BC Geological Survey Assessment Report 31441

#### ASSESSMENT REPORT

On

### TRAIL ACCESS CONSTRUCTION, TRENCHING & ROCK GEOCHEMISTRY ROCKIES CLAIM BLOCK

Wild Horse River Area Fort Steele Mining Division TRIM 82G.073 604300E 5510500N

Operator and Owner Ruby Red Resources Inc. Suite 212 1000 – 9<sup>th</sup> Ave SW Calgary, Alberta, T2P 2Y6

Report By Peter Klewchuk, P. Geo. 1 – 200 Norton Ave. Kimberley, B.C., V1A 1X9

February, 2010

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TITLE OF REPORT [type of survey(		TOTAL COST
GEOLOGY, TRENCHING,	ROLK BEOCHEMISTRY	\$ 76.783.00 7
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TYPE OF WORK IN THIS REPORT ROCK GEOCHEM, GEOLOGY	EXTENT OF WORK (IN METRIC UNITS)		CH CLAIMS	PROJECT COST APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	······································			
Ground, mapping [: 1000	350 Ha	515885	5158.90	
Photo interpretation				
GEOPHYSICAL (line-kilometres)				
Ground				
Magnetic				
Electromagnetic				
Induced Polarization				
Radiometric				
Seismic				
Other				
Airborne				
GEOCHEMICAL				
(number of samples analysed for)				
Soil				
Silt		+		
Rock 8t; 30	o element ICP	515835	515890	
Other		<u> </u>		
DRILLING				
(total metres; number of holes, size)				
Core		+		
Non-core				
RELATED TECHNICAL				
Sampling/assaying		+	······································	
Petrographic				
Mineralographic				
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PROSPECTING (scale, area)				
PREPARATORY/PHYSICAL				
Line/grid (kilometres)				
Topographic/Photogrammetric (scale, area)				
Legal surveys (scale, area)				
Road, local access (kilometres)/trail	2090 m	515885	515890	
Trench (metres)	1400 m	515885	515890	
Underground dev. (metres)				
Other				
			TOTAL COST	76,783.00

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#### 1.00 INTRODUCTION

#### 1.10 Location and Access

The Rockies Block property is located in the Fort Steele Mining Division in southeastern British Columbia, approximately 25 km northeast of Cranbrook (Fig.1). Access is via forestry roads up Lewis Creek and the Wild Horse River and its tributaries.

#### 1.20 Property

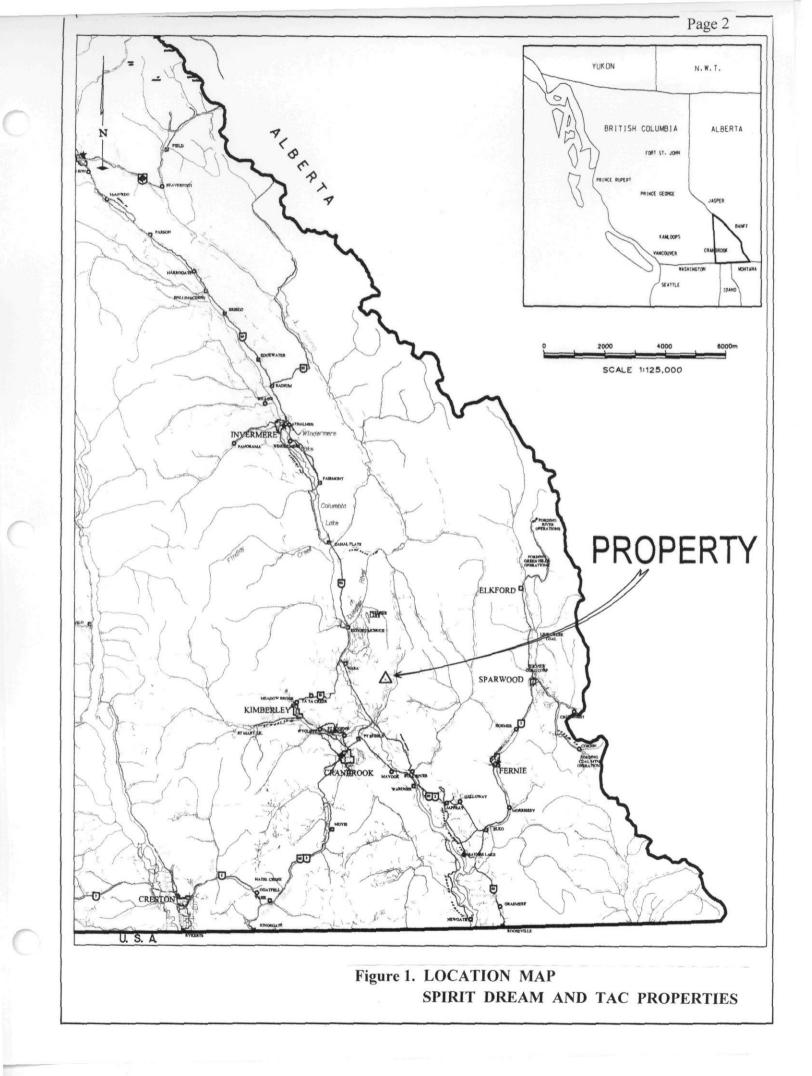
The Rockies claim block includes the Mineral Tenures outlined in Figure 2 and they are controlled by Ruby Red Resources Inc. of Calgary, Alberta. The areas of work in 2009 are centered approximately at 604300E 5510500N.

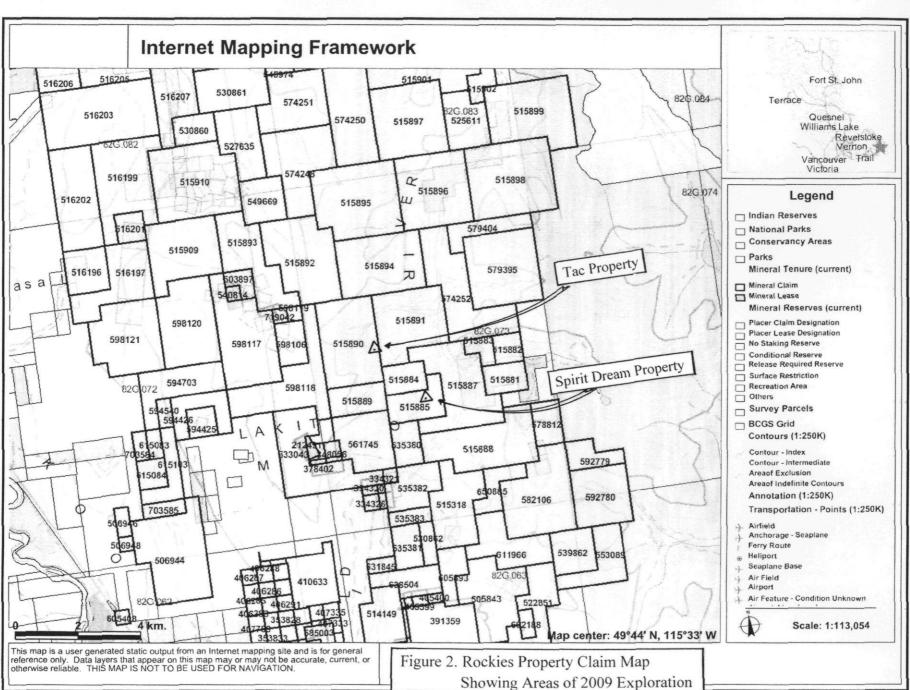
#### 1.30 Physiography

The Rockies claim block is located east of the Rocky Mountain Trench in the Hughes Range of the Rocky Mountains and covers much of the area immediately east of the trench between the Wild Horse River and Lewis Creek (Figs. 1 & 2). Topography is generally steep with mainly wooded and locally rocky slopes. Elevation ranges from about 1060 to 2060 meters. Forest cover includes mainly pine, fir and larch. Parts of the claim block have been logged and are in various stages of regeneration.

#### 1.40 History of Previous Exploration

The Estella lead-zinc-silver deposit occurs on crown grants adjacent to the Rockies claim block. This small WNW oriented massive sulphide vein deposit was mined from 1953 to 1961 (Hoy, 1993). Exploration in the vicinity of the Estella has focused on finding similar deposits, and some work has also been done looking for sedimentary exhalative deposits like the world class Sullivan deposit near Kimberley, located about 15 kilometers west of the claim block. Cominco Ltd (Assessment Reports 20,175, 20,554 and 21,935) did extensive ground and airborne geophysics as well as soil and rock geochemistry and diamond drilling near the Estella, and Bakra Resources Ltd. (AR 16,337) did a program of surface geologic mapping and soil and rock geochemistry. Placer Dome Ltd. worked on what are now part of the Rockies block claims in the upper Wild Horse drainage and in Tackle Creek (AR's 18,159 and 20,202). Their exploration consisted of geologic mapping, soil and rock geochemistry, ground geophysics and diamond drilling. INCO, Mercury Explorations Ltd., National Gold Ltd. and Chapleau Resources Ltd. have done small programs on the Jacleg portion of the Rockies block claims. Ruby Red Resources Inc. has been working on parts of the Rockies block of claims since 2002; this work has included surface geologic mapping, rock and soil geochemistry, ground geophysics and diamond drilling (eg AR's 26,985, 28,643).





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#### 1.50 Purpose of Exploration Program

Work in 2009 on Ruby Red's Rockies block of claims took place in 2 areas; Spirit Dream and Tac (Figure 2).

#### Spirit Dream

Access trail construction and trenching in 2008 (Kennedy, 2009) provided access to the lower part of a gold-in-soil anomaly that had been established by earlier work. Significant anomalous gold was encountered in strongly brecciated and silica-sericite-pyrite altered quartzites. The 2009 work extended the access trail construction by 310 meters. Trenching in the ditchline exposed bedrock and allowed for geologic mapping and rock sampling. This work is centered approximately at 605300E 5509800N.

#### Tac

One of the soil geochem anomalies identified by Placer Dome in 1989 (Fox, 1990) and confirmed by Ruby Red in 2006 (Klewchuk, 2007) was selected for ground evaluation in 2009, to identify the bedrock source of the anomalous soils and to evaluate the nature of the mineralization. The soil geochem anomaly selected was close to existing road access, had a strong linear trend and crossed a ridge, which indicated that trenching should be successful in exposing bedrock. Access trail construction, trenching, geologic mapping and rock geochemistry were undertaken to evaluate the soil anomaly. Approximately 1780 meters of trail access and associated ditchline trenching were completed. In addition, the old logging road up the drainage to the south, referred to as 'Little Tackle Creek' was opened up to allow access for geologic mapping and prospecting. The area of Tac trenching is centered approximately at 603400E 5511300N.

#### 2.00 GEOLOGY

The areas where access trail construction and trenching on the Spirit Dream and Tac areas of the Rockies claim block are underlain by the upper Aldridge Formation which is part of the Mesoproterozoic Purcell Supergroup. In the areas of trenching, the upper Aldridge Formation includes fine grained clastic rocks of argillite, siltstone and impure quartzite. Structurally, these areas are on the eastern limb of a large, open, recumbent anticline that dominates the structure of the immediate area of the Rocky Mountains. A broader general description of the area's geology is provided by Hoy (1979 & 1993).

#### 2.10 Spirit Dream Area

A trenching program in the fall of 2008 (Kennedy, 2009) established that anomalous gold mineralization is hosted by a band of quartzites and siltstones, interbedded with argillites (Fig. 3). This band of 'Spirit Quartzites' appears to be just over 100m in thickness. Bedrock exposure in the trenched road ditchline is not continuous enough to be sure of the thickness and furthermore, considerable smaller scale folding is present along with faulting. Quartzite and siltstone beds within the 'Spirit Quartzite' band are variably brecciated with cross-cutting quartz veins and are sericite-pyrite altered. Visible gold is occasionally seen within the brecciated quartzites in association with pyrite. The most prominent set of quartz veins within the brecciated quartzites strike approximately north-south and dip moderately easterly, roughly perpendicular to the northerly-striking, steep westerly-dipping bedding.

Beds across much of the road and trench exposures mapped are gently undulating. Numerous narrow faults cut through the sedimentary rocks; these are both bedding-parallel or sub-parallel faults and cross-cutting faults. A number of easterly-striking fault structures, with steep north and south dips, were exposed by trenching. Sampling of these structures indicates that at least some of them are gold-mineralized. The fault zones appear to have minor displacement but the lithologic package of the upper Aldridge Formation is a rather monotonous one with similar lithologies repeated many times, and there are no readily useable marker bands to aid in structural reconstruction. It may be that some of the fault structures have displacement of tens of meters or more.

Brecciation of the Spirit Quartzites appears more intensely developed along the lower road exposure, where trenching took place in 2008. The presence of a number of ENE to easterly fault structures with proximally-developed gold mineralization strongly suggests that these structures were important for the deposition of gold. The Spirit Dream area is near the southern end of a lengthy gold anomaly that trends NNW, parallel to the Rocky Mountain Trench. This anomaly, which is evident by numerous soil and rock geochemistry surveys, crosses lithologies which range stratigraphically from the upper Aldridge Formation at the Spirit Dream property down to the Fort Steele Formation at Wasa Creek (approximately 15 km to the north). Gold tends to be present in brecciated brittle rocks like the quartzites at Spirit Dream but because brittle lithologies of other Formations are mineralized within the NNW zone, there must also be an underlying structural control. The cross-cutting ENE to easterly faults may be an important structural fabric; they are roughly axial planar to the gentle folding seen in the brecciated quartzites. An analysis of both lithologic and structural parameters could lead to development of better exploration targets for diamond drilling.

#### 2.20 Tac Area

Access trail construction and trenching were undertaken in 2009 on a fairly distinct soil geochemistry anomaly that was discovered by Placer Dome in 1989 (Fox, 1990), and confirmed by contour soil geochemistry by Ruby Red Reources in 2006. The anomaly had a strong linear

character, was sub-parallel to regional bedding and straddled a ridge, suggesting that bedrock could be readily exposed by trenching. The soil anomaly was also close to existing older road access so it was logistically easier to get to.

Trenching was only partially successful at getting to bedrock. Some of the upper trenches encountered thick overburden material that is unconsolidated and probably represents a local glacial deposit. The material in places consists of loose sand and gravel; elsewhere it is angular but lacks fines and results in very unstable trench walls. In many cases, for example in most of Trench 2, bedrock could not be reached.

The presence of this unconsolidated presumably glacial material covering a good part of the linear soil anomaly lends some doubt to the soil anomaly being a good reflection of bedrock gold mineralization. Furthermore, rather abundant brecciated and quartz-veined angular quartzite boulders were seen in the overburden. Some of these were sampled and they tend to be anomalous in gold (they are similar to the 'Spirit Quartzites' of the Spirit Dream property). Bedrock encountered in the trenches appears to have much lower concentrations of brecciated quartzite and siltstone. It appears that the brecciated and gold mineralized quartzites present in the overburden could be part of the source of the soil geochem anomaly. Furthermore, the gold-mineralized brecciated quartzites in overburden probably have a nearby source that has not been identified by this trenching program.

Generally, the soil geochem anomaly is developed near the contact of argillite rocks to the west and quartzitic rocks to the east. Syenite dikes are present in the area and tend to be oriented parallel to bedding and to bedding-parallel faults. Anomalous gold mineralization was identified in brecciated quartzites and siltstones, in syenite dikes and in fault structures. Each of these sites are variably mineralized; not all the brecciated quartzites or syenites or faults sampled have significant anomalous gold mineralization.

Within the area of the soil geochem anomaly, a narrow band (1.4 to 1.6 meters wide in 2 trenches) of brecciated quartzites carries gold mineralization varying from 51 to 366 ppb (in chip samples across half the width). This band of quartzites strikes northerly into the area of the largest syenite dike encountered in the trenching. No syenite was noted in trenches 1 and 4 near the brecciated quartzite but, on strike to the north, the syenite dike is about 4 or 5 meters wide in Trench 5 and about 14 meters wide in Trench 6 (Fig. 5). The highest gold value from the trenching program is of altered syenite in Trench 5 at almost 2 grams/tonne gold (1953 ppb gold).

A narrow syenite dike was also trenched within argillites in Trench 1. Abundant syenite float occurs in association with brecciated quartzites near 603250E, 5511370N, and, given the abundance and large size of the fragments, appears to be subcropping material. This probably represents another (untrenched) syenite dike; it is roughly 'on strike' of the narrow syenite dike hosted by argillites in Trench 1.

Another syenite dike occurs in outcrop further to the west, near 603140E, 1040N. This area was

looked at as a follow-up of 2 anomalous soil geochem values acquired in 2006 (see Figs. 5 & 6). This syenite dike trends northwesterly, is about 4 meters wide and appears to pinch out to the southeast, uphill. It is lost in talus to the northwest. The dike is associated with parallel-trending faulting, locally brecciated quartzites, and a parallel-trending sedimentary breccia zone that is at least 6 meters wide. The brecciated quartzites and a weak quartz vein breccia within the syenite are anomalous in gold (96.4 ppb and 68.7 ppb Au, respectively).

#### 3.00 ROCK GEOCHEMISTRY

At the Spirit Dream property, 32 rock samples were collected from the 2009 area of trenching and also from some additional trenching done on the 2008 trails. At the Tac property 4 rock samples were collected from surface exposures west of the area of trenching and 48 samples were collected from the trenches. The samples were bagged and shipped to Acme Analytical Laboratories Ltd. at 1020 Cordova Street East, Vancouver, B.C. where they were analyzed for a 30 element ICP package and geochemical gold by standard analytical procedures. Location of the samples is shown in Figures 4 & 6 with values for gold in ppb. A description of the rock samples is in Appendix 1 and complete geochemical analyses are provided in Appendix 2.

At the Spirit Dream, anomalous gold mineralization is most commonly developed in brecciated quartzites which have quartz stockwork development along with sericitic alteration, pyrite and iron carbonate. Chip samples and grab samples typically have gold values in the range of .2 to .6 grams/tonne. Narrow, bedding (or fault?) –parallel quartz veins can also carry anomalous gold and one rusty ENE trending fault zone returned 605.7 ppb Au (attitude of the fault is 074/66S).

At the Tac, gold mineralization is also developed within brecciated quartzites which have quartz stockwork development along with sericitic alteration, pyrite and iron carbonate. Altered syenite can also be appreciably gold-mineralized (the highest gold value of 1953 ppb Au is from an altered syenite) and bedding-parallel fault structures also can carry gold.

#### 4.00 CONCLUSIONS AND RECOMMENDATIONS

- 1. In 2009, two areas of an extensive gold anomaly within Ruby Red resources' Rockies property were evaluated by access trail construction, trenching, geologic mapping and rock geochemistry.
- 2. Gold mineralization is quite widespread and occurs in brecciated quartzites and siltstones, in numerous quartz veins, in syenite dikes and in fault zones. Some clay gouge fault zones with little or no apparent quartz are anomalous in gold. Typically pyrite, sericite and iron carbonate occur in association with anomalous gold.
- 3. At the Tac property, a gold-mineralized syenite dike thickens northward across part of the area of trenching and should be explored down hill to the north.

#### 5.00 REFERENCES

Di Spirito, F., D.J.Pawliuk & H Mertens, 1987

Geological, Geophysical and Geochemical surveys on the South King property for Bakra Resources, Fort Steele Mining Division, British Columbia. Assessment Report 16,337.

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Hoy, T., 1979

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Kennedy, C., 2002 Assessment report, Rock geochemistry program, Tac property, Assessment Report 26,983.

Kennedy, S., 2009 Rock Geochemistry and Trenching report, Spirit Dream Mimneral Claims. Assessment Report 30,757.

Klewchuk, P., 2006 Assessment report on soil geochemistry, Spirit Dream property, Wild Horse River area, Fort Steele Mining Division, British Columbia. Assessment Report 28,643.

Kulla, G.K., & Fox, P.E., 1988 Geochemical report on the Tackle 1 to 4 claims, Fort Steele Mining Division, British Columbia. Assessment Report 18,159.

Ransom, P.W., 1991 1991 Exploration report, Estella property, Fort Steele Mining Division, British Columbia. Assessment Report 21,935.

#### 6.00 STATEMENT OF EXPENDITURES

Access trail construction a	and trenching	
Tracked excavator, D-6 ca	aterpillar bulldozer and lowbeds;	
Pighin's Welding Ltd., Ci	anbrook, B.C.	\$51,769.87
Geologist P. Klewchuk		,
Lay out trails, supervise th	ail construction and trenching,	
Trench mapping, rock geo	ochemistry 22 days @ \$400/day	8,800.00
4X4 truck	21 days @ \$100/day	2,097.96
Report 5 days @ \$400/da	y	2,000.00
Rock geochemistry; 84 sa	mples @ 25/sample	2,100.00
Sub-total		\$66,767.83
15% Administration	on overhead; Calgary office	10,015.17
Total Cost	5	\$76,783.00

#### 7.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Peter Klewchuk, certify that:

- 1. I am an independent consulting geologist with offices at 1 200 Norton Avenue, Kimberley, B.C.
- 2. I am a graduate geologist with a B. Sc. degree (1969) from the University of British Columbia and an M. Sc. degree (1972) from the University of Calgary.
- 3. I am a Fellow of the Geological Association of Canada and a member of the Association of Professional Engineers and Geoscientists of British Columbia.
- 4. I have been actively involved in mining and exploration geology, primarily in the province of British Columbia, for the past 34 years.
- 5. I have been employed by major mining companies and provincial government geological departments.

Dated at Kimberley, British Columbia this 25<sup>th</sup> day of February, 2010.

PROVINCE R. KLEWCHUK Peter Klewchu Geo CIE

#### Appendix 1. Rock Sample Descriptions

Sample Number Description

- TA-8 Narrow (30-50cm) bedding-parallel quartz vein breccia zone in altered quartzites. Weakly rusty weathering. Adjacent rocks are phyllitic-altered. 96.4 ppb Au.
- TA-9 Quartz vein breccia in altered quartzites. Minor dissem py. Planar QV 2-3 cm wide show cockscomb quartz crystals and irregular poddy white granular quartz. There are also thin cross-cutting QV. Included thin bedded silty argillite show pinch and swell structure and folding. 23.3 ppb Au.
- TA-10 Sample of bits of QV from 4-5 m wide lens of fault breccia. Sample includes mostly altered sedimentary rock. 4.9 ppb Au.
- TA-11 Chips of thin rusty quartz veins on east margin of lensey syenite dike. There is very locally (?) coarse euhedral pyrite in syenite. 68.7 ppb Au.
- T1-1 Grab sample of pieces of quartz from larger QV. QV attitude is about 150/75E. 161.9 ppb Au.
- T1-2 70 cm chip, west half of brecciated quartzite band. No adjacent bedrock exposed. 156.1 ppb Au.
- T1-3 ~70 cm chip, east half of brecciated quartzite zone. Less quartz than in west half, more phyllitic alteration, wavy fracturing. 51.1 ppb Au.
- T1-4 West 90 cm of fractured siltstone. Altered, limonitic fractures but no obvious QV (may be some very thin ones) 413.8 ppb Au.
- T1-5 East 90 cm of fractured siltstone. More massive, less sheared. Hematitic, silicic altered. 106.3 ppb Au.
- T1-6 Grab sample of siltstone adjacent to limonitic fault zone. Silicified with clots of pyrite. 79.1 ppb Au.
- T1-7 25 to 30 cm wide limonitic fault breccia and gouge. Crushed sediments, no obvious quartz. Medium yellow-brown limonitic stained. 304.2 ppb Au.
- T1-8 Chip sample across 0.8 m band of altered limonitic siltstone on west side of fault. 216.0 ppb Au.

- T1-9 30 cm wide fault zone on NE side of sample T1-8. Limonitic brecciated argillite and clay, no obvious quartz noted. 439.9 ppb Au.
- T1-10 80 cm chip sample of altered limonitic siltstone on NE side of fault; weak limonitic breccia with few very thin milky white QV. 656.6 ppb Au.
- T1-11 70 cm chip sample of limonitic-altered siltstone; weak limonite breccia; affected by adjacent faults; minor clots of oxidized pyrite. 219.9 ppb Au.
- T1-12 Chips from 90 cm fault zone of sheared limonitic argillite. 352.4 ppb Au.
- T1-13 Grab of quartz vein. 141.5 ppb Au.
- T1-14 Crushed quartz. 72.9 ppb Au.
- T2-1 Sample of angular 'float' in trench near fault. Brecciated, silicified siltstone with
  5-10 mm wide QV in a concentrated band. Minor py in QV and orange-brown limonite.
  191.4 ppb Au.
- T2-2 Loose rock in trench of Mn and orange-brown stained QV in breccia zone in strongly altered quartzites. Large angular piece of float from trench on outside corner. Bedrock in one trench pit, 4-5 m deep below unconsolidated rubble is blue-black argillite or silty argillite. 1275 ppb Au.
- T3-1 Limonite breccia in argillite / silty argillite. No quartz noted. Mostly medium to dark green chloritic but more bleached and punky at limonite breccia. 9.1 ppb Au.
- T3-2 2-3 cm wide irregular (not planar) granular milky white QV with orange-brown limonite. Small clots of PbS and weak malachite stain. 9.0 ppb Au (387 ppm Pb, 71 ppm Cu).
- T3-3 One single flat QV 1 to 3 cm wide, within quartzite zone withincluded sheared, more argillaceous sediments. 12.0 ppb Au.
- T3-4 Grab of chips of QV within brecciated quartzite. Orange-brown limonitic staining on QV. 538.6 ppb Au.
- T3-5 Grab of mostly lensey 'shear'-parallel QV with orange-brown limonite. From within a 1.5 m wide 'quartzite-siltstone' package that is brecciated. Quartzite-siltstone band is within a fairly thick package of green, more argillaceous sediments. 42.8 ppb Au.
- T4-1 Limonitic fault-crushed blue-black argillite. No quartz noted. Sample taken over

~40 cm. 281.9 ppb Au.

- T4-2 Grab sample of dark brown, limonitic lensey QV 3-10 mm thick, cross-cutting quartzite-siltstone. Orange-brown limonite on fractures. Altered quartzite has abundant local dissem euhedral pyrite. 243.4 ppb Au.
- T4-3 Dolomitic siltstone with phyllitic, pastel-colored sericitic-altered argillite. Very few thin wavy quartz veinlets with pyrite. Probably part of a larger deformation / fault zone; quite brown limonitic altered and some more blackish Mn staining. 251.9 ppb Au.
- T4-4 West 80 cm of band of brecciated quartzites with rusty irregular QV. 366.0 ppb Au.
- T4-5 East 80 cm of band of brecciated quartzites with rusty irregular QV. 337.8 ppb Au.
- T5-1 Grab sample of quartz veins from large angular boulders from base of overburden in trench. Minimal amount of host quartzite in sample. Dark orange-brown limonite, intergrown coarse euhedral pyrite. 242.9 ppb Au.
- T5-2 Grab sample of QV breccia in siltstone. Not obviously from bedrock; trench sloughing in due to unconsolidated overburden. 99.0 ppb Au.
- T5-3 Grab of shattered quartzite with thin QV up to 3 cm wide, with minor pyrite. Near syenite. 113.6 ppb Au.
- T5-4 3 cm wide QV with dissem py in syenite from bedrock. 576.6 ppb Au
- T5-5 Sliver of syenite (may be brecciated) adjacent to QV. 1953 ppb Au.
- T5-6 Grab sample of darker colored syenite. 109.0 ppb Au.
- T5-7 Grab sample of altered syenite from bedrock. Syenite has quartz blebs and dissem pyrite and is yellowish oxidized, with rusty patches from weathering of pyrite. 243.3 ppb Au.
- T5-8 Grab sample of yellowish, altered syenite with rusty patches, dissem pyrite. 303.6 ppb Au.
- T5-9 Grab of angular pieces of quartz. Not obviously from bedrock but is from very bottom of trench at bedrock. Rusty lenses in QV are similar to those in QV in brecciated quartzites. Bright orange-brown limonite; FeCO<sub>3</sub> (?).

T5-10 Grab of QV from brecciated siltstone. Not obviously from bedrock but there is an abundance of similar material. Bright orange-brown limonite. 170.7 ppb Au.

T5-11 Grab sample of brecciated argillaceous siltstone. Brecciation is similar to that seen in more brittle quartzites ( i.e. this seems a relatively poor host for brecciation but is similarly brecciated to quartzites). Siltstone is pastel-altered (sericite), with dark reddis-brown limonite. 101.4 ppb Au.

- T5-12 Grab sample of narrow, irregular 1 cm wide QV in altered syenite. 824.1 ppb Au.
- T5-13 Grab of QV-rich portion of brecciated siltstone-quartzite with coarse euhedral pyrite cubes. More silty than T5-14 with phyllitic pastel-colored sericitic alteration. 12.4 ppb Au.
- T5-14 Similar to T5-13. Lithology is more quartzitic than T5-13 with wider QV and coarse dark brown (chocolate) to reddish. 34.0 ppb Au.
- T5-15 Grab of 2-3 cm wide cross-cutting QV in altered quartzite; loose piece from trench (not obviously from bedrock). Dissem pyrite with abundant rusty, oxidized patches in QV. 1142 ppb Au.
- T5-16 Sheared, crenulated, limonitic argillaceous siltstone with thin rusty cross-cutting fractures. 2.2 ppb Au.
- T5-17 Brecciated quartzite with small lensey limonitic streaks. Few thin QV 1 to 1.5 cm wide with dark orange-brown limonite. 44.4 ppb Au.
- T6-1 Sample of more weakly brecciated altered siltstone. 337.9 ppb Au.
- T6-2 Grab of 15mm wide white, possibly late QV in more weakly brecciated argillaceous siltstone with fine limonitic fractures and hematite spotting. No obvious pyrite in QV but the limonitic spots may be weathered pyrite. From bedrock at base of trench. 94.0 ppb Au.
- T6-3 60 cm wide more weakly brecciated, altered quartzite. 2.5 to 3 m wide zone of quartzites here on east side of syenite but not all brecciated. Sample focused on QV and not representative of quartzites. 124.6 ppb Au.

T6-4 Brecciated quartzites with typical rusty QV. Chip over 50 cm but with emphasis on QV. Good quartzite lithology but not strongly brecciated (may be bettersomewhere along this unit?). Chip sample over ~60 cm. 387.6 ppb Au.

T6-5 8 mm wide QV cross-cutting brownish limonitic quartzite. From a medium to thin bedded zone of more weakly brecciated siltstone. The limonite is vari-colored from orange to brown to tan. 275.2 ppb Au.

- SDT-09-1 Grab of carbonate-altered quartzite with dissem pyrite and one hairline limonitic fracture. 4.9 ppb Au.
- SDT-09-2 Grab sample of mostly QV from brecciated quartzite, across ~95 cm width. QV are irregular. Dark brown-orange limonite. <0.5 ppb Au.
- SDT-09-3 Silty quartzite with thin, 2-3 mm wide, 'flat' QV . Slightly vuggy with orangebrown limonite. 1.7 ppb Au.
- SDT-09-4 Grab sample of bedding-parallel very rusty bands 4-5 mm thick. Pyrite and quartz? 112.3 ppb Au.
- SDT-09-5 50 cm brecciated quartzite with thin QV. Quartzite is between narrow argillites. 329.4 ppb Au.
- SDT-09-6 Sample of brecciated quartzite with 1.5 cm carbonate vein and lensey (up to 5 mm thick) QV cross-cutting it. <0.5 ppb Au.
- SDT-09-7 Grab of rusty fault breccia. Predominantly just crushed blue-black argillite but with possible small quartz blebs and oxidized pyrite. 605.7 ppb Au.
- SDT-09-8 Grab of 1.5 m wide fault zone; all argillite with a 15-20 cm zone of crushed argillite. 137.0 ppb Au.
- SDT-09-9 Grab of relatively flat east-dipping quartz vein in quartzite. 38.9 ppb Au.
- SDT-09-10 Altered siltstone from bottom of trench with few very rusty QV. Liesegangbanded with a dark brownish 'dolomitic'rind Pyrite is locally strongly developed on fractures along with brighter orange-brown limonite. 8.6 ppb Au.
- SDT-09-11 Chips of a few QV, mostly from quartzite. Few limonitic veins. <5% quartz. 15.1 ppb Au.
- SDT-09-12 Grab of QV with pyrite from very angular boulder from base of overburden. Relatively few QV get up to 1.5 cm wide plus local lensey concentrations of coarse pyrite. 586.9 ppb Au.
- SDT-09-13 Brecciated quartzite with abundant quartz veining. Quartzite is hornfels-altered. 156.3 ppb Au.
- SDT-09-14 Grab from pieces of angular quartzite from near bottom of trench. 19.4 ppb Au.

- SDT-09-15 Sample from outcrop of brecciated quartzites with few QV; emphasis on QV. 103.0 ppb Au.
- SDT-09-16 Grab of 2 thin granular white QV; sampled more rusty portions. 67.0 ppb Au.
- SDT-09-17 Grab sample of east-dipping QV. These may be the prominent cross-cutting QV in quartzites that carry gold. 238.2 ppb Au.
- SDT-09-18 Gray to milky white glassy quartz with very minor fine dissem pyrite and angular patches of orange-brown limonite. 39.3 ppb Au.
- SDT-09-19 Narrow, strongly limonitic fault zone. Reddish orange-brown limonite; mostly just fault gouge. 14.4 ppb Au.
- SDT-09-20 Grab of brecciated siltstone in and near fault zone. Strong purplish-orange-brown limonite; some quartz veins. 110.7 ppb Au.
- SDT-09-21 Grab of very limonitic fractured silty argillite. Purple-orange-brown limonite; very strongly limonite-altered. No obvious quartz. 8.9 ppb Au.
- SDT-09-22 Grab of various QV from loose material from trench. Some medium to coarse grained euhedral pyrite and possible magnetite. 251.6 ppb Au.
- SDT-09-23 QV on fracture (at 099/72S) in quartzite, Gray to dull white glassy granular texture, minor specularite, abundant orange-brown limonite in angular patches on margin of QV. 13.5 ppb Au.
- SDT-09-24 Similar style QV to SDT-09-23 (at 331/70N); lensey; pinches and swells; in more broken up siltstone. 9.2 ppb Au.
- SDT-09-25 Thin QV; some fine dissem pyrite. Character of vein is similar to #23 and #24; looks like a bedding-parallel vein (at 040/60E) but in folded bedding. 345.5 ppb Au.
- SDT-09-26 Grab of weakly brecciated altered quartzite. Thin limonitic QV on fractures. Minor dissem pyrite. 12.6 ppb Au.
- SDT-09-27 Local (?) zone of brecciated quartzite with intersecting narrow QV 3 to 5 mm thick. Cut by stronger than normal fracturing at 013/68E. 2.5 ppb Au.
- SDT-09-28 Chip sample of 1.2 m thick quartzite. Varies from very hard, with QV and silicic alteration, to moderately limonitic, to very strongly orange-brown limonitic. Dissem pyrite in quartzite. 18.5 ppb Au.
- SDT-09-29 Grab of more weakly altered medium thick siltstone bed. Open fractures are

strongly limonitic. 1.8 ppb Au.

- SDT-09-30 50 cm chip sample across western-most top of quartzite zone. Thin rusty crosscutting QV. 202.6 ppb Au.
- SDT-09-31 Grab sample from different pieces of quartzite with some QV and dissem Pyrite. 268.1 ppb Au.
- SDT-09-32 Chip of 30 cm quartzite bed within argillites. Cross-cutting 5 to 8 mm wide glassy quartz veins with some dissem pyrite, locally quite limonitic. 399.7 ppb Au.



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Appendix 2. Rock Sample Geochemical Analyses

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	Method	WGHT	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	10	
	Analyte	Wgt	Au	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	M	
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	MDL	0.01	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1	
TA-8 Rock		0.30	96.4	6	10	<3	22	<0.3	7	3	93	1.64	6	<8	<2	7	12	<0.5	<3	<3	5	
TA-9 Rock		0.39	23.3	<1	8	<3	24	<0.3	17	5	410	2.21	5	<8	<2	5	37	<0.5	<3	<3	8	
TA-10 Rock		0.38	4.9	28	24	<3	56	<0.3	21	9	491	3.03	17	<8	<2	6	262	<0.5	<3	<3	5	
TA-11 Rock		0.29	68.7	<1	7	<3	62	<0.3	10	5	1701	2.74	<2	<8	<2	2	65	<0.5	<3	<3	4	
T1-1 Rock		0.33	161.9	4	10	7	13	0.3	4	2	128	0.92	<2	<8	<2	<2	10	<0.5	<3	<3	1	
T1-2 Rock		0.62	156.1	<1	9	<3	27	<0.3	14	16	1215	2.71	7	<8	<2	4	6	<0.5	<3	<3	5	
T1-3 Rock		0.57	51.1	1	6	<3	21	<0.3	8	6	788	1.85	4	<8	<2	5	5	<0.5	<3	<3	3	
T1-4 Rock		0.52	413.8	1	17	5	28	<0.3	13	8	217	2.84	6	<8	<2	9	3	<0.5	<3	<3	2	
T1-5 Rock		0.49	106.3	3	21	<3	24	<0.3	9	7	150	2.50	2	<8	<2	10	7	<0.5	<3	<3	3	
T1-6 Rock		0.52	79.1	4	25	<3	34	<0.3	18	17	747	2.77	8	<8	<2	7	14	<0.5	<3	<3	2	
T1-7 Rock		0.41	304.2	3	27	4	23	<0.3	8	9	176	3.43	3	<8	<2	8	8	<0.5	<3	<3	5	
T1-8 Rock		0.64	216.0	1	23	<3	15	<0.3	6	5	83	2.18	<2	<8	<2	8	3	<0.5	<3	<3	2	
T1-9 Rock		0.47	437.9	1	35	<3	27	<0.3	8	7	102	2.75	3	<8	<2	9	8	<0.5	<3	<3	4	
T1-10 Rock		0.61	656.6	<1	23	3	13	0.3	5	3	39	2.06	2	<8	<2	8	3	<0.5	<3	<3	2	
T-11 Rock		0.64	219.9	<1	34	<3	22	<0.3	7	4	72	2.90	4	<8	<2	9	3	<0.5	<3	<3	2	
T-12 Rock		0.56	352.4	<1	50	4	33	0.6	19	15	163	4.15	10	<8	<2	11	6	<0.5	<3	<3	4	
T1-13 Rock		0.77	141.5	9	10	20	12	0.5	4	4	97	1.29	<2	<8	<2	4	7	<0.5	<3	<3	- 3	
T1-14 Rock		1.18	72.9	7	7	<3	6	<0.3	3	2	51	0.70	<2	<8	<2	3	6	<0.5	<3	<3	2	
T2-1 Rock		0.54	191.4	<1	5	<3	25	<0.3	7	5	1299	1.86	2	<8	<2	4	17	<0.5	<3	<3	4	
T2-2 Rock		0.55	1275	<1	59	6	62	1.1	13	9	3579	6.19	9	<8	<2	<2	25	<0.5	<3	<3	9	
T3-1 Rock		0.52	9.1	1	6	4	27	<0.3	11	12	328	2.19	5	<8	<2	8	3	<0.5	<3	<3	3	
T3-2 Rock		0.42	9.0	<1	71	387	51	1.8	2	5	291	0.89	7	<8	<2	<2	4	<0.5	<3	6	1	
T3-3 Rock		0.46	12.0	<1	9	35	13	<0.3	3	3	1715	1.76	2	<8	<2	<2	10	<0.5	<3	<3	<1	
T3-4 Rock		0.41	538.6	<1	16	9	15	<0.3	6	10	582	1.50	7	<8	<2	2	5	<0.5	<3	<3	2	
T3-5 Rock		0.33	42.8	<1	4	<3	10	<0.3	2	3	594	1.11	2	<8	<2	3	5	<0.5	<3	<3	2	
T4-1 Rock		0.45	281.9	2	49	23	15	0.7	6	4	140	4.64	5	<8	<2	5	18	<0.5	<3	<3	6	
T4-2 Rock		0.28	243.4	<1	7	<3	12	0.4	10	6	291	1.96	<2	<8	<2	7	7	<0.5	<3	<3	5	
T4-3 Rock		0.34	251.9	<1	50	90	27	5.2	16	8	1998	3.34	11	<8	<2	5	34	<0.5	<3	21	2	
T4-4 Rock		0.78	366.0	1	9	<3	25	0.4	6	9	1256	2.25	3	<8	<2	3	28	<0.5	<3	<3	3	
T4-5 Rock		0.66	337.8	1	8	<3	19	<0.3	8	8	771	2.03	<2	<8	<2	2	4	<0.5	<3	<3	3	

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<u> </u>	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Ca	P	La	Cr	Mg	Ba	TI	В	AI	Na	κ	w	S
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
	MDL	0.01	0.001	1	1	0.01	1	0.01	10	0.01	0.01	0.01	2	0.05
TA-8 Rock		0.04	0.016	20	9	0.02	137	<0.01	<10	0.24	0.03	0.18	<2	0.25
TA-9 Rock		0.63	0.018	14	6	0.09	23	<0.01	<10	0.22	0.06	0.07	<2	0.46
TA-10 Rock		0.40	0.029	16	5	0.18	937	<0.01	<10	0.31	0.03	0,18	<2	0.26
TA-11 Rock		1.19	0.034	9	5	0.10	2163	<0.01	<10	0.27	0.06	0.16	<2	0.17
T1-1 Rock		0.01	0.006	4	10	<0.01	42	<0.01	<10	0.07	0.02	0.04	<2	<0.05
T1-2 Rock		0.02	0.008	13	7	0.02	80	<0.01	<10	0.21	0.03	0.07	<2	0.23
T1-3 Rock		<0.01	0.006	16	5	0.02	228	<0.01	<10	0.26	0.03	0.12	<2	<0.05
T1-4 Rock		<0.01	0.015	26	3	0.03	37	<0.01	<10	0.32	0.02	0.19	<2	<0.05
T1-5 Rock		0.02	0.034	29	3	0.02	37	<0.01	<10	0.31	0.01	0.19	<2	<0.05
T1-6 Rock		0.12	0.009	17	3	0.06	858	<0.01	<10	0.30	0.02	0.17	<2	0.42
T1-7 Rock		<0.01	0.021	29	3	0.03	59	<0.01	<10	0.56	0.01	0.20	<2	<0.05
T1-8 Rock		<0.01	0.010	26	3	0.02	41	<0.01	<10	0.34	0.02	0.18	<2	<0.05
T1-9 Rock		<0.01	0.025	31	3	0.04	55	<0.01	<10	0.73	0.01	0.21	<2	<0.05
T1-10 Rock		<0.01	0.016	27	2	0.02	59	<0.01	<10	0.35	0.02	0.20	<2	<0.05
T-11 Rock		<0.01	0.011	22	2	0.02	38	<0.01	<10	0.37	0.02	0.16	<2	<0.05
T-12 Rock		<0.01	0.023	29	2	0.03	152	<0.01	<10	0.58	<0.01	0.20	<2	<0.05
T1-13 Rock		<0.01	0.010	13	12	<0.01	30	<0.01	<10	0.15	0.03	0.07	<2	<0.05
T1-14 Rock		<0.01	0.008	10	9	0.02	30	<0.01	<10	0.16	0.02	0.07	<2	<0.05
T2-1 Rock		0.51	0.058	9	8	0.10	277	<0.01	<10	0.17	0.05	0.03	<2	0.06
T2-2 Rock		0.38	0.012	2	6	0.16	161	<0.01	<10	0.08	0.01	<0.01	<2	1.97
T3-1 Rock		<0.01	0.017	26	5	0.12	85	<0.01	<10	0.49	0.02	0.20	<2	<0.05
T3-2 Rock		<0.01	0.003	3	10	0.02	25	<0.01	<10	0.09	<0.01	0.02	<2	<0.05
T3-3 Rock		0.05	0.031	4	7	0.01	121	<0.01	<10	0.10	0.01	0.03	<2	<0.05
T3-4 Rock		0.02	0.020	10	11	0.01	102	<0.01	<10	0,16	0.03	0.06	<2	<0.05
T3-5 Rock		0.02	0.014	9	8	0.01	39	<0.01	<10	0.19	0.06	0.03	<2	<0.05
T4-1 Rock		<0.01	0.042	16	5	0.02	299	<0.01	<10	0.48	<0.01	0.22	<2	<0.05
T4-2 Rock		<0.01	0.005	21	6	0.01	441	<0.01	<10	0.24	0.05	0.12	<2	0.05
T4-3 Rock		3.68	0.044	12	3	0.26	863	<0.01	<10	0.25	0.02	0.13	<2	0.37
T4-4 Rock		0.53	0.007	9	8	0.18	273	<0.01	<10	0.13	0.04	0.04	<2	0.40
T4-5 Rock		0.01	0.005	6	7	0.01	34	<0.01	<10	0.19	0.04	0.06	<2	0.11



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	Method	WGHT	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	v
	Unit	kg	ррь	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
· · · · · · · · · · · · · · · · · · ·	MDL	0.01	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1
T5-1 Rock		0.52	242.9	<1	7	4	18	<0.3	6	4	728	1.75	<2	<8	<2	2	6	<0.5	<3	<3	3
T5-2 Rock		0.37	99.0	<1	3	<3	24	<0.3	4	3	1503	1.98	<2	<8	<2	5	36	<0.5	<3	<3	4
T5-3 Rock		0.54	113.6	2	39	<3	16	<0.3	7	7	682	0.95	3	<8	<2	6	3	<0.5	<3	<3	1
T5-4 Rock		0.55	576.6	<1	135	17	5	1.0	2	<1	53	0.75	2	<8	<2	<2	16	<0.5	<3	<3	1
T5-5 Rock		0.19	1953	2	240	93	17	6.0	9	4	72	2.72	7	<8	<2	4	67	<0.5	<3	7	5
T5-6 Rock		0.35	109.0	<1	8	17	25	<0.3	1	2	1205	1.17	<2	<8	<2	3	52	<0.5	<3	<3	2
T5-7 Rock		0.51	243.3	<1	4	5	13	<0.3	1	2	127	1.83	4	<8	<2	5	8	<0.5	<3	<3	2
T5-8 Rock		0.63	303.6	<1	6	9	12	0.9	1	2	91	2.53	4	<8	<2	5	10	<0.5	<3	<3	3
T5-9 Rock		0.73	41.9	<1	20	<3	28	<0.3	12	8	1808	6.60	<2	<8	<2	<2	4	<0.5	<3	<3	2
T5-10 Rock		0.51	170.7	1	7	<3	24	<0.3	7	7	1291	2.20	4	<8	<2	4	17	<0.5	<3	<3	5
T5-11 Rock		0.46	101.4	1	79	6	29	<0.3	11	12	1708	2.84	7	<8	<2	6	11	<0.5	<3	<3	5
T5-12 Rock		0.61	824.1	<1	24	10	14	1.6	3	2	174	1.92	23	<8	<2	5	43	<0.5	<3	<3	4
T5-13 Rock		0.53	12.4	<1	3	<3	13	<0.3	5	4	729	1.52	<2	<8	<2	4	18	<0.5	<3	<3	4
T5-14 Rock		0.59	34.0	<1	3	<3	24	<0.3	4	2	1124	1.75	<2	<8	<2	<2	57	<0.5	<3	<3	5
T5-15 Rock		0.47	1142	1	23	5	19	0.5	4	3	1072	2.31	<2	<8	<2	<2	17	<0.5	<3	<3	3
T5-16 Rock		0.53	2.2	<1	8	3	6	<0.3	4	3	1288	1.92	<2	<8	<2	4	154	<0.5	<3	<3	1
T5-17 Rock		0.61	44.4	<1	3	<3	12	<0.3	6	5	603	1.16	2	<8	<2	3	3	<0.5	<3	<3	3
T6-1 Rock		0.48	337.9	<1	4	<3	11	<0.3	5	2	496	1.16	4	<8	<2	5	44	<0.5	<3	<3	3
T6-2 Rock		0.51	94.0	1	3	9	11	<0.3	7	9	407	1.23	4	<8	<2	<2	17	<0.5	<3	<3	3
T6-3 Rock		0.28	124.6	<1	17	<3	19	<0.3	5	3	1063	1.43	3	<8	<2	4	6	<0.5	<3	<3	2
T6-4 Rock		0.39	387.6	<1	10	<3	12	<0.3	7	6	565	1.50	4	<8	<2	4	4	<0.5	<3	3	2
T6-5 Rock		0.56	275.2	1	5	4	12	<0.3	8	7	327	1.31	2	<8	<2	6	5	<0.5	<3	<3	2
SDT-09-1 Rock		0.36	4.2	<1	41	36	82	<0.3	13	12	1551	2.51	4	<8	<2	6	19	<0.5	<3	<3	2
SDT-09-2 Rock		0.37	<0.5	<1	5	16	37	<0.3	4	3	708	1.62	<2	<8	<2	5	10	<0.5	<3	<3	1
SDT-09-3 Rock		0.52	1.7	<1	7	13	38	<0.3	7	5	309	1.53	<2	<8	<2	7	3	<0.5	<3	3	2
SDT-09-4 Rock		0.45	112.3	13	281	263	409	1.2	56	28	563	17.16	75	<8	<2	10	3	<0.5	<3	19	2
SDT-09-5 Rock		0.50	329.4	<1	7	6	36	<0.3	5	4	366	1.47	3	<8	<2	6	4	<0.5	<3	3	<1
SDT-09-6 Rock		0.68	<0.5	<1	3	18	22	<0.3	14	3	710	3.19	<2	<8	<2	2	267	<0.5	<3	<3	1
SDT-09-7 Rock		0.34	605.7	3	87	22	73	<0.3	147	42	1437	8.47	14	<8	<2	7	5	<0.5	<3	<3	10
SDT-09-8 Rock		0.39	137.0	2	299	109	168	<0.3	33	35	445	7.08	22	<8	<2	14	3	<0.5	<3	3	4

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CERTIFICATE OF ANALYSIS

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Ca	P	La	Cr	Mg	Ba	ТІ	B	AI	Na	к	w	s
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	*
	MDL	0.01	0.001	1	1	0.01	1	0.01	10	0.01	0.01	0.01	2	0.05
T5-1 Rock		0.03	0.007	6	10	0.02	106	<0.01	<10	0.12	0,04	0.03	<2	0.12
T5-2 Rock		1.29	0.006	14	7	0.28	103	<0.01	<10	0.14	0.06	0.02	<2	<0.05
T5-3 Rock		0.01	0.012	25	5	0.02	134	<0.01	<10	0.20	<0.01	0,18	<2	<0.05
T5-4 Rock		<0.01	0.006	8	15	<0.01	356	<0.01	<10	0.10	0.02	0.07	<2	0.06
T5-5 Rock		0.01	0.026	16	6	0.01	190	<0.01	<10	0.23	0.04	0.13	<2	<0.05
T5-6 Rock		0.40	0.056	16	2	0.03	2502	<0.01	<10	0.35	0.03	0.28	<2	0.08
T5-7 Rock		0.03	0.040	25	4	0.01	115	<0.01	<10	0.21	0.07	0.07	<2	<0.05
T5-8 Rock		0.09	0.113	23	2	<0.01	148	<0.01	<10	0.18	0.08	0.02	<2	0.21
T5-9 Rock		<0.01	0.013	4	7	0.06	151	<0.01	<10	0.07	<0.01	0.03	<2	<0.05
T5-10 Rock		0.55	0.018	12	7	0.19	131	<0.01	<10	0.14	0.05	0.04	<2	0.14
T5-11 Rock		0.30	0.007	14	7	0.12	234	<0.01	<10	0.20	0.04	0.07	<2	0,13
T5-12 Rock		0.25	0.167	22	6	0.02	2024	<0.01	<10	0.32	0.02	0.20	<2	0.09
T5-13 Rock		0.35	0.005	9	8	0.08	130	<0.01	<10	0.14	0.03	0.07	<2	<0.05
T5-14 Rock		1.67	0.003	3	7	0.31	119	<0.01	<10	0.07	0.03	0.01	<2	<0.05
T5-15 Rock		0.23	0.011	1	13	0.06	629	<0.01	<10	0.05	<0.01	0.02	<2	0.56
T5-16 Rock		4.33	0.048	9	2	1.42	88	<0.01	<10	0.19	<0.01	0.15	<2	<0.05
T5-17 Rock		0.02	0.004	8	8	0.01	63	<0.01	<10	0.13	0.04	0.03	<2	<0.05
T6-1 Rock		1.00	0.007	10	5	0.29	238	<0.01	<10	0.18	0.03	0.12	<2	0.25
T6-2 Rock		0.28	0.010	8	8	0.07	904	<0.01	<10	0.10	0.03	0.04	<2	0.17
T6-3 Rock		0.04	0.006	14	9	0.01	178	<0.01	<10	0.13	0.05	0.03	<2	0.05
T6-4 Rock		0.01	0.006	12	8	0.01	95	<0.01	<10	0.13	0.04	0.04	<2	0.09
T6-5 Rock		0.02	0.013	18	6	0.01	165	<0.01	<10	0.17	0.03	0.10	<2	0.06
SDT-09-1 Rock		0.20	0.016	19	4	0.10	102	<0.01	<10	0.24	0.03	0.14	<2	0.09
SDT-09-2 Rock		0.09	0.012	19	5	0.03	21	<0.01	<10	0.17	0.03	0.08	<2	<0.05
SDT-09-3 Rock		<0.01	0.015	24	4	0.02	34	<0.01	<10	0.21	0.02	0.13	<2	0.05
SDT-09-4 Rock		<0.01	0.086	10	2	0.01	34	<0.01	<10	0.33	<0.01	0.13	<2	<0.05
SDT-09-5 Rock		0.01	0.014	16	8	<0.01	16	<0.01	<10	0.13	0.05	0.03	<2	0.09
SDT-09-6 Rock		6.68	0.011	8	4	2.27	19	<0.01	<10	0.11	0.02	0.07	<2	<0.05
SDT-09-7 Rock		0.02	0.120	21	23	0.12	44	<0.01	<10	0.41	<0.01	0.16	<2	0.12
SDT-09-8 Rock		0.01	0.029	37	3	0.05	52	<0.01	<10	0.50	<0.01	0.21	<2	<0.05

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.

VAN09004484.1

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**Client:** 

Ruby Red Resources Inc. #212, 1000 - 9th Avenue S.W. Calgary AB T2P 2Y6 Canada

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CERTIFIC	CATE OF A	NALY	′SIS													VA	NOS	004	484	.1	
	Metho Analyt		3A Au	1D Mo	1D Cu	1D РЬ	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D U	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	10
	Uni	t kg	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm							
	MDI	0.01	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	
SDT-09-9	Rock	0.45	38.9	<1	79	136	87	<0.3	12	8	1001	2.10	<2	<8	<2	5	5	<0.5	<3	<3	:
SDT-09-10	Rock	0.64	8.6	<1	21	9	25	<0.3	9	5	710	2.84	<2	<8	<2	8	4	<0.5	<3	5	:
SDT-09-11	Rock	0.39	15.1	<1	7	8	55	<0.3	6	5	711	2.13	2	<8	<2	7	22	<0.5	<3	5	
SDT-09-12	Rock	0.48	586.9	<1	7	5	18	<0.3	9	4	583	2.30	3	<8	<2	5	13	<0.5	<3	<3	
SDT-09-13	Rock	0.58	156.3	3	2	9	11	<0.3	8	6	689	1.58	2	<8	<2	3	26	<0.5	<3	5	<
SDT-09-14	Rock	0.47	19.4	<1	3	<3	14	<0.3	5	3	843	1.32	2	<8	<2	4	35	<0.5	<3	4	1
SDT-09-15	Rock	0.41	103.0	2	11	11	20	<0.3	19	33	653	2.32	9	<8	<2	7	12	<0.5	<3	5	2
SDT-09-16	Rock	0.92	67.0	<1	2	<3	13	<0.3	5	3	155	0.99	<2	<8	<2	7	4	<0.5	<3	<3	
SDT-09-17	Rock	0,61	238.2	1	3	<3	13	<0.3	5	4	412	1.68	6	<8	<2	5	3	<0.5	<3	<3	<'
SDT-09-18	Rock	0.68	39.3	2	2	<3	9	<0.3	3	1	495	0.94	<2	<8	<2	<2	2	<0.5	<3	<3	<'
SDT-09-19	Rock	0.42	14.4	5	14	7	82	<0.3	17	8	3116	6.90	3	<8	<2	8	4	<0.5	<3	3	:
SDT-09-20	Rock	0.60	110.7	1	6	<3	34	<0.3	9	4	1223	3.47	3	<8	<2	6	3	<0.5	<3	4	
SDT-09-21	Rock	0.49	8.9	2	31	<3	62	<0.3	66	51	1696	15.45	5	<8	<2	2	44	<0.5	<3	<3	2
SDT-09-22	Rock	0.54	251.6	1	11	10	24	<0.3	11	7	470	2.12	5	<8	<2	6	4	<0.5	<3	<3	:
SDT-09-23	Rock	0.39	13.5	5	9	8	40	<0.3	5	4	1346	2.18	3	<8	<2	2	3	<0.5	<3	<3	:
SDT-09-24	Rock	0.15	9.2	5	13	5	52	<0.3	8	5	1350	4.72	<2	<8	<2	6	6	<0.5	<3	<3	:
SDT-09-25	Rock	0.31	345.5	<1	4	6	35	<0.3	7	6	755	2.07	5	<8	<2	7	4	<0.5	<3	<3	1
SDT-09-26	Rock	0.59	12.6	<1	6	<3	23	<0.3	3	2	322	0.94	<2	<8	<2	11	4	<0.5	<3	<3	1
SDT-09-27	Rock	0.61	2.5	<1	8	<3	14	<0.3	4	3	341	1.50	<2	<8	<2	13	3	<0.5	<3	<3	2
SDT-09-28	Rock	0.44	18.5	4	50	69	66	<0.3	17	7	1633	2.90	3	<8	<2	8	3	<0.5	<3	<3	2
SDT-09-29	Rock	0.47	1.8	1	20	18	20	<0.3	7	5	648	3.03	2	<8	<2	6	3	<0.5	<3	4	-
SDT-09-30	Rock	0.45	202.6	1	3	3	16	<0.3	5	3	465	1.13	2	<8	<2	7	13	<0.5	<3	<3	
SDT-09-31	Rock	0.57	268.1	<1	6	5	20	<0.3	15	12	736	2.42	10	<8	<2	8	5	<0.5	<3	<3	<'
SDT-09-32	Rock	0.49	399.7	<1	3	<3	11	<0.3	8	4	38	1.17	3	<8	<2	5	4	<0.5	<3	<3	1

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## CERTIFICATE OF ANALYSIS

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Ca	P	La	Cr	Mg	Ba	Ti	8	AI	Na	κ	w	S
	Unit	*	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
	MDL	0.01	0.001	1	1	0.01	1	0.01	10	0.01	0.01	0.01	2	0.05
SDT-09-9 Rock		0.02	0.013	13	6	0.01	19	<0.01	<10	0.16	0.06	0.03	<2	0.49
SDT-09-10 Rock		0.02	0.014	21	6	0.04	42	<0.01	<10	0.23	0.02	0.15	<2	<0.05
SDT-09-11 Rock		0.28	0.012	20	5	0.08	18	<0.01	<10	0.16	0.04	0.06	<2	<0.05
SDT-09-12 Rock		0.13	0.012	12	8	0.03	37	<0.01	<10	0.11	0.05	0.04	<2	1.00
SDT-09-13 Rock		0.28	0.015	11	9	0.07	13	<0.01	<10	0.08	0.05	0.02	<2	0.42
SDT-09-14 Rock		0.73	0.009	12	11	0.22	21	<0.01	<10	0.12	0.04	0.04	<2	0.11
SDT-09-15 Rock		0.02	0.009	16	8	0,02	363	<0.01	<10	0.16	0.03	0.09	<2	0.37
SDT-09-16 Rock		0.01	0.011	22	10	0.01	133	<0.01	<10	0.17	0.05	0.06	<2	<0.05
SDT-09-17 Rock		<0.01	0,008	11	12	<0.01	104	<0.01	<10	0.11	0.04	0.02	<2	0.05
SDT-09-18 Rock		<0.01	0.002	1	14	<0.01	95	<0.01	<10	0.03	<0.01	<0.01	<2	<0.05
SDT-09-19 Rock		0.02	0.053	31	5	0.06	157	<0.01	<10	0.38	<0.01	0.11	<2	<0.05
SDT-09-20 Rock		<0.01	0.022	23	4	0.03	106	<0.01	<10	0.29	0.02	0.13	<2	<0.05
SDT-09-21 Rock		0.62	0.367	22	19	0.20	52	<0.01	<10	0.53	<0.01	0.22	<2	<0.05
SDT-09-22 Rock		0.02	0.019	20	7	0.01	58	<0.01	<10	0.20	0.04	0.08	<2	<0.05
SDT-09-23 Rock		<0.01	0.017	5	9	0.01	67	<0.01	<10	0.12	<0.01	0.03	<2	<0.05
SDT-09-24 Rock		<0.01	0.029	16	8	0.04	75	<0.01	<10	0.27	0.02	0.09	<2	<0.05
SDT-09-25 Rock		<0.01	0.012	19	8	0.01	26	<0.01	<10	0.14	0.04	0.02	<2	<0.05
SDT-09-26 Rock		0.01	0.015	31	10	0.01	35	<0.01	<10	0.16	0.04	0.05	<2	<0.05
SDT-09-27 Rock		<0.01	0.012	27	6	0.02	32	<0.01	<10	0.16	0.02	0.09	<2	<0.05
SDT-09-28 Rock		<0.01	0.022	21	6	0.01	52	<0.01	<10	0.21	0.04	0.02	<2	0.06
SDT-09-29 Rock		0.01	0.022	23	3	0.04	50	<0.01	<10	0.23	0.02	0.12	<2	<0.05
SDT-09-30 Rock		<0.01	0.011	20	5	<0.01	909	<0.01	<10	0.15	0.03	0.05	<2	<0.05
SDT-09-31 Rock		0.01	0.012	18	6	0.01	141	<0.01	<10	0.17	0.04	0.03	<2	0.23
SDT-09-32 Rock		0.01	0.012	14	7	<0.01	27	<0.01	<10	0.10	0.03	0.03	<2	0.19

