	<.001	.013	<.01	<.01	<2	<.001	<.001	.04	.41	<.01	.004	<.001	<.001	<.01	1.45	.008	.001	.03	.36	.05	.26	<.001	<.001	5.2
556115 (pulp)	.022	.486	.01	<.01	41	<.001	<.001	.02	1.31	<.01	.018	<.001	.010	<.01	1.04	.031	.002	.07	.39	.05	.24	<.001	<.001	-
556116	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	.41	<.01	.005	<.001	.001	<.01	1.82	.006	<.001	.02	.48	.06	.27	<.001	<.001	5.5
556117	.003	.009	<.01	<.01	<2	<.001	<.001	.03	.35	<.01	.004	<.001	.001	<.01	1.30	.006	.001	.04	.40	.05	.27	<.001	<.001	4.5
556118	<.001	.006	<.01	<.01	<2	<.001	<.001	.03	.39	<.01	.004	<.001	.001	<.01	1.37	.009	<.001	.04	.40	.05	.29	<.001	<.001	4.7
556119	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.29	<.01	.004	<.001	<.001	<.01	1.30	.010	.001	.02	.34	.05	.29	<.001	<.001	4.5
556120	.001	.125	<.01	<.01	<2	<.001	<.001	.05	.35	<.01	.005	<.001	<.001	<.01	1.86	.004	<.001	.05	.45	.02	.32	<.001	<.001	3.6
556121	<.001	.007	<.01	<.01	<2	<.001	<.001	.03	.36	<.01	.004	<.001	<.001	<.01	1.65	.012	<.001	.03	.37	.04	.28	<.001	<.001	6.1
556122	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.34	<.01	.005	<.001	<.001	<.01	1.81	.014	<.001	.02	.36	.05	.29	<.001	<.001	6.0
556123	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	.19	<.01	.011	<.001	<.001	<.01	5.67	.020	<.001	.04	.53	.01	.44	<.001	<.001	4.6
556124	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	.15	<.01	.012	<.001	.001	<.01	5.64	.026	<.001	.04	.55	.01	.39	<.001	<.001	5.5
556125	<.001	.006	<.01	<.01	<2	<.001	<.001	.05	.29	<.01	.005	<.001	<.001	<.01	1.87	.015	.001	.02	.35	.05	.28	<.001	<.001	3.9
556126	<.001	.007	<.01	<.01	<2	<.001	<.001	.05	.28	<.01	.006	<.001	.001	<.01	1.85	.017	<.001	.02	.38	.05	.31	<.001	<.001	3.8
556127	<.001	.005	<.01	<.01	<2	<.001	<.001	.03	.26	<.01	.004	<.001	<.001	<.01	1.16	.009	.001	.02	.38	.04	.31	<.001	<.001	5.7
556128	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.25	<.01	.004	<.001	<.001	<.01	1.16	.007	<.001	.02	.37	.04	.30	<.001	<.001	5.4
556129	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.26	<.01	.004	<.001	.001	<.01	1.58	.008	.001	.02	.33	.04	.20	<.001	<.001	6.3
556130	<.001	<.001	<.01	<.01	<2	<.001	<.001	.09	.23	<.01	.009	<.001	<.001	<.01	6.46	.025	<.001	.02	.44	.02	.34	<.001	<.001	5.6
556131	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.34	<.01	.003	<.001	.001	<.01	1.11	.016	.001	.02	.29	.07	.23	<.001	<.001	3.9
RE 556131	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.35	<.01	.003	<.001	.001	<.01	1.12	.017	.001	.02	.29	.07	.23	<.001	<.001	-
RRE 556131	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.36	<.01	.003	<.001	.001	<.01	1.13	.017	<.001	.02	.33	.08	.25	<.001	<.001	-
556132	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.56	<.01	.003	<.001	.001	<.01	.86	.019	.001	.04	.33	.08	.22	<.001	<.001	5.6
556133	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.43	<.01	.003	<.001	<.001	<.01	1.16	.011	<.001	.03	.33	.07	.24	<.001	<.001	7.4
556134	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.49	<.01	.002	<.001	.001	<.01	.81	.012	.001	.05	.29	.07	.19	<.001	<.001	7.6
556135 (pulp)	.030	.355	<.01	<.01	12	<.001	<.001	.03	1.13	<.01	.022	<.001	.003	<.01	1.26	.025	.002	.10	.53	.06	.33	<.001	<.001	-
556136	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.61	<.01	.002	<.001	<.001	<.01	.63	.020	.001	.05	.30	.08	.18	<.001	<.001	7.5
556137	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.61	<.01	.003	<.001	.001	<.01	.57	.019	.001	.05	.32	.08	.19	<.001	<.001	7.8
556138	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	.40	<.01	.003	<.001	<.001	<.01	1.35	.017	<.001	.03	.32	.05	.28	<.001	<.001	3.0
556139	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.24	<.01	.002	<.001	<.001	<.01	1.01	.004	.001	.01	.19	.01	.15	<.001	<.001	4.0
STANDARD R-3	.078	.818	1.97	4.09	196	.541	.062	.07	30.64	.04	.003	.024	.039	<.01	1.33	.052	.012	1.09	1.12	.04	.46	.005	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9001 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A702952 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: Meridian Mapping

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	2.05	<.01	.007	<.001	<.001	<.01	.54	.078	.001	.64	1.10	.09	.55	<.001	<.001	-
556140	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.53	<.01	.002	<.001	.001	<.01	.75	.017	.001	.04	.30	.06	.21	<.001	<.001	7.16
RE 556140	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.52	<.01	.002	<.001	.001	<.01	.73	.016	.001	.04	.29	.06	.20	<.001	<.001	-
RRE 556140	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.63	<.01	.002	<.001	<.001	<.01	.78	.018	.001	.04	.33	.07	.23	<.001	<.001	-
556141	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.59	<.01	.002	<.001	<.001	<.01	.80	.021	.001	.04	.29	.07	.21	<.001	<.001	7.52
556142	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.53	<.01	.003	<.001	.001	<.01	.68	.016	<.001	.04	.35	.06	.24	<.001	<.001	7.46
556143	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.54	<.01	.002	<.001	<.001	<.01	.51	.014	.001	.04	.27	.07	.18	<.001	<.001	7.62
556144	.001	.002	<.01	<.01	<2	<.001	<.001	.03	.52	<.01	.002	<.001	<.001	<.01	.59	.014	.001	.03	.29	.07	.21	<.001	<.001	7.60
556145	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.47	<.01	.003	<.001	.001	<.01	.95	.013	.001	.04	.30	.06	.21	<.001	<.001	3.10
556146	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.50	<.01	.003	<.001	<.001	<.01	.90	.013	.002	.04	.27	.06	.22	.001	<.001	3.36
556147	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.52	<.01	.003	<.001	.001	<.01	.93	.012	.002	.05	.31	.07	.22	<.001	<.001	7.26
556148	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.54	<.01	.003	<.001	.001	<.01	1.10	.012	.001	.05	.35	.07	.24	<.001	<.001	7.56
556149	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.62	<.01	.002	<.001	.001	<.01	.47	.015	.002	.06	.31	.09	.18	<.001	<.001	7.70
556150	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.74	<.01	.002	<.001	<.001	<.01	.37	.018	.001	.09	.33	.09	.14	<.001	<.001	7.64
556151	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.61	<.01	.002	<.001	.001	<.01	.36	.017	.002	.08	.35	.09	.16	<.001	<.001	7.64
556152	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.77	<.01	.002	<.001	<.001	<.01	.48	.015	.001	.07	.30	.09	.16	<.001	<.001	7.56
556153	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.52	<.01	.002	<.001	<.001	<.01	.53	.016	.001	.08	.20	.04	.09	<.001	<.001	7.50
556154	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.55	<.01	.002	<.001	<.001	<.01	.66	.016	.001	.06	.27	.06	.17	<.001	<.001	7.56
556155 (pulp)	.021	.470	.01	<.01	41	<.001	<.001	.02	1.22	<.01	.017	<.001	.010	<.01	.94	.027	.003	.07	.34	.04	.21	<.001	<.001	-
556156	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.58	<.01	.003	<.001	<.001	<.01	.72	.015	.001	.06	.33	.07	.18	<.001	<.001	7.78
556157	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.60	<.01	.003	<.001	.001	<.01	.55	.013	<.001	.05	.32	.07	.16	<.001	<.001	7.54
556158	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.57	<.01	.004	<.001	.001	<.01	.83	.011	.001	.06	.37	.07	.20	<.001	<.001	7.50
556159	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.74	<.01	.003	<.001	.001	<.01	.69	.017	.001	.07	.37	.07	.17	<.001	<.001	7.82
556160	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	.63	<.01	.004	<.001	.001	<.01	.77	.017	.001	.07	.38	.07	.21	<.001	<.001	7.34
556161	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.77	<.01	.003	<.001	.001	<.01	.62	.019	.001	.10	.35	.08	.17	.001	<.001	8.00
556162	<.001	.007	<.01	<.01	<2	<.001	<.001	.04	.57	<.01	.004	<.001	.001	<.01	1.09	.014	.001	.09	.39	.05	.28	<.001	<.001	7.84
556163	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.73	<.01	.003	<.001	.001	<.01	.71	.020	.001	.07	.31	.06	.18	<.001	<.001	7.76
556164	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	.37	<.01	.004	<.001	.001	<.01	1.20	.019	.001	.04	.36	.05	.30	<.001	<.001	7.16
556165	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.70	<.01	.004	<.001	.001	<.01	.68	.017	.001	.10	.30	.06	.15	<.001	<.001	3.60
556166	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.66	<.01	.004	<.001	<.001	<.01	.75	.019	.001	.10	.32	.06	.15	<.001	<.001	3.82
556167	.002	.001	<.01	<.01	<2	<.001	<.001	.04	.78	<.01	.005	<.001	<.001	<.01	.73	.020	.001	.14	.39	.07	.13	<.001	<.001	7.34
556168	.001	.001	<.01	<.01	<2	<.001	<.001	.04	.70	<.01	.005	<.001	.001	<.01	.82	.020	.001	.12	.35	.06	.16	<.001	<.001	7.20
556169	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.69	<.01	.004	<.001	<.001	<.01	.73	.018	.001	.09	.34	.06	.15	<.001	<.001	7.12
556170	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.08	<.01	.006	<.001	<.001	<.01	2.64	.032	.001	.10	.53	.04	.24	<.001	<.001	4.90
556171	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.30	<.01	.007	<.001	.001	<.01	1.14	.041	.001	.28	.78	.06	.16	<.001	<.001	4.92
556172	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	1.08	<.01	.009	<.001	<.001	<.01	1.16	.036	.001	.24	.61	.06	.18	.001	<.001	7.62
556173	<.001	.007	<.01	<.01	<2	<.001	<.001	.04	1.34	<.01	.007	<.001	.001	<.01	1.59	.036	.001	.37	.48	.08	.20	<.001	<.001	7.98
556174	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.27	<.01	.007	<.001	<.001	<.01	2.15	.034	.001	.30	.47	.06	.23	<.001	<.001	7.96
STANDARD R-3	.075	.814	1.92	3.93	198	.509	.062	.07	29.56	.04	.003	.023	.038	<.01	1.30	.046	.013	1.08	1.13	.04	.44	.001	.002	-

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: MAY 14 2007 DATE REPORT MAILED: May 28/07

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.87	<.01	.007	<.001	<.001	<.01	.59	.075	.001	.64	1.05	.09	.51	<.001	<.001	-
556175 (pulp)	.028	.357	<.01	<.01	11	<.001	<.001	.03	1.07	<.01	.022	<.001	.002	<.01	1.22	.024	.002	.09	.48	.05	.28	<.001	<.001	-
556176	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.25	<.01	.007	<.001	<.001	<.01	2.34	.032	.001	.31	.45	.06	.21	<.001	<.001	7.62
556177	<.001	.002	<.01	<.01	<2	<.001	<.001	.05	1.30	<.01	.007	<.001	<.001	<.01	2.18	.024	<.001	.35	.47	.06	.22	<.001	<.001	7.44
556178	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.13	<.01	.006	<.001	<.001	<.01	1.86	.030	.001	.32	.49	.06	.12	<.001	<.001	7.28
556179	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.32	<.01	.008	<.001	.001	<.01	2.83	.035	.001	.52	.45	.05	.16	<.001	<.001	7.38
556180	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	1.36	<.01	.005	<.001	<.001	<.01	1.60	.046	.001	.19	.49	.05	.17	<.001	<.001	7.56
556181	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.44	<.01	.011	<.001	<.001	<.01	2.66	.042	<.001	.55	.45	.06	.19	<.001	<.001	7.48
RE 556181	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.42	<.01	.011	<.001	<.001	<.01	2.69	.041	<.001	.55	.44	.06	.19	<.001	<.001	-
RRE 556181	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.39	<.01	.011	<.001	<.001	<.01	2.75	.040	<.001	.56	.41	.06	.18	<.001	<.001	-
556182	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.48	<.01	.012	<.001	<.001	<.01	2.62	.040	<.001	.71	.44	.06	.16	<.001	<.001	7.84
556183	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.49	<.01	.009	<.001	<.001	<.01	2.31	.044	<.001	.49	.58	.07	.15	<.001	<.001	7.52
556184	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.37	<.01	.007	<.001	<.001	<.01	2.41	.047	.001	.38	.67	.06	.15	<.001	<.001	7.76
556185	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	.74	<.01	.019	<.001	.001	<.01	3.61	.061	<.001	.08	.95	.04	.15	<.001	<.001	3.52
556186	<.001	<.001	<.01	<.01	<2	<.001	<.001	.07	.76	<.01	.018	<.001	<.001	<.01	3.87	.059	<.001	.08	.91	.05	.16	<.001	<.001	3.28
556187	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.31	<.01	.010	<.001	<.001	<.01	1.66	.044	.001	.29	.51	.06	.12	<.001	<.001	7.54
556188	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.37	<.01	.009	<.001	.001	<.01	2.12	.036	<.001	.49	.50	.05	.13	<.001	<.001	7.40
556189	.001	.003	<.01	<.01	<2	<.001	<.001	.04	1.38	<.01	.007	<.001	<.001	<.01	2.25	.040	.001	.35	.54	.05	.16	<.001	<.001	7.82
556190	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.55	<.01	.008	<.001	<.001	<.01	1.47	.049	<.001	.38	.75	.07	.14	<.001	<.001	7.12
556191	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.43	<.01	.008	<.001	<.001	<.01	1.86	.041	<.001	.44	.57	.06	.14	<.001	<.001	8.26
556192	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.48	<.01	.008	<.001	<.001	<.01	2.12	.041	.001	.51	.49	.07	.15	<.001	<.001	7.50
556193	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.60	<.01	.006	<.001	<.001	<.01	1.45	.048	.001	.23	.53	.07	.13	<.001	<.001	7.66
STANDARD R-3	.074	.830	1.98	4.05	201	.546	.060	.07	31.49	.04	.003	.025	.036	<.01	1.31	.049	.011	1.07	1.13	.04	.42	.008	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9001 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A703145 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: Sean Bohle

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	.001	<.01	<.01	<2	<.001	.06	2.10	<.01	.008	<.001	<.001	<.01	.63	.080	.001	.63	1.18	.14	.59	<.001	<.001	-	
556194	<.001	<.001	<.01	<.01	<2	<.001	.04	1.43	<.01	.011	<.001	.001	<.01	1.91	.039	.001	.40	.60	.07	.18	<.001	<.001	7.6	
556195 (pulp)	.022	.466	.01	<.01	41	<.001	.02	1.24	<.01	.017	<.001	.012	<.01	.98	.027	.002	.07	.33	.04	.21	.001	<.001	-	
556196	<.001	.001	<.01	<.01	<2	<.001	.04	1.27	<.01	.008	<.001	<.001	<.01	1.73	.038	.001	.32	.40	.06	.18	<.001	<.001	7.8	
556197	<.001	<.001	<.01	<.01	<2	<.001	.04	1.45	<.01	.009	<.001	<.001	<.01	1.84	.044	.001	.32	.52	.06	.17	<.001	<.001	7.6	
556198	.001	.001	<.01	<.01	<2	<.001	.06	1.47	<.01	.011	<.001	.001	<.01	2.81	.026	<.001	.69	.38	.04	.15	<.001	<.001	7.7	
556199	<.001	<.001	<.01	<.01	<2	<.001	.05	1.45	<.01	.010	<.001	<.001	<.01	1.63	.045	<.001	.29	.54	.07	.18	<.001	<.001	7.1	
556200	<.001	.005	<.01	<.01	<2	<.001	.07	1.41	<.01	.009	<.001	.001	<.01	2.06	.047	<.001	.39	.61	.06	.21	<.001	<.001	7.2	
556201	<.001	.005	<.01	<.01	<2	<.001	.08	1.34	<.01	.006	<.001	<.001	<.01	1.84	.048	<.001	.34	.45	.05	.20	<.001	<.001	4.7	
556202	<.001	.002	<.01	<.01	<2	<.001	.07	1.40	<.01	.007	<.001	<.001	<.01	1.78	.047	<.001	.33	.50	.07	.22	<.001	<.001	4.9	
556203	<.001	.004	<.01	<.01	<2	<.001	.09	1.36	<.01	.007	<.001	<.001	<.01	2.08	.049	<.001	.27	.58	.06	.26	<.001	<.001	5.2	
556204	<.001	.016	<.01	<.01	<2	<.001	.13	1.13	<.01	.006	<.001	.001	<.01	2.14	.046	<.001	.27	.37	.04	.28	.001	<.001	5.1	
556205	<.001	.027	<.01	<.01	<2	<.001	.15	1.07	<.01	.007	<.001	.001	<.01	2.60	.058	<.001	.18	.43	.04	.38	<.001	<.001	2.3	
556206	<.001	.023	<.01	<.01	<2	<.001	.14	1.07	<.01	.007	<.001	<.001	<.01	2.45	.055	<.001	.17	.46	.04	.38	<.001	<.001	2.3	
556207	<.001	.010	<.01	<.01	<2	<.001	.06	.99	<.01	.005	<.001	<.001	<.01	1.09	.060	.001	.11	.30	.05	.23	<.001	<.001	5.3	
556208	<.001	.027	<.01	<.01	<2	<.001	.05	.56	<.01	.004	<.001	<.001	<.01	1.16	.023	.001	.07	.32	.05	.29	<.001	<.001	4.7	
556209	<.001	.020	<.01	<.01	<2	<.001	.05	.39	<.01	.005	<.001	.001	<.01	1.45	.015	<.001	.06	.36	.04	.34	<.001	<.001	5.4	
556210	<.001	.015	<.01	<.01	<2	<.001	.05	.39	<.01	.006	<.001	.001	<.01	1.63	.016	<.001	.06	.32	.03	.36	<.001	<.001	6.0	
556211	<.001	.001	<.01	<.01	<2	<.001	.05	.66	<.01	.004	<.001	<.001	<.01	1.10	.018	.001	.10	.33	.06	.23	<.001	<.001	7.8	
556212	.001	.005	<.01	<.01	<2	<.001	.05	.75	<.01	.004	<.001	<.001	<.01	1.16	.017	<.001	.10	.38	.06	.25	<.001	<.001	7.9	
556213	<.001	.001	<.01	<.01	<2	<.001	.06	.75	<.01	.004	<.001	<.001	<.01	1.24	.019	<.001	.13	.30	.05	.22	<.001	<.001	8.2	
556214	.001	.005	<.01	<.01	<2	<.001	.05	.62	<.01	.003	<.001	.001	<.01	1.01	.022	.001	.08	.32	.05	.24	<.001	<.001	7.5	
556215 (pulp)	.029	.354	<.01	<.01	11	<.001	.03	1.04	<.01	.022	<.001	.003	<.01	1.23	.024	.002	.09	.44	.04	.28	<.001	<.001	-	
556216	<.001	.005	<.01	<.01	<2	<.001	.04	.65	<.01	.003	<.001	<.001	<.01	.85	.021	<.001	.05	.31	.06	.24	<.001	<.001	5.1	
556217	<.001	.007	<.01	<.01	<2	<.001	.06	.85	<.01	.003	<.001	<.001	<.01	1.05	.035	.001	.10	.27	.05	.20	<.001	<.001	4.6	
556218	<.001	.009	<.01	<.01	<2	<.001	.05	.53	<.01	.003	<.001	.001	<.01	1.09	.014	<.001	.06	.29	.05	.24	<.001	<.001	5.1	
556219	.001	.003	<.01	<.01	<2	<.001	.03	.60	<.01	.002	<.001	<.001	<.01	.56	.013	<.001	.05	.26	.07	.19	<.001	<.001	4.8	
556220	.001	.007	<.01	<.01	<2	<.001	.04	.37	<.01	.003	<.001	<.001	<.01	.92	.010	<.001	.04	.24	.04	.22	<.001	<.001	5.1	
556221	<.001	.008	<.01	<.01	<2	<.001	.04	.35	<.01	.003	<.001	<.001	<.01	1.10	.008	<.001	.03	.30	.04	.26	<.001	<.001	5.6	
556222	.001	.009	<.01	<.01	<2	<.001	.04	.46	<.01	.003	<.001	<.001	<.01	.79	.010	<.001	.03	.34	.05	.26	<.001	<.001	5.6	
556223	<.001	.011	<.01	<.01	<2	<.001	.03	.37	<.01	.003	<.001	<.001	<.01	.84	.012	<.001	.04	.24	.04	.20	<.001	<.001	5.3	
556224	<.001	.013	<.01	<.01	<2	<.001	.04	.46	<.01	.002	<.001	<.001	<.01	.67	.013	<.001	.03	.26	.06	.21	<.001	<.001	5.0	
556225	<.001	.022	<.01	<.01	<2	<.001	.05	.38	<.01	.003	<.001	<.001	<.01	1.04	.015	<.001	.02	.35	.05	.31	<.001	<.001	2.9	
556226	<.001	.030	<.01	<.01	<2	<.001	.05	.29	<.01	.003	<.001	<.001	<.01	1.06	.015	<.001	.02	.26	.04	.27	<.001	<.001	3.2	
556227	.001	.029	<.01	<.01	<2	<.001	.05	.33	<.01	.004	<.001	.001	<.01	1.54	.009	<.001	.07	.34	.05	.29	.001	<.001	5.8	
556228	<.001	.003	<.01	<.01	<2	<.001	.04	.47	<.01	.003	<.001	<.001	<.01	.94	.012	<.001	.05	.32	.06	.24	<.001	<.001	6.0	
RE 556228	<.001	.003	<.01	<.01	<2	<.001	.03	.46	<.01	.003	<.001	<.001	<.01	.94	.013	<.001	.05	.31	.06	.23	<.001	<.001	-	
RRE 556228	<.001	.003	<.01	<.01	<2	<.001	.04	.47	<.01	.003	<.001	.001	<.01	.90	.012	.001	.05	.31	.06	.23	<.001	<.001	-	
STANDARD R-3	.077	.828	1.98	3.93	199	.529	.061	.07	31.96	.04	.003	.023	.038	<.01	1.30	.048	.012	1.06	1.07	.04	.44	.001	.002	-

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA ____ **DATE RECEIVED:** MAY 23 2007 **DATE REPORT MAILED:** JUN 01 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	2.00	<.01	.007	<.001	<.001	<.01	.59	.082	.001	.63	1.17	.12	.56	.001	<.001	-
556229	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	.22	<.01	.004	<.001	<.001	<.01	1.32	.011	.001	.02	.31	.06	.22	<.001	<.001	7.3
556230	<.001	.004	<.01	<.01	<2	<.001	<.001	.04	.57	<.01	.003	<.001	.001	<.01	1.04	.022	.001	.05	.35	.07	.24	<.001	<.001	7.5
556231	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	.58	<.01	.003	<.001	.001	<.01	.90	.020	<.001	.06	.28	.05	.19	.001	<.001	6.2
556232	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	.42	<.01	.004	<.001	<.001	<.01	1.37	.018	.001	.05	.41	.04	.30	<.001	<.001	5.9
556233	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.63	<.01	.004	<.001	<.001	<.01	1.03	.023	.001	.10	.33	.06	.18	<.001	<.001	7.7
556234	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.67	<.01	.004	<.001	<.001	<.01	.89	.020	<.001	.13	.39	.08	.15	.001	<.001	7.9
556235 (pulp)	.022	.461	.01	<.01	41	<.001	<.001	.02	1.23	<.01	.016	<.001	.011	<.01	1.01	.028	.002	.07	.34	.04	.20	<.001	<.001	-
556236	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.87	<.01	.004	<.001	<.001	<.01	.70	.028	.001	.14	.42	.09	.16	<.001	<.001	7.7
556237	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.71	<.01	.004	<.001	.001	<.01	.80	.026	.001	.11	.34	.06	.14	<.001	<.001	7.5
556238	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.51	<.01	.002	<.001	<.001	<.01	.74	.012	.001	.05	.29	.06	.19	<.001	<.001	7.3
556239	<.001	<.001	<.01	<.01	<2	<.001	<.001	.02	.44	<.01	.002	<.001	<.001	<.01	.52	.006	.001	.03	.27	.08	.18	<.001	<.001	7.6
556240	<.001	.008	<.01	<.01	<2	<.001	<.001	.03	.46	<.01	.002	<.001	.001	<.01	.52	.011	<.001	.04	.23	.06	.16	<.001	<.001	7.9
556241	<.001	.010	<.01	<.01	<2	<.001	<.001	.03	.38	<.01	.002	<.001	.001	<.01	.68	.010	.001	.02	.28	.05	.22	<.001	<.001	7.8
556242	<.001	.005	<.01	<.01	<2	<.001	<.001	.05	.35	<.01	.003	<.001	<.001	<.01	1.34	.011	<.001	.02	.34	.07	.28	<.001	<.001	7.5
556243	<.001	.004	<.01	<.01	<2	<.001	<.001	.05	.22	<.01	.005	<.001	.001	<.01	1.67	.008	<.001	.05	.35	.05	.31	<.001	<.001	7.7
RE 556243	<.001	.004	<.01	<.01	<2	<.001	<.001	.05	.22	<.01	.005	<.001	<.001	<.01	1.67	.009	<.001	.05	.35	.05	.31	<.001	<.001	-
RRE 556243	<.001	.004	<.01	<.01	<2	<.001	<.001	.05	.22	<.01	.005	<.001	<.001	<.01	1.64	.008	<.001	.05	.35	.05	.31	<.001	<.001	-
556244	<.001	.003	<.01	<.01	<2	<.001	<.001	.03	.21	<.01	.004	<.001	<.001	<.01	1.10	.009	<.001	.03	.35	.09	.24	<.001	<.001	7.1
556245	<.001	.015	<.01	<.01	<2	<.001	<.001	.04	.46	<.01	.004	<.001	.001	<.01	1.15	.007	<.001	.07	.37	.06	.27	<.001	<.001	3.8
556246	<.001	.018	<.01	<.01	<2	<.001	<.001	.04	.41	<.01	.004	<.001	<.001	<.01	1.13	.007	.001	.06	.32	.05	.24	<.001	<.001	3.6
556247	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.41	<.01	.003	<.001	<.001	<.01	.75	.012	.001	.03	.27	.05	.20	<.001	<.001	7.4
556248	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.61	<.01	.003	<.001	<.001	<.01	.63	.016	<.001	.05	.34	.07	.21	<.001	<.001	7.2
556249	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.64	<.01	.003	<.001	.001	<.01	.38	.019	.001	.07	.30	.08	.15	.001	<.001	4.9
556250	<.001	.005	<.01	<.01	<2	<.001	<.001	.03	.34	<.01	.003	<.001	<.001	<.01	.97	.013	.001	.03	.27	.05	.22	<.001	<.001	5.4
556251	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	.42	<.01	.005	<.001	.001	<.01	1.42	.011	<.001	.03	.39	.06	.33	<.001	<.001	5.2
556252	<.001	.002	<.01	<.01	<2	<.001	<.001	.03	.43	<.01	.003	<.001	<.001	<.01	.84	.021	.001	.03	.32	.06	.24	<.001	<.001	6.9
556253	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.35	<.01	.003	<.001	.001	<.01	.91	.016	.001	.03	.27	.05	.22	<.001	<.001	7.8
556254	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	.53	<.01	.003	<.001	<.001	<.01	.81	.013	.001	.04	.33	.07	.22	<.001	<.001	6.7
556255 (pulp)	.028	.339	<.01	<.01	12	<.001	<.001	.03	1.05	<.01	.022	<.001	.003	<.01	1.20	.024	.002	.09	.47	.04	.27	<.001	<.001	-
556256	<.001	.005	<.01	<.01	<2	<.001	<.001	.04	.38	<.01	.004	<.001	.002	<.01	1.25	.012	.001	.04	.33	.05	.25	<.001	<.001	8.0
556257	.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.52	<.01	.003	<.001	<.001	<.01	.60	.017	.001	.07	.27	.06	.16	<.001	<.001	8.0
556258	.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.60	<.01	.003	<.001	<.001	<.01	.61	.015	.001	.05	.32	.07	.18	<.001	<.001	7.6
556259	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.62	<.01	.003	<.001	<.001	<.01	.67	.013	.001	.06	.30	.06	.16	<.001	<.001	7.4
STANDARD R-3	.077	.812	1.95	3.96	209	.553	.063	.07	31.63	.04	.003	.024	.039	<.01	1.38	.050	.013	1.08	1.11	.04	.43	.004	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data B FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9001 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A703250

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: Meridian Mapping

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	.01	<2	.001	<.001	.05	1.86	<.01	.006	<.001	<.001	<.01	.56	.072	.001	.67	1.09	.13	.60	<.001	<.001	-
556260	<.001	.017	.01	.01	<2	<.001	<.001	.06	1.25	<.01	.011	<.001	<.001	<.01	1.87	.043	.001	.19	.68	.10	.31	<.001	<.001	3.8
556261	<.001	.144	<.01	<.01	<2	<.001	<.001	.08	1.09	<.01	.010	<.001	<.001	<.01	2.17	.043	.001	.23	.54	.05	.33	<.001	<.001	7.4
556262	<.001	.003	<.01	<.01	<2	<.001	<.001	.05	1.25	<.01	.010	<.001	<.001	<.01	1.82	.044	.001	.26	.58	.08	.29	.001	<.001	6.6
556263	<.001	.301	<.01	<.01	7	<.001	<.001	.10	.92	<.01	.011	<.001	<.001	<.01	2.71	.037	<.001	.18	.50	.03	.38	.001	<.001	7.4
556264	<.001	.262	<.01	<.01	5	<.001	<.001	.12	.81	<.01	.015	<.001	<.001	<.01	3.61	.036	<.001	.15	.48	.02	.43	<.001	<.001	4.2
556265	<.001	.040	<.01	<.01	<2	<.001	<.001	.08	.83	<.01	.015	<.001	<.001	<.01	3.04	.035	<.001	.19	.51	.02	.43	.001	<.001	3.3
556266	<.001	.047	<.01	<.01	<2	<.001	<.001	.09	.89	<.01	.015	<.001	<.001	<.01	3.11	.035	<.001	.19	.54	.02	.43	.001	<.001	3.1
556267	<.001	.030	<.01	<.01	<2	<.001	<.001	.08	.84	<.01	.012	<.001	<.001	<.01	2.83	.037	<.001	.28	.49	.03	.37	.001	<.001	6.7
556268	.005	.064	<.01	<.01	<2	<.001	<.001	.10	1.00	<.01	.010	<.001	<.001	<.01	2.57	.042	<.001	.24	.58	.05	.39	<.001	<.001	6.1
556269	<.001	.006	<.01	<.01	<2	<.001	<.001	.06	1.26	<.01	.011	<.001	<.001	<.01	1.84	.045	.001	.23	.56	.07	.23	<.001	<.001	6.2
556270	<.001	.042	<.01	<.01	<2	<.001	<.001	.08	1.05	<.01	.010	<.001	<.001	<.01	2.20	.036	.001	.16	.60	.06	.36	<.001	<.001	7.1
556271	.002	.075	<.01	<.01	<2	<.001	<.001	.07	.45	<.01	.010	<.001	<.001	<.01	2.30	.025	<.001	.06	.39	.03	.39	<.001	<.001	5.3
556272	<.001	.019	<.01	<.01	<2	<.001	<.001	.09	.48	<.01	.007	<.001	<.001	<.01	2.06	.013	.001	.06	.51	.04	.41	<.001	<.001	6.2
556273	<.001	.077	<.01	<.01	<2	<.001	<.001	.07	.79	<.01	.012	<.001	<.001	<.01	2.09	.020	<.001	.15	.45	.04	.32	<.001	<.001	6.3
556274	<.001	.005	<.01	<.01	<2	<.001	<.001	.07	1.08	<.01	.012	<.001	<.001	<.01	2.28	.029	.001	.15	.56	.05	.35	<.001	<.001	6.9
556275 (pulp)	.022	.466	.01	<.01	40	<.001	<.001	.02	1.20	<.01	.017	<.001	.010	<.01	.97	.027	.002	.07	.38	.06	.24	<.001	<.001	-
556276	<.001	.016	<.01	<.01	<2	<.001	<.001	.05	.55	<.01	.010	<.001	<.001	<.01	1.96	.020	<.001	.11	.46	.05	.33	<.001	<.001	6.6
556277	<.001	.005	<.01	<.01	<2	<.001	<.001	.07	.88	<.01	.012	<.001	<.001	<.01	2.71	.033	.001	.21	.54	.06	.33	<.001	<.001	6.2
556278	<.001	.052	<.01	<.01	<2	<.001	<.001	.10	.59	<.01	.012	<.001	<.001	<.01	2.76	.033	<.001	.16	.39	.03	.29	.001	<.001	7.2
556279	<.001	.018	<.01	<.01	<2	<.001	<.001	.10	.78	<.01	.012	<.001	<.001	<.01	2.72	.037	<.001	.16	.54	.04	.36	<.001	<.001	6.9
556280	<.001	.137	<.01	<.01	<2	<.001	<.001	.10	.66	<.01	.013	<.001	<.001	<.01	2.94	.036	<.001	.14	.43	.01	.34	<.001	<.001	6.8
556281	<.001	.031	<.01	<.01	<2	<.001	<.001	.09	.66	<.01	.012	<.001	<.001	<.01	2.82	.033	<.001	.14	.48	.01	.38	<.001	<.001	6.9
556282	<.001	.001	<.01	<.01	<2	<.001	<.001	.10	.80	<.01	.016	<.001	<.001	<.01	3.47	.042	<.001	.24	.46	.01	.40	<.001	<.001	6.8
RE 556282	<.001	.001	<.01	<.01	<2	<.001	<.001	.10	.79	<.01	.016	<.001	<.001	<.01	3.47	.042	<.001	.24	.45	.01	.39	<.001	<.001	-
RRE 556282	<.001	.001	<.01	<.01	<2	<.001	<.001	.11	.82	<.01	.017	<.001	<.001	<.01	3.53	.042	<.001	.24	.45	.01	.38	<.001	<.001	-
556283	<.001	.016	<.01	<.01	<2	<.001	<.001	.09	.88	<.01	.019	<.001	<.001	<.01	3.29	.034	<.001	.23	.51	.01	.36	<.001	<.001	7.0
556284	.001	.390	<.01	<.01	6	<.001	<.001	.09	.84	<.01	.011	<.001	<.001	<.01	2.41	.040	.001	.15	.55	.01	.42	<.001	<.001	6.5
556285	.001	.228	<.01	<.01	3	<.001	<.001	.07	.66	<.01	.011	<.001	<.001	<.01	2.39	.042	<.001	.11	.45	.01	.37	<.001	<.001	3.0
556286	.001	.148	<.01	<.01	<2	<.001	<.001	.08	.77	<.01	.014	<.001	<.001	<.01	2.43	.043	<.001	.13	.53	.02	.42	<.001	<.001	3.6
556287	<.001	.015	<.01	<.01	<2	<.001	<.001	.09	.98	<.01	.018	<.001	<.001	<.01	2.83	.043	<.001	.31	.57	.02	.40	<.001	<.001	5.3
556288	<.001	.001	<.01	<.01	<2	<.001	<.001	.08	.99	<.01	.020	<.001	<.001	<.01	3.03	.045	<.001	.30	.56	.03	.38	<.001	<.001	4.3
556289	<.001	.004	<.01	<.01	<2	<.001	<.001	.07	.78	<.01	.017	<.001	<.001	<.01	2.73	.040	<.001	.23	.45	.02	.33	<.001	<.001	4.7
556290	<.001	.001	<.01	<.01	<2	<.001	<.001	.07	1.23	<.01	.014	<.001	<.001	<.01	2.37	.044	.001	.32	.60	.06	.30	<.001	<.001	7.7
556291	<.001	.006	<.01	<.01	<2	<.001	<.001	.08	1.03	<.01	.013	<.001	<.001	<.01	2.50	.042	.001	.23	.49	.04	.33	<.001	<.001	7.6
556292	<.001	.018	<.01	<.01	<2	<.001	<.001	.08	1.05	<.01	.013	<.001	<.001	<.01	3.15	.038	<.001	.24	.52	.05	.40	<.001	<.001	7.1
556293	<.001	.001	<.01	<.01	<2	<.001	<.001	.08	1.26	<.01	.017	<.001	<.001	<.01	3.15	.042	<.001	.38	.55	.05	.38	<.001	<.001	[illegible]
556294	<.001	.003	<.01	<.01	<2	<.001	<.001	.06	1.16	<.01	.011	<.001	<.001	<.01	2.01	.046	<.001	.36	.62	.06	.24	<.001	[illegible]	[illegible]
STANDARD R-3	.076	.816	1.90	3.96	193	.522	.060	.07	30.20	.04	.003	.024	.036	<.01	1.31	.047	.012	1.03	1.06	.04	.42	.002	-	-

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___ DATE RECEIVED: MAY 25 2007 DATE REPORT MAILED: Jun. 11. 2007

BRITISH COLUMBIA CERTIFIED ASSAYER Jacky Wang

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A703250 Page 2

ACME ANALYTICAL

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.78	<.01	.006	<.001	<.001	<.01	.47	.070	.001	.59	1.01	.11	.56	<.001	<.001	-
556295 (pulp)	.029	.345	<.01	<.01	12	<.001	<.001	.03	1.01	<.01	.022	<.001	.002	<.01	1.19	.024	.002	.09	.45	.05	.29	<.001	<.001	-
556296	<.001	.001	<.01	<.01	<2	<.001	.001	.08	1.06	<.01	.022	<.001	<.001	<.01	2.83	.051	<.001	.42	.82	.05	.34	<.001	<.001	7.2
556297	<.001	.005	<.01	<.01	<2	<.001	<.001	.05	1.46	<.01	.011	<.001	<.001	<.01	1.34	.049	.001	.48	.77	.07	.15	<.001	<.001	6.9
556298	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.62	<.01	.011	<.001	<.001	<.01	.93	.044	<.001	.43	.91	.12	.11	<.001	<.001	7.1
556299	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.68	<.01	.012	<.001	<.001	<.01	1.10	.049	.001	.49	.97	.10	.10	<.001	<.001	7.5
556300	<.001	.006	<.01	<.01	<2	<.001	<.001	.06	1.38	<.01	.014	<.001	<.001	<.01	1.93	.047	.001	.41	.73	.07	.23	<.001	<.001	7.7
RE 556300	<.001	.006	<.01	<.01	<2	<.001	<.001	.06	1.39	<.01	.014	<.001	<.001	<.01	1.93	.048	.001	.43	.76	.07	.23	<.001	<.001	-
RRE 556300	<.001	.005	<.01	<.01	<2	<.001	<.001	.06	1.27	<.01	.013	<.001	<.001	<.01	1.87	.045	<.001	.41	.69	.06	.20	<.001	<.001	-
556301	<.001	.010	<.01	<.01	<2	<.001	<.001	.06	1.38	<.01	.013	<.001	.001	<.01	1.82	.048	.001	.43	.63	.08	.23	<.001	<.001	7.6
556302	<.001	.007	<.01	<.01	<2	<.001	<.001	.05	.55	<.01	.009	<.001	<.001	<.01	2.07	.026	<.001	.11	.42	.05	.34	<.001	<.001	6.9
556303	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.65	<.01	.011	<.001	<.001	<.01	1.75	.026	.001	.12	.43	.05	.34	<.001	<.001	7.5
556304	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.72	<.01	.010	<.001	<.001	<.01	1.57	.026	<.001	.11	.39	.06	.25	<.001	<.001	7.2
556305	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	.71	<.01	.010	<.001	<.001	<.01	2.09	.028	<.001	.10	.41	.05	.34	<.001	<.001	3.5
556306	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.64	<.01	.010	<.001	<.001	<.01	2.18	.027	<.001	.09	.38	.05	.33	<.001	<.001	3.6
556307	<.001	.004	<.01	<.01	<2	<.001	<.001	.04	.61	<.01	.009	<.001	<.001	<.01	1.90	.025	<.001	.09	.41	.05	.32	<.001	<.001	6.7
556308	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	.58	<.01	.008	<.001	<.001	<.01	1.40	.024	<.001	.13	.44	.06	.23	<.001	<.001	7.0
556309	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	.95	<.01	.012	<.001	<.001	<.01	1.77	.031	.001	.22	.51	.05	.24	<.001	<.001	7.1
556310	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	1.42	<.01	.014	<.001	<.001	<.01	1.34	.048	<.001	.45	.78	.07	.15	<.001	<.001	6.8
556311	<.001	.013	<.01	<.01	<2	<.001	<.001	.06	1.09	<.01	.005	<.001	<.001	<.01	1.58	.028	.001	.32	.70	.06	.26	<.001	<.001	6.2
556312	<.001	.007	<.01	<.01	<2	<.001	<.001	.03	.51	<.01	.004	<.001	.001	<.01	1.16	.016	.001	.13	.48	.05	.27	<.001	<.001	6.9
556313	<.001	.023	<.01	<.01	<2	<.001	<.001	.06	1.16	<.01	.004	<.001	<.001	<.01	1.09	.025	.001	.38	.66	.06	.26	<.001	<.001	7.0
556314	<.001	.180	<.01	<.01	<2	<.001	<.001	.08	1.15	<.01	.005	<.001	<.001	<.01	1.76	.027	.001	.36	.59	.04	.27	<.001	<.001	4.6
556315 (pulp)	.021	.465	.01	<.01	40	<.001	<.001	.02	1.14	<.01	.016	<.001	.009	<.01	.97	.026	.002	.06	.32	.04	.20	<.001	<.001	-
556316	<.001	.121	<.01	<.01	2	<.001	<.001	.07	.74	<.01	.005	<.001	.001	<.01	1.82	.022	.001	.14	.43	.04	.27	<.001	<.001	5.1
556317	<.001	.535	<.01	<.01	4	<.001	<.001	.12	.86	<.01	.006	<.001	.001	<.01	2.64	.040	<.001	.08	.40	.02	.36	<.001	<.001	5.3
556318	.003	.941	<.01	<.01	6	<.001	<.001	.13	.55	<.01	.005	<.001	<.001	<.01	2.46	.019	.001	.05	.42	.01	.39	.001	<.001	4.6
556319	<.001	.141	<.01	<.01	<2	<.001	<.001	.13	.44	<.01	.006	<.001	.001	<.01	2.38	.016	.001	.05	.38	.03	.31	<.001	<.001	4.7
556320	<.001	.355	<.01	<.01	3	<.001	<.001	.16	1.14	<.01	.006	<.001	<.001	<.01	2.68	.030	.001	.22	.66	.02	.39	<.001	<.001	5.5
556321	<.001	.537	<.01	<.01	5	<.001	<.001	.14	.67	<.01	.006	<.001	.001	<.01	2.57	.024	.001	.11	.48	.02	.39	<.001	<.001	5.4
556322	<.001	.179	<.01	<.01	<2	<.001	<.001	.10	.90	<.01	.006	<.001	<.001	<.01	1.79	.027	.001	.18	.56	.05	.31	<.001	<.001	7.0
556323	<.001	.186	<.01	<.01	2	<.001	<.001	.10	1.50	<.01	.004	<.001	.001	<.01	1.55	.045	.001	.35	.69	.05	.24	<.001	<.001	6.1
556324	.009	.271	<.01	<.01	2	<.001	<.001	.13	1.28	<.01	.004	<.001	.001	<.01	1.90	.044	.001	.25	.65	.04	.34	.001	<.001	5.7
556325	<.001	.149	<.01	<.01	<2	<.001	<.001	.12	1.00	<.01	.005	<.001	<.001	<.01	2.07	.028	.001	.25	.62	.04	.29	<.001	<.001	2.7
556326	<.001	.110	<.01	<.01	<2	<.001	<.001	.10	1.00	<.01	.005	<.001	.001	<.01	1.81	.029	.001	.23	.63	.04	.30	<.001	<.001	2.2
556327	<.001	.463	<.01	<.01	3	<.001	<.001	.07	.70	<.01	.004	<.001	.001	<.01	1.44	.019	<.001	.16	.54	.04	.31	<.001	<.001	5.7
556328	<.001	.152	<.01	<.01	<2	<.001	<.001	.06	.67	<.01	.005	<.001	.001	<.01	1.38	.018	.001	.14	.48	.06	.27	<.001	<.001	5.6
556329	<.001	.096	<.01	<.01	<2	<.001	<.001	.04	.59	<.01	.006	<.001	.001	<.01	1.51	.022	<.001	.09	.39	.05	.25	<.001	<.001	4.9
STANDARD R-3	.077	.807	1.96	3.94	198	.535	.061	.07	30.39	.04	.003	.025	.038	<.01	1.28	.047	.012	1.01	1.05	.04	.43	.010	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ____

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.88	<.01	.005	<.001	.001	<.01	.49	.074	.001	.64	.93	.08	.54	<.001	<.001	-
556330	<.001	.018	<.01	<.01	<2	<.001	<.001	.06	1.31	<.01	.006	<.001	<.001	<.01	1.71	.041	.001	.31	.60	.05	.23	<.001	<.001	5.7
556331	<.001	.031	<.01	<.01	<2	<.001	.001	.06	1.39	<.01	.005	<.001	.001	<.01	1.51	.043	<.001	.36	.63	.05	.22	<.001	<.001	5.3
556332	<.001	.084	<.01	<.01	<2	<.001	<.001	.07	1.57	<.01	.004	<.001	<.001	<.01	1.27	.042	<.001	.41	.74	.06	.17	<.001	<.001	6.7
556333	<.001	.103	<.01	<.01	<2	<.001	<.001	.08	1.49	<.01	.004	<.001	.001	<.01	1.64	.045	<.001	.38	.68	.04	.20	<.001	<.001	6.0
556334	<.001	.114	<.01	<.01	<2	<.001	<.001	.08	1.38	<.01	.004	<.001	<.001	<.01	1.78	.041	.001	.32	.67	.04	.26	<.001	<.001	7.1
556335 (pulp)	.029	.350	<.01	<.01	11	<.001	<.001	.03	1.05	<.01	.021	<.001	.003	<.01	1.23	.024	.002	.09	.39	.04	.27	<.001	<.001	-
556336	<.001	.073	<.01	<.01	<2	<.001	<.001	.07	1.45	<.01	.005	<.001	<.001	<.01	1.63	.042	<.001	.37	.69	.05	.19	<.001	<.001	7.1
556337	<.001	.077	<.01	<.01	<2	<.001	<.001	.05	1.04	<.01	.005	<.001	<.001	<.01	1.12	.027	.001	.25	.60	.07	.20	<.001	<.001	6.3
556338	<.001	.072	<.01	<.01	<2	<.001	<.001	.04	.90	<.01	.004	<.001	<.001	<.01	1.25	.026	<.001	.21	.54	.04	.16	<.001	<.001	7.7
556339	<.001	.074	<.01	<.01	<2	<.001	<.001	.05	1.53	<.01	.006	<.001	<.001	<.01	1.08	.041	.001	.42	.83	.06	.16	<.001	<.001	7.5
556340	<.001	.133	<.01	<.01	<2	<.001	.001	.05	1.61	<.01	.005	<.001	<.001	<.01	1.25	.042	<.001	.42	.81	.04	.15	<.001	<.001	7.3
RE 556340	<.001	.127	<.01	<.01	<2	<.001	<.001	.05	1.56	<.01	.005	<.001	<.001	<.01	1.24	.040	<.001	.40	.77	.04	.14	<.001	<.001	-
RRE 556340	<.001	.133	<.01	<.01	<2	<.001	.001	.05	1.66	<.01	.005	<.001	<.001	<.01	1.27	.040	.001	.40	.86	.06	.17	<.001	<.001	-
556341	<.001	.104	<.01	<.01	<2	<.001	.001	.05	1.63	<.01	.006	<.001	.001	<.01	1.22	.043	<.001	.44	.89	.05	.16	<.001	<.001	7.4
556342	<.001	.131	<.01	<.01	<2	<.001	.001	.05	1.55	<.01	.006	<.001	<.001	<.01	1.11	.042	.001	.44	.88	.05	.16	<.001	<.001	7.5
556343	<.001	.097	<.01	<.01	<2	<.001	<.001	.06	1.57	<.01	.005	<.001	<.001	<.01	1.14	.041	<.001	.43	.76	.05	.14	<.001	<.001	6.5
556344	<.001	.127	<.01	<.01	<2	<.001	.001	.06	1.68	<.01	.004	<.001	<.001	<.01	1.09	.041	<.001	.41	.74	.05	.16	<.001	<.001	7.6
556345	<.001	.073	<.01	<.01	<2	<.001	<.001	.07	1.49	<.01	.004	<.001	<.001	<.01	1.34	.038	<.001	.39	.65	.04	.17	<.001	<.001	3.7
556346	<.001	.112	<.01	<.01	<2	<.001	<.001	.07	1.56	<.01	.005	<.001	<.001	<.01	1.35	.039	.001	.39	.71	.05	.20	<.001	<.001	3.4
556347	<.001	.104	<.01	<.01	<2	<.001	<.001	.07	1.38	<.01	.007	<.001	<.001	<.01	2.60	.041	<.001	.26	.66	.03	.22	<.001	<.001	7.3
556348	.003	.246	<.01	<.01	<2	<.001	<.001	.07	1.16	<.01	.010	<.001	<.001	<.01	2.84	.038	<.001	.20	.56	.02	.27	<.001	<.001	6.4
556349	<.001	.147	<.01	<.01	<2	<.001	<.001	.07	1.25	<.01	.009	<.001	<.001	<.01	2.22	.039	<.001	.27	.62	.03	.26	<.001	<.001	7.0
556350	<.001	.065	<.01	<.01	<2	<.001	<.001	.07	1.36	<.01	.008	<.001	<.001	<.01	2.01	.039	.001	.27	.69	.04	.32	<.001	<.001	6.0
556351	<.001	.031	<.01	<.01	<2	<.001	<.001	.06	1.28	<.01	.009	<.001	<.001	<.01	1.49	.040	<.001	.33	.56	.04	.21	<.001	<.001	6.1
556352	<.001	.009	<.01	<.01	<2	<.001	<.001	.05	1.30	<.01	.008	<.001	<.001	<.01	1.67	.039	.001	.33	.62	.05	.24	<.001	<.001	6.0
556353	<.001	.014	<.01	<.01	<2	<.001	<.001	.05	1.30	<.01	.009	<.001	<.001	<.01	1.83	.044	<.001	.30	.50	.05	.19	<.001	<.001	6.7
STANDARD R-3	.076	.799	1.95	3.98	199	.545	.063	.07	31.17	.04	.003	.026	.038	<.01	1.28	.048	.011	1.03	1.00	.03	.43	.006	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A703539 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: Meridian Mapping

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.92	<.01	.008	<.001	.002	<.01	.55	.073	.001	.61	1.23	.17	.60	<.001	<.001	-
556354	<.001	.074	<.01	<.01	<2	<.001	<.001	.06	.94	<.01	.017	<.001	<.001	<.01	2.79	.033	<.001	.16	.57	.03	.36	<.001	<.001	6.30
556355 (pulp)	.021	.465	.01	<.01	41	<.001	<.001	.02	1.22	<.01	.016	<.001	.011	<.01	.97	.029	.002	.07	.37	.05	.23	<.001	.001	-
556356	<.001	.185	<.01	<.01	<2	<.001	<.001	.04	.41	<.01	.012	<.001	.001	<.01	1.64	.010	<.001	.05	.47	.05	.37	<.001	<.001	4.10
556357	.001	.103	<.01	<.01	<2	<.001	<.001	.03	.58	<.01	.009	<.001	<.001	<.01	.99	.011	<.001	.07	.44	.06	.24	<.001	<.001	1.20
556358	.003	.139	<.01	<.01	<2	<.001	<.001	.04	1.43	<.01	.012	<.001	.001	<.01	1.21	.038	<.001	.19	.60	.06	.26	<.001	<.001	3.70
556359	.004	.171	<.01	<.01	<2	<.001	<.001	.07	1.11	<.01	.011	<.001	.002	<.01	2.15	.034	<.001	.18	.63	.04	.43	<.001	<.001	5.40
556360	<.001	.095	<.01	<.01	<2	<.001	<.001	.05	1.32	<.01	.014	<.001	.001	<.01	1.36	.035	<.001	.31	.75	.07	.20	<.001	<.001	4.80
RE 556360	<.001	.095	<.01	<.01	<2	<.001	<.001	.04	1.33	<.01	.014	<.001	.001	<.01	1.34	.037	<.001	.31	.74	.07	.20	<.001	<.001	-
RRE 556360	<.001	.117	<.01	<.01	<2	<.001	<.001	.04	1.36	<.01	.014	<.001	<.001	<.01	1.36	.036	<.001	.31	.79	.08	.21	<.001	<.001	-
556361	<.001	.364	<.01	<.01	<2	<.001	<.001	.06	1.40	<.01	.008	<.001	.001	<.01	1.75	.040	<.001	.28	.76	.06	.32	<.001	<.001	5.40
556362	<.001	.095	<.01	<.01	<2	<.001	<.001	.05	1.55	<.01	.009	<.001	.001	<.01	1.25	.041	<.001	.40	.96	.10	.22	<.001	<.001	5.30
556363	<.001	.343	<.01	<.01	<2	<.001	<.001	.05	1.39	<.01	.008	<.001	.001	<.01	1.67	.043	<.001	.25	.68	.06	.32	<.001	<.001	2.80
556364	<.001	.171	<.01	<.01	<2	<.001	<.001	.05	1.36	<.01	.009	<.001	<.001	<.01	1.59	.039	<.001	.30	.78	.08	.31	<.001	<.001	4.10
556365	<.001	.076	<.01	<.01	<2	<.001	<.001	.07	1.50	<.01	.014	<.001	<.001	<.01	1.75	.042	<.001	.41	.91	.08	.19	<.001	<.001	3.00
556366	<.001	.054	<.01	<.01	<2	<.001	<.001	.06	1.47	<.01	.012	<.001	.002	<.01	1.48	.042	<.001	.41	.92	.10	.16	<.001	<.001	2.90
556367	<.001	.030	<.01	<.01	<2	<.001	<.001	.07	1.46	<.01	.013	<.001	<.001	<.01	1.78	.040	<.001	.40	.90	.09	.14	<.001	<.001	6.60
556368	<.001	.038	<.01	<.01	<2	<.001	.001	.10	3.02	<.01	.009	<.001	.001	<.01	1.27	.071	.001	.74	1.17	.11	.16	<.001	<.001	6.50
556369	<.001	.017	<.01	<.01	<2	<.001	.001	.10	2.25	<.01	.012	<.001	.001	<.01	1.35	.065	<.001	.62	1.07	.11	.18	<.001	<.001	7.20
556370	<.001	.009	<.01	<.01	<2	<.001	<.001	.07	1.41	<.01	.010	<.001	.002	<.01	1.50	.045	<.001	.31	.80	.10	.21	<.001	.001	4.50
556371	<.001	.027	<.01	<.01	<2	<.001	<.001	.05	1.54	<.01	.024	<.001	.001	<.01	1.85	.044	<.001	.33	.87	.06	.19	<.001	<.001	4.00
556372	<.001	.057	<.01	<.01	<2	<.001	<.001	.07	1.23	<.01	.016	<.001	.002	<.01	2.73	.046	<.001	.18	.66	.04	.32	<.001	<.001	4.90
556373	<.001	.059	<.01	<.01	<2	<.001	<.001	.07	1.58	<.01	.012	<.001	.001	<.01	1.65	.046	.001	.40	.88	.08	.25	<.001	<.001	6.10
556374	<.001	.045	<.01	<.01	<2	<.001	<.001	.06	1.68	<.01	.015	<.001	<.001	<.01	1.10	.043	<.001	.45	1.11	.15	.18	<.001	<.001	6.10
556375 (pulp)	.029	.343	<.01	<.01	11	<.001	<.001	.03	1.03	<.01	.022	<.001	.004	<.01	1.17	.025	.002	.09	.50	.06	.31	<.001	<.001	-
556376	<.001	.009	<.01	<.01	<2	<.001	<.001	.05	1.36	<.01	.036	<.001	.001	<.01	2.29	.041	<.001	.40	1.30	.07	.14	<.001	<.001	7.40
556377	<.001	.010	<.01	<.01	<2	<.001	<.001	.05	1.56	<.01	.023	<.001	.001	<.01	1.15	.042	<.001	.46	1.16	.13	.17	<.001	<.001	6.80
556378	<.001	.025	<.01	<.01	<2	<.001	<.001	.06	1.53	<.01	.013	<.001	.001	<.01	1.48	.042	.001	.39	1.01	.11	.20	<.001	<.001	7.50
556379	<.001	.006	<.01	<.01	<2	<.001	<.001	.04	.65	<.01	.006	<.001	<.001	<.01	1.47	.021	<.001	.16	.63	.07	.27	<.001	<.001	3.70
556380	<.001	.012	<.01	<.01	<2	<.001	<.001	.04	.56	<.01	.007	<.001	.001	<.01	1.59	.018	<.001	.17	.90	.10	.32	<.001	<.001	6.50
556381	<.001	.016	<.01	<.01	<2	<.001	<.001	.06	.93	<.01	.007	<.001	<.001	<.01	1.90	.032	<.001	.27	.71	.08	.25	<.001	<.001	5.00
556382	.001	.003	<.01	<.01	<2	<.001	<.001	.13	.85	<.01	.014	<.001	.001	<.01	5.29	.038	<.001	.25	.76	.02	.34	<.001	<.001	4.50
556383	<.001	.002	<.01	<.01	<2	<.001	<.001	.08	1.04	<.01	.008	<.001	.001	<.01	2.43	.041	<.001	.34	.74	.06	.26	<.001	<.001	5.70
556384	<.001	<.001	<.01	<.01	<2	<.001	<.001	.07	1.18	<.01	.010	<.001	.001	<.01	2.48	.051	<.001	.30	.74	.05	.28	<.001	<.001	6.50
556385	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.21	<.01	.008	<.001	.001	<.01	1.96	.041	<.001	.34	.71	.06	.21	<.001	<.001	2.80
556386	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.32	<.01	.009	<.001	.001	<.01	1.65	.040	<.001	.34	.76	.08	.17	<.001	<.001	3.00
556387	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.23	<.01	.008	<.001	.001	<.01	1.64	.039	.001	.35	.88	.09	.19	<.001	<.001	7.40
556388	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.85	<.01	.008	<.001	.001	<.01	1.93	.028	<.001	.20	.63	.07	.24	<.001	<.001	7.00
STANDARD R-3	.077	.811	1.99	4.05	199	.545	.060	.07	30.55	.04	.003	.024	.038	<.01	1.30	.050	.012	1.04	1.11	.04	.44	<.001	.002	-

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ____ DATE RECEIVED: JUN 5 2007 DATE REPORT MAILED: June 19/07

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.89	<.01	.008	<.001	.001	<.01	.59	.074	.001	.58	1.15	.16	.58	<.001	<.001	-
556389	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.22	<.01	.012	<.001	.001	<.01	1.66	.037	.001	.37	1.30	.13	.19	<.001	<.001	7.30
556390	<.001	.003	<.01	<.01	<2	<.001	<.001	.05	1.06	<.01	.010	<.001	<.001	<.01	1.69	.036	.001	.31	1.23	.16	.33	<.001	<.001	5.70
556391	<.001	.003	<.01	<.01	<2	<.001	<.001	.05	1.05	<.01	.010	<.001	.001	<.01	1.79	.036	.001	.29	.94	.09	.23	<.001	<.001	7.50
556392	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.20	<.01	.014	<.001	.002	<.01	2.04	.040	.001	.33	1.31	.16	.35	<.001	<.001	6.40
556393	<.001	.001	<.01	<.01	<2	<.001	<.001	.06	1.07	<.01	.013	<.001	.001	<.01	2.18	.041	.001	.31	.94	.07	.29	<.001	<.001	6.20
556394	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.17	<.01	.012	<.001	.001	<.01	1.95	.044	.001	.31	1.05	.08	.31	<.001	<.001	7.10
556395 (pulp)	.021	.460	.01	<.01	38	<.001	<.001	.02	1.20	<.01	.016	<.001	.009	<.01	.95	.026	.002	.06	.35	.05	.22	<.001	<.001	-
556396	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.11	<.01	.014	<.001	.001	<.01	2.03	.038	.001	.27	1.11	.10	.33	<.001	<.001	7.60
556397	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.25	<.01	.017	<.001	<.001	<.01	2.01	.040	.001	.35	.95	.07	.26	<.001	<.001	6.70
556398	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.24	<.01	.014	<.001	<.001	<.01	1.74	.039	.001	.34	.95	.08	.23	<.001	<.001	6.90
556399	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.06	<.01	.013	<.001	.002	<.01	1.86	.033	.001	.28	.90	.09	.26	<.001	<.001	6.10
556400	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.26	<.01	.012	<.001	.001	<.01	1.24	.038	<.001	.37	.83	.08	.24	<.001	<.001	4.90
RE 556400	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.27	<.01	.012	<.001	.001	<.01	1.28	.040	<.001	.37	.84	.07	.23	<.001	<.001	-
RRE 556400	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.28	<.01	.012	<.001	.001	<.01	1.24	.040	.001	.38	.80	.07	.22	<.001	<.001	-
556401	<.001	.002	<.01	<.01	<2	<.001	<.001	.05	.98	<.01	.020	<.001	.001	<.01	1.70	.038	<.001	.36	1.22	.08	.29	<.001	<.001	5.90
556402	<.001	.005	<.01	<.01	<2	<.001	<.001	.06	1.02	<.01	.009	<.001	.002	<.01	1.90	.035	<.001	.24	.68	.06	.27	<.001	<.001	6.40
556403	<.001	<.001	<.01	<.01	<2	<.001	<.001	.03	.84	<.01	.012	<.001	.001	<.01	1.16	.028	<.001	.26	.95	.11	.20	<.001	<.001	7.20
556404	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.86	<.01	.014	<.001	.002	<.01	1.98	.033	.001	.15	.66	.06	.30	<.001	<.001	5.70
556405	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	.99	<.01	.016	<.001	.001	<.01	2.28	.040	<.001	.19	.59	.04	.36	<.001	<.001	3.70
556406	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.02	<.01	.013	<.001	.001	<.01	2.07	.039	<.001	.15	.51	.04	.28	<.001	<.001	3.20
556407	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.16	<.01	.015	<.001	.002	<.01	1.47	.037	.001	.29	.90	.09	.26	<.001	<.001	7.10
556408	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.20	<.01	.011	<.001	.001	<.01	1.21	.036	<.001	.34	.88	.10	.20	<.001	<.001	7.10
556409	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	1.27	<.01	.010	<.001	.001	<.01	1.03	.036	.001	.31	.79	.10	.20	<.001	<.001	7.80
556410	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	.72	<.01	.012	<.001	<.001	<.01	2.23	.031	<.001	.11	.49	.04	.32	<.001	<.001	6.80
556411	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	.96	<.01	.014	<.001	<.001	<.01	2.18	.036	<.001	.17	.52	.05	.30	<.001	<.001	6.10
556412	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.18	<.01	.012	<.001	<.001	<.01	2.01	.035	.001	.34	.49	.07	.24	<.001	<.001	8.20
556413	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.28	<.01	.023	<.001	.001	<.01	1.41	.040	.001	.33	1.04	.17	.27	<.001	<.001	7.10
556414	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.21	<.01	.016	<.001	<.001	<.01	1.97	.037	.001	.32	.55	.06	.28	<.001	<.001	6.70
556415 (pulp)	.028	.342	<.01	<.01	11	<.001	<.001	.03	1.01	<.01	.022	<.001	.003	<.01	1.20	.024	.002	.09	.54	.06	.31	<.001	<.001	-
556416	<.001	.002	<.01	<.01	<2	<.001	<.001	.05	1.10	<.01	.012	<.001	.001	<.01	1.91	.033	<.001	.32	.49	.08	.24	<.001	<.001	7.50
556417	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	1.10	<.01	.017	<.001	.002	<.01	1.32	.035	.001	.28	.66	.08	.22	<.001	<.001	7.60
556418	<.001	.002	<.01	<.01	<2	<.001	<.001	.05	1.10	<.01	.022	<.001	.001	<.01	1.87	.037	.001	.33	.93	.08	.27	<.001	<.001	7.50
556419	<.001	.001	<.01	<.01	<2	<.001	<.001	.07	.89	<.01	.014	<.001	<.001	<.01	2.36	.036	<.001	.16	.45	.04	.34	<.001	<.001	7.80
556420	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.21	<.01	.019	<.001	<.001	<.01	1.31	.036	.001	.34	.88	.10	.19	<.001	<.001	8.00
556421	<.001	.001	<.01	<.01	<2	<.001	<.001	.05	1.16	<.01	.016	<.001	.002	<.01	1.66	.036	<.001	.28	.54	.08	.20	<.001	<.001	7.60
556422	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.22	<.01	.019	<.001	<.001	<.01	1.89	.037	<.001	.36	.59	.07	.21	<.001	<.001	7.50
556423	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.16	<.01	.019	<.001	.002	<.01	1.72	.036	<.001	.33	.66	.07	.21	<.001	<.001	7.10
STANDARD R-3	.075	.795	1.91	3.93	186	.521	.057	.07	29.02	.04	.003	.022	.038	<.01	1.28	.048	.012	1.01	1.08	.04	.42	<.001	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Sample kg
G-1	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.94	<.01	.008	<.001	<.001	<.01	.63	.076	.001	.67	1.25	.16	.65	<.001	<.001	-
556424	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	1.31	<.01	.021	<.001	<.001	<.01	1.38	.058	<.001	.39	.79	.06	.23	.001	<.001	7.60
556425	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	1.26	<.01	.020	<.001	<.001	<.01	1.36	.037	<.001	.37	.77	.07	.20	<.001	<.001	4.70
556426	<.001	.002	<.01	<.01	<2	<.001	<.001	.04	1.09	<.01	.017	<.001	<.001	<.01	1.57	.033	<.001	.30	.61	.06	.17	<.001	<.001	3.50
556427	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.01	<.01	.017	<.001	<.001	<.01	1.80	.032	<.001	.22	.53	.06	.22	<.001	<.001	7.50
556428	<.001	.071	<.01	<.01	<2	<.001	<.001	.05	1.19	<.01	.014	<.001	<.001	<.01	1.93	.037	<.001	.23	.49	.05	.24	<.001	<.001	7.20
556429	<.001	.003	<.01	<.01	<2	<.001	<.001	.04	1.45	<.01	.013	<.001	<.001	<.01	1.39	.039	.001	.35	.46	.08	.14	<.001	<.001	7.30
556430	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.13	<.01	.013	<.001	<.001	<.01	2.03	.034	<.001	.30	.44	.06	.23	<.001	<.001	7.40
556431	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.28	<.01	.013	<.001	<.001	<.01	1.32	.036	.001	.33	.51	.08	.21	<.001	<.001	7.70
556432	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.13	<.01	.012	<.001	<.001	<.01	1.94	.036	<.001	.25	.46	.06	.27	<.001	<.001	7.30
556433	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.25	<.01	.015	<.001	<.001	<.01	2.37	.035	.001	.48	.51	.07	.29	<.001	<.001	6.60
556434	<.001	<.001	<.01	<.01	<2	<.001	<.001	.05	1.29	<.01	.013	<.001	<.001	<.01	1.56	.038	.001	.24	.45	.07	.20	<.001	<.001	7.60
556435 (pulp)	.020	.473	<.01	<.01	40	<.001	<.001	.02	1.15	<.01	.017	<.001	.010	<.01	.95	.026	.002	.06	.37	.05	.22	<.001	<.001	-
556436	<.001	.002	<.01	<.01	<2	<.001	<.001	.06	1.05	<.01	.010	<.001	<.001	<.01	2.08	.036	.001	.33	.43	.06	.29	<.001	<.001	6.10
556437	<.001	<.001	<.01	<.01	<2	<.001	<.001	.08	1.05	<.01	.018	<.001	<.001	<.01	2.70	.036	<.001	.21	.47	.03	.37	<.001	<.001	5.90
556438	<.001	.006	<.01	<.01	<2	<.001	<.001	.07	.85	<.01	.020	<.001	<.001	<.01	3.03	.034	<.001	.21	.49	.03	.37	<.001	<.001	6.10
556439	<.001	.009	<.01	<.01	<2	<.001	<.001	.06	1.13	<.01	.019	<.001	<.001	<.01	2.35	.036	<.001	.21	.55	.05	.32	<.001	<.001	7.00
556440	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.32	<.01	.017	<.001	<.001	<.01	1.31	.037	.001	.26	.59	.08	.21	<.001	<.001	6.60
556441	<.001	.001	<.01	<.01	<2	<.001	<.001	.04	1.44	<.01	.018	<.001	<.001	<.01	1.07	.039	.001	.28	.72	.10	.16	<.001	<.001	5.90
556442	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.33	<.01	.018	<.001	<.001	<.01	1.04	.038	.001	.34	.71	.08	.15	<.001	<.001	5.80
556443	<.001	.001	<.01	<.01	<2	<.001	<.001	.03	1.39	<.01	.020	<.001	<.001	<.01	1.15	.038	.001	.32	.81	.11	.16	<.001	<.001	7.10
556444	<.001	.004	<.01	<.01	<2	<.001	<.001	.05	1.11	<.01	.013	<.001	<.001	<.01	1.90	.038	.001	.22	.42	.05	.29	<.001	<.001	6.10
556445	.001	.023	<.01	<.01	<2	<.001	<.001	.05	1.26	<.01	.011	<.001	.001	<.01	1.30	.037	.001	.29	.54	.08	.17	<.001	<.001	7.10
556446	<.001	.005	<.01	<.01	<2	<.001	<.001	.06	1.37	<.01	.014	<.001	<.001	<.01	1.84	.040	.001	.38	.50	.07	.21	<.001	<.001	6.90
556447	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	.93	<.01	.015	<.001	<.001	<.01	2.60	.038	<.001	.27	.48	.04	.41	<.001	<.001	6.40
RE 556447	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	.94	<.01	.015	<.001	<.001	<.01	2.63	.038	<.001	.28	.48	.04	.42	<.001	<.001	-
RRE 556447	<.001	<.001	<.01	<.01	<2	<.001	<.001	.06	1.01	<.01	.015	<.001	.001	<.01	2.67	.038	.001	.28	.52	.05	.43	.001	<.001	-
556448	<.001	<.001	<.01	<.01	<2	<.001	<.001	.07	1.32	<.01	.017	<.001	<.001	<.01	2.39	.040	.001	.20	.60	.05	.42	<.001	<.001	6.50
556449	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.37	<.01	.015	<.001	<.001	<.01	1.22	.040	<.001	.30	.64	.08	.20	<.001	<.001	6.20
556450	<.001	<.001	<.01	<.01	<2	<.001	<.001	.04	1.52	<.01	.013	<.001	<.001	<.01	1.15	.041	.001	.33	.58	.09	.18	<.001	<.001	6.80
STANDARD R-3	.078	.835	2.09	4.12	203	.549	.062	.07	30.70	.04	.003	.024	.034	<.01	1.28	.046	.011	1.08	1.09	.04	.46	.009	.002	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 1 FA ___

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Submitted By: Paul Reynolds
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: November 26, 2007
Report Date: February 06, 2008
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN08003509.1

CLIENT JOB INFORMATION

Project: Rateria
Shipment ID:
P.O. Number
Number of Samples: 141

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	134	Crush split and pulverize drill core to 150mesh		
7AR	141	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed
7AR	0	1:1:1 Aqua Regia digestion ICP-ES analysis	0.1	Completed

ADDITIONAL COMMENTS

Invoice To: Reynolds, Paul
4035 W. 31st Ave
Vancouver BC V6S 1Y7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

	Method	WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
	Unit	kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783201	Drill Core	4.30	<0.001	0.021	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.23	<0.01	0.005	<0.001	<0.001	<0.01	1.77	0.045	<0.001	0.29	0.79
783202	Drill Core	7.10	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.41	<0.01	0.006	<0.001	0.002	<0.01	1.46	0.043	<0.001	0.41	0.90
783203	Drill Core	7.80	<0.001	0.024	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.45	<0.01	0.006	<0.001	<0.001	<0.01	1.57	0.045	<0.001	0.41	0.86
783204	Drill Core	7.30	<0.001	0.025	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.28	<0.01	0.007	<0.001	<0.001	<0.01	2.50	0.046	<0.001	0.34	0.87
783205	Drill Core	8.00	<0.001	0.014	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.29	<0.01	0.005	<0.001	<0.001	<0.01	2.01	0.046	<0.001	0.38	0.87
783206	Drill Core	7.00	<0.001	0.045	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.32	<0.01	0.006	<0.001	<0.001	<0.01	1.84	0.047	<0.001	0.31	0.90
783207	Drill Core	8.10	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.19	<0.01	0.006	<0.001	<0.001	<0.01	2.02	0.044	<0.001	0.30	0.80
783208	Drill Core	7.20	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.33	<0.01	0.010	<0.001	<0.001	<0.01	1.90	0.046	<0.001	0.38	1.14
783209	Drill Core	7.40	<0.001	0.062	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.33	<0.01	0.007	<0.001	0.001	<0.01	1.42	0.049	<0.001	0.35	0.87
783210	Drill Core	7.80	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.26	<0.01	0.007	<0.001	<0.001	<0.01	2.42	0.048	<0.001	0.26	0.76
783211	Drill Core	7.10	<0.001	0.015	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.14	<0.01	0.007	<0.001	<0.001	<0.01	2.52	0.049	<0.001	0.23	0.66
783212	Drill Core	5.00	<0.001	0.026	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.12	<0.01	0.008	<0.001	<0.001	<0.01	2.84	0.048	<0.001	0.23	0.65
783213	Drill Core	2.60	<0.001	0.138	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.12	<0.01	0.007	<0.001	<0.001	<0.01	2.75	0.049	<0.001	0.22	0.76
783214	Drill Core	4.40	<0.001	0.197	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.58	<0.01	0.006	<0.001	<0.001	<0.01	2.22	0.058	<0.001	0.28	0.90
783215	Drill Core	6.80	<0.001	0.013	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.37	<0.01	0.007	<0.001	<0.001	<0.01	1.38	0.049	<0.001	0.42	0.88
783215A	Drill Core		0.029	0.346	<0.01	<0.01	10	<0.001	<0.001	0.03	1.06	<0.01	0.021	<0.001	0.004	<0.01	1.21	0.027	0.002	0.09	0.52
783216	Drill Core	7.80	<0.001	0.137	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.30	<0.01	0.006	<0.001	<0.001	<0.01	2.10	0.049	<0.001	0.31	0.91
783217	Drill Core	7.60	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.29	<0.01	0.008	<0.001	<0.001	<0.01	1.73	0.046	<0.001	0.34	0.77
783218	Drill Core	7.50	<0.001	0.040	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.38	<0.01	0.007	<0.001	<0.001	<0.01	1.55	0.050	<0.001	0.37	0.87
783219	Drill Core	7.80	<0.001	0.041	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.14	<0.01	0.006	<0.001	<0.001	<0.01	2.03	0.042	<0.001	0.30	0.77
783220	Drill Core	7.70	<0.001	0.018	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.31	<0.01	0.007	<0.001	<0.001	<0.01	1.45	0.041	<0.001	0.38	0.90
783221	Drill Core	7.00	<0.001	0.096	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.39	<0.01	0.006	<0.001	<0.001	<0.01	1.58	0.045	<0.001	0.38	0.87
783222	Drill Core	8.10	<0.001	0.155	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.60	<0.01	0.006	<0.001	<0.001	<0.01	1.42	0.049	<0.001	0.40	0.95
783223	Drill Core	3.00	<0.001	0.880	<0.01	<0.01	3	<0.001	<0.001	0.12	0.95	<0.01	0.004	<0.001	<0.001	<0.01	2.05	0.042	<0.001	0.13	0.70
783224	Drill Core	3.80	<0.001	0.265	<0.01	<0.01	<2	<0.001	<0.001	0.14	0.95	<0.01	0.005	<0.001	<0.001	<0.01	2.37	0.046	<0.001	0.11	0.67
783225	Drill Core	7.00	<0.001	0.206	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.55	<0.01	0.005	<0.001	<0.001	<0.01	1.56	0.048	<0.001	0.34	0.87
783226	Drill Core	7.90	<0.001	0.699	<0.01	<0.01	4	<0.001	<0.001	0.10	1.53	<0.01	0.004	<0.001	<0.001	<0.01	1.49	0.044	<0.001	0.34	0.89
783227	Drill Core	6.10	<0.001	0.030	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.50	<0.01	0.010	<0.001	<0.001	<0.01	1.25	0.046	<0.001	0.38	0.85
783228	Drill Core	4.60	<0.001	0.080	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.28	<0.01	0.005	<0.001	<0.001	<0.01	2.16	0.042	<0.001	0.23	0.65
783229	Drill Core	3.30	<0.001	0.497	<0.01	<0.01	2	<0.001	<0.001	0.09	1.30	<0.01	0.005	<0.001	<0.001	<0.01	2.11	0.042	<0.001	0.21	0.79

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

	Method	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg
	Unit	%	%	%	%
	MDL	0.01	0.01	0.001	0.001
783201	Drill Core	0.07	0.29	<0.001	<0.001
783202	Drill Core	0.10	0.20	<0.001	<0.001
783203	Drill Core	0.09	0.19	<0.001	<0.001
783204	Drill Core	0.08	0.30	<0.001	<0.001
783205	Drill Core	0.08	0.26	<0.001	<0.001
783206	Drill Core	0.08	0.35	<0.001	<0.001
783207	Drill Core	0.08	0.29	<0.001	<0.001
783208	Drill Core	0.10	0.28	<0.001	<0.001
783209	Drill Core	0.07	0.33	<0.001	<0.001
783210	Drill Core	0.06	0.36	<0.001	<0.001
783211	Drill Core	0.07	0.36	<0.001	<0.001
783212	Drill Core	0.05	0.37	<0.001	<0.001
783213	Drill Core	0.05	0.35	<0.001	<0.001
783214	Drill Core	0.07	0.44	<0.001	<0.001
783215	Drill Core	0.08	0.28	<0.001	<0.001
783215A	Drill Core	0.05	0.30	<0.001	<0.001
783216	Drill Core	0.05	0.39	<0.001	<0.001
783217	Drill Core	0.09	0.24	<0.001	<0.001
783218	Drill Core	0.09	0.27	<0.001	<0.001
783219	Drill Core	0.07	0.31	<0.001	<0.001
783220	Drill Core	0.10	0.24	<0.001	<0.001
783221	Drill Core	0.07	0.30	0.001	<0.001
783222	Drill Core	0.10	0.28	<0.001	<0.001
783223	Drill Core	0.03	0.51	<0.001	<0.001
783224	Drill Core	0.03	0.48	0.001	<0.001
783225	Drill Core	0.07	0.34	<0.001	<0.001
783226	Drill Core	0.07	0.33	<0.001	<0.001
783227	Drill Core	0.08	0.19	<0.001	<0.001
783228	Drill Core	0.06	0.33	<0.001	<0.001
783229	Drill Core	0.03	0.38	<0.001	<0.001

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Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783230	Drill Core	6.60	<0.001	0.137	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.84	<0.01	0.005	<0.001	<0.001	<0.01	1.22	0.043	<0.001	0.41	0.94
783231	Drill Core	4.06	<0.001	0.097	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.45	<0.01	0.005	<0.001	<0.001	<0.01	1.89	0.039	<0.001	0.34	0.85
783232	Drill Core	4.70	<0.001	0.088	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.54	<0.01	0.007	<0.001	<0.001	<0.01	1.63	0.046	<0.001	0.42	0.97
783233	Drill Core	7.60	<0.001	0.128	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.50	<0.01	0.006	<0.001	<0.001	<0.01	1.26	0.035	<0.001	0.41	0.94
783234	Drill Core	5.50	<0.001	0.082	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.72	<0.01	0.007	<0.001	<0.001	<0.01	1.01	0.043	<0.001	0.46	0.96
783235	Drill Core	5.00	<0.001	0.265	<0.01	<0.01	2	<0.001	<0.001	0.06	1.80	<0.01	0.006	<0.001	<0.001	<0.01	1.17	0.041	<0.001	0.41	0.89
783235A	Drill Core		0.029	0.344	<0.01	<0.01	13	<0.001	<0.001	0.03	1.07	<0.01	0.021	<0.001	0.002	<0.01	1.20	0.020	0.002	0.09	0.46
783236	Drill Core	5.10	<0.001	0.268	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.52	<0.01	0.007	<0.001	<0.001	<0.01	1.87	0.044	<0.001	0.35	0.78
783237	Drill Core	3.00	<0.001	0.308	<0.01	<0.01	2	<0.001	<0.001	0.08	1.29	<0.01	0.009	<0.001	<0.001	<0.01	2.18	0.041	<0.001	0.19	0.66
783238	Drill Core	4.40	<0.001	0.226	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.50	<0.01	0.008	<0.001	<0.001	<0.01	1.66	0.018	<0.001	0.08	0.44
783239	Drill Core	3.90	<0.001	0.076	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.35	<0.01	0.007	<0.001	<0.001	<0.01	1.28	0.004	<0.001	0.04	0.41
783240	Drill Core	4.10	<0.001	0.066	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.88	<0.01	0.010	<0.001	<0.001	<0.01	1.62	0.049	<0.001	0.09	0.49
783241	Drill Core	5.70	0.002	0.112	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.74	<0.01	0.015	<0.001	<0.001	<0.01	2.23	0.027	<0.001	0.14	0.58
783242	Drill Core	4.40	<0.001	0.205	<0.01	<0.01	<2	<0.001	<0.001	0.11	0.83	<0.01	0.011	<0.001	<0.001	<0.01	2.36	0.035	<0.001	0.16	0.47
783243	Drill Core	6.20	<0.001	0.110	<0.01	<0.01	<2	<0.001	<0.001	0.11	0.97	<0.01	0.013	<0.001	<0.001	<0.01	2.91	0.039	<0.001	0.19	0.61
783244	Drill Core	6.70	<0.001	0.040	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.89	<0.01	0.011	<0.001	<0.001	<0.01	2.57	0.037	<0.001	0.17	0.51
783245	Drill Core	3.10	<0.001	0.055	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.19	<0.01	0.009	<0.001	<0.001	<0.01	2.06	0.043	<0.001	0.27	0.60
783246	Drill Core	3.20	<0.001	0.054	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.23	<0.01	0.009	<0.001	<0.001	<0.01	2.00	0.041	<0.001	0.28	0.64
783247	Drill Core	6.00	<0.001	0.255	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.25	<0.01	0.008	<0.001	<0.001	<0.01	2.30	0.041	<0.001	0.22	0.54
783248	Drill Core	6.40	<0.001	0.426	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.12	<0.01	0.009	<0.001	<0.001	<0.01	2.34	0.038	<0.001	0.22	0.62
783249	Drill Core	4.80	<0.001	0.202	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.05	<0.01	0.008	<0.001	<0.001	<0.01	2.47	0.039	<0.001	0.24	0.53
783250	Drill Core	4.80	<0.001	0.106	<0.01	<0.01	<2	<0.001	<0.001	0.10	0.99	<0.01	0.007	<0.001	<0.001	<0.01	2.42	0.041	<0.001	0.16	0.53
783251	Drill Core	6.00	<0.001	0.111	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.02	<0.01	0.008	<0.001	<0.001	<0.01	2.17	0.037	<0.001	0.20	0.52
783252	Drill Core	4.00	<0.001	0.323	<0.01	<0.01	<2	<0.001	<0.001	0.10	0.94	<0.01	0.007	<0.001	<0.001	<0.01	2.28	0.036	<0.001	0.14	0.59
783253	Drill Core	3.50	<0.001	0.508	<0.01	<0.01	<2	<0.001	<0.001	0.12	0.78	<0.01	0.008	<0.001	<0.001	<0.01	2.69	0.035	<0.001	0.12	0.56
783254	Drill Core	4.50	<0.001	0.155	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.87	<0.01	0.010	<0.001	0.001	<0.01	2.48	0.029	<0.001	0.15	0.54
783255	Drill Core		0.028	0.350	<0.01	<0.01	11	<0.001	<0.001	0.03	1.05	<0.01	0.022	<0.001	0.002	<0.01	1.23	0.022	0.002	0.09	0.50
783256	Drill Core	4.00	<0.001	0.267	<0.01	<0.01	<2	<0.001	<0.001	0.10	0.90	<0.01	0.011	<0.001	<0.001	<0.01	2.60	0.033	<0.001	0.15	0.52
783257	Drill Core	4.30	<0.001	0.164	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.94	<0.01	0.008	<0.001	<0.001	<0.01	2.25	0.034	<0.001	0.16	0.49
783258	Drill Core	4.70	0.010	0.361	<0.01	<0.01	<2	<0.001	<0.001	0.11	0.95	<0.01	0.009	<0.001	<0.001	<0.01	2.49	0.036	<0.001	0.18	0.47

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

Method		7AR	7AR	7AR	7AR
Analyte		Na	K	W	Hg
Unit		%	%	%	%
MDL		0.01	0.01	0.001	0.001
783230	Drill Core	0.08	0.26	0.001	<0.001
783231	Drill Core	0.05	0.32	<0.001	<0.001
783232	Drill Core	0.07	0.29	<0.001	<0.001
783233	Drill Core	0.08	0.20	<0.001	<0.001
783234	Drill Core	0.11	0.14	<0.001	<0.001
783235	Drill Core	0.10	0.19	<0.001	<0.001
783235A	Drill Core	0.05	0.28	<0.001	<0.001
783236	Drill Core	0.06	0.27	<0.001	<0.001
783237	Drill Core	0.03	0.37	<0.001	<0.001
783238	Drill Core	0.05	0.31	<0.001	<0.001
783239	Drill Core	0.07	0.29	<0.001	<0.001
783240	Drill Core	0.06	0.27	<0.001	<0.001
783241	Drill Core	0.05	0.35	<0.001	<0.001
783242	Drill Core	0.02	0.36	<0.001	<0.001
783243	Drill Core	0.03	0.37	<0.001	<0.001
783244	Drill Core	0.04	0.28	<0.001	<0.001
783245	Drill Core	0.06	0.25	<0.001	<0.001
783246	Drill Core	0.07	0.27	<0.001	<0.001
783247	Drill Core	0.05	0.32	<0.001	<0.001
783248	Drill Core	0.04	0.38	<0.001	<0.001
783249	Drill Core	0.04	0.36	<0.001	<0.001
783250	Drill Core	0.04	0.36	<0.001	<0.001
783251	Drill Core	0.04	0.31	<0.001	<0.001
783252	Drill Core	0.03	0.42	<0.001	<0.001
783253	Drill Core	0.02	0.45	<0.001	<0.001
783254	Drill Core	0.04	0.35	<0.001	<0.001
783255	Drill Core	0.05	0.29	<0.001	<0.001
783256	Drill Core	0.03	0.39	<0.001	<0.001
783257	Drill Core	0.03	0.37	<0.001	<0.001
783258	Drill Core	0.02	0.37	<0.001	<0.001

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

	Method	WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
	Unit	kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783259	Drill Core	3.60	0.002	0.373	<0.01	<0.01	<2	<0.001	<0.001	0.12	0.95	<0.01	0.008	<0.001	<0.001	<0.01	2.74	0.041	<0.001	0.12	0.55
783260	Drill Core	2.50	0.003	0.490	<0.01	<0.01	3	<0.001	<0.001	0.10	1.26	<0.01	0.009	<0.001	<0.001	<0.01	2.55	0.045	<0.001	0.22	0.64
783261	Drill Core	4.30	<0.001	2.727	<0.01	<0.01	19	<0.001	<0.001	0.10	1.09	<0.01	0.007	<0.001	<0.001	<0.01	2.33	0.036	<0.001	0.09	0.61
783262	Drill Core	5.20	<0.001	0.918	<0.01	<0.01	7	<0.001	<0.001	0.07	1.09	<0.01	0.006	<0.001	<0.001	<0.01	1.71	0.036	<0.001	0.20	0.63
783263	Drill Core	6.10	0.002	0.582	<0.01	<0.01	5	<0.001	<0.001	0.07	1.37	<0.01	0.006	<0.001	<0.001	<0.01	1.59	0.043	<0.001	0.29	0.83
783264	Drill Core	7.00	0.002	0.204	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.22	<0.01	0.005	<0.001	<0.001	<0.01	1.10	0.035	<0.001	0.26	0.69
783265	Drill Core	1.00	<0.001	0.093	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.45	<0.01	0.005	<0.001	<0.001	<0.01	1.14	0.043	<0.001	0.34	0.89
783266	Drill Core	1.10	0.001	0.075	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.42	<0.01	0.005	<0.001	<0.001	<0.01	1.18	0.043	<0.001	0.32	0.83
783267	Drill Core	7.40	<0.001	0.158	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.60	<0.01	0.005	<0.001	<0.001	<0.01	1.18	0.043	<0.001	0.38	0.80
783268	Drill Core	7.20	<0.001	0.160	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.55	<0.01	0.006	<0.001	<0.001	<0.01	1.01	0.043	<0.001	0.36	0.86
783269	Drill Core	3.90	0.005	0.214	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.38	<0.01	0.005	<0.001	<0.001	<0.01	1.55	0.041	<0.001	0.30	0.83
783270	Drill Core	6.50	<0.001	0.028	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.58	<0.01	0.006	<0.001	<0.001	<0.01	0.91	0.041	<0.001	0.37	0.91
783271	Drill Core	2.80	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.00	<0.01	0.015	<0.001	<0.001	<0.01	2.19	0.042	<0.001	0.34	0.85
783272	Drill Core	3.90	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.18	<0.01	0.015	<0.001	<0.001	<0.01	1.87	0.044	<0.001	0.42	1.17
783273	Drill Core	7.30	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.45	<0.01	0.013	<0.001	<0.001	<0.01	1.28	0.041	<0.001	0.41	0.91
783274	Drill Core	3.30	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.45	<0.01	0.009	<0.001	<0.001	<0.01	1.37	0.044	<0.001	0.36	0.85
783275	Drill Core		0.029	0.344	<0.01	<0.01	11	<0.001	<0.001	0.03	1.05	<0.01	0.021	<0.001	0.001	<0.01	1.19	0.025	0.002	0.09	0.52
783276	Drill Core	4.30	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.79	<0.01	0.006	<0.001	<0.001	<0.01	1.19	0.025	<0.001	0.19	0.75
783277	Drill Core	6.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.36	<0.01	0.005	<0.001	<0.001	<0.01	0.95	0.038	<0.001	0.33	0.80
783278	Drill Core	4.10	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.29	<0.01	0.006	<0.001	<0.001	<0.01	1.62	0.044	<0.001	0.29	0.82
783279	Drill Core	7.40	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.48	<0.01	0.006	<0.001	<0.001	<0.01	1.12	0.043	<0.001	0.38	0.94
783280	Drill Core	6.30	<0.001	0.114	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.39	<0.01	0.006	<0.001	<0.001	<0.01	1.43	0.044	<0.001	0.32	0.88
783281	Drill Core	4.10	<0.001	0.020	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.41	<0.01	0.005	<0.001	<0.001	<0.01	1.20	0.042	<0.001	0.34	0.83
783282	Drill Core	8.00	<0.001	0.052	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.24	<0.01	0.006	<0.001	<0.001	<0.01	1.71	0.043	<0.001	0.30	0.79
783283	Drill Core	5.90	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.99	<0.01	0.006	<0.001	<0.001	<0.01	2.63	0.041	<0.001	0.22	0.74
783284	Drill Core	6.00	<0.001	0.007	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.24	<0.01	0.007	<0.001	<0.001	<0.01	2.00	0.044	<0.001	0.35	0.81
783285	Drill Core	1.40	<0.001	0.023	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.93	<0.01	0.008	<0.001	<0.001	<0.01	2.66	0.042	<0.001	0.21	0.73
783286	Drill Core	1.30	<0.001	0.014	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.93	<0.01	0.008	<0.001	<0.001	<0.01	2.83	0.043	<0.001	0.21	0.73
783287	Drill Core	6.00	<0.001	0.141	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.20	<0.01	0.007	<0.001	<0.001	<0.01	2.28	0.046	<0.001	0.31	0.80
783288	Drill Core	6.90	<0.001	0.013	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.27	<0.01	0.008	<0.001	<0.001	<0.01	2.06	0.046	<0.001	0.38	0.80

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Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

	Method	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg
	Unit	%	%	%	%
	MDL	0.01	0.01	0.001	0.001
783259	Drill Core	0.02	0.44	<0.001	<0.001
783260	Drill Core	0.03	0.45	0.001	<0.001
783261	Drill Core	0.01	0.49	<0.001	<0.001
783262	Drill Core	0.05	0.36	0.002	<0.001
783263	Drill Core	0.07	0.35	<0.001	<0.001
783264	Drill Core	0.07	0.24	<0.001	<0.001
783265	Drill Core	0.11	0.30	<0.001	<0.001
783266	Drill Core	0.10	0.30	<0.001	<0.001
783267	Drill Core	0.08	0.21	<0.001	<0.001
783268	Drill Core	0.10	0.20	<0.001	<0.001
783269	Drill Core	0.06	0.31	<0.001	<0.001
783270	Drill Core	0.12	0.17	<0.001	<0.001
783271	Drill Core	0.05	0.30	0.001	<0.001
783272	Drill Core	0.09	0.25	<0.001	<0.001
783273	Drill Core	0.09	0.15	<0.001	<0.001
783274	Drill Core	0.10	0.16	<0.001	<0.001
783275	Drill Core	0.06	0.31	<0.001	<0.001
783276	Drill Core	0.09	0.26	<0.001	<0.001
783277	Drill Core	0.10	0.16	<0.001	<0.001
783278	Drill Core	0.09	0.23	<0.001	<0.001
783279	Drill Core	0.12	0.18	<0.001	<0.001
783280	Drill Core	0.11	0.26	<0.001	<0.001
783281	Drill Core	0.10	0.19	<0.001	<0.001
783282	Drill Core	0.07	0.29	<0.001	<0.001
783283	Drill Core	0.05	0.34	<0.001	<0.001
783284	Drill Core	0.07	0.28	<0.001	<0.001
783285	Drill Core	0.04	0.35	<0.001	<0.001
783286	Drill Core	0.05	0.35	<0.001	<0.001
783287	Drill Core	0.05	0.32	<0.001	<0.001
783288	Drill Core	0.07	0.25	<0.001	<0.001

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Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783289	Drill Core	7.00	<0.001	0.017	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.14	<0.01	0.012	<0.001	<0.001	<0.01	2.85	0.043	<0.001	0.32	0.76
783290	Drill Core	6.10	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.96	<0.01	0.010	<0.001	<0.001	<0.01	2.86	0.049	<0.001	0.23	0.70
783291	Drill Core	6.50	<0.001	0.040	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.12	<0.01	0.008	<0.001	<0.001	<0.01	2.40	0.047	<0.001	0.31	0.77
783292	Drill Core	7.20	<0.001	0.093	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.05	<0.01	0.008	<0.001	<0.001	<0.01	2.53	0.050	<0.001	0.22	0.74
783293	Drill Core	6.90	<0.001	0.029	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.34	<0.01	0.012	<0.001	<0.001	<0.01	2.23	0.052	<0.001	0.32	0.82
783294	Drill Core	5.30	<0.001	0.119	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.98	<0.01	0.009	<0.001	<0.001	<0.01	2.03	0.040	<0.001	0.22	0.73
783295	Drill Core		0.028	0.339	<0.01	<0.01	12	<0.001	<0.001	0.03	1.05	<0.01	0.021	<0.001	0.003	<0.01	1.18	0.022	0.002	0.09	0.49
783296	Drill Core	5.00	0.003	0.291	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.93	<0.01	0.008	<0.001	<0.001	<0.01	2.69	0.029	<0.001	0.18	0.60
783297	Drill Core	4.60	<0.001	0.019	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.37	<0.01	0.017	<0.001	<0.001	<0.01	2.16	0.040	<0.001	0.52	1.02
783298	Drill Core	4.80	<0.001	0.003	<0.01	<0.01	<2	0.003	0.003	0.12	6.16	<0.01	0.048	<0.001	<0.001	<0.01	4.16	0.095	0.004	3.04	3.82
783299	Drill Core	5.90	0.001	0.043	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.34	<0.01	0.007	<0.001	<0.001	<0.01	1.63	0.008	<0.001	0.07	0.37
783300	Drill Core	3.80	<0.001	0.178	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.30	<0.01	0.006	<0.001	<0.001	<0.01	2.09	0.009	<0.001	0.04	0.40
783301	Drill Core	7.90	<0.001	0.076	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.59	<0.01	0.007	<0.001	<0.001	<0.01	1.53	0.014	<0.001	0.15	0.46
783302	Drill Core	7.00	<0.001	0.251	<0.01	<0.01	2	<0.001	<0.001	0.05	0.26	<0.01	0.007	<0.001	<0.001	<0.01	1.78	0.007	<0.001	0.04	0.32
783303	Drill Core	3.50	<0.001	0.510	<0.01	<0.01	3	<0.001	<0.001	0.08	0.72	<0.01	0.011	<0.001	<0.001	<0.01	2.78	0.025	<0.001	0.12	0.52
783304	Drill Core	7.80	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.57	<0.01	0.008	<0.001	<0.001	<0.01	1.31	0.013	<0.001	0.19	0.51
783305	Drill Core	1.30	<0.001	0.392	<0.01	<0.01	3	<0.001	<0.001	0.03	0.45	<0.01	0.006	<0.001	<0.001	<0.01	0.97	0.011	<0.001	0.09	0.37
783306	Drill Core	1.00	<0.001	0.384	<0.01	<0.01	2	<0.001	<0.001	0.03	0.45	<0.01	0.006	<0.001	<0.001	<0.01	1.04	0.010	<0.001	0.10	0.36
783307	Drill Core	5.60	<0.001	0.018	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.66	<0.01	0.006	<0.001	<0.001	<0.01	1.12	0.021	<0.001	0.17	0.48
783308	Drill Core	6.10	<0.001	0.340	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.66	<0.01	0.007	<0.001	<0.001	<0.01	1.71	0.024	<0.001	0.13	0.53
783309	Drill Core	7.10	<0.001	0.267	<0.01	<0.01	2	<0.001	<0.001	0.09	0.76	<0.01	0.007	<0.001	<0.001	<0.01	2.04	0.026	<0.001	0.19	0.56
783310	Drill Core	6.50	<0.001	0.106	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.26	<0.01	0.008	<0.001	<0.001	<0.01	1.69	0.031	<0.001	0.33	0.64
783311	Drill Core	6.50	<0.001	0.160	<0.01	<0.01	2	<0.001	<0.001	0.05	0.38	<0.01	0.007	<0.001	<0.001	<0.01	1.85	0.014	<0.001	0.07	0.39
783312	Drill Core	6.40	<0.001	0.299	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.67	<0.01	0.006	<0.001	<0.001	<0.01	2.02	0.030	<0.001	0.10	0.49
783313	Drill Core	6.80	<0.001	0.241	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.90	<0.01	0.006	<0.001	<0.001	<0.01	2.03	0.031	<0.001	0.18	0.55
783314	Drill Core	6.10	<0.001	0.110	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.07	<0.01	0.008	<0.001	<0.001	<0.01	2.24	0.044	<0.001	0.30	0.65
783315	Drill Core		0.027	0.345	<0.01	<0.01	11	<0.001	<0.001	0.03	1.04	<0.01	0.021	<0.001	0.002	<0.01	1.21	0.023	0.002	0.09	0.49
783316	Drill Core	6.90	<0.001	0.089	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.16	<0.01	0.007	<0.001	<0.001	<0.01	1.84	0.041	<0.001	0.31	0.60
783317	Drill Core	6.80	<0.001	0.011	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.95	<0.01	0.010	<0.001	<0.001	<0.01	1.91	0.034	<0.001	0.22	0.54
783318	Drill Core	6.50	<0.001	0.070	<0.01	<0.01	<2	<0.001	<0.001	0.11	0.82	<0.01	0.009	<0.001	<0.001	<0.01	2.98	0.043	<0.001	0.11	0.50

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

	Method	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg
	Unit	%	%	%	%
	MDL	0.01	0.01	0.001	0.001
783289	Drill Core	0.04	0.26	<0.001	<0.001
783290	Drill Core	0.03	0.32	<0.001	<0.001
783291	Drill Core	0.06	0.28	<0.001	<0.001
783292	Drill Core	0.05	0.36	<0.001	<0.001
783293	Drill Core	0.07	0.29	<0.001	<0.001
783294	Drill Core	0.06	0.35	<0.001	<0.001
783295	Drill Core	0.05	0.35	<0.001	<0.001
783296	Drill Core	0.03	0.44	<0.001	<0.001
783297	Drill Core	0.08	0.27	<0.001	<0.001
783298	Drill Core	0.10	0.16	<0.001	<0.001
783299	Drill Core	0.07	0.26	<0.001	<0.001
783300	Drill Core	0.04	0.42	<0.001	<0.001
783301	Drill Core	0.07	0.26	<0.001	<0.001
783302	Drill Core	0.04	0.27	<0.001	<0.001
783303	Drill Core	0.02	0.38	<0.001	<0.001
783304	Drill Core	0.07	0.22	<0.001	<0.001
783305	Drill Core	0.06	0.19	<0.001	<0.001
783306	Drill Core	0.06	0.18	<0.001	<0.001
783307	Drill Core	0.06	0.23	<0.001	<0.001
783308	Drill Core	0.06	0.39	<0.001	<0.001
783309	Drill Core	0.04	0.41	<0.001	<0.001
783310	Drill Core	0.06	0.27	<0.001	<0.001
783311	Drill Core	0.05	0.36	<0.001	<0.001
783312	Drill Core	0.04	0.43	<0.001	<0.001
783313	Drill Core	0.04	0.38	<0.001	<0.001
783314	Drill Core	0.04	0.38	<0.001	<0.001
783315	Drill Core	0.05	0.35	<0.001	<0.001
783316	Drill Core	0.05	0.28	<0.001	<0.001
783317	Drill Core	0.05	0.27	<0.001	<0.001
783318	Drill Core	0.02	0.46	<0.001	<0.001

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783319	Drill Core	6.70	<0.001	0.027	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.29	<0.01	0.009	<0.001	<0.001	<0.01	1.49	0.044	<0.001	0.42	0.67
783320	Drill Core	6.30	<0.001	0.261	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.17	<0.01	0.009	<0.001	<0.001	<0.01	1.86	0.043	<0.001	0.16	0.54
783321	Drill Core	7.90	<0.001	0.419	<0.01	<0.01	<2	<0.001	<0.001	0.12	0.90	<0.01	0.012	<0.001	<0.001	<0.01	3.07	0.041	<0.001	0.12	0.46
783322	Drill Core	5.70	<0.001	1.256	<0.01	<0.01	7	<0.001	<0.001	0.10	0.55	<0.01	0.005	<0.001	<0.001	<0.01	2.02	0.020	<0.001	0.04	0.40
783323	Drill Core	5.30	<0.001	0.389	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.40	<0.01	0.008	<0.001	<0.001	<0.01	2.22	0.016	<0.001	0.04	0.42
783324	Drill Core	3.30	<0.001	0.650	<0.01	<0.01	4	<0.001	<0.001	0.10	0.56	<0.01	0.010	<0.001	<0.001	<0.01	2.54	0.025	<0.001	0.06	0.40
783325	Drill Core	1.10	<0.001	0.628	<0.01	<0.01	4	<0.001	<0.001	0.10	0.80	<0.01	0.010	<0.001	<0.001	<0.01	2.68	0.031	<0.001	0.11	0.47
783326	Drill Core	1.30	<0.001	1.274	<0.01	<0.01	8	<0.001	<0.001	0.10	0.82	<0.01	0.011	<0.001	<0.001	<0.01	2.74	0.030	<0.001	0.11	0.40
783327	Drill Core	5.20	<0.001	0.155	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.86	<0.01	0.013	<0.001	<0.001	<0.01	2.62	0.035	<0.001	0.12	0.47
783328	Drill Core	8.30	<0.001	0.027	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.20	<0.01	0.014	<0.001	<0.001	<0.01	1.56	0.028	<0.001	0.55	1.02
783329	Drill Core	7.40	<0.001	0.054	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.38	<0.01	0.010	<0.001	<0.001	<0.01	1.16	0.033	<0.001	0.68	1.03
783330	Drill Core	5.80	<0.001	0.040	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.28	<0.01	0.010	<0.001	<0.001	<0.01	1.41	0.040	<0.001	0.54	0.91
783331	Drill Core	6.80	<0.001	0.040	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.26	<0.01	0.010	<0.001	<0.001	<0.01	1.87	0.044	<0.001	0.33	0.72
783332	Drill Core	6.80	<0.001	0.031	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.37	<0.01	0.012	<0.001	<0.001	<0.01	1.76	0.041	<0.001	0.32	0.78
783333	Drill Core	4.80	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.27	<0.01	0.017	<0.001	<0.001	<0.01	2.02	0.046	<0.001	0.37	0.92
783334	Drill Core	8.20	<0.001	0.015	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.36	<0.01	0.015	<0.001	<0.001	<0.01	1.71	0.045	<0.001	0.37	0.92
783335	Drill Core		0.025	0.292	<0.01	<0.01	11	<0.001	<0.001	0.03	0.92	<0.01	0.018	<0.001	0.002	<0.01	1.02	0.022	0.002	0.08	0.45
783336	Drill Core	7.90	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.26	<0.01	0.011	<0.001	<0.001	<0.01	1.71	0.045	<0.001	0.36	0.87
783337	Drill Core	7.40	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.20	<0.01	0.010	<0.001	<0.001	<0.01	2.03	0.045	<0.001	0.35	0.77
783338	Drill Core	4.10	<0.001	0.018	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.94	<0.01	0.011	<0.001	<0.001	<0.01	1.52	0.039	<0.001	0.29	0.86
783339	Drill Core	4.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.41	<0.01	0.016	<0.001	<0.001	<0.01	1.61	0.046	<0.001	0.40	1.31

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4035 W. 31st Ave
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Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003509.1

Method		7AR	7AR	7AR	7AR
Analyte		Na	K	W	Hg
Unit		%	%	%	%
MDL		0.01	0.01	0.001	0.001
783319	Drill Core	0.07	0.19	<0.001	<0.001
783320	Drill Core	0.05	0.37	<0.001	<0.001
783321	Drill Core	0.01	0.42	<0.001	<0.001
783322	Drill Core	<0.01	0.45	<0.001	<0.001
783323	Drill Core	0.03	0.42	<0.001	<0.001
783324	Drill Core	0.01	0.41	<0.001	<0.001
783325	Drill Core	0.03	0.38	<0.001	<0.001
783326	Drill Core	0.03	0.31	<0.001	<0.001
783327	Drill Core	0.03	0.31	<0.001	<0.001
783328	Drill Core	0.07	0.14	<0.001	<0.001
783329	Drill Core	0.09	0.11	<0.001	<0.001
783330	Drill Core	0.07	0.16	<0.001	<0.001
783331	Drill Core	0.06	0.22	<0.001	<0.001
783332	Drill Core	0.07	0.21	<0.001	<0.001
783333	Drill Core	0.07	0.22	<0.001	<0.001
783334	Drill Core	0.07	0.18	<0.001	<0.001
783335	Drill Core	0.05	0.27	<0.001	<0.001
783336	Drill Core	0.08	0.20	<0.001	<0.001
783337	Drill Core	0.06	0.23	<0.001	<0.001
783338	Drill Core	0.06	0.24	<0.001	<0.001
783339	Drill Core	0.12	0.21	<0.001	<0.001

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003509.1

	Method	WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
	Unit	kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
Pulp Duplicates																					
783209	Drill Core	7.40	<0.001	0.062	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.33	<0.01	0.007	<0.001	0.001	<0.01	1.42	0.049	<0.001	0.35	0.87
REP 783209	QC		<0.001	0.061	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.34	<0.01	0.007	<0.001	<0.001	<0.01	1.42	0.048	<0.001	0.36	0.87
783228	Drill Core	4.60	<0.001	0.080	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.28	<0.01	0.005	<0.001	<0.001	<0.01	2.16	0.042	<0.001	0.23	0.65
REP 783228	QC		<0.001	0.078	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.31	<0.01	0.005	<0.001	<0.001	<0.01	2.19	0.040	<0.001	0.23	0.66
783290	Drill Core	6.10	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.96	<0.01	0.010	<0.001	<0.001	<0.01	2.86	0.049	<0.001	0.23	0.70
REP 783290	QC		<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.99	<0.01	0.011	<0.001	<0.001	<0.01	2.84	0.046	<0.001	0.23	0.72
783301	Drill Core	7.90	<0.001	0.076	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.59	<0.01	0.007	<0.001	<0.001	<0.01	1.53	0.014	<0.001	0.15	0.46
REP 783301	QC		<0.001	0.077	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.59	<0.01	0.007	<0.001	<0.001	<0.01	1.53	0.013	<0.001	0.15	0.45
Core Reject Duplicates																					
783231	Drill Core	4.06	<0.001	0.097	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.45	<0.01	0.005	<0.001	<0.001	<0.01	1.89	0.039	<0.001	0.34	0.85
DUP 783231	QC		<0.001	0.092	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.50	<0.01	0.006	<0.001	<0.001	<0.01	1.88	0.041	<0.001	0.34	0.89
783265	Drill Core	1.00	<0.001	0.093	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.45	<0.01	0.005	<0.001	<0.001	<0.01	1.14	0.043	<0.001	0.34	0.89
DUP 783265	QC		0.001	0.092	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.43	<0.01	0.005	<0.001	<0.001	<0.01	1.15	0.045	<0.001	0.34	0.78
783300	Drill Core	3.80	<0.001	0.178	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.30	<0.01	0.006	<0.001	<0.001	<0.01	2.09	0.009	<0.001	0.04	0.40
DUP 783300	QC		<0.001	0.196	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.27	<0.01	0.006	<0.001	<0.001	<0.01	2.02	0.010	<0.001	0.04	0.39
783335	Drill Core		0.025	0.292	<0.01	<0.01	11	<0.001	<0.001	0.03	0.92	<0.01	0.018	<0.001	0.002	<0.01	1.02	0.022	0.002	0.08	0.45
DUP 783335	QC		0.029	0.339	<0.01	<0.01	11	<0.001	<0.001	0.03	1.06	<0.01	0.021	<0.001	0.003	<0.01	1.19	0.023	0.002	0.09	0.51
Reference Materials																					
STD CCU-1C	Standard																				
STD CCU-1C	Standard																				
STD CZN-3	Standard																				
STD CZN-3	Standard																				
STD MP-2	Standard																				
STD MP-2	Standard																				
STD PBC-1	Standard																				
STD PBC-1	Standard																				
STD PTC-1A	Standard																				
STD PTC-1A	Standard																				

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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003509.1

	Method	7AR	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg	Ag
	Unit	%	%	%	%	GM/T
	MDL	0.01	0.01	0.001	0.001	2
Pulp Duplicates						
783209	Drill Core	0.07	0.33	<0.001	<0.001	
REP 783209	QC	0.07	0.33	<0.001	<0.001	
783228	Drill Core	0.06	0.33	<0.001	<0.001	
REP 783228	QC	0.06	0.34	<0.001	<0.001	
783290	Drill Core	0.03	0.32	<0.001	<0.001	
REP 783290	QC	0.04	0.32	<0.001	<0.001	
783301	Drill Core	0.07	0.26	<0.001	<0.001	
REP 783301	QC	0.06	0.24	<0.001	<0.001	
Core Reject Duplicates						
783231	Drill Core	0.05	0.32	<0.001	<0.001	
DUP 783231	QC	0.06	0.34	<0.001	<0.001	
783265	Drill Core	0.11	0.30	<0.001	<0.001	
DUP 783265	QC	0.08	0.25	<0.001	<0.001	2
783300	Drill Core	0.04	0.42	<0.001	<0.001	
DUP 783300	QC	0.04	0.41	<0.001	<0.001	
783335	Drill Core	0.05	0.27	<0.001	<0.001	
DUP 783335	QC	0.05	0.30	<0.001	<0.001	7
Reference Materials						
STD CCU-1C	Standard					107
STD CCU-1C	Standard					113
STD CZN-3	Standard					43
STD CZN-3	Standard					37
STD MP-2	Standard					4
STD MP-2	Standard					<2
STD PBC-1	Standard					1856
STD PBC-1	Standard					1760
STD PTC-1A	Standard					46
STD PTC-1A	Standard					46

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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003509.1

		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
STD R3A	Standard		0.077	0.810	1.92	3.95	198	0.543	0.061	0.07	31.07	0.04	0.003	0.023	0.039	<0.01	1.29	0.049	0.011	1.06	1.09
STD R3A	Standard		0.077	0.804	1.93	3.99	199	0.549	0.061	0.07	31.45	0.04	0.003	0.023	0.040	<0.01	1.27	0.048	0.011	1.06	1.11
STD R3A	Standard		0.076	0.813	1.92	3.97	196	0.537	0.061	0.07	31.49	0.04	0.003	0.023	0.039	<0.01	1.29	0.048	0.012	1.03	1.08
STD R3A	Standard		0.076	0.808	1.91	3.97	196	0.538	0.061	0.07	31.54	0.04	0.003	0.023	0.038	<0.01	1.28	0.049	0.011	1.03	1.07
STD R3A	Standard		0.077	0.809	1.93	4.02	196	0.547	0.061	0.07	32.01	0.04	0.003	0.023	0.039	<0.01	1.30	0.051	0.012	1.05	1.10
STD R3A	Standard		0.077	0.805	1.92	3.94	197	0.539	0.061	0.07	31.54	0.04	0.003	0.023	0.038	<0.01	1.29	0.050	0.012	1.03	1.09
STD R3A	Standard		0.077	0.808	1.92	3.98	198	0.542	0.061	0.07	31.55	0.04	0.003	0.023	0.039	<0.01	1.29	0.052	0.012	1.04	1.09
STD R3A	Standard		0.077	0.820	1.93	3.97	198	0.543	0.062	0.07	31.75	0.04	0.003	0.023	0.039	<0.01	1.29	0.052	0.012	1.04	1.09
STD R3A	Standard		0.075	0.805	1.95	3.95	196	0.524	0.062	0.07	30.94	0.04	0.003	0.023	0.034	<0.01	1.30	0.047	0.011	1.02	1.07
STD R3A	Standard		0.074	0.802	1.95	3.93	192	0.523	0.062	0.07	31.01	0.04	0.003	0.023	0.033	<0.01	1.29	0.047	0.011	1.03	1.08
STD R3A Expected			0.077	0.811	1.92	4.03	197	0.524	0.062	0.07	32.47	0.04	0.003	0.023	0.031		1.29	0.05	0.011	1.04	1.08
STD CZN-3 Expected																					
STD MP-2 Expected																					
STD PTC-1A Expected																					
STD CCU-1C Expected																					
STD PBC-1 Expected																					
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank																				
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	2.05	<0.01	0.008	<0.001	<0.001	<0.01	0.56	0.074	<0.001	0.63	1.28
G1	Prep Blank	<0.01	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.99	<0.01	0.008	<0.001	<0.001	<0.01	0.57	0.070	<0.001	0.64	1.32

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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003509.1

		7AR Na % 0.01	7AR K % 0.01	7AR W % 0.001	7AR Hg % 0.001	7AR Ag GM/T 2
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.44	<0.001	0.002	
STD R3A	Standard	0.04	0.42	<0.001	0.001	
STD R3A	Standard	0.03	0.42	<0.001	0.001	
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.42	<0.001	0.001	
STD R3A	Standard	0.04	0.42	<0.001	0.002	
STD R3A	Standard	0.04	0.42	<0.001	0.002	
STD R3A	Standard	0.04	0.50	<0.001	0.002	
STD R3A	Standard	0.04	0.50	<0.001	0.002	
STD R3A Expected		0.04	0.41		0.002	
STD CZN-3 Expected						45
STD MP-2 Expected						4.9
STD PTC-1A Expected						56
STD CCU-1C Expected						129
STD PBC-1 Expected						1800
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank					<2
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank					<2
Prep Wash						
G1	Prep Blank	0.15	0.63	<0.001	<0.001	
G1	Prep Blank	0.16	0.62	<0.001	<0.001	

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Client: **Reynolds, Paul**
4035 W. 31st Ave
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Submitted By: Paul Reynolds
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: December 05, 2007
Report Date: February 06, 2008
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN08003555.1

CLIENT JOB INFORMATION

Project: Rateria
Shipment ID:
P.O. Number
Number of Samples: 134

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	128	Crush split and pulverize drill core to 150mesh		
7AR	134	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed
7AR	0	1:1:1 Aqua Regia digestion ICP-ES analysis	0.1	Completed

ADDITIONAL COMMENTS

Invoice To: Reynolds, Paul
4035 W. 31st Ave
Vancouver BC V6S 1Y7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

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4035 W. 31st Ave
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Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783340	Drill Core	6.10	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.94	<0.01	0.006	<0.001	<0.001	<0.01	1.88	0.040	<0.001	0.28	0.67
783341	Drill Core	6.20	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.10	<0.01	0.008	<0.001	<0.001	<0.01	1.63	0.042	<0.001	0.33	0.77
783342	Drill Core	7.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.00	<0.01	0.009	<0.001	<0.001	<0.01	2.25	0.043	<0.001	0.27	0.77
783343	Drill Core	6.40	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.87	<0.01	0.007	<0.001	<0.001	<0.01	2.27	0.039	<0.001	0.22	0.66
783344	Drill Core	7.50	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.10	<0.01	0.008	<0.001	<0.001	<0.01	1.58	0.040	<0.001	0.31	0.70
783345	Drill Core	0.80	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.06	<0.01	0.008	<0.001	<0.001	<0.01	1.73	0.039	<0.001	0.29	0.67
783346	Drill Core	1.00	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.01	<0.01	0.007	<0.001	<0.001	<0.01	1.78	0.041	<0.001	0.27	0.63
783347	Drill Core	6.40	<0.001	0.011	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.91	<0.01	0.008	<0.001	<0.001	<0.01	2.61	0.037	<0.001	0.22	0.64
783348	Drill Core	5.10	<0.001	0.029	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.99	<0.01	0.006	<0.001	<0.001	<0.01	2.02	0.041	<0.001	0.28	0.69
783349	Drill Core	7.20	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.09	<0.01	0.006	<0.001	<0.001	<0.01	1.70	0.040	<0.001	0.32	0.67
783350	Drill Core	6.80	<0.001	0.034	<0.01	<0.01	<2	<0.001	<0.001	0.10	0.96	<0.01	0.007	<0.001	<0.001	<0.01	2.49	0.042	<0.001	0.24	0.55
783351	Drill Core	6.20	<0.001	0.018	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.80	<0.01	0.008	<0.001	<0.001	<0.01	2.47	0.039	<0.001	0.17	0.52
783352	Drill Core	4.40	<0.001	0.017	<0.01	<0.01	<2	<0.001	<0.001	0.12	0.98	<0.01	0.008	<0.001	<0.001	<0.01	3.14	0.046	<0.001	0.22	0.55
783353	Drill Core	6.50	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.13	<0.01	0.009	<0.001	<0.001	<0.01	2.20	0.045	<0.001	0.33	0.66
783354	Drill Core	5.60	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.22	<0.01	0.007	<0.001	<0.001	<0.01	2.59	0.047	<0.001	0.47	0.80
783355	Rock Pulp		0.028	0.348	<0.01	<0.01	10	<0.001	<0.001	0.03	1.03	<0.01	0.021	<0.001	0.002	<0.01	1.18	0.024	0.002	0.09	0.47
783356	Drill Core	6.90	<0.001	0.019	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.98	<0.01	0.007	<0.001	<0.001	<0.01	2.42	0.042	<0.001	0.22	0.57
783357	Drill Core	7.00	<0.001	0.047	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.88	<0.01	0.007	<0.001	<0.001	<0.01	2.60	0.039	<0.001	0.16	0.49
783358	Drill Core	5.90	<0.001	0.010	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.05	<0.01	0.007	<0.001	<0.001	<0.01	2.70	0.046	<0.001	0.24	0.47
783359	Drill Core	4.10	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.86	<0.01	0.007	<0.001	0.001	<0.01	3.07	0.036	<0.001	0.16	0.39
783360	Drill Core	6.70	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.84	<0.01	0.006	<0.001	<0.001	<0.01	2.01	0.033	<0.001	0.11	0.40
783361	Drill Core	4.60	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.83	<0.01	0.007	<0.001	<0.001	<0.01	1.93	0.035	<0.001	0.16	0.45
783362	Drill Core	4.00	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.10	<0.01	0.006	<0.001	<0.001	<0.01	1.11	0.035	<0.001	0.37	0.66
783363	Drill Core	2.80	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.01	<0.01	0.005	<0.001	<0.001	<0.01	1.58	0.035	<0.001	0.27	0.61
783364	Drill Core	7.70	<0.001	0.014	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.05	<0.01	0.007	<0.001	<0.001	<0.01	1.64	0.037	<0.001	0.29	0.67
783365	Drill Core	1.40	<0.001	0.027	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.01	<0.01	0.005	<0.001	<0.001	<0.01	1.48	0.029	<0.001	0.38	0.67
783366	Drill Core	1.10	<0.001	0.014	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.95	<0.01	0.005	<0.001	<0.001	<0.01	1.34	0.028	<0.001	0.38	0.63
783367	Drill Core	7.50	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.29	<0.01	0.008	<0.001	<0.001	<0.01	1.43	0.037	<0.001	0.41	0.88
783368	Drill Core	5.90	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.17	<0.01	0.008	<0.001	<0.001	<0.01	1.62	0.040	<0.001	0.35	0.71
783369	Drill Core	6.80	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.96	<0.01	0.008	<0.001	<0.001	<0.01	1.89	0.036	<0.001	0.20	0.53

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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

Method		7AR	7AR	7AR	7AR
Analyte		Na	K	W	Hg
Unit		%	%	%	%
MDL		0.01	0.01	0.001	0.001
783340	Drill Core	0.07	0.25	<0.001	<0.001
783341	Drill Core	0.08	0.22	<0.001	<0.001
783342	Drill Core	0.08	0.26	<0.001	<0.001
783343	Drill Core	0.06	0.28	<0.001	<0.001
783344	Drill Core	0.08	0.21	<0.001	<0.001
783345	Drill Core	0.07	0.24	<0.001	<0.001
783346	Drill Core	0.07	0.23	<0.001	<0.001
783347	Drill Core	0.06	0.29	<0.001	0.001
783348	Drill Core	0.07	0.26	<0.001	<0.001
783349	Drill Core	0.05	0.20	<0.001	<0.001
783350	Drill Core	0.03	0.27	<0.001	<0.001
783351	Drill Core	0.03	0.29	<0.001	<0.001
783352	Drill Core	0.02	0.28	<0.001	<0.001
783353	Drill Core	0.04	0.20	<0.001	<0.001
783354	Drill Core	0.04	0.22	<0.001	<0.001
783355	Rock Pulp	0.04	0.28	<0.001	<0.001
783356	Drill Core	0.03	0.21	<0.001	<0.001
783357	Drill Core	0.02	0.27	<0.001	<0.001
783358	Drill Core	0.03	0.22	<0.001	<0.001
783359	Drill Core	0.02	0.25	<0.001	<0.001
783360	Drill Core	0.03	0.28	<0.001	<0.001
783361	Drill Core	0.03	0.26	<0.001	<0.001
783362	Drill Core	0.05	0.17	<0.001	<0.001
783363	Drill Core	0.03	0.26	<0.001	<0.001
783364	Drill Core	0.04	0.24	<0.001	<0.001
783365	Drill Core	0.04	0.22	<0.001	<0.001
783366	Drill Core	0.04	0.21	<0.001	<0.001
783367	Drill Core	0.07	0.12	<0.001	<0.001
783368	Drill Core	0.04	0.19	<0.001	<0.001
783369	Drill Core	0.04	0.25	<0.001	<0.001

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

	Method	WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
	Unit	kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783370	Drill Core	7.50	<0.001	0.007	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.97	<0.01	0.007	<0.001	<0.001	<0.01	1.71	0.037	<0.001	0.22	0.51
783371	Drill Core	5.50	<0.001	0.010	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.92	<0.01	0.007	<0.001	<0.001	<0.01	1.75	0.037	<0.001	0.18	0.43
783372	Drill Core	5.90	<0.001	0.020	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.80	<0.01	0.009	<0.001	<0.001	<0.01	2.63	0.036	<0.001	0.20	0.35
783373	Drill Core	6.00	<0.001	0.099	<0.01	<0.01	<2	<0.001	<0.001	0.10	0.80	<0.01	0.007	<0.001	<0.001	<0.01	2.33	0.037	<0.001	0.14	0.38
783374	Drill Core	5.40	<0.001	0.030	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.97	<0.01	0.007	<0.001	<0.001	<0.01	1.94	0.037	<0.001	0.15	0.42
783375	Rock Pulp		0.028	0.354	<0.01	<0.01	11	<0.001	<0.001	0.03	1.06	<0.01	0.021	<0.001	0.002	<0.01	1.21	0.025	0.002	0.09	0.47
783376	Drill Core	6.60	<0.001	0.027	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.97	<0.01	0.008	<0.001	<0.001	<0.01	2.25	0.039	<0.001	0.23	0.42
783377	Drill Core	7.40	<0.001	0.019	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.08	<0.01	0.006	<0.001	<0.001	<0.01	1.81	0.039	<0.001	0.23	0.45
783378	Drill Core	6.60	<0.001	0.118	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.04	<0.01	0.005	<0.001	<0.001	<0.01	1.72	0.036	<0.001	0.22	0.51
783379	Drill Core	7.30	<0.001	0.102	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.02	<0.01	0.005	<0.001	<0.001	<0.01	1.65	0.030	<0.001	0.24	0.54
783380	Drill Core	6.40	<0.001	0.244	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.01	<0.01	0.005	<0.001	<0.001	<0.01	1.84	0.039	<0.001	0.22	0.57
783381	Drill Core	7.30	<0.001	0.175	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.27	<0.01	0.004	<0.001	<0.001	<0.01	1.47	0.040	<0.001	0.28	0.57
783382	Drill Core	5.80	<0.001	0.391	<0.01	<0.01	<2	<0.001	<0.001	0.11	1.01	<0.01	0.005	<0.001	<0.001	<0.01	1.75	0.039	<0.001	0.21	0.53
783383	Drill Core	5.50	<0.001	0.141	<0.01	<0.01	<2	<0.001	<0.001	0.13	1.19	<0.01	0.005	<0.001	<0.001	<0.01	2.10	0.039	<0.001	0.27	0.57
783384	Drill Core	3.30	<0.001	0.040	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.37	<0.01	0.005	<0.001	<0.001	<0.01	1.14	0.039	<0.001	0.37	0.77
783385	Drill Core	0.90	<0.001	0.470	<0.01	<0.01	3	<0.001	<0.001	0.11	1.11	<0.01	0.005	<0.001	<0.001	<0.01	1.73	0.041	<0.001	0.22	0.52
783386	Drill Core	0.90	<0.001	0.356	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.21	<0.01	0.005	<0.001	<0.001	<0.01	1.51	0.041	<0.001	0.25	0.58
783387	Drill Core	3.00	<0.001	0.838	<0.01	<0.01	5	<0.001	<0.001	0.11	0.98	<0.01	0.007	<0.001	<0.001	<0.01	1.73	0.040	<0.001	0.22	0.54
783388	Drill Core	4.80	<0.001	0.361	<0.01	<0.01	2	<0.001	<0.001	0.11	0.96	<0.01	0.005	<0.001	<0.001	<0.01	1.81	0.039	<0.001	0.19	0.51
783389	Drill Core	4.50	0.003	3.266	<0.01	<0.01	18	<0.001	<0.001	0.11	0.83	<0.01	0.004	<0.001	<0.001	<0.01	1.80	0.029	<0.001	0.06	0.38
783390	Drill Core	3.70	<0.001	2.842	<0.01	<0.01	15	<0.001	<0.001	0.11	0.73	<0.01	0.005	<0.001	0.001	<0.01	1.95	0.032	<0.001	0.05	0.32
783391	Drill Core	4.30	<0.001	1.043	<0.01	<0.01	5	<0.001	<0.001	0.15	1.08	<0.01	0.006	<0.001	<0.001	<0.01	2.32	0.030	<0.001	0.17	0.40
783392	Drill Core	3.10	<0.001	0.684	<0.01	<0.01	5	<0.001	<0.001	0.17	1.70	<0.01	0.006	<0.001	<0.001	<0.01	2.45	0.047	<0.001	0.42	0.65
783393	Drill Core	5.00	<0.001	0.252	<0.01	<0.01	2	<0.001	<0.001	0.10	0.98	<0.01	0.008	<0.001	0.001	<0.01	2.08	0.041	<0.001	0.23	0.58
783394	Drill Core	3.50	<0.001	0.326	<0.01	<0.01	3	<0.001	<0.001	0.08	1.34	<0.01	0.007	<0.001	<0.001	<0.01	1.65	0.045	<0.001	0.39	0.70
783395	Rock Pulp		0.028	0.354	<0.01	<0.01	11	<0.001	<0.001	0.03	1.01	<0.01	0.021	<0.001	0.002	<0.01	1.21	0.024	0.002	0.09	0.47
783396	Drill Core	7.40	0.001	0.170	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.29	<0.01	0.006	<0.001	0.001	<0.01	1.79	0.047	<0.001	0.40	0.75
783397	Drill Core	7.70	0.001	0.028	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.31	<0.01	0.007	<0.001	<0.001	<0.01	1.83	0.045	<0.001	0.39	0.85
783398	Drill Core	5.10	0.003	0.091	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.23	<0.01	0.007	<0.001	<0.001	<0.01	2.38	0.043	<0.001	0.35	0.69
783399	Drill Core	6.10	<0.001	0.072	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.36	<0.01	0.006	<0.001	<0.001	<0.01	1.81	0.047	<0.001	0.35	0.73

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

	Method	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg
	Unit	%	%	%	%
	MDL	0.01	0.01	0.001	0.001
783370	Drill Core	0.04	0.22	<0.001	<0.001
783371	Drill Core	0.04	0.26	<0.001	<0.001
783372	Drill Core	0.02	0.28	<0.001	<0.001
783373	Drill Core	0.03	0.30	<0.001	<0.001
783374	Drill Core	0.04	0.28	<0.001	<0.001
783375	Rock Pulp	0.04	0.29	<0.001	<0.001
783376	Drill Core	0.04	0.28	<0.001	<0.001
783377	Drill Core	0.04	0.22	<0.001	<0.001
783378	Drill Core	0.04	0.24	<0.001	<0.001
783379	Drill Core	0.03	0.24	<0.001	<0.001
783380	Drill Core	0.03	0.29	<0.001	<0.001
783381	Drill Core	0.04	0.20	<0.001	<0.001
783382	Drill Core	0.03	0.29	<0.001	<0.001
783383	Drill Core	0.03	0.23	<0.001	<0.001
783384	Drill Core	0.06	0.12	<0.001	<0.001
783385	Drill Core	0.03	0.25	<0.001	<0.001
783386	Drill Core	0.04	0.25	<0.001	<0.001
783387	Drill Core	0.03	0.28	<0.001	<0.001
783388	Drill Core	0.03	0.31	<0.001	<0.001
783389	Drill Core	<0.01	0.37	<0.001	<0.001
783390	Drill Core	<0.01	0.33	<0.001	<0.001
783391	Drill Core	0.01	0.34	<0.001	<0.001
783392	Drill Core	0.02	0.30	<0.001	<0.001
783393	Drill Core	0.03	0.31	<0.001	<0.001
783394	Drill Core	0.04	0.23	<0.001	<0.001
783395	Rock Pulp	0.04	0.29	<0.001	<0.001
783396	Drill Core	0.04	0.23	<0.001	<0.001
783397	Drill Core	0.05	0.19	<0.001	<0.001
783398	Drill Core	0.04	0.20	<0.001	<0.001
783399	Drill Core	0.05	0.23	<0.001	<0.001

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Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783400	Drill Core	5.10	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.52	<0.01	0.006	<0.001	0.001	<0.01	1.25	0.049	<0.001	0.40	0.73
783401	Drill Core	7.40	<0.001	0.019	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.31	<0.01	0.009	<0.001	<0.001	<0.01	1.96	0.045	<0.001	0.39	1.04
783402	Drill Core	4.60	<0.001	0.016	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.22	<0.01	0.010	<0.001	0.002	<0.01	2.22	0.043	<0.001	0.39	1.20
783403	Drill Core	4.60	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.34	<0.01	0.019	<0.001	<0.001	<0.01	2.77	0.049	<0.001	0.44	1.88
783404	Drill Core	7.10	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.04	<0.01	0.007	<0.001	<0.001	<0.01	1.68	0.034	<0.001	0.30	0.93
783405	Drill Core	1.00	0.002	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.69	<0.01	0.009	<0.001	<0.001	<0.01	1.89	0.027	<0.001	0.26	0.85
783406	Drill Core	1.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.73	<0.01	0.009	<0.001	<0.001	<0.01	2.04	0.024	<0.001	0.27	1.16
783407	Drill Core	6.50	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.29	<0.01	0.008	<0.001	<0.001	<0.01	1.92	0.042	<0.001	0.46	0.96
783408	Drill Core	5.40	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.09	0.92	<0.01	0.011	<0.001	<0.001	<0.01	2.10	0.035	<0.001	0.43	0.85
783409	Drill Core	7.70	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.23	<0.01	0.008	<0.001	<0.001	<0.01	1.74	0.044	<0.001	0.58	0.90
783410	Drill Core	7.60	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.34	<0.01	0.010	<0.001	<0.001	<0.01	2.00	0.048	<0.001	0.49	0.98
783411	Drill Core	6.30	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.13	<0.01	0.009	<0.001	<0.001	<0.01	2.05	0.043	<0.001	0.41	1.06
783412	Drill Core	7.50	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.07	<0.01	0.008	<0.001	<0.001	<0.01	1.89	0.036	<0.001	0.35	1.06
783413	Drill Core	7.50	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.49	<0.01	0.009	<0.001	<0.001	<0.01	1.36	0.047	<0.001	0.43	1.10
783414	Drill Core	6.80	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.20	<0.01	0.010	<0.001	0.001	<0.01	1.38	0.031	<0.001	0.41	1.07
783415	Rock Pulp		0.028	0.353	<0.01	<0.01	11	<0.001	<0.001	0.03	1.03	<0.01	0.021	<0.001	0.003	<0.01	1.21	0.024	0.002	0.09	0.48
783416	Drill Core	6.20	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.22	<0.01	0.012	<0.001	<0.001	<0.01	1.69	0.039	<0.001	0.41	1.24
783417	Drill Core	7.40	<0.001	0.028	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.29	<0.01	0.010	<0.001	<0.001	<0.01	1.60	0.040	<0.001	0.36	0.91
783418	Drill Core	7.00	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.03	<0.01	0.008	<0.001	<0.001	<0.01	1.33	0.032	<0.001	0.26	0.78
783419	Drill Core	7.20	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.74	<0.01	0.009	<0.001	<0.001	<0.01	1.83	0.028	<0.001	0.15	0.56
783420	Drill Core	3.20	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.43	<0.01	0.015	<0.001	<0.001	<0.01	1.60	0.043	<0.001	0.44	1.17
783421	Drill Core	5.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.34	<0.01	0.010	<0.001	<0.001	<0.01	1.53	0.047	<0.001	0.44	1.05
783422	Drill Core	3.50	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.02	<0.01	0.014	<0.001	<0.001	<0.01	1.39	0.031	<0.001	0.32	1.03
783423	Drill Core	5.10	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.91	<0.01	0.012	<0.001	<0.001	<0.01	1.92	0.032	<0.001	0.30	0.60
783424	Drill Core	3.70	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.95	<0.01	0.020	<0.001	<0.001	<0.01	2.29	0.038	<0.001	0.33	0.76
783425	Drill Core	1.40	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.53	<0.01	0.012	<0.001	<0.001	<0.01	1.21	0.046	<0.001	0.42	0.86
783426	Drill Core	1.40	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.51	<0.01	0.013	<0.001	<0.001	<0.01	1.24	0.048	<0.001	0.43	0.84
783427	Drill Core	5.40	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.06	<0.01	0.006	<0.001	<0.001	<0.01	1.94	0.038	<0.001	0.28	0.65
783428	Drill Core	6.50	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.16	<0.01	0.007	<0.001	<0.001	<0.01	1.41	0.041	<0.001	0.36	0.74
783429	Drill Core	6.30	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.04	<0.01	0.007	<0.001	<0.001	<0.01	1.89	0.038	<0.001	0.28	0.75

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

	Method	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg
	Unit	%	%	%	%
	MDL	0.01	0.01	0.001	0.001
783400	Drill Core	0.06	0.17	<0.001	<0.001
783401	Drill Core	0.09	0.21	<0.001	<0.001
783402	Drill Core	0.08	0.26	<0.001	<0.001
783403	Drill Core	0.06	0.20	<0.001	<0.001
783404	Drill Core	0.08	0.22	<0.001	<0.001
783405	Drill Core	0.04	0.21	<0.001	<0.001
783406	Drill Core	0.08	0.22	<0.001	<0.001
783407	Drill Core	0.05	0.19	<0.001	<0.001
783408	Drill Core	0.04	0.18	<0.001	<0.001
783409	Drill Core	0.04	0.15	<0.001	<0.001
783410	Drill Core	0.05	0.16	<0.001	<0.001
783411	Drill Core	0.06	0.20	<0.001	<0.001
783412	Drill Core	0.07	0.21	<0.001	<0.001
783413	Drill Core	0.08	0.16	<0.001	<0.001
783414	Drill Core	0.07	0.14	<0.001	<0.001
783415	Rock Pulp	0.04	0.29	<0.001	<0.001
783416	Drill Core	0.07	0.17	<0.001	<0.001
783417	Drill Core	0.06	0.16	<0.001	<0.001
783418	Drill Core	0.08	0.16	<0.001	0.001
783419	Drill Core	0.04	0.18	<0.001	<0.001
783420	Drill Core	0.11	0.17	<0.001	<0.001
783421	Drill Core	0.09	0.17	<0.001	<0.001
783422	Drill Core	0.12	0.20	<0.001	<0.001
783423	Drill Core	0.03	0.19	<0.001	<0.001
783424	Drill Core	0.03	0.18	<0.001	<0.001
783425	Drill Core	0.06	0.15	<0.001	<0.001
783426	Drill Core	0.05	0.14	<0.001	<0.001
783427	Drill Core	0.05	0.27	0.001	<0.001
783428	Drill Core	0.05	0.19	<0.001	<0.001
783429	Drill Core	0.05	0.23	<0.001	<0.001

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783430	Drill Core	6.80	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.96	<0.01	0.009	<0.001	<0.001	<0.01	2.33	0.040	<0.001	0.23	0.64
783431	Drill Core	6.40	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.29	<0.01	0.009	<0.001	<0.001	<0.01	1.30	0.039	<0.001	0.43	0.99
783432	Drill Core	7.20	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.40	<0.01	0.007	<0.001	<0.001	<0.01	1.13	0.044	<0.001	0.42	0.75
783433	Drill Core	6.10	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.17	<0.01	0.008	<0.001	<0.001	<0.01	1.88	0.044	<0.001	0.36	0.81
783434	Drill Core	7.80	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.98	<0.01	0.007	<0.001	<0.001	<0.01	2.12	0.042	<0.001	0.27	0.64
783435	Rock Pulp		0.028	0.351	<0.01	<0.01	11	<0.001	<0.001	0.03	1.06	<0.01	0.022	<0.001	0.003	<0.01	1.18	0.025	0.002	0.09	0.45
783436	Drill Core	7.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.02	<0.01	0.007	<0.001	<0.001	<0.01	2.05	0.043	<0.001	0.26	0.66
783437	Drill Core	5.50	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.18	<0.01	0.008	<0.001	<0.001	<0.01	1.98	0.045	<0.001	0.37	0.85
783438	Drill Core	6.10	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.36	<0.01	0.008	<0.001	<0.001	<0.01	1.37	0.044	<0.001	0.39	0.92
783439	Drill Core	6.60	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.12	<0.01	0.008	<0.001	<0.001	<0.01	1.62	0.043	<0.001	0.33	0.74
783440	Drill Core	6.90	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.24	<0.01	0.009	<0.001	<0.001	<0.01	2.01	0.040	<0.001	0.34	0.73
783441	Drill Core	6.70	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.10	<0.01	0.006	<0.001	<0.001	<0.01	2.05	0.049	<0.001	0.53	0.79
783442	Drill Core	6.10	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.43	<0.01	0.008	<0.001	<0.001	<0.01	2.08	0.051	<0.001	0.47	0.79
783443	Drill Core	5.70	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.33	<0.01	0.009	<0.001	<0.001	<0.01	1.76	0.045	<0.001	0.38	0.69
783444	Drill Core	5.20	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.13	<0.01	0.009	<0.001	<0.001	<0.01	2.26	0.043	<0.001	0.28	0.68
783445	Drill Core	0.40	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.01	<0.01	0.008	<0.001	<0.001	<0.01	2.66	0.047	<0.001	0.25	0.53
783446	Drill Core	0.40	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.14	<0.01	0.010	<0.001	<0.001	<0.01	2.71	0.046	<0.001	0.28	0.61
783447	Drill Core	5.40	<0.001	0.001	<0.01	<0.01	<2	<0.001	<0.001	0.10	1.10	<0.01	0.010	<0.001	<0.001	<0.01	3.16	0.043	<0.001	0.20	0.52
783448	Drill Core	5.50	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.38	<0.01	0.011	<0.001	<0.001	<0.01	1.45	0.043	<0.001	0.44	1.12
783449	Drill Core	5.40	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.27	<0.01	0.011	<0.001	<0.001	<0.01	1.32	0.044	<0.001	0.41	0.91
783450	Drill Core	6.90	<0.001	0.008	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.41	<0.01	0.009	<0.001	<0.001	<0.01	1.41	0.043	<0.001	0.42	0.92
783451	Drill Core	6.20	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.07	1.23	<0.01	0.013	<0.001	<0.001	<0.01	2.04	0.039	<0.001	0.43	0.99
783452	Drill Core	7.50	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.22	<0.01	0.007	<0.001	<0.001	<0.01	1.50	0.042	<0.001	0.31	0.76
783453	Drill Core	7.90	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.12	<0.01	0.009	<0.001	<0.001	<0.01	1.59	0.040	<0.001	0.33	0.90
783454	Drill Core	6.60	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.04	1.32	<0.01	0.009	<0.001	<0.001	<0.01	1.55	0.044	<0.001	0.32	0.93
783455	Rock Pulp		0.029	0.340	<0.01	<0.01	11	<0.001	<0.001	0.03	1.03	<0.01	0.021	<0.001	0.002	<0.01	1.19	0.026	0.002	0.09	0.55
783456	Drill Core	7.20	<0.001	0.036	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.77	<0.01	0.010	<0.001	<0.001	<0.01	1.55	0.026	<0.001	0.20	0.95
783457	Drill Core	7.80	<0.001	0.006	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.55	<0.01	0.009	<0.001	<0.001	<0.01	1.65	0.013	<0.001	0.13	0.77
783458	Drill Core	5.20	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.30	<0.01	0.007	<0.001	<0.001	<0.01	1.39	0.011	<0.001	0.06	0.44
783459	Drill Core	4.10	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.66	<0.01	0.008	<0.001	<0.001	<0.01	1.30	0.016	<0.001	0.20	0.71

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Project: Rateria
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CERTIFICATE OF ANALYSIS VAN08003555.1

	Method	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg
	Unit	%	%	%	%
	MDL	0.01	0.01	0.001	0.001
783430	Drill Core	0.03	0.27	<0.001	<0.001
783431	Drill Core	0.10	0.14	<0.001	<0.001
783432	Drill Core	0.05	0.12	0.001	<0.001
783433	Drill Core	0.05	0.23	<0.001	<0.001
783434	Drill Core	0.04	0.24	<0.001	<0.001
783435	Rock Pulp	0.04	0.28	<0.001	<0.001
783436	Drill Core	0.05	0.24	<0.001	<0.001
783437	Drill Core	0.04	0.21	0.001	<0.001
783438	Drill Core	0.07	0.15	<0.001	<0.001
783439	Drill Core	0.04	0.21	<0.001	<0.001
783440	Drill Core	0.05	0.19	<0.001	<0.001
783441	Drill Core	0.04	0.20	0.001	<0.001
783442	Drill Core	0.05	0.19	<0.001	<0.001
783443	Drill Core	0.04	0.17	<0.001	<0.001
783444	Drill Core	0.03	0.25	<0.001	<0.001
783445	Drill Core	0.03	0.19	<0.001	<0.001
783446	Drill Core	0.04	0.21	<0.001	<0.001
783447	Drill Core	0.03	0.20	0.001	<0.001
783448	Drill Core	0.09	0.20	0.001	<0.001
783449	Drill Core	0.06	0.20	<0.001	<0.001
783450	Drill Core	0.07	0.20	<0.001	<0.001
783451	Drill Core	0.07	0.18	<0.001	<0.001
783452	Drill Core	0.05	0.26	<0.001	<0.001
783453	Drill Core	0.05	0.31	0.001	<0.001
783454	Drill Core	0.10	0.32	<0.001	<0.001
783455	Rock Pulp	0.07	0.31	<0.001	<0.001
783456	Drill Core	0.13	0.35	<0.001	<0.001
783457	Drill Core	0.13	0.31	<0.001	<0.001
783458	Drill Core	0.08	0.26	<0.001	<0.001
783459	Drill Core	0.10	0.27	<0.001	<0.001

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Method		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
Unit		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
783460	Drill Core	8.00	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.89	<0.01	0.009	<0.001	<0.001	<0.01	0.92	0.027	<0.001	0.22	1.03
783461	Drill Core	4.60	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.05	0.92	<0.01	0.009	<0.001	<0.001	<0.01	2.49	0.039	<0.001	0.22	0.69
783462	Drill Core	4.60	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.02	<0.01	0.009	<0.001	<0.001	<0.01	2.34	0.040	<0.001	0.24	0.76
783463	Drill Core	4.10	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.46	<0.01	0.011	<0.001	<0.001	<0.01	1.07	0.014	<0.001	0.14	0.88
783464	Drill Core	7.20	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.11	0.68	<0.01	0.019	<0.001	<0.001	<0.01	3.78	0.020	<0.001	0.21	0.76
783465	Drill Core	0.80	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.37	<0.01	0.010	<0.001	<0.001	<0.01	1.48	0.014	<0.001	0.09	0.58
783466	Drill Core	0.80	<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.46	<0.01	0.009	<0.001	<0.001	<0.01	1.49	0.016	0.001	0.12	0.69
783467	Drill Core	6.60	<0.001	0.015	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.32	<0.01	0.007	<0.001	<0.001	<0.01	1.90	0.011	<0.001	0.10	0.48
783468	Drill Core	5.40	<0.001	0.011	<0.01	<0.01	<2	<0.001	<0.001	0.08	0.77	<0.01	0.007	<0.001	<0.001	<0.01	2.01	0.027	<0.001	0.17	0.62
783469	Drill Core	6.50	<0.001	0.014	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.65	<0.01	0.007	<0.001	<0.001	<0.01	2.01	0.031	<0.001	0.14	0.54
783470	Drill Core	6.20	<0.001	0.036	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.93	<0.01	0.009	<0.001	<0.001	<0.01	2.15	0.028	<0.001	0.26	0.63
783471	Drill Core	7.00	<0.001	0.133	<0.01	<0.01	3	<0.001	<0.001	0.05	0.66	<0.01	0.007	<0.001	<0.001	<0.01	1.56	0.022	<0.001	0.18	0.48
783472	Drill Core	7.20	0.001	0.022	<0.01	<0.01	2	<0.001	<0.001	0.04	0.90	<0.01	0.011	<0.001	<0.001	<0.01	1.42	0.026	<0.001	0.27	0.69
783473	Drill Core	8.10	<0.001	0.103	<0.01	<0.01	2	<0.001	<0.001	0.05	0.80	<0.01	0.008	<0.001	<0.001	<0.01	1.33	0.025	<0.001	0.22	0.65

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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

CERTIFICATE OF ANALYSIS VAN08003555.1

Method		7AR	7AR	7AR	7AR
Analyte		Na	K	W	Hg
Unit		%	%	%	%
MDL		0.01	0.01	0.001	0.001
783460	Drill Core	0.20	0.31	<0.001	<0.001
783461	Drill Core	0.06	0.35	<0.001	<0.001
783462	Drill Core	0.06	0.40	<0.001	<0.001
783463	Drill Core	0.15	0.27	<0.001	<0.001
783464	Drill Core	0.09	0.27	<0.001	<0.001
783465	Drill Core	0.07	0.30	<0.001	<0.001
783466	Drill Core	0.09	0.32	<0.001	<0.001
783467	Drill Core	0.07	0.29	<0.001	<0.001
783468	Drill Core	0.05	0.37	<0.001	<0.001
783469	Drill Core	0.04	0.35	<0.001	<0.001
783470	Drill Core	0.04	0.31	<0.001	<0.001
783471	Drill Core	0.03	0.29	<0.001	<0.001
783472	Drill Core	0.06	0.23	<0.001	<0.001
783473	Drill Core	0.06	0.23	<0.001	<0.001

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Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003555.1

	Method	WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
	Unit	kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
Pulp Duplicates																					
783343	Drill Core	6.40	<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.87	<0.01	0.007	<0.001	<0.001	<0.01	2.27	0.039	<0.001	0.22	0.66
REP 783343	QC		<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.88	<0.01	0.007	<0.001	<0.001	<0.01	2.32	0.042	<0.001	0.22	0.67
783365	Drill Core	1.40	<0.001	0.027	<0.01	<0.01	<2	<0.001	<0.001	0.06	1.01	<0.01	0.005	<0.001	<0.001	<0.01	1.48	0.029	<0.001	0.38	0.67
REP 783365	QC		<0.001	0.027	<0.01	<0.01	<2	<0.001	<0.001	0.06	0.99	<0.01	0.005	<0.001	<0.001	<0.01	1.44	0.029	<0.001	0.37	0.67
783396	Drill Core	7.40	0.001	0.170	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.29	<0.01	0.006	<0.001	0.001	<0.01	1.79	0.047	<0.001	0.40	0.75
REP 783396	QC		0.001	0.168	<0.01	<0.01	<2	<0.001	<0.001	0.09	1.30	<0.01	0.006	<0.001	<0.001	<0.01	1.81	0.047	<0.001	0.39	0.75
783427	Drill Core	5.40	<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.06	<0.01	0.006	<0.001	<0.001	<0.01	1.94	0.038	<0.001	0.28	0.65
REP 783427	QC		<0.001	0.003	<0.01	<0.01	<2	<0.001	<0.001	0.05	1.07	<0.01	0.006	<0.001	<0.001	<0.01	1.95	0.039	<0.001	0.28	0.65
783460	Drill Core	8.00	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.89	<0.01	0.009	<0.001	<0.001	<0.01	0.92	0.027	<0.001	0.22	1.03
REP 783460	QC		<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.03	0.88	<0.01	0.009	<0.001	<0.001	<0.01	0.91	0.025	<0.001	0.22	1.09
783470	Drill Core	6.20	<0.001	0.036	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.93	<0.01	0.009	<0.001	<0.001	<0.01	2.15	0.028	<0.001	0.26	0.63
REP 783470	QC		<0.001	0.036	<0.01	<0.01	<2	<0.001	<0.001	0.07	0.95	<0.01	0.009	<0.001	<0.001	<0.01	2.14	0.027	<0.001	0.26	0.64
Core Reject Duplicates																					
783353	Drill Core	6.50	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.13	<0.01	0.009	<0.001	<0.001	<0.01	2.20	0.045	<0.001	0.33	0.66
DUP 783353	QC		<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.08	1.14	<0.01	0.009	<0.001	<0.001	<0.01	2.13	0.046	<0.001	0.34	0.68
783388	Drill Core	4.80	<0.001	0.361	<0.01	<0.01	2	<0.001	<0.001	0.11	0.96	<0.01	0.005	<0.001	<0.001	<0.01	1.81	0.039	<0.001	0.19	0.51
DUP 783388	QC		<0.001	0.322	<0.01	<0.01	<2	<0.001	<0.001	0.11	0.96	<0.01	0.005	<0.001	<0.001	<0.01	1.79	0.040	<0.001	0.19	0.51
783423	Drill Core	5.10	<0.001	0.009	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.91	<0.01	0.012	<0.001	<0.001	<0.01	1.92	0.032	<0.001	0.30	0.60
DUP 783423	QC		<0.001	0.010	<0.01	<0.01	<2	<0.001	<0.001	0.04	0.97	<0.01	0.013	<0.001	<0.001	<0.01	1.94	0.032	<0.001	0.30	0.66
783458	Drill Core	5.20	<0.001	0.004	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.30	<0.01	0.007	<0.001	<0.001	<0.01	1.39	0.011	<0.001	0.06	0.44
DUP 783458	QC		<0.001	0.005	<0.01	<0.01	<2	<0.001	<0.001	0.02	0.32	<0.01	0.007	<0.001	<0.001	<0.01	1.38	0.008	<0.001	0.06	0.53
Reference Materials																					
STD CCU-1C	Standard																				
STD CZN-3	Standard																				
STD MP-2	Standard																				
STD PBC-1	Standard																				
STD PTC-1A	Standard																				
STD R3A	Standard		0.075	0.816	1.98	4.02	198	0.536	0.061	0.07	31.74	0.04	0.003	0.023	0.039	<0.01	1.31	0.048	0.011	1.05	1.09

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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003555.1

	Method	7AR	7AR	7AR	7AR	7AR
	Analyte	Na	K	W	Hg	Ag
	Unit	%	%	%	%	GM/T
	MDL	0.01	0.01	0.001	0.001	2
Pulp Duplicates						
783343	Drill Core	0.06	0.28	<0.001	<0.001	
REP 783343	QC	0.06	0.29	<0.001	<0.001	
783365	Drill Core	0.04	0.22	<0.001	<0.001	
REP 783365	QC	0.04	0.22	<0.001	<0.001	
783396	Drill Core	0.04	0.23	<0.001	<0.001	
REP 783396	QC	0.04	0.23	<0.001	<0.001	
783427	Drill Core	0.05	0.27	0.001	<0.001	
REP 783427	QC	0.05	0.27	0.001	<0.001	
783460	Drill Core	0.20	0.31	<0.001	<0.001	
REP 783460	QC	0.22	0.33	<0.001	<0.001	
783470	Drill Core	0.04	0.31	<0.001	<0.001	
REP 783470	QC	0.04	0.31	<0.001	<0.001	
Core Reject Duplicates						
783353	Drill Core	0.04	0.20	<0.001	<0.001	
DUP 783353	QC	0.04	0.20	<0.001	<0.001	
783388	Drill Core	0.03	0.31	<0.001	<0.001	
DUP 783388	QC	0.03	0.30	<0.001	<0.001	
783423	Drill Core	0.03	0.19	<0.001	<0.001	
DUP 783423	QC	0.04	0.22	<0.001	<0.001	
783458	Drill Core	0.08	0.26	<0.001	<0.001	
DUP 783458	QC	0.11	0.29	<0.001	<0.001	10
Reference Materials						
STD CCU-1C	Standard					113
STD CZN-3	Standard					37
STD MP-2	Standard					<2
STD PBC-1	Standard					1760
STD PTC-1A	Standard					46
STD R3A	Standard	0.04	0.43	<0.001	0.002	

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Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003555.1

		WGHT	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	Al
		kg	%	%	%	%	GM/T	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001	0.01	0.01
STD R3A	Standard		0.076	0.814	1.99	4.04	198	0.541	0.061	0.07	32.14	0.04	0.003	0.023	0.039	<0.01	1.31	0.049	0.011	1.05	1.10
STD R3A	Standard		0.075	0.804	1.99	4.02	199	0.540	0.062	0.07	32.14	0.04	0.003	0.023	0.041	<0.01	1.29	0.050	0.011	1.06	1.10
STD R3A	Standard		0.075	0.810	1.97	4.02	197	0.531	0.061	0.07	31.53	0.04	0.003	0.023	0.040	<0.01	1.28	0.048	0.011	1.05	1.09
STD R3A	Standard		0.075	0.822	1.97	3.99	194	0.531	0.060	0.07	31.36	0.04	0.003	0.023	0.037	<0.01	1.30	0.048	0.011	1.04	1.08
STD R3A	Standard		0.074	0.817	1.97	3.97	195	0.530	0.060	0.07	31.55	0.04	0.003	0.023	0.037	<0.01	1.31	0.048	0.011	1.05	1.08
STD R3A	Standard		0.078	0.807	1.93	3.99	198	0.539	0.061	0.07	31.31	0.04	0.003	0.023	0.037	<0.01	1.28	0.049	0.012	1.03	1.08
STD R3A	Standard		0.076	0.810	1.91	3.98	196	0.539	0.061	0.07	31.26	0.04	0.003	0.023	0.037	<0.01	1.28	0.048	0.012	1.03	1.07
STD R3A	Standard		0.076	0.811	1.90	3.95	195	0.538	0.060	0.07	31.36	0.04	0.003	0.023	0.040	<0.01	1.28	0.050	0.012	1.03	1.08
STD R3A	Standard		0.076	0.817	1.91	3.98	196	0.541	0.060	0.07	31.54	0.04	0.003	0.023	0.040	<0.01	1.28	0.050	0.012	1.03	1.08
STD R3A	Standard		0.076	0.821	1.92	4.02	199	0.547	0.061	0.07	32.19	0.04	0.003	0.023	0.039	<0.01	1.29	0.049	0.012	1.05	1.10
STD R3A	Standard		0.077	0.823	1.93	4.02	199	0.546	0.061	0.07	32.17	0.04	0.003	0.023	0.038	<0.01	1.29	0.050	0.012	1.05	1.10
STD R3A Expected			0.077	0.811	1.92	4.03	197	0.524	0.062	0.07	32.47	0.04	0.003	0.023	0.031		1.29	0.05	0.011	1.04	1.08
STD CZN-3 Expected																					
STD MP-2 Expected																					
STD PTC-1A Expected																					
STD CCU-1C Expected																					
STD PBC-1 Expected																					
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank		<0.001	<0.001	<0.01	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.06	1.95	<0.01	0.008	<0.001	<0.001	<0.01	0.56	0.076	0.002	0.80	1.21
G1	Prep Blank	<0.01	<0.001	<0.001	<0.01	<0.01	<2	0.001	<0.001	0.06	1.91	<0.01	0.008	<0.001	<0.001	<0.01	0.54	0.074	0.001	0.67	1.21

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Project: Rateria
Report Date: February 06, 2008

QUALITY CONTROL REPORT VAN08003555.1

		7AR Na % 0.01	7AR K % 0.01	7AR W % 0.001	7AR Hg % 0.001	7AR Ag GM/T 2
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.43	<0.001	0.002	
STD R3A	Standard	0.04	0.42	<0.001	0.002	
STD R3A	Standard	0.04	0.42	<0.001	0.002	
STD R3A	Standard	0.04	0.42	<0.001	0.001	
STD R3A	Standard	0.04	0.42	<0.001	0.002	
STD R3A	Standard	0.04	0.43	0.002	0.002	
STD R3A	Standard	0.04	0.43	0.001	0.001	
STD R3A Expected		0.04	0.41		0.002	
STD CZN-3 Expected						45
STD MP-2 Expected						4.9
STD PTC-1A Expected						56
STD CCU-1C Expected						129
STD PBC-1 Expected						1800
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank	<0.01	<0.01	<0.001	<0.001	
BLK	Blank					<2
Prep Wash						
G1	Prep Blank	0.17	0.56	<0.001	<0.001	
G1	Prep Blank	0.16	0.59	<0.001	<0.001	

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Client: **Reynolds, Paul**
4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Submitted By: Paul Reynolds
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: December 19, 2007
Report Date: February 27, 2008
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN08003610.1

CLIENT JOB INFORMATION

Project: Rateria
Shipment ID:
P.O. Number
Number of Samples: 146

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	138	Crush split and pulverize drill core to 150mesh		
7AX	146	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed

ADDITIONAL COMMENTS

Invoice To: Reynolds, Paul
4035 W. 31st Ave
Vancouver BC V6S 1Y7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

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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Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

	Method	WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
783474	Drill Core	6.50	1.3	1048	2.7	32	1.1	2.2	3.4	540	1.13	<5	0.9	1.8	104	<0.5	<0.5	<0.5	20	1.43	0.043
783475	Rock Pulp		294.6	3538	20.2	30	10.1	1.9	1.6	361	1.08	13	0.8	0.8	203	<0.5	27.1	1.5	<10	1.15	0.029
783476	Drill Core	7.20	0.8	71.2	2.3	33	<0.5	1.7	3.4	662	1.17	<5	1.3	1.3	169	<0.5	<0.5	<0.5	23	2.02	0.043
783477	Drill Core	7.00	7.7	660.3	2.6	25	0.6	1.3	3.2	727	0.94	<5	1.8	1.4	156	<0.5	<0.5	<0.5	12	2.84	0.047
783478	Drill Core	7.50	<0.5	77.4	1.8	34	<0.5	1.7	4.0	501	1.18	<5	1.0	1.3	125	<0.5	<0.5	<0.5	23	1.26	0.044
783479	Drill Core	8.00	1.6	102.6	3.3	37	<0.5	2.1	4.0	581	1.31	<5	0.8	1.5	109	<0.5	<0.5	<0.5	23	1.83	0.049
783480	Drill Core	7.60	0.7	164.0	2.7	32	<0.5	2.1	4.3	587	1.20	<5	0.9	1.4	126	<0.5	<0.5	<0.5	22	1.86	0.049
783481	Drill Core	6.00	<0.5	51.1	5.3	36	<0.5	1.3	3.9	511	1.25	<5	0.8	1.5	122	<0.5	<0.5	<0.5	22	1.48	0.049
783482	Drill Core	7.80	4.5	16.0	2.1	39	<0.5	2.0	4.6	609	1.29	<5	1.2	1.3	129	<0.5	<0.5	<0.5	26	1.66	0.046
783483	Drill Core	3.60	<0.5	81.1	2.4	41	<0.5	2.7	4.7	547	1.51	<5	1.0	1.4	123	<0.5	<0.5	<0.5	39	1.15	0.050
783484	Drill Core	5.50	0.5	69.4	1.9	37	<0.5	2.2	4.5	585	1.23	<5	0.7	1.2	91	<0.5	<0.5	<0.5	21	1.45	0.048
783485	Drill Core	0.60	<0.5	47.9	1.9	36	<0.5	2.3	4.3	475	1.32	<5	0.7	1.3	99	<0.5	<0.5	<0.5	27	1.07	0.044
783486	Drill Core	1.00	<0.5	3.0	2.1	38	<0.5	2.0	4.0	578	1.14	<5	0.5	1.1	123	<0.5	<0.5	<0.5	17	1.71	0.050
783487	Drill Core	6.40	3.3	69.8	4.6	25	<0.5	1.9	3.6	639	1.01	<5	0.5	1.6	150	<0.5	<0.5	<0.5	<10	2.37	0.055
783488	Drill Core	7.30	0.6	4.6	2.6	31	<0.5	1.6	3.5	476	1.03	<5	0.6	1.4	109	<0.5	<0.5	<0.5	17	1.46	0.043
783489	Drill Core	4.50	<0.5	167.1	3.0	38	<0.5	2.2	4.4	660	1.30	<5	0.6	1.4	100	<0.5	<0.5	<0.5	23	1.68	0.051
783490	Drill Core	4.00	1.3	709.3	3.1	14	0.6	1.1	2.3	1318	0.75	<5	0.7	1.3	138	<0.5	<0.5	<0.5	<10	3.65	0.044
783491	Drill Core	6.60	0.5	1659	2.2	17	0.9	1.3	2.9	1462	1.04	<5	<0.5	1.7	94	<0.5	<0.5	<0.5	12	3.20	0.052
783492	Drill Core	5.00	0.6	876.3	2.1	24	<0.5	1.9	3.9	889	1.06	<5	0.6	1.5	111	<0.5	<0.5	<0.5	12	2.70	0.045
783493	Drill Core	7.30	0.7	3940	3.3	33	2.3	2.2	4.6	1301	1.19	<5	0.6	1.6	119	<0.5	<0.5	<0.5	13	3.11	0.052
783494	Drill Core	6.40	1.0	2079	2.1	32	1.3	1.2	4.7	1399	1.05	<5	<0.5	1.4	106	<0.5	<0.5	<0.5	<10	3.02	0.050
783495	Rock Pulp		276.8	3138	18.3	25	9.5	1.5	1.4	331	1.01	13	0.8	0.6	191	<0.5	25.5	1.4	<10	1.11	0.025
783496	Drill Core	6.50	1.4	2374	2.4	7	0.9	<0.5	1.0	1627	0.98	<5	0.6	1.6	148	<0.5	1.0	<0.5	11	4.10	0.057
783497	Drill Core	6.20	2.3	1171	2.1	29	0.9	1.1	4.2	1030	0.96	<5	<0.5	1.3	94	<0.5	<0.5	<0.5	11	2.19	0.043
783498	Drill Core	6.20	0.5	848.6	1.6	21	<0.5	1.2	3.0	1133	0.80	<5	0.7	1.5	118	<0.5	<0.5	<0.5	<10	2.62	0.039
783499	Drill Core	4.20	2.2	3553	2.6	18	1.9	2.1	4.6	1279	1.19	<5	0.7	1.2	98	<0.5	0.8	0.9	16	2.11	0.043
783500	Drill Core	7.40	6.1	1388	1.6	26	0.7	2.9	5.2	1111	1.23	<5	0.5	1.5	89	<0.5	<0.5	<0.5	18	2.13	0.050
783501	Drill Core	6.10	0.6	881.3	2.3	23	<0.5	1.7	5.1	1251	1.29	<5	<0.5	1.1	120	<0.5	<0.5	<0.5	22	2.54	0.047
783502	Drill Core	5.90	1.3	2109	2.2	33	1.1	2.0	6.0	1594	1.32	<5	0.7	1.2	167	<0.5	<0.5	<0.5	16	3.07	0.046
783503	Drill Core	6.60	1.6	813.4	2.2	31	<0.5	1.8	5.1	1053	1.16	<5	0.6	1.1	157	<0.5	<0.5	<0.5	15	2.55	0.047

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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4035 W. 31st Ave
Vancouver BC V6S 1Y7 Canada

Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

Method		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
Analyte		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
783474	Drill Core	7.2	4.9	0.35	178	0.034	0.76	0.03	0.28	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783475	Rock Pulp	5.4	21.4	0.10	241	0.005	0.44	0.03	0.28	<0.5	0.11	0.6	<0.5	0.7	<5	<2
783476	Drill Core	6.4	3.7	0.34	346	0.047	0.82	0.04	0.23	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2
783477	Drill Core	9.3	3.9	0.22	467	0.005	0.54	0.03	0.34	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783478	Drill Core	6.6	5.3	0.38	342	0.033	0.63	0.04	0.17	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783479	Drill Core	8.0	4.7	0.37	689	0.030	0.71	0.04	0.30	0.7	<0.05	1.5	<0.5	<0.5	<5	<2
783480	Drill Core	6.6	5.0	0.36	420	0.037	0.71	0.04	0.24	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783481	Drill Core	7.1	5.7	0.37	686	0.036	0.73	0.04	0.28	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783482	Drill Core	5.9	4.9	0.43	638	0.049	0.74	0.04	0.19	0.6	<0.05	1.6	<0.5	<0.5	<5	<2
783483	Drill Core	5.6	5.9	0.47	255	0.102	0.80	0.06	0.14	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783484	Drill Core	5.2	4.8	0.40	289	0.022	0.67	0.04	0.20	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783485	Drill Core	5.1	5.1	0.44	247	0.062	0.73	0.05	0.16	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783486	Drill Core	7.3	4.6	0.38	289	0.004	0.68	0.04	0.24	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783487	Drill Core	9.3	4.5	0.29	498	0.003	0.64	0.03	0.30	<0.5	<0.05	1.5	<0.5	<0.5	<5	2
783488	Drill Core	7.6	4.6	0.35	470	0.007	0.58	0.04	0.22	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783489	Drill Core	7.7	5.5	0.39	406	0.015	0.68	0.04	0.26	<0.5	0.06	1.6	<0.5	<0.5	<5	<2
783490	Drill Core	9.0	5.4	0.11	505	0.001	0.39	<0.01	0.35	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
783491	Drill Core	9.5	3.8	0.16	237	0.002	0.50	0.01	0.41	<0.5	<0.05	0.9	<0.5	<0.5	<5	<2
783492	Drill Core	9.2	5.1	0.21	656	0.003	0.51	0.02	0.31	<0.5	<0.05	1.0	<0.5	<0.5	<5	<2
783493	Drill Core	9.2	5.1	0.21	257	0.002	0.48	0.02	0.35	<0.5	<0.05	1.1	<0.5	<0.5	<5	<2
783494	Drill Core	8.8	3.3	0.23	416	0.001	0.45	0.02	0.36	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
783495	Rock Pulp	5.1	19.7	0.09	221	0.005	0.39	0.03	0.26	<0.5	0.09	0.6	<0.5	0.6	<5	<2
783496	Drill Core	9.4	1.3	0.07	150	0.006	0.41	0.03	0.38	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
783497	Drill Core	7.4	4.5	0.22	249	0.001	0.45	0.02	0.31	<0.5	<0.05	0.7	<0.5	<0.5	<5	<2
783498	Drill Core	6.9	3.2	0.18	641	0.002	0.43	0.02	0.37	1.4	<0.05	0.6	<0.5	<0.5	<5	<2
783499	Drill Core	11.0	2.8	0.34	152	0.004	0.60	0.02	0.35	<0.5	0.10	1.5	<0.5	<0.5	<5	<2
783500	Drill Core	8.0	4.8	0.36	246	0.002	0.55	0.03	0.34	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783501	Drill Core	8.0	4.3	0.34	321	0.002	0.54	0.04	0.32	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783502	Drill Core	8.5	3.6	0.49	1186	0.003	0.62	0.03	0.37	<0.5	<0.05	2.0	<0.5	<0.5	<5	<2
783503	Drill Core	8.2	4.4	0.41	368	0.002	0.55	0.03	0.32	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2

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4035 W. 31st Ave
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Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

Method		WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
783504	Drill Core	7.00	1.4	1562	2.0	25	0.9	1.2	4.6	1014	1.00	<5	<0.5	1.0	109	<0.5	<0.5	<0.5	11	2.54	0.040
783505	Drill Core	1.50	0.8	2054	2.8	24	1.1	0.8	4.6	1589	1.26	<5	0.7	1.1	279	<0.5	<0.5	<0.5	<10	3.63	0.034
783506	Drill Core	1.70	0.6	2528	5.4	26	1.1	3.7	5.1	1610	1.27	<5	0.8	1.0	287	<0.5	<0.5	<0.5	<10	3.63	0.033
783507	Drill Core	6.20	1.1	3794	5.5	20	2.2	1.9	4.7	1175	1.10	<5	<0.5	1.3	137	<0.5	<0.5	<0.5	<10	2.69	0.044
783508	Drill Core	6.70	3.2	982.7	1.0	28	0.5	1.9	4.4	908	1.26	<5	0.7	1.1	133	<0.5	<0.5	<0.5	17	2.30	0.042
783509	Drill Core	7.70	1.5	756.5	3.2	24	<0.5	3.4	4.6	948	1.25	<5	0.9	0.9	161	<0.5	<0.5	<0.5	15	2.89	0.048
783510	Drill Core	3.50	1.3	942.1	2.2	27	0.5	1.8	5.0	958	1.36	<5	0.6	1.0	128	<0.5	<0.5	<0.5	21	2.11	0.043
783511	Drill Core	3.90	1.7	876.9	1.5	30	0.6	3.0	4.7	1121	1.17	<5	0.7	0.9	142	<0.5	<0.5	<0.5	14	2.61	0.039
783512	Drill Core	3.10	2.5	500.8	2.3	14	<0.5	1.1	2.9	757	0.77	<5	1.3	1.9	229	<0.5	<0.5	<0.5	<10	2.69	0.020
783513	Drill Core	6.50	1.0	1739	2.2	25	0.9	2.5	3.9	1014	1.17	<5	1.0	1.4	123	<0.5	<0.5	<0.5	14	2.62	0.054
783514	Drill Core	7.10	32.9	1265	2.4	25	0.7	2.2	3.6	1239	1.06	<5	0.6	1.0	136	<0.5	<0.5	<0.5	10	3.13	0.041
783515	Rock Pulp		281.1	3506	22.4	24	10.5	2.1	1.5	384	1.11	13	0.7	0.7	205	<0.5	25.4	1.5	11	1.19	0.025
783516	Drill Core	7.00	1.6	1200	2.3	18	<0.5	1.2	3.9	1038	1.13	<5	0.5	0.9	141	<0.5	<0.5	<0.5	13	3.17	0.041
783517	Drill Core	5.50	2.0	800.5	3.2	23	<0.5	<0.5	4.1	1142	1.24	<5	0.7	0.7	165	<0.5	<0.5	<0.5	13	3.31	0.042
783518	Drill Core	5.80	3.0	1071	2.4	27	0.9	2.3	4.4	1003	1.29	<5	0.7	0.7	190	<0.5	<0.5	<0.5	<10	2.81	0.047
783519	Drill Core	5.00	1.5	779.3	2.5	29	1.2	0.6	3.7	1069	1.18	<5	<0.5	0.8	135	<0.5	<0.5	<0.5	<10	2.09	0.038
783520	Drill Core	7.20	1.4	926.2	18.6	35	1.6	1.1	3.8	1527	1.03	<5	0.8	0.7	206	<0.5	<0.5	<0.5	<10	3.75	0.040
783521	Drill Core	8.10	13.5	1719	3.0	27	2.6	0.5	2.6	891	0.91	<5	0.9	0.8	180	<0.5	<0.5	<0.5	<10	1.75	0.038
783522	Drill Core	4.40	2.6	2449	4.1	25	3.2	<0.5	3.2	1304	1.02	<5	1.0	1.0	127	<0.5	<0.5	<0.5	<10	3.01	0.040
783523	Drill Core	6.90	0.8	2294	3.9	28	1.4	0.6	3.2	1363	1.06	<5	1.1	1.4	112	<0.5	<0.5	<0.5	<10	3.08	0.044
783524	Drill Core	8.40	<0.5	1744	2.4	25	1.0	<0.5	3.6	1384	1.08	<5	0.6	1.3	114	<0.5	<0.5	<0.5	14	3.30	0.044
783525	Drill Core	1.60	<0.5	1097	2.2	27	0.7	0.9	4.2	968	1.23	<5	1.0	1.0	122	<0.5	<0.5	<0.5	17	2.52	0.042
783526	Drill Core	1.70	0.7	1041	3.3	30	0.7	1.5	4.0	930	1.19	<5	0.8	1.2	121	<0.5	<0.5	<0.5	17	2.28	0.042
783527	Drill Core	7.10	1.2	584.5	3.2	76	<0.5	1.7	3.8	947	1.20	<5	1.0	1.0	149	<0.5	<0.5	<0.5	19	3.10	0.042
783528	Drill Core	8.10	1.4	1507	9.3	30	1.0	0.8	4.3	1287	1.25	<5	0.7	1.1	133	<0.5	<0.5	<0.5	12	3.14	0.049
783529	Drill Core	7.00	1.1	1823	2.7	28	1.2	1.3	5.0	983	1.21	<5	0.6	1.1	131	<0.5	<0.5	<0.5	16	2.66	0.041
783530	Drill Core	4.60	1.1	2581	2.8	30	1.6	1.7	4.9	902	1.31	<5	0.7	0.9	189	<0.5	<0.5	<0.5	12	3.10	0.043
783531	Drill Core	7.70	4.7	1445	2.6	21	0.7	1.0	4.7	729	1.23	<5	1.2	1.2	158	<0.5	<0.5	<0.5	14	2.13	0.045
783532	Drill Core	7.30	17.6	4029	1.6	21	2.3	2.5	3.7	859	1.05	<5	0.6	1.6	109	<0.5	<0.5	<0.5	13	2.13	0.040
783533	Drill Core	6.70	1.0	2375	2.5	23	1.3	<0.5	4.8	697	1.21	<5	0.7	1.7	129	<0.5	<0.5	<0.5	15	2.09	0.042

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	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
783504	Drill Core	7.6	3.7	0.26	316	0.001	0.48	0.02	0.28	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783505	Drill Core	7.2	2.4	0.70	870	0.001	0.58	0.02	0.34	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783506	Drill Core	6.9	3.0	0.68	729	0.001	0.57	0.01	0.32	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783507	Drill Core	7.6	3.3	0.22	263	0.001	0.55	0.02	0.33	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783508	Drill Core	7.6	4.0	0.25	292	0.002	0.55	0.02	0.33	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783509	Drill Core	7.1	3.6	0.38	943	0.002	0.56	0.02	0.32	<0.5	<0.05	1.8	<0.5	<0.5	<5	<2
783510	Drill Core	6.9	3.7	0.35	373	0.002	0.54	0.05	0.32	<0.5	<0.05	2.0	<0.5	<0.5	<5	<2
783511	Drill Core	6.8	4.8	0.23	157	0.001	0.59	0.02	0.33	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783512	Drill Core	7.5	1.9	0.27	334	0.005	0.58	0.02	0.31	<0.5	<0.05	1.1	<0.5	<0.5	<5	<2
783513	Drill Core	7.5	5.0	0.27	287	0.003	0.55	0.03	0.32	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783514	Drill Core	7.5	3.2	0.23	327	0.001	0.54	0.02	0.35	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783515	Rock Pulp	5.6	21.8	0.11	217	0.005	0.51	0.04	0.30	<0.5	0.07	1.1	<0.5	0.6	<5	<2
783516	Drill Core	7.1	4.7	0.25	301	0.001	0.50	0.02	0.33	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783517	Drill Core	7.1	3.8	0.25	272	0.001	0.57	0.02	0.36	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783518	Drill Core	6.3	2.6	0.28	257	0.001	0.54	0.03	0.34	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783519	Drill Core	5.7	2.8	0.26	684	0.002	0.41	<0.01	0.35	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783520	Drill Core	6.8	3.6	0.23	2891	0.001	0.39	<0.01	0.34	<0.5	<0.05	1.0	<0.5	<0.5	<5	<2
783521	Drill Core	5.3	3.6	0.22	1241	0.001	0.46	<0.01	0.35	<0.5	<0.05	1.1	<0.5	<0.5	<5	<2
783522	Drill Core	6.4	2.7	0.27	251	0.001	0.43	<0.01	0.36	<0.5	<0.05	1.0	<0.5	<0.5	<5	2
783523	Drill Core	6.3	4.5	0.19	133	0.001	0.42	<0.01	0.35	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783524	Drill Core	6.6	2.2	0.27	148	0.001	0.43	0.02	0.33	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783525	Drill Core	6.5	3.3	0.33	157	0.002	0.45	0.03	0.27	<0.5	<0.05	1.8	<0.5	<0.5	<5	<2
783526	Drill Core	6.0	4.2	0.33	159	0.002	0.45	0.04	0.28	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783527	Drill Core	7.4	5.6	0.37	233	0.002	0.51	0.04	0.28	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2
783528	Drill Core	7.1	4.2	0.34	201	<0.001	0.46	0.02	0.35	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783529	Drill Core	6.9	3.9	0.31	139	0.001	0.47	0.03	0.33	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783530	Drill Core	6.4	4.8	0.35	165	<0.001	0.50	0.02	0.30	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783531	Drill Core	7.3	2.5	0.37	323	0.002	0.51	0.05	0.29	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783532	Drill Core	7.5	7.3	0.28	178	0.001	0.44	0.03	0.31	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783533	Drill Core	8.0	3.4	0.36	238	0.001	0.44	0.04	0.29	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2

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Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

Method		WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
783534	Drill Core	7.20	1.1	1202	1.8	38	0.8	1.7	4.0	823	0.99	<5	0.6	1.6	111	<0.5	<0.5	<0.5	16	2.17	0.039
783535	Rock Pulp		291.8	3438	20.4	29	10.2	2.1	1.5	343	1.05	13	0.7	0.7	193	<0.5	27.6	1.7	<10	1.23	0.028
783536	Drill Core	7.40	14.0	2442	2.6	29	1.1	1.6	4.7	771	1.19	<5	0.5	1.0	101	<0.5	<0.5	<0.5	17	2.13	0.050
783537	Drill Core	7.40	42.4	3740	13.7	27	2.4	1.7	4.5	854	1.03	<5	0.5	1.0	92	<0.5	<0.5	<0.5	12	1.92	0.042
783538	Drill Core	7.40	7.5	2781	2.9	35	1.6	2.0	5.6	1016	1.26	<5	0.6	1.4	97	<0.5	<0.5	<0.5	20	2.10	0.052
783539	Drill Core	5.60	97.0	5792	1.7	35	3.4	1.8	5.5	1244	1.27	<5	0.7	1.5	88	<0.5	<0.5	0.9	19	2.29	0.052
783540	Drill Core	7.50	354.3	3366	1.4	27	1.9	1.6	5.3	862	1.24	<5	0.6	1.0	95	<0.5	<0.5	<0.5	19	2.00	0.046
783541	Drill Core	7.30	6.5	2469	1.4	24	1.3	1.7	5.2	631	1.28	<5	0.6	1.1	101	<0.5	<0.5	<0.5	21	1.91	0.051
783542	Drill Core	7.70	4.1	2992	1.5	23	1.6	2.2	5.1	828	1.39	<5	0.6	1.2	101	<0.5	<0.5	<0.5	22	2.13	0.055
783543	Drill Core	7.30	2.9	4246	1.6	14	2.4	1.9	3.6	1119	1.10	<5	0.5	1.0	93	<0.5	<0.5	0.7	15	2.74	0.053
783544	Drill Core	7.80	5.7	2828	1.0	40	<0.5	1.4	5.7	938	1.46	<5	0.6	1.3	95	<0.5	<0.5	<0.5	24	2.05	0.053
783545	Drill Core	1.40	64.0	13136	2.5	26	7.6	2.1	4.7	1013	1.20	<5	<0.5	1.2	97	<0.5	<0.5	1.5	17	2.32	0.039
783546	Drill Core	1.40	57.3	13062	1.5	24	7.4	1.8	4.4	1025	1.13	<5	0.5	1.0	89	<0.5	<0.5	1.5	16	2.19	0.042
783547	Drill Core	4.20	6.3	5559	1.8	32	2.9	1.9	4.2	773	1.26	<5	0.6	1.3	87	<0.5	<0.5	0.5	22	2.15	0.052
783548	Drill Core	7.00	1.5	3027	2.0	36	1.8	2.3	5.6	584	1.54	<5	0.6	1.1	95	<0.5	<0.5	<0.5	32	1.47	0.054
783549	Drill Core	6.70	5.1	1335	1.6	32	0.8	2.7	6.1	604	1.56	<5	<0.5	1.1	118	<0.5	<0.5	<0.5	29	1.66	0.051
783550	Drill Core	6.50	2.1	1053	1.5	37	0.6	2.3	6.1	433	1.66	<5	<0.5	1.1	115	<0.5	<0.5	<0.5	32	1.52	0.052
783551	Drill Core	6.80	9.2	3369	1.4	26	2.0	2.5	6.3	652	1.54	<5	0.5	0.9	103	<0.5	<0.5	<0.5	22	2.03	0.054
783552	Drill Core	4.40	8.3	3237	1.3	28	1.8	1.9	6.1	649	1.50	<5	<0.5	0.9	109	<0.5	<0.5	<0.5	24	1.96	0.056
783553	Drill Core	5.10	8.9	2602	1.1	29	1.5	2.4	6.5	863	1.45	<5	<0.5	1.1	144	<0.5	<0.5	<0.5	18	2.85	0.034
783554	Drill Core	5.60	274.7	6327	2.2	7	3.6	0.8	1.5	544	0.66	<5	<0.5	1.3	112	<0.5	<0.5	<0.5	<10	1.79	0.039
783555	Rock Pulp		291.2	3441	19.4	28	10.3	2.1	1.5	346	1.03	14	0.7	0.6	200	<0.5	26.9	1.5	<10	1.17	0.027
783556	Drill Core	8.90	61.8	4881	2.0	9	2.2	1.1	1.7	377	0.60	<5	0.6	1.2	121	<0.5	<0.5	<0.5	<10	1.45	0.019
783557	Drill Core	7.00	4.0	1182	1.9	25	0.7	2.1	5.2	575	1.43	<5	1.0	1.2	90	<0.5	<0.5	<0.5	27	1.61	0.049
783558	Drill Core	7.70	7.7	1382	1.9	24	0.9	2.3	5.3	586	1.56	<5	0.9	1.6	90	<0.5	<0.5	<0.5	28	1.44	0.048
783559	Drill Core	7.50	20.7	3369	1.6	24	2.0	1.9	4.8	584	1.28	<5	0.6	1.9	84	<0.5	<0.5	<0.5	22	1.51	0.047
783560	Drill Core	7.60	0.9	1158	1.8	19	0.7	1.6	4.0	449	1.19	<5	1.3	2.2	58	<0.5	<0.5	<0.5	22	1.11	0.038
783561	Drill Core	3.00	8.4	924.9	2.2	26	0.6	2.4	6.4	563	1.52	<5	1.0	1.6	86	<0.5	<0.5	<0.5	25	1.55	0.052
783562	Drill Core	6.70	6.9	309.2	2.0	10	<0.5	1.7	1.5	340	0.74	<5	0.9	2.5	52	<0.5	<0.5	<0.5	14	1.22	0.028
783563	Drill Core	5.50	3.5	270.5	3.3	10	<0.5	1.1	1.2	258	0.53	<5	1.9	3.2	64	<0.5	<0.5	<0.5	<10	0.98	0.010

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Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
783534	Drill Core	7.9	6.8	0.25	203	0.002	0.36	0.03	0.30	<0.5	0.06	1.2	<0.5	<0.5	<5	<2
783535	Rock Pulp	5.4	21.8	0.10	235	0.005	0.42	0.03	0.27	<0.5	0.11	0.8	<0.5	0.7	<5	<2
783536	Drill Core	6.9	5.0	0.27	234	0.001	0.39	0.03	0.29	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783537	Drill Core	6.3	5.9	0.20	150	0.001	0.41	0.02	0.30	<0.5	<0.05	0.9	<0.5	<0.5	<5	<2
783538	Drill Core	7.7	5.5	0.34	211	0.002	0.48	0.03	0.28	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783539	Drill Core	7.4	3.9	0.31	134	0.002	0.38	0.03	0.32	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783540	Drill Core	7.0	4.2	0.25	151	0.002	0.41	0.03	0.31	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783541	Drill Core	5.8	5.4	0.30	469	0.002	0.42	0.03	0.25	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783542	Drill Core	7.5	5.8	0.28	217	0.003	0.50	0.03	0.33	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783543	Drill Core	7.0	5.1	0.18	135	0.002	0.43	0.02	0.39	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
783544	Drill Core	7.6	6.6	0.31	399	0.002	0.47	0.04	0.27	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783545	Drill Core	5.3	3.6	0.24	130	0.001	0.40	0.03	0.32	<0.5	0.10	1.2	<0.5	<0.5	<5	<2
783546	Drill Core	4.9	4.7	0.21	121	0.001	0.40	0.03	0.31	<0.5	0.09	1.2	<0.5	<0.5	<5	<2
783547	Drill Core	6.9	4.3	0.25	127	0.003	0.51	0.03	0.32	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783548	Drill Core	7.4	5.7	0.33	123	0.027	0.64	0.05	0.19	<0.5	<0.05	2.3	<0.5	<0.5	<5	<2
783549	Drill Core	6.5	4.1	0.39	97	0.002	0.54	0.06	0.18	<0.5	<0.05	2.0	<0.5	<0.5	<5	<2
783550	Drill Core	5.8	4.2	0.33	215	0.004	0.58	0.06	0.18	<0.5	<0.05	2.7	<0.5	<0.5	<5	<2
783551	Drill Core	6.7	4.3	0.36	384	0.002	0.47	0.04	0.27	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783552	Drill Core	6.0	5.1	0.32	563	0.014	0.46	0.04	0.26	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783553	Drill Core	4.6	3.5	0.45	589	0.001	0.42	0.04	0.28	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783554	Drill Core	5.5	5.5	0.07	990	0.002	0.33	0.03	0.31	<0.5	<0.05	0.5	<0.5	<0.5	<5	<2
783555	Rock Pulp	5.4	21.7	0.10	233	0.005	0.43	0.04	0.28	<0.5	0.06	0.6	<0.5	0.5	<5	<2
783556	Drill Core	5.2	5.4	0.07	1042	<0.001	0.36	0.04	0.33	<0.5	<0.05	0.6	<0.5	<0.5	<5	<2
783557	Drill Core	7.5	5.2	0.28	287	0.008	0.50	0.04	0.27	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783558	Drill Core	7.6	5.8	0.28	491	0.004	0.52	0.06	0.23	<0.5	<0.05	1.9	<0.5	<0.5	<5	<2
783559	Drill Core	7.8	5.7	0.20	352	0.003	0.43	0.06	0.26	<0.5	<0.05	1.5	<0.5	<0.5	<5	<2
783560	Drill Core	9.2	7.1	0.20	148	0.003	0.43	0.05	0.21	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783561	Drill Core	9.4	5.7	0.27	116	0.004	0.59	0.04	0.26	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783562	Drill Core	8.0	8.2	0.07	95	0.002	0.34	0.05	0.26	<0.5	<0.05	0.6	<0.5	<0.5	<5	<2
783563	Drill Core	10.7	7.6	0.09	77	0.002	0.32	0.05	0.20	<0.5	<0.05	0.9	<0.5	<0.5	<5	<2

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Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

	Method	WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
783564	Drill Core	7.20	8.4	1670	1.8	<5	0.9	1.2	0.6	328	0.38	<5	0.6	2.0	67	<0.5	<0.5	<0.5	<10	1.54	0.008
783565	Drill Core	1.00	7.9	1260	1.0	<5	0.9	0.8	<0.5	237	0.35	<5	0.5	1.8	47	<0.5	<0.5	<0.5	<10	1.05	0.008
783566	Drill Core	1.00	5.9	2350	1.1	<5	1.3	1.6	<0.5	287	0.39	<5	0.7	2.3	44	<0.5	<0.5	<0.5	<10	1.09	0.013
783567	Drill Core	7.30	1.0	2177	1.6	5	1.2	1.0	0.8	227	0.46	<5	0.9	2.6	48	<0.5	<0.5	<0.5	<10	1.05	0.009
783568	Drill Core	7.20	1.0	1562	2.0	<5	0.9	1.6	0.6	276	0.43	<5	1.0	1.9	49	<0.5	<0.5	<0.5	<10	1.15	0.014
783569	Drill Core	7.20	3.6	5264	2.9	7	2.5	1.0	1.0	464	0.64	<5	1.8	2.9	93	<0.5	<0.5	<0.5	10	1.92	0.017
783570	Drill Core	6.70	1.5	375.0	2.3	16	<0.5	1.4	2.0	481	0.71	<5	1.6	2.9	90	<0.5	<0.5	<0.5	<10	1.76	0.015
783571	Drill Core	6.60	0.9	366.6	2.8	27	<0.5	1.3	3.0	517	0.90	<5	1.6	2.7	114	<0.5	<0.5	<0.5	15	1.73	0.018
783572	Drill Core	6.80	12.8	188.7	3.0	23	<0.5	1.6	3.1	395	0.83	<5	1.2	2.7	97	<0.5	<0.5	<0.5	10	1.28	0.019
783573	Drill Core	7.00	2.9	154.7	3.3	23	<0.5	1.3	2.6	404	0.82	6	1.2	2.5	158	<0.5	<0.5	<0.5	12	1.84	0.029
783574	Drill Core	9.90	0.9	1603	3.7	25	0.8	2.6	4.8	448	1.25	<5	1.1	2.2	102	<0.5	<0.5	<0.5	11	1.32	0.025
783575	Rock Pulp		271.7	3671	22.7	28	11.2	1.4	1.6	359	1.04	15	0.8	1.0	226	<0.5	28.8	1.7	11	1.18	0.025
783576	Drill Core	3.90	6.9	111.2	2.3	13	<0.5	0.8	1.9	406	0.74	<5	1.2	2.9	84	<0.5	<0.5	<0.5	<10	1.35	0.018
783577	Drill Core	4.20	10.8	1584	2.6	29	0.8	1.4	4.6	680	1.28	<5	0.6	1.7	99	<0.5	<0.5	<0.5	17	2.27	0.048
783578	Drill Core	4.20	0.5	27.8	1.9	43	<0.5	0.6	4.9	1062	1.11	<5	0.8	1.2	73	<0.5	<0.5	<0.5	11	2.77	0.051
783579	Drill Core	3.00	<0.5	238.6	1.5	27	<0.5	1.5	3.2	1001	0.87	<5	0.5	1.6	68	<0.5	<0.5	<0.5	11	2.31	0.043
783580	Drill Core	3.30	<0.5	90.6	2.1	15	<0.5	0.7	1.7	758	0.57	<5	0.9	2.8	85	<0.5	<0.5	<0.5	<10	2.95	0.031
783581	Drill Core	6.40	<0.5	85.9	3.1	33	<0.5	1.9	3.5	784	1.00	<5	0.8	2.1	102	<0.5	<0.5	<0.5	11	2.60	0.043
783582	Drill Core	7.00	<0.5	19.8	3.1	35	<0.5	1.6	3.2	629	1.13	<5	1.0	2.0	117	<0.5	<0.5	<0.5	14	1.97	0.043
783583	Drill Core	6.80	0.7	128.2	3.3	37	<0.5	1.7	4.1	815	1.14	<5	0.8	2.1	105	<0.5	<0.5	<0.5	12	2.53	0.050
783584	Drill Core	7.40	<0.5	99.5	2.8	39	<0.5	1.3	3.6	853	1.07	<5	0.9	2.1	87	<0.5	<0.5	<0.5	10	2.64	0.047
783585	Drill Core	3.90	0.6	509.1	5.4	33	<0.5	1.1	2.8	1030	0.81	<5	0.7	2.0	81	<0.5	<0.5	<0.5	<10	2.84	0.045
783586	Drill Core	6.60	0.6	256.0	1.9	38	<0.5	1.8	3.8	1097	1.01	<5	1.0	2.2	83	<0.5	<0.5	<0.5	12	2.52	0.048
783587	Drill Core	0.80	<0.5	66.1	2.1	45	<0.5	2.0	4.8	657	1.40	<5	0.9	2.1	74	<0.5	<0.5	<0.5	19	1.77	0.048
783588	Drill Core	0.80	<0.5	53.1	2.3	40	<0.5	1.5	5.1	751	1.33	<5	0.9	2.0	67	<0.5	<0.5	<0.5	19	1.88	0.051
783589	Drill Core	4.50	<0.5	27.4	2.4	40	<0.5	2.6	4.8	628	1.32	<5	0.8	1.6	65	<0.5	<0.5	<0.5	19	1.43	0.046
783590	Drill Core	6.70	<0.5	101.3	2.4	30	<0.5	1.8	4.6	752	1.20	<5	0.6	1.5	61	<0.5	<0.5	<0.5	15	1.97	0.048
783591	Drill Core	6.50	<0.5	101.2	2.5	35	<0.5	1.7	4.3	1082	1.07	<5	0.6	1.5	76	<0.5	<0.5	<0.5	<10	2.72	0.052
783592	Drill Core	6.00	0.5	1608	2.1	26	1.2	0.9	3.8	1294	0.86	<5	<0.5	1.5	67	<0.5	<0.5	<0.5	<10	2.73	0.046
783593	Drill Core	7.00	0.5	161.8	1.8	33	<0.5	2.1	4.8	872	1.17	<5	0.6	1.2	68	<0.5	<0.5	<0.5	19	1.85	0.054

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Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
783564	Drill Core	7.4	5.0	0.05	97	<0.001	0.34	0.03	0.33	<0.5	<0.05	0.6	<0.5	<0.5	<5	<2
783565	Drill Core	6.5	4.6	0.03	84	0.001	0.29	0.04	0.28	<0.5	<0.05	0.6	<0.5	<0.5	<5	<2
783566	Drill Core	7.4	3.9	0.02	85	0.001	0.30	0.04	0.30	<0.5	<0.05	0.6	<0.5	<0.5	<5	<2
783567	Drill Core	21.6	8.4	0.05	72	0.001	0.29	0.04	0.24	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
783568	Drill Core	7.8	5.2	0.04	82	0.001	0.29	0.04	0.24	<0.5	<0.05	0.6	<0.5	<0.5	<5	<2
783569	Drill Core	6.3	5.3	0.08	191	0.002	0.39	0.03	0.30	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2
783570	Drill Core	7.0	3.6	0.14	87	0.001	0.37	0.03	0.25	<0.5	<0.05	0.5	<0.5	<0.5	<5	<2
783571	Drill Core	7.7	3.8	0.21	87	0.003	0.42	0.04	0.18	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783572	Drill Core	8.3	5.9	0.22	94	0.016	0.51	0.04	0.21	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783573	Drill Core	10.8	8.2	0.18	332	0.003	0.54	0.04	0.21	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783574	Drill Core	10.2	6.7	0.39	119	0.009	0.73	0.05	0.21	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783575	Rock Pulp	6.2	20.8	0.10	223	0.005	0.46	0.04	0.31	<0.5	0.11	<0.5	<0.5	0.6	<5	<2
783576	Drill Core	8.4	5.9	0.15	163	0.008	0.41	0.04	0.19	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783577	Drill Core	7.5	3.1	0.31	141	0.002	0.66	0.03	0.29	<0.5	<0.05	0.9	<0.5	<0.5	<5	<2
783578	Drill Core	7.7	5.4	0.24	241	0.001	0.44	0.03	0.22	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783579	Drill Core	8.3	3.9	0.17	70	0.001	0.41	0.02	0.22	<0.5	<0.05	1.3	<0.5	<0.5	<5	<2
783580	Drill Core	9.3	5.3	0.18	300	<0.001	0.38	0.02	0.24	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
783581	Drill Core	9.9	4.1	0.23	408	0.002	0.40	0.03	0.28	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783582	Drill Core	9.0	5.3	0.31	305	0.004	0.52	0.04	0.24	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783583	Drill Core	8.5	3.9	0.28	292	0.002	0.43	0.03	0.27	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783584	Drill Core	8.5	6.5	0.27	165	0.002	0.44	0.03	0.29	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783585	Drill Core	8.1	3.9	0.15	276	0.001	0.35	0.01	0.30	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783586	Drill Core	8.5	5.1	0.17	286	0.002	0.42	0.02	0.29	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783587	Drill Core	8.3	4.5	0.33	186	0.005	0.59	0.03	0.18	<0.5	<0.05	1.8	<0.5	<0.5	<5	<2
783588	Drill Core	8.3	5.1	0.30	190	0.004	0.57	0.03	0.20	<0.5	<0.05	2.0	<0.5	<0.5	<5	<2
783589	Drill Core	7.1	4.3	0.52	407	0.009	0.69	0.04	0.17	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783590	Drill Core	8.6	5.5	0.33	198	0.003	0.55	0.04	0.23	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
783591	Drill Core	8.2	3.5	0.24	320	0.002	0.38	0.03	0.27	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783592	Drill Core	8.9	4.7	0.26	154	0.001	0.35	0.02	0.30	<0.5	<0.05	0.7	<0.5	<0.5	<5	<2
783593	Drill Core	7.5	4.8	0.29	184	0.005	0.55	0.04	0.22	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2

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Project: Rateria
Report Date: February 27, 2008

CERTIFICATE OF ANALYSIS VAN08003610.1

Method		WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
783594	Drill Core	6.40	<0.5	175.0	1.5	39	<0.5	1.8	5.1	781	1.22	<5	0.6	1.5	61	<0.5	<0.5	<0.5	22	1.57	0.057
783595	Rock Pulp		256.5	3544	19.8	27	10.3	1.8	1.6	335	1.03	14	0.6	0.8	214	<0.5	27.5	1.5	<10	1.17	0.028
783596	Drill Core	6.70	<0.5	94.2	1.6	43	<0.5	2.9	5.5	922	1.39	<5	0.6	1.4	76	<0.5	<0.5	<0.5	29	1.82	0.061
783597	Drill Core	6.30	0.5	1109	1.2	27	0.8	1.6	4.2	1452	1.00	<5	0.6	1.5	66	<0.5	<0.5	<0.5	16	2.88	0.062
783598	Drill Core	5.70	0.8	577.0	1.4	41	<0.5	2.5	4.4	1208	1.03	<5	0.8	1.3	73	<0.5	<0.5	<0.5	18	3.12	0.057
783599	Drill Core	5.60	0.6	138.7	1.7	39	<0.5	2.0	4.5	1004	1.16	<5	0.7	1.4	65	<0.5	<0.5	<0.5	20	2.56	0.058
783600	Drill Core	5.20	<0.5	22.4	1.6	44	<0.5	2.9	5.0	874	1.23	<5	1.1	1.4	114	<0.5	<0.5	<0.5	23	2.71	0.056
783601	Drill Core	4.60	0.6	171.0	2.6	45	<0.5	2.3	5.4	798	1.26	<5	0.9	1.6	106	<0.5	<0.5	<0.5	22	1.99	0.064
783602	Drill Core	5.50	1.2	328.5	1.0	41	<0.5	2.7	5.1	1080	1.20	<5	0.6	1.5	70	<0.5	<0.5	<0.5	23	2.01	0.053
783603	Drill Core	6.40	1.3	394.1	1.5	43	<0.5	1.9	5.4	971	1.36	<5	1.1	1.5	71	<0.5	<0.5	<0.5	28	1.80	0.056
783604	Drill Core	3.60	0.5	150.0	1.1	31	<0.5	2.4	4.4	876	1.11	<5	0.5	1.6	58	<0.5	<0.5	<0.5	19	1.75	0.051
783605	Drill Core	2.10	0.6	519.2	1.6	37	<0.5	1.8	4.3	842	1.09	<5	0.8	1.7	73	<0.5	<0.5	<0.5	24	2.04	0.055
783606	Drill Core	2.20	0.5	481.0	1.4	39	<0.5	2.8	4.6	829	1.16	<5	0.7	1.3	67	<0.5	<0.5	<0.5	24	1.89	0.060
783607	Drill Core	3.40	<0.5	67.4	1.8	40	<0.5	2.0	5.2	749	1.49	<5	0.6	1.2	76	<0.5	<0.5	<0.5	37	1.72	0.056
783608	Drill Core	4.80	<0.5	18.1	2.0	55	<0.5	2.0	5.1	1285	0.99	<5	1.1	2.7	214	<0.5	1.1	<0.5	<10	3.56	0.055
783609	Drill Core	5.00	1.5	971.9	1.6	71	0.9	2.6	6.3	1261	1.35	<5	1.5	3.3	97	<0.5	1.1	<0.5	23	2.90	0.049
783610	Drill Core	6.00	<0.5	373.6	1.4	52	<0.5	2.9	6.4	1537	1.11	<5	1.5	4.0	119	<0.5	<0.5	<0.5	12	2.62	0.039
783611	Drill Core	7.10	0.7	373.9	1.5	44	<0.5	2.8	5.6	1040	1.19	<5	0.9	2.6	96	<0.5	<0.5	<0.5	24	1.86	0.043
783612	Drill Core	7.00	<0.5	134.7	5.8	38	<0.5	<0.5	5.1	922	1.28	<5	1.0	1.5	99	<0.5	<0.5	<0.5	29	1.96	0.059
783613	Drill Core	6.90	0.6	26.8	2.2	50	<0.5	2.8	4.7	739	1.34	<5	0.7	1.3	91	<0.5	<0.5	<0.5	33	1.50	0.055
783614	Drill Core	6.90	1.3	284.1	2.2	21	<0.5	1.3	3.1	490	0.71	<5	1.6	2.5	59	<0.5	<0.5	<0.5	14	1.34	0.022
783615	Rock Pulp		264.9	3481	20.0	27	10.5	2.1	1.6	327	1.02	15	0.8	0.8	216	<0.5	27.3	1.4	<10	1.15	0.029
783616	Drill Core	7.20	0.5	119.3	2.8	45	<0.5	2.2	4.1	466	1.08	<5	1.4	3.0	79	<0.5	<0.5	<0.5	24	0.93	0.027
783617	Drill Core	6.70	15.0	263.6	2.9	20	<0.5	1.4	2.2	312	0.69	<5	1.3	2.9	100	<0.5	<0.5	<0.5	13	1.14	0.021
783618	Drill Core	5.50	15.5	224.2	3.6	30	<0.5	2.2	3.0	374	0.91	<5	1.5	3.5	79	<0.5	<0.5	<0.5	21	0.96	0.025
783619	Drill Core	6.30	<0.5	3.7	2.4	40	<0.5	2.5	4.9	441	1.45	<5	0.8	1.4	105	<0.5	<0.5	<0.5	40	1.50	0.056

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CERTIFICATE OF ANALYSIS VAN08003610.1

	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
783594	Drill Core	7.9	5.9	0.37	213	0.005	0.65	0.06	0.19	<0.5	<0.05	2.1	<0.5	<0.5	<5	<2
783595	Rock Pulp	5.3	22.8	0.10	233	0.006	0.49	0.04	0.32	<0.5	0.07	1.4	<0.5	0.6	<5	<2
783596	Drill Core	8.1	6.9	0.40	210	0.010	0.66	0.06	0.20	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2
783597	Drill Core	8.7	5.9	0.26	123	0.002	0.44	0.02	0.27	<0.5	<0.05	1.9	<0.5	<0.5	<5	<2
783598	Drill Core	8.6	5.2	0.30	108	0.002	0.56	0.03	0.26	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2
783599	Drill Core	8.9	6.2	0.35	79	0.003	0.57	0.04	0.24	<0.5	<0.05	2.1	<0.5	<0.5	<5	<2
783600	Drill Core	9.0	5.2	0.43	592	0.005	0.91	0.04	0.20	<0.5	<0.05	3.2	<0.5	<0.5	<5	<2
783601	Drill Core	8.2	5.6	0.43	290	0.004	0.92	0.04	0.21	<0.5	<0.05	2.5	<0.5	<0.5	<5	<2
783602	Drill Core	7.3	5.9	0.39	115	0.018	0.72	0.04	0.22	<0.5	<0.05	2.5	<0.5	<0.5	<5	<2
783603	Drill Core	7.2	6.6	0.41	203	0.029	0.77	0.04	0.22	<0.5	<0.05	2.8	<0.5	<0.5	<5	<2
783604	Drill Core	6.6	4.5	0.35	90	0.008	0.67	0.04	0.24	<0.5	<0.05	2.3	<0.5	<0.5	<5	<2
783605	Drill Core	7.8	4.8	0.37	85	0.006	0.67	0.04	0.25	<0.5	<0.05	2.0	<0.5	<0.5	<5	<2
783606	Drill Core	7.6	5.3	0.37	85	0.006	0.68	0.03	0.22	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2
783607	Drill Core	5.5	7.2	0.40	139	0.069	0.78	0.05	0.17	<0.5	<0.05	2.4	<0.5	<0.5	<5	<2
783608	Drill Core	9.1	2.8	0.63	304	0.021	1.11	0.06	0.22	<0.5	<0.05	3.2	<0.5	<0.5	<5	<2
783609	Drill Core	11.5	4.3	0.47	84	0.005	0.72	0.04	0.22	<0.5	<0.05	2.4	<0.5	<0.5	<5	<2
783610	Drill Core	9.4	6.1	0.60	79	0.027	0.89	0.04	0.19	<0.5	<0.05	1.8	<0.5	<0.5	<5	<2
783611	Drill Core	6.3	4.9	0.48	83	0.043	0.91	0.04	0.20	<0.5	<0.05	2.2	<0.5	<0.5	<5	<2
783612	Drill Core	5.8	4.1	0.46	136	0.053	1.00	0.08	0.23	<0.5	<0.05	3.7	<0.5	<0.5	<5	<2
783613	Drill Core	4.9	4.7	0.46	244	0.082	1.03	0.08	0.17	<0.5	<0.05	3.6	<0.5	<0.5	<5	<2
783614	Drill Core	4.8	4.7	0.22	93	0.025	0.53	0.06	0.21	<0.5	<0.05	2.3	<0.5	<0.5	<5	<2
783615	Rock Pulp	5.3	23.3	0.10	226	0.006	0.46	0.06	0.29	<0.5	0.07	1.3	<0.5	0.6	<5	2
783616	Drill Core	6.7	5.9	0.34	69	0.037	0.68	0.07	0.13	<0.5	<0.05	2.4	<0.5	<0.5	<5	<2
783617	Drill Core	6.1	4.7	0.18	111	0.027	0.75	0.08	0.20	<0.5	<0.05	2.7	<0.5	<0.5	<5	<2
783618	Drill Core	6.4	5.7	0.27	130	0.053	0.80	0.12	0.21	<0.5	<0.05	3.9	<0.5	<0.5	<5	<2
783619	Drill Core	5.6	6.8	0.42	330	0.096	1.02	0.08	0.18	<0.5	<0.05	3.4	<0.5	<0.5	<5	<2

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4035 W. 31st Ave
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Project: Rateria
Report Date: February 27, 2008

QUALITY CONTROL REPORT VAN08003610.1

	Method	WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
Pulp Duplicates																					
783487	Drill Core	6.40	3.3	69.8	4.6	25	<0.5	1.9	3.6	639	1.01	<5	0.5	1.6	150	<0.5	<0.5	<0.5	<10	2.37	0.055
REP 783487	QC		3.0	75.7	5.3	29	<0.5	1.2	3.9	664	1.01	<5	0.7	1.6	145	<0.5	<0.5	<0.5	<10	2.39	0.055
783502	Drill Core	5.90	1.3	2109	2.2	33	1.1	2.0	6.0	1594	1.32	<5	0.7	1.2	167	<0.5	<0.5	<0.5	16	3.07	0.046
REP 783502	QC		1.7	1940	2.4	29	0.9	1.7	5.6	1492	1.24	<5	0.7	1.1	155	<0.5	<0.5	<0.5	18	2.83	0.040
783521	Drill Core	8.10	13.5	1719	3.0	27	2.6	0.5	2.6	891	0.91	<5	0.9	0.8	180	<0.5	<0.5	<0.5	<10	1.75	0.038
REP 783521	QC		13.0	1735	3.1	26	2.4	1.1	2.3	889	0.91	<5	0.8	0.8	182	<0.5	<0.5	<0.5	<10	1.76	0.038
783550	Drill Core	6.50	2.1	1053	1.5	37	0.6	2.3	6.1	433	1.66	<5	<0.5	1.1	115	<0.5	<0.5	<0.5	32	1.52	0.052
REP 783550	QC		2.1	1029	1.5	34	0.7	1.7	5.9	428	1.62	<5	<0.5	0.9	134	<0.5	<0.5	<0.5	30	1.49	0.052
783555	Rock Pulp		291.2	3441	19.4	28	10.3	2.1	1.5	346	1.03	14	0.7	0.6	200	<0.5	26.9	1.5	<10	1.17	0.027
REP 783555	QC		289.7	3482	20.6	30	10.3	2.2	1.4	350	1.03	14	0.7	0.7	204	<0.5	28.5	1.6	11	1.19	0.028
783577	Drill Core	4.20	10.8	1584	2.6	29	0.8	1.4	4.6	680	1.28	<5	0.6	1.7	99	<0.5	<0.5	<0.5	17	2.27	0.048
REP 783577	QC		10.7	1584	1.9	29	0.7	2.3	5.3	681	1.32	<5	0.7	1.7	100	<0.5	<0.5	<0.5	14	2.24	0.049
783602	Drill Core	5.50	1.2	328.5	1.0	41	<0.5	2.7	5.1	1080	1.20	<5	0.6	1.5	70	<0.5	<0.5	<0.5	23	2.01	0.053
REP 783602	QC		1.1	330.6	1.2	40	<0.5	2.2	5.0	1026	1.16	<5	0.6	1.5	67	<0.5	<0.5	<0.5	21	1.98	0.054
783616	Drill Core	7.20	0.5	119.3	2.8	45	<0.5	2.2	4.1	466	1.08	<5	1.4	3.0	79	<0.5	<0.5	<0.5	24	0.93	0.027
REP 783616	QC		<0.5	110.9	2.6	35	<0.5	2.8	4.0	465	1.03	<5	1.4	2.8	79	<0.5	<0.5	<0.5	23	0.91	0.026
Core Reject Duplicates																					
783508	Drill Core	6.70	3.2	982.7	1.0	28	0.5	1.9	4.4	908	1.26	<5	0.7	1.1	133	<0.5	<0.5	<0.5	17	2.30	0.042
DUP 783508	QC		1.0	1023	3.0	23	<0.5	3.7	5.4	897	1.26	<5	0.7	1.3	137	<0.5	<0.5	<0.5	19	2.55	0.044
783543	Drill Core	7.30	2.9	4246	1.6	14	2.4	1.9	3.6	1119	1.10	<5	0.5	1.0	93	<0.5	<0.5	0.7	15	2.74	0.053
DUP 783543	QC		3.6	4378	1.4	17	2.3	1.4	3.8	1054	1.19	<5	<0.5	1.1	92	<0.5	<0.5	0.9	16	2.56	0.052
783578	Drill Core	4.20	0.5	27.8	1.9	43	<0.5	0.6	4.9	1062	1.11	<5	0.8	1.2	73	<0.5	<0.5	<0.5	11	2.77	0.051
DUP 783578	QC		0.8	38.9	1.7	40	<0.5	2.0	3.9	1049	1.05	<5	0.7	1.2	70	<0.5	<0.5	<0.5	13	2.78	0.048
783613	Drill Core	6.90	0.6	26.8	2.2	50	<0.5	2.8	4.7	739	1.34	<5	0.7	1.3	91	<0.5	<0.5	<0.5	33	1.50	0.055
DUP 783613	QC		0.6	30.5	2.0	54	<0.5	2.7	5.3	792	1.40	<5	0.9	1.6	95	<0.5	<0.5	<0.5	35	1.58	0.059
Reference Materials																					
STD SF-3A	Standard		294.9	7749	8518	10229	52.8	3417	185.2	4088	7.75	44	3.3	2.8	53	53.0	9.8	4.8	107	2.56	0.057
STD SF-3A	Standard		306.7	7780	9213	10322	54.5	3464	182.7	4136	7.66	41	3.6	2.9	54	46.0	9.9	4.8	104	2.58	0.054

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Project: Rateria
Report Date: February 27, 2008

QUALITY CONTROL REPORT VAN08003610.1

	Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
Pulp Duplicates																
783487	Drill Core	9.3	4.5	0.29	498	0.003	0.64	0.03	0.30	<0.5	<0.05	1.5	<0.5	<0.5	<5	2
REP 783487	QC	9.5	4.9	0.30	535	0.003	0.66	0.04	0.31	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783502	Drill Core	8.5	3.6	0.49	1186	0.003	0.62	0.03	0.37	<0.5	<0.05	2.0	<0.5	<0.5	<5	<2
REP 783502	QC	7.8	3.3	0.46	1097	0.003	0.56	0.02	0.35	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783521	Drill Core	5.3	3.6	0.22	1241	0.001	0.46	<0.01	0.35	<0.5	<0.05	1.1	<0.5	<0.5	<5	<2
REP 783521	QC	5.3	5.3	0.23	1248	<0.001	0.47	<0.01	0.34	<0.5	<0.05	1.1	<0.5	<0.5	<5	<2
783550	Drill Core	5.8	4.2	0.33	215	0.004	0.58	0.06	0.18	<0.5	<0.05	2.7	<0.5	<0.5	<5	<2
REP 783550	QC	5.8	4.7	0.33	203	0.002	0.55	0.06	0.17	<0.5	<0.05	2.7	<0.5	<0.5	<5	<2
783555	Rock Pulp	5.4	21.7	0.10	233	0.005	0.43	0.04	0.28	<0.5	0.06	0.6	<0.5	0.5	<5	<2
REP 783555	QC	5.3	21.3	0.10	242	0.005	0.43	0.04	0.28	<0.5	0.08	0.7	<0.5	0.6	<5	<2
783577	Drill Core	7.5	3.1	0.31	141	0.002	0.66	0.03	0.29	<0.5	<0.05	0.9	<0.5	<0.5	<5	<2
REP 783577	QC	7.4	3.9	0.31	134	0.002	0.65	0.03	0.28	<0.5	<0.05	0.5	<0.5	<0.5	<5	<2
783602	Drill Core	7.3	5.9	0.39	115	0.018	0.72	0.04	0.22	<0.5	<0.05	2.5	<0.5	<0.5	<5	<2
REP 783602	QC	7.2	6.2	0.38	110	0.013	0.73	0.04	0.22	<0.5	<0.05	2.4	<0.5	<0.5	<5	<2
783616	Drill Core	6.7	5.9	0.34	69	0.037	0.68	0.07	0.13	<0.5	<0.05	2.4	<0.5	<0.5	<5	<2
REP 783616	QC	6.3	5.5	0.33	73	0.039	0.64	0.08	0.14	<0.5	<0.05	3.1	<0.5	<0.5	<5	<2
Core Reject Duplicates																
783508	Drill Core	7.6	4.0	0.25	292	0.002	0.55	0.02	0.33	<0.5	<0.05	1.7	<0.5	<0.5	<5	<2
DUP 783508	QC	7.9	4.9	0.25	277	0.002	0.53	0.03	0.31	<0.5	<0.05	1.6	<0.5	<0.5	<5	<2
783543	Drill Core	7.0	5.1	0.18	135	0.002	0.43	0.02	0.39	<0.5	<0.05	0.8	<0.5	<0.5	<5	<2
DUP 783543	QC	7.4	6.1	0.18	139	0.002	0.47	0.02	0.41	<0.5	<0.05	1.2	<0.5	<0.5	<5	<2
783578	Drill Core	7.7	5.4	0.24	241	0.001	0.44	0.03	0.22	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
DUP 783578	QC	7.3	4.3	0.23	221	0.001	0.42	0.03	0.23	<0.5	<0.05	1.4	<0.5	<0.5	<5	<2
783613	Drill Core	4.9	4.7	0.46	244	0.082	1.03	0.08	0.17	<0.5	<0.05	3.6	<0.5	<0.5	<5	<2
DUP 783613	QC	5.8	6.3	0.47	268	0.088	1.19	0.11	0.20	<0.5	<0.05	4.7	<0.5	<0.5	<5	<2
Reference Materials																
STD SF-3A	Standard	8.5	170.0	4.19	261	0.115	0.91	0.50	1.02	3.2	0.48	2.9	2.7	4.7	<5	9
STD SF-3A	Standard	8.7	170.1	4.23	251	0.115	0.97	0.48	0.96	3.4	0.46	2.9	2.7	5.3	<5	12

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		WGHT	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
STD SF-3A	Standard		295.4	7692	8743	10377	54.5	3450	184.9	4137	7.74	41	3.6	2.9	55	55.2	10.1	4.9	102	2.60	0.057
STD SF-3A	Standard		319.0	7677	8703	10673	53.7	3428	187.7	4183	7.83	47	3.3	3.2	63	57.5	10.2	5.0	107	2.66	0.066
STD SF-3A	Standard		319.0	7862	9227	10785	53.8	3450	191.3	4224	7.85	50	4.1	3.4	64	53.4	11.9	6.4	110	2.64	0.057
STD SF-3A Expected			308	7705	9625	10628	54	3365	183	4247	7.91	46	3.2	2.7	51.2	44.7	9.5	4.7	102.4	2.59	0.054
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	0.6	1.6	3.1	57	<0.5	4.9	4.6	624	2.02	<5	3.2	4.7	55	<0.5	<0.5	<0.5	38	0.49	0.083
G1	Prep Blank	<0.01	0.5	3.1	3.0	56	<0.5	4.1	4.5	571	1.93	<5	3.7	5.2	60	<0.5	<0.5	<0.5	39	0.51	0.084

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Project: Rateria
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		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.5	5	2
STD SF-3A	Standard	8.7	166.9	4.25	258	0.115	1.00	0.50	1.00	2.9	0.48	2.9	2.8	4.9	<5	7
STD SF-3A	Standard	9.0	175.2	4.30	281	0.119	1.02	0.58	1.04	3.4	0.51	3.1	3.4	5.0	5	11
STD SF-3A	Standard	10.3	181.6	4.35	276	0.123	1.03	0.58	1.01	3.3	0.50	2.9	2.8	5.1	<5	9
STD SF-3A Expected		8.3	167.1	4.27	260	0.117	1	0.47	0.99	3.4	0.57	3	2.7	4.2		7.9
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.5	<5	<2
Prep Wash																
G1	Prep Blank	8.5	11.4	0.68	228	0.172	1.05	0.07	0.55	<0.5	<0.05	2.5	<0.5	<0.5	5	<2
G1	Prep Blank	7.8	10.8	0.64	220	0.164	1.03	0.07	0.54	<0.5	<0.05	2.3	<0.5	<0.5	<5	<2

Appendix E

Figures

Happy Creek Minerals Ltd.
Rateria Project
Figure 1: Location Map

Scale: 1:5,250,000

0 50 100 150 200 250
Kilometers

Projection: BC Albers Datum: Nad83

N
W E
S

Yukon Territory
Northwest Territories
British Columbia
Alberta
Alaska

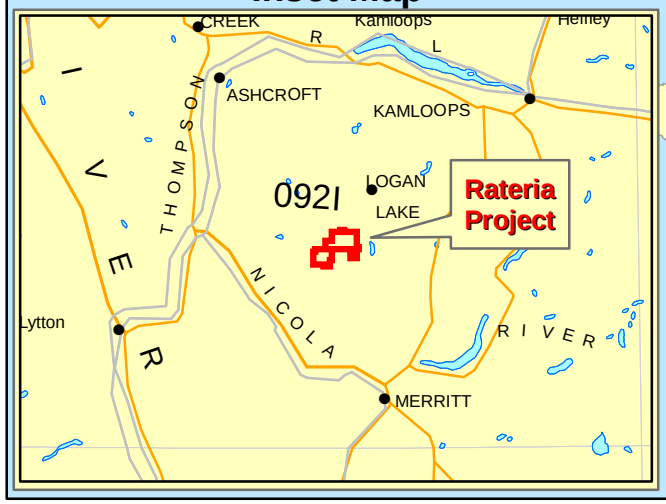
Atlin Park
Mount Edziza Park
Spatsizi Plateau Wilderness Park
Kwadacha Wilderness Park
Tweedsmuir Park
Bowron Lake Park
Mount Robson Park
Wells Gray Park
Jasper National Park
Yoho National Park
Glacier National Park
Kootenay National Park
Banff National Park
Garibaldi Park
Pacific Rim National Park Reserve

Prince Rupert
Terrace
Prince George
Quesnel
Williams Lake
Fort St. John
Dawson Creek
Grande Prairie
Edmonton
St. Albert
Leduc
Wetaskiwin
Red Deer
Airdrie
Calgary
Revelstoke
Kamloops
Merritt
Enderby
Vernon
Kelowna
Penticton
Kimberley
Fernie
Cranbrook
Nelson
Castlegar
Trail
Greenwood
Rossland
Powell River
Courtenay
Parksville
Port Alberni
Vancouver
Burnaby
Richmond
Surrey
Mission
Abbotsford
Chilliwack
Duncan
Colwood
Victoria

Washington
Idaho
Montana

Rateria Project (See Inset Map)

Inset Map



Happy Creek Minerals Ltd.
RATERIA PROJECT
Figure 2: Claim Map

Scale: 1:50,000

0 500 1,000 1,500 2,000 2,500
Meters

Projection: UTM10N Datum: Nad83 Mapsheet: 092i036, 046
Map Angle: -1.6° Magnetic Declination: 18° 00'
Claim Data: MTO - March 7, 2007

RATERIA NORTH

MAL 2

MAL

RATERIA NE

RATERIA NORTH-2

NEW RATERIA

092I.045

092I.046

092I.047

092I.035

092I.036

092I.06

092I.07

Legend

- RATERIA GROUP
- RATERIA CLAIMS
- OTHER MINERAL TITLES
- BCGS GRID
- Road (Paved Divided) - 4 Lanes
- Road (Paved Divided) - 2 Lanes
- Road (Paved Undivided) - 1 Lane
- Road (Gravel Undivided) - 2 Lanes
- Road (Gravel Undivided) - 1 Lane
- Road (Unimproved)
- Cut (Roadway)
- Trail
- Embankment/Fill (Roadway)
- Airfield
- Bridge - Foot
- Bridge - Trestle
- Bridge
- Tunnel
- Rail Line (Double Track)
- Rail Line (Single Track)
- Cut-blocks
- Index Contour (100m)
- River/Stream - Definite
- Stream - Indefinite
- Lake/River
- Swamp
- Marsh

MERIDIAN MAPPING

Happy Creek Minerals Ltd.
RATERIA PROJECT
Figure 3: Regional Geology

Scale: 1:100,000

0 1,000 2,000 3,000 4,000 5,000 Meters

Projection: UTM10N Datum: Nad83 Mapsheet: 092i036, 046
Map Angle: -1.6° Magnetic Declination: 18° 00'
Geology Data: BCGS Open File 2006-2

630000 635000 640000 645000 650000 655000 660000 665000

5595000 5590000 5585000 5580000 5575000 5570000

0921.055 0921.056 0921.045 0921.046 0921.047 0921.035 0921.036 0921.025 0921.026

EKav EKas Efp LTrJGBe LTrJGBo LTrJGH LTrJGB LTrJGG uTrN uTrNW uTrNC Mivb Qvk lKSBPva lKSBSva lmJA

Legend

RATERIA GROUP
BCGS GRID

Regional Geology

- EKas - Cenozoic - Kamloops Group undivided sedimentary rocks
- EKav - Cenozoic - Kamloops Group undivided volcanic rocks
- Efp - Cenozoic - Unnamed feldspar porphyritic intrusive rocks
- LTrJGB - Mesozoic - Guichon Creek Batholith - Bethsaida Phase quartz monzonitic intrusive rocks
- LTrJGBe - Mesozoic - Guichon Creek Batholith - Bethlehem Phase granodioritic intrusive rocks
- LTrJGBo - Mesozoic - Guichon Creek Batholith - Border Phase quartz dioritic intrusive rocks
- LTrJGG - Mesozoic - Guichon Creek Batholith - Gump Lake Phase granodioritic intrusive rocks
- LTrJGH - Mesozoic - Guichon Creek Batholith - Highland Valley Phase granodioritic intrusive rocks
- LTrJdr - Mesozoic - Unnamed dioritic intrusive rocks
- LTrJgd - Mesozoic - Unnamed granodioritic intrusive rocks
- LTrJto - Mesozoic - Unnamed tonalite intrusive rocks
- Mivb - Cenozoic - Unnamed basaltic volcanic rocks
- PzMzcg - Paleozoic to Mesozoic - Unnamed conglomerate, coarse clastic sedimentary rocks
- Qvk - Cenozoic - Unnamed alkaline volcanic rocks
- lKSBPva - Mesozoic - Spences Bridge Group - Pimainus Formation andesitic volcanic rocks
- lKSBSva - Mesozoic - Spences Bridge Group - Spius Creek Formation andesitic volcanic rocks
- lmJA - Mesozoic - Ashcroft Formation mudstone, siltstone, shale fine clastic sedimentary rocks
- uTrN - Mesozoic - Nicola Group undivided volcanic rocks
- uTrNC - Mesozoic - Nicola Group - Central Volcanic Facies andesitic volcanic rocks
- uTrNE - Mesozoic - Nicola Group - Eastern Volcanic Facies basaltic volcanic rocks
- uTrNW - Mesozoic - Nicola Group - Western Volcanic Facies undivided volcanic rocks
- uTrNml - Mesozoic - Nicola Group lower amphibolite/kyanite grade metamorphic rocks
- uTrNva - Mesozoic - Nicola Group andesitic volcanic rocks

MERIDIAN MAPPING

Happy Creek Minerals Ltd.
RATERIA PROJECT
Figure 4: Regional Magnetics

Scale: 1:100,000

0 1,000 2,000 3,000 4,000 5,000
Meters

Projection: UTM10N Datum: Nad83 Mapsheet: 092i036, 046
Map Angle: -1.6° Magnetic Declination: 18° 00'
Magnetics Data: British Columbia Imagery WMS

630000 635000 640000 645000 650000 655000 660000 665000

5595000 5590000 5585000 5580000 5575000 5570000

092I.055 092I.056
092I.045 092I.046 092I.047
092I.035 092I.036 092I.037
092I.025 092I.026 092I.027

N W E S

Legend
- RATERIA GROUP
- BCGS GRID

MERIDIAN MAPPING

Happy Creek Minerals Ltd.
RATERIA PROJECT
Figure 5: Drill Plan

Scale: 1:7,500

0 75 150 225 300 375

Meters

Projection: UTM10N Datum: Nad83 Mapsheet: 092i036

N W E S

645000 645500 646000 646500

5583500 5583000 5582500 5582000 5581500 5581000 5580500

ROSCOE 1

R06-01 R06-02 R06-03 R06-04 R06-05 R06-06 R06-07 R06-08 R06-09 R06-10 R06-11 R06-12 R06-13 R06-14

R07-01 R07-02 R07-03 R07-04 R07-05 R07-06 R07-07 R07-08 R07-09 R07-10 R07-11 R07-12 R07-13 R07-14

R05-01 R05-02

? ?

Offsetting Fault?

0Km Lindsey Cr Road

25Km

24Km

NEW RATERIA

Legend

- Drill Collar
- Drill Trace
- Zone 1 Outline
- RATERIA CLAIMS
- OTHER MINERAL TITLES

MERIDIAN MAPPING

Happy Creek Minerals Ltd.
RATERIA PROJECT
Figure 6: Zone 1 Drill Plan

Scale: 1:2,500

0 25 50 75 100 125

Meters

Projection: UTM10N Datum: Nad83 Mapsheet: 092i036

N W E S

645600 645700 645800 645900 646000 646100 646200

5582800 5582700 5582600 5582500 5582400 5582300 5582200 5582100 5582000 5581900 5581800

R06-09

?

?

156.1m of 0.104%

incl. 24.3m of 0.210%

incl. 94m of 0.150%

incl. 1m of 3.884%

64.01m of 0.11%

R07-07

R06-08

10m to 94m - 84m of 0.136%

incl. 62m to 94m - 32m of 0.244%

R06-14

R07-04

12.2m of 0.178%

R06-04

incl. 33.53m of 0.31%

134.11m of 0.16%

R06-05

R07-05

R06-07

100m of 0.285%

incl. 44m of 0.385%

R07-09

R06-11

38.3m to 60.1m

21.8m of 0.130%

R06-06

73m of 0.230%

incl. 15.5m of 0.490%

R07-10

R07-06

R05-01

37m of 0.581%

R07-11

R07-13

189.33m of 0.222%

incl. 84m of 0.302%

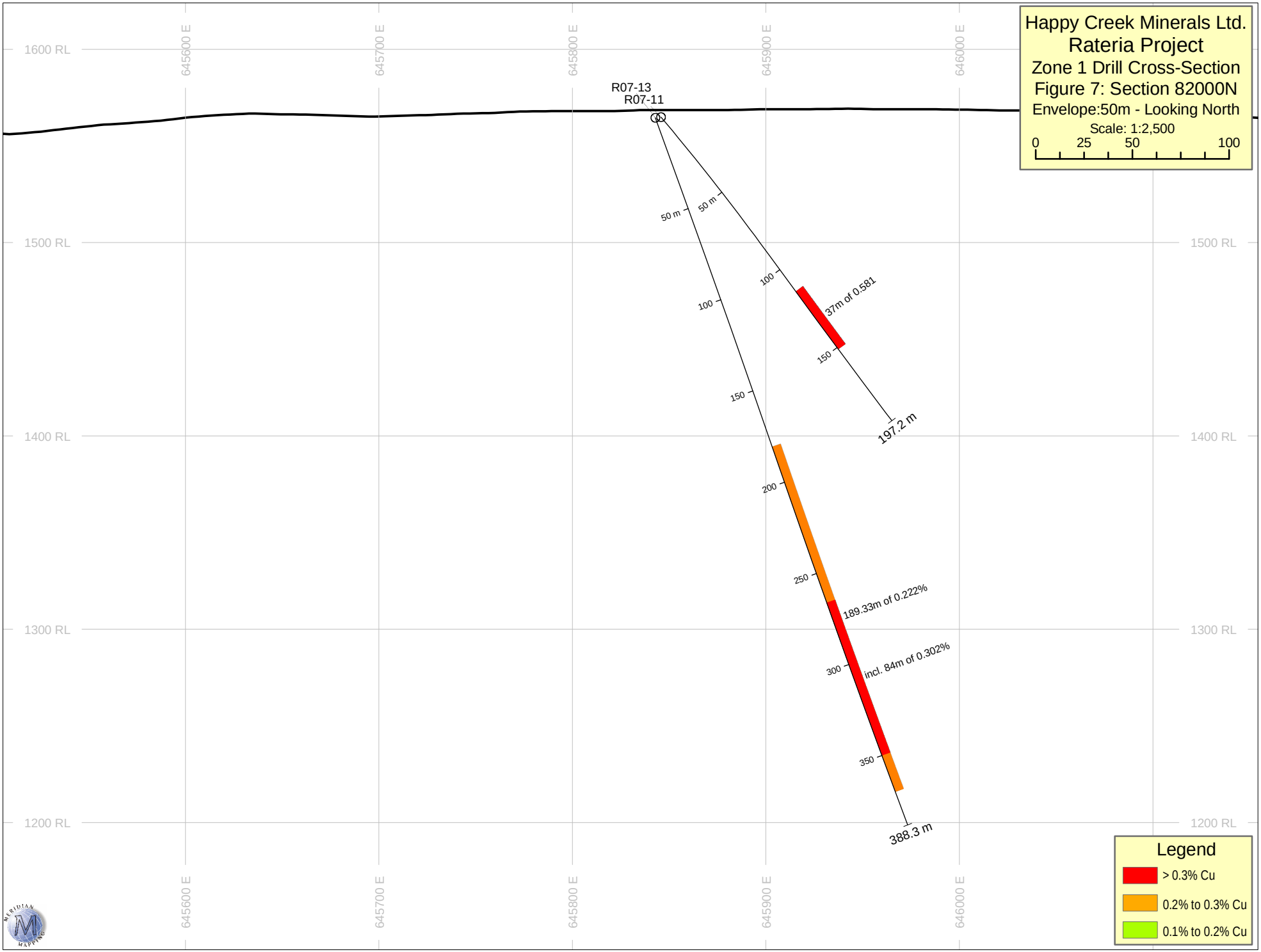
Offsetting Fault?

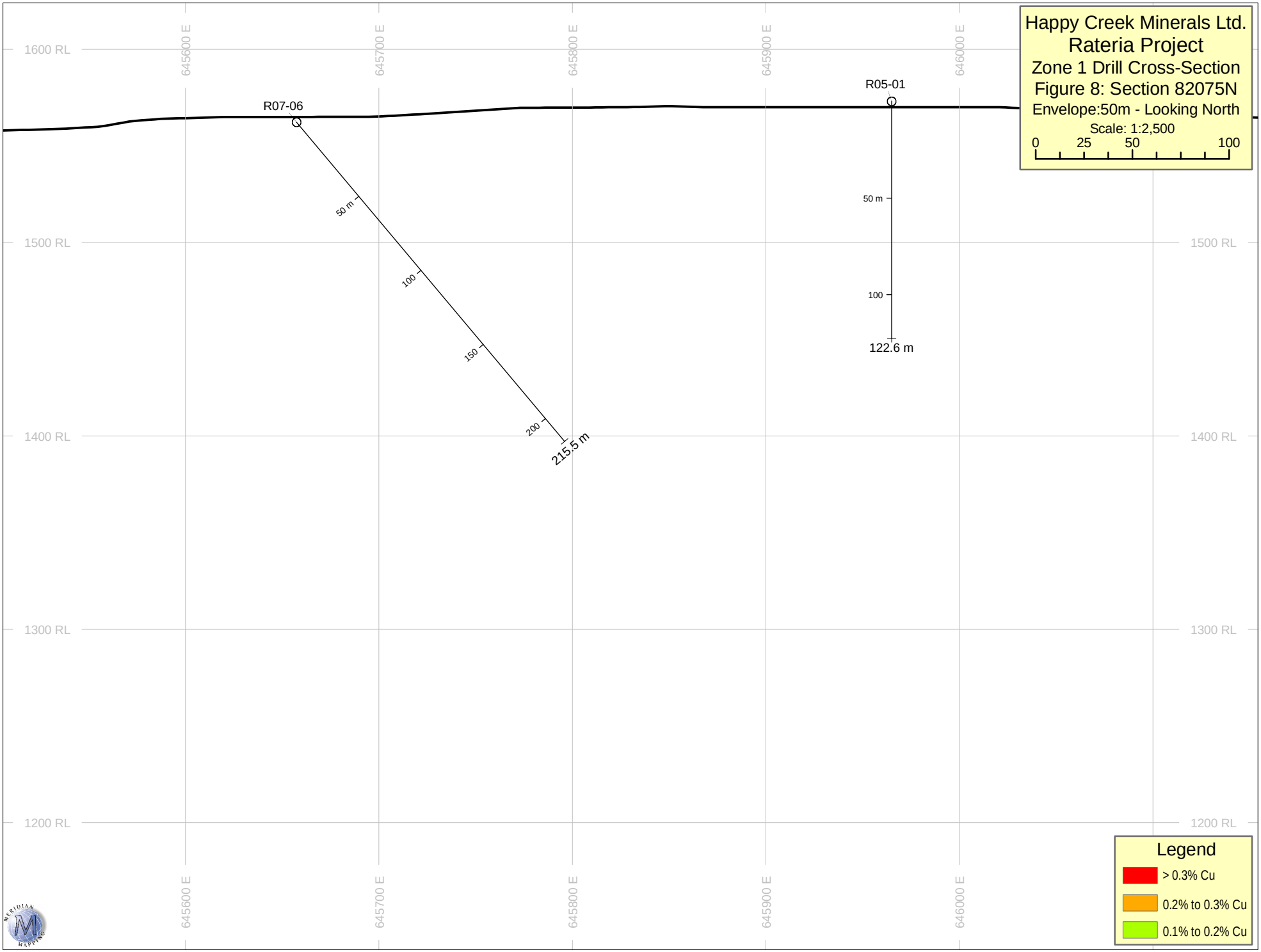
R07-14

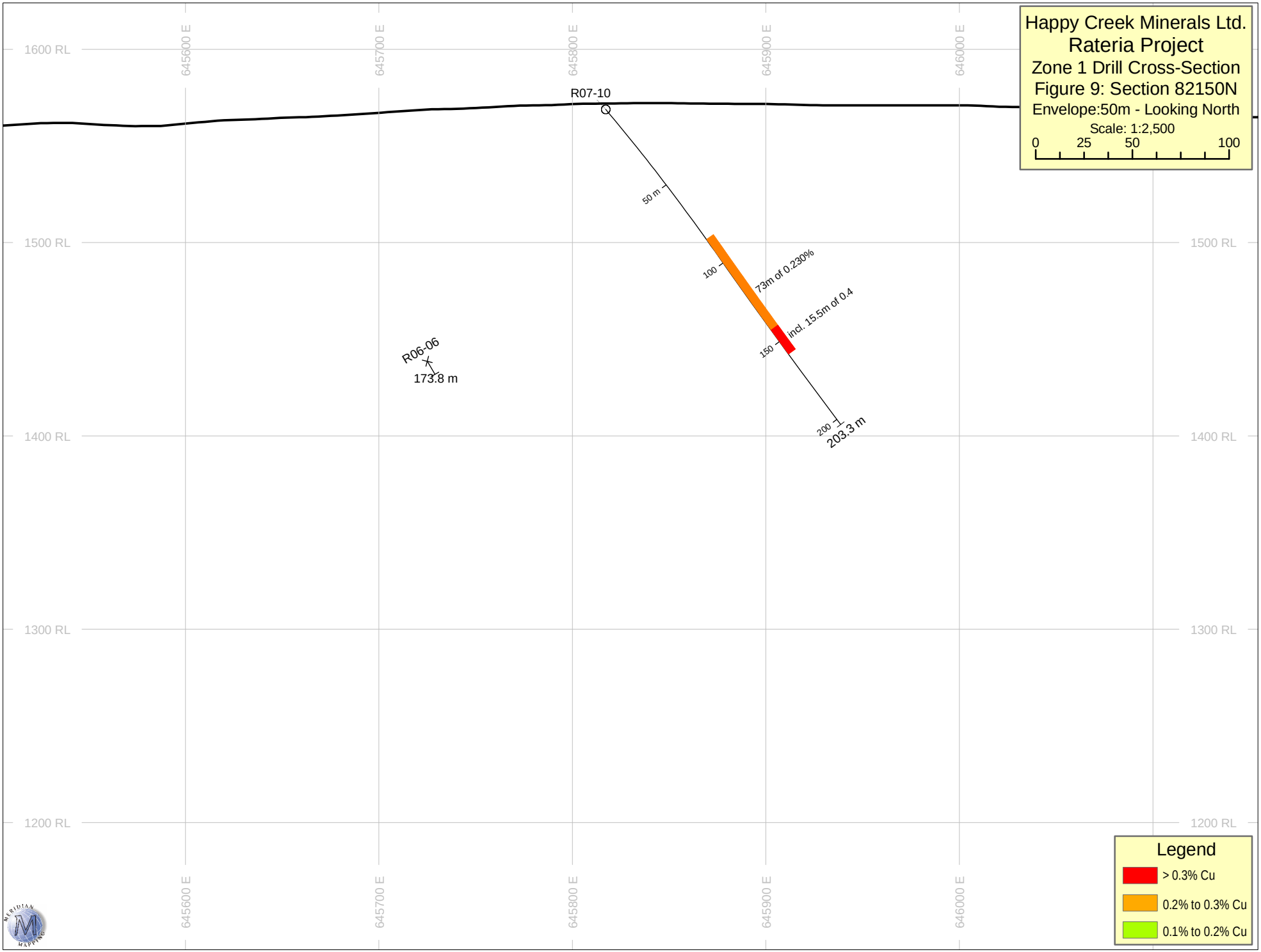
R07-12

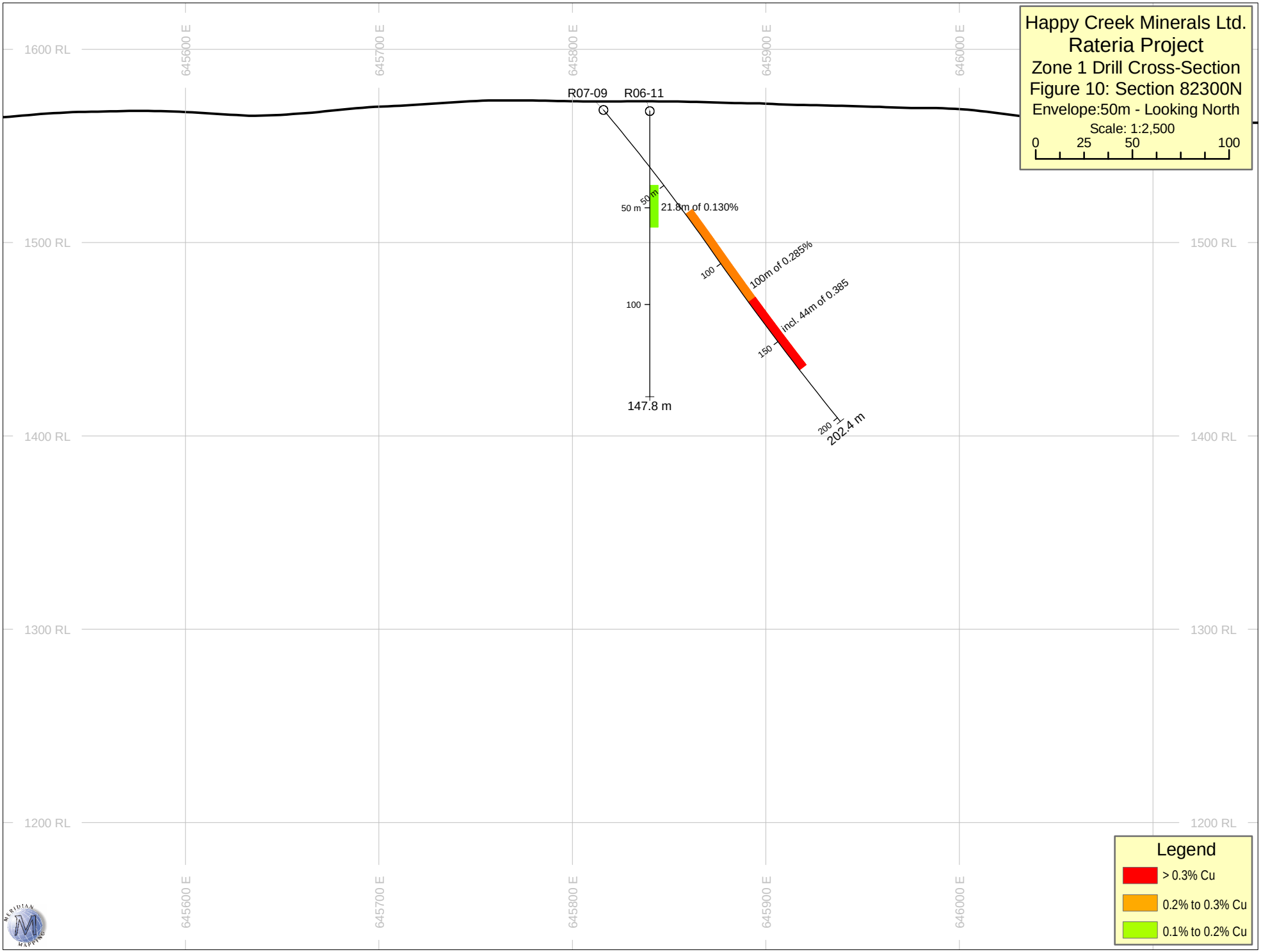
Legend

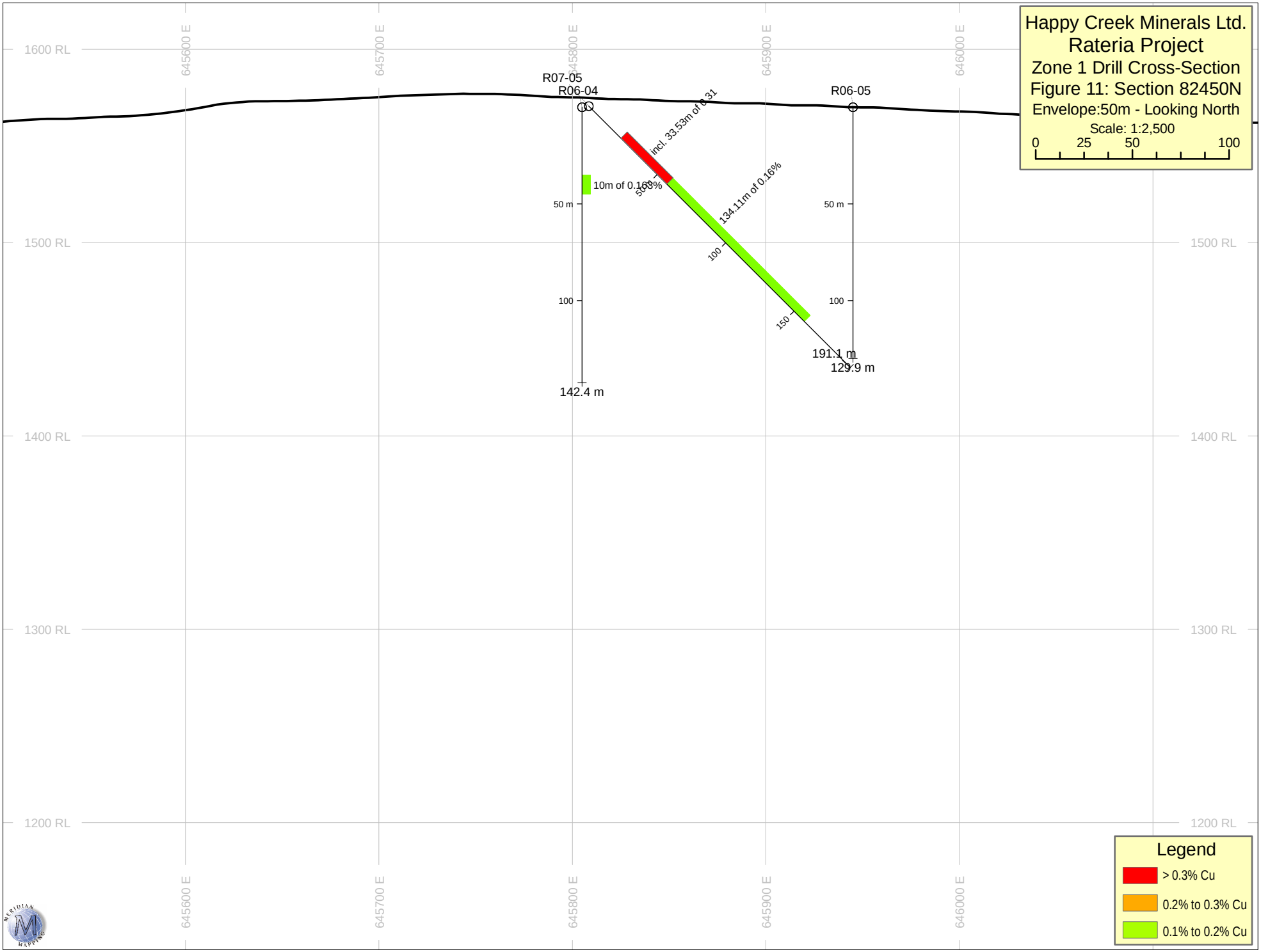
- Drill Collar
- Drill Trace
- >0.3% Cu
- 0.2 to 0.3% Cu
- 0.1 to 0.2% Cu
- Zone Outline

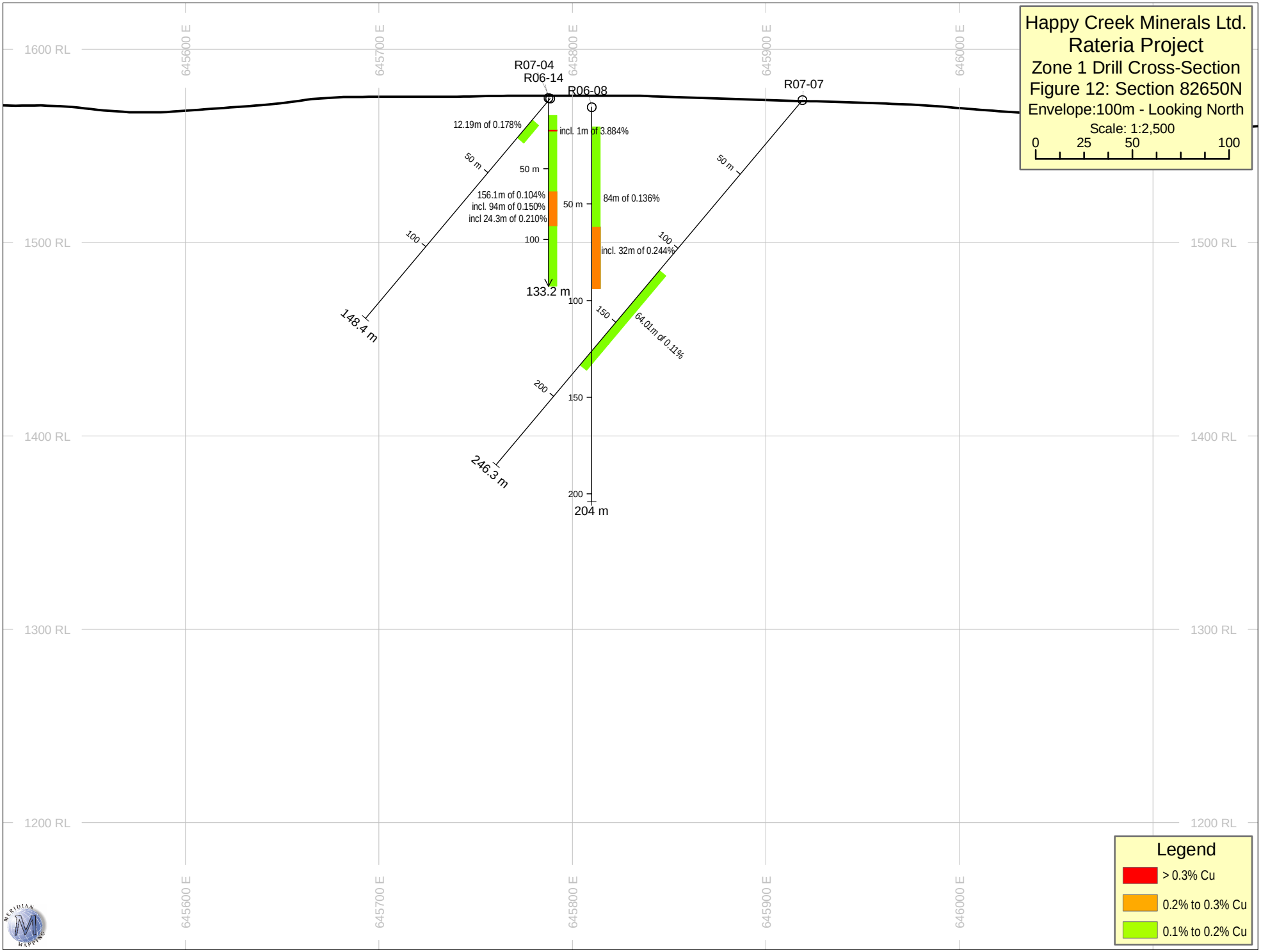

Happy Creek Minerals Ltd.
Rateria Project
Zone 1 Drill Cross-Section
Figure 7: Section 82000N
Envelope:50m - Looking North
Scale: 1:2,500
0 25 50 100
1600 RL
1500 RL
1400 RL
1300 RL
1200 RL
645600 E
645700 E
645800 E
645900 E
646000 E
R07-13
R07-11
50 m
50 m
100
100
150
37m of 0.581
150
197.2 m
200
250
189.33m of 0.222%
300
incl. 84m of 0.302%
350
388.3 m
Legend
> 0.3% Cu
0.2% to 0.3% Cu
0.1% to 0.2% Cu


Happy Creek Minerals Ltd.
Rateria Project
Zone 1 Drill Cross-Section
Figure 8: Section 82075N
Envelope:50m - Looking North
Scale: 1:2,500
0 25 50 100
1600 RL
1500 RL
1400 RL
1300 RL
1200 RL
645600 E
645700 E
645800 E
645900 E
646000 E
R07-06
R05-01
50 m
100
150
200
215.5 m
50 m
100
122.6 m
Legend
> 0.3% Cu
0.2% to 0.3% Cu
0.1% to 0.2% Cu


Happy Creek Minerals Ltd.
Rateria Project
Zone 1 Drill Cross-Section
Figure 9: Section 82150N
Envelope:50m - Looking North
Scale: 1:2,500
0 25 50 100
1600 RL
1500 RL
1400 RL
1300 RL
1200 RL
645600 E
645700 E
645800 E
645900 E
646000 E
R07-10
50 m
100
73m of 0.230%
incl. 15.5m of 0.4
150
200
203.3 m
R06-06
173.8 m
Legend
> 0.3% Cu
0.2% to 0.3% Cu
0.1% to 0.2% Cu


Happy Creek Minerals Ltd.
Rateria Project
Zone 1 Drill Cross-Section
Figure 10: Section 82300N
Envelope:50m - Looking North
Scale: 1:2,500
0 25 50 100
1600 RL
1500 RL
1400 RL
1300 RL
1200 RL
645600 E
645700 E
645800 E
645900 E
646000 E
R07-09
R06-11
50 m
50m
21.8m of 0.130%
100
100m of 0.285%
incl. 44m of 0.385
150
200
147.8 m
202.4 m
Legend
> 0.3% Cu
0.2% to 0.3% Cu
0.1% to 0.2% Cu


Happy Creek Minerals Ltd.
Rateria Project
Zone 1 Drill Cross-Section
Figure 11: Section 82450N
Envelope:50m - Looking North
Scale: 1:2,500
0 25 50 100
1600 RL
1500 RL
1400 RL
1300 RL
1200 RL
645600 E
645700 E
645800 E
645900 E
646000 E
R07-05
R06-04
R06-05
incl. 33.53m of 0.31
10m of 0.16%
134.11m of 0.16%
50 m
100
150
142.4 m
191.1 m
129.9 m
Legend
> 0.3% Cu
0.2% to 0.3% Cu
0.1% to 0.2% Cu


Happy Creek Minerals Ltd.
Rateria Project
Zone 1 Drill Cross-Section
Figure 12: Section 82650N
Envelope:100m - Looking North
Scale: 1:2,500
0 25 50 100
1600 RL
1500 RL
1400 RL
1300 RL
1200 RL
645600 E
645700 E
645800 E
645900 E
646000 E
R07-04
R06-14
R06-08
R07-07
12.19m of 0.178%
incl. 1m of 3.884%
156.1m of 0.104%
incl. 94m of 0.150%
incl 24.3m of 0.210%
84m of 0.136%
incl. 32m of 0.244%
64.01m of 0.11%
133.2 m
148.4 m
246.3 m
204 m
50 m
100
150
200
Legend
> 0.3% Cu
0.2% to 0.3% Cu
0.1% to 0.2% Cu