

**BC Geological Survey
Assessment Report
34643**

TECHNICAL REPORT

RED SPRING PROPERTY

BEAR LAKE AREA

OMINECA MINING DIVISION, BRITISH COLUMBIA, CANADA

NTS Map 094D/025

56° 15' North, 127° 10' West

UTM ZONE 9 (NAD 83)

612719 East, 6234650N

**Mineral Tenures: Sping (945229), F2 (945270), Eastern Promise (949349), Red Spring (950583), Pie (950135),
Eastern Promise 2 (949350), Red Spring SE (1021327)**

Report prepared by: Erik Ostensoe, P. Geo.

Report prepared for: Farshad Shirvani and Doubleview Capital Corp.

Date of report: February 17, 2014.

Report submitted in fulfillment of SOW – Events No. 5466195 and 5466819.

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1.0 SUMMARY

The Red Spring property mineral tenures, as listed in Table 1 and illustrated in Figures 1 and 2, are located 10 km north of Motase Peak in the Skeena Mountains of northcentral British Columbia, Canada. The property comprises seven mineral tenures with total area 1348.68 hectares. Access to the tenures is by helicopter from Bear Lake, 37 km southeast, (seasonal) or from Smithers, 160 km south.

A program of geological reconnaissance and geochemical soil sampling was conducted on behalf of Doubleview Capital Corp., the optionor of the property, as part of a familiarization/orientation of the area and to obtain independent data in advance of more extensive fieldwork. Prospectors could access the Skeena Mountains with difficulty prior to the advent of helicopter services but in recent decades the area has been prospected and explored by major and junior companies and by individual prospectors in search of precious metal and porphyry-style calc-alkalic copper-molybdenum and alkalic copper-gold deposits. The Red Spring property, aka “Spring”, has been identified as a possible “redbed” type copper-silver-gold deposit and has been explored by exploration companies that conducted technical surveys, including induced polarization geophysical and soil geochemical surveys, and diamond drilling.

The analytical data obtained from a limited program of reconnaissance and rock and soil geochemical sampling is presented in this report. Although consistently elevated zinc values were found in both rock and soil samples, copper, silver and gold values, with some notable exceptions, were low. Cobalt values in rock samples appear to be weakly anomalous relative to regional (RGS) data for that element.

2.0 INTRODUCTION

The Red Spring mineral tenures that are the subject of this report are listed in Table 1 and illustrated in Figures 1 and 2 of this report. Statements of Work, Events No. 5466195 and 5466819, dated September 5, and September 10, 2013, respectively, applied \$13000 work and \$5507.19 PAC to extend the expiry dates of the tenures to a common date January 31, 2016. This report presents details of a program of geological reconnaissance and soil and rock geochemical sampling that was directed to part of the Red Spring property. The purpose of the study was to obtain first-hand information concerning the physical and geological setting of the property and to acquire geochemical data that can be added to the existing database and used in preparing background and guidance for planned future field programs. Total area is 1348.68 hectares in 7 tenures.

The Red Spring property, located northeast of the valley of Squingula River, 10 km north of Motase Peak and 120 km north of Smithers in north-central British Columbia, is in the Intermontane physiographic division of the Canadian Cordillera (Bostock, 1947). Nearest seasonal habitations are at Bear Lake, 37 km southeast, and Suskeena Fishing Lodge, 8 km north. Access to the tenures is by helicopter but an historic tractor road, constructed in 1973 and now heavily overgrown, probably could be re-established if warranted by mineral exploration. Of possible longer term interest, CN Rail's branch line from Ft. St. James passes northwesterly from Bear Lake to Sustut River.

The Red Spring area has a relatively short history of mineral exploration: copper mineralization was discovered in 1972 by personnel of Canadian Superior Exploration Ltd. That company's follow-up work included technical surveys (geological, geochemical and geophysical) and nine diamond drill holes with total length 2772 feet. City Services Mineral Corp. in 1976 drilled three holes with total length 1,156 feet. Parts of the property have been held since 1983 by G. Ryznar. Windflower Mining Ltd. and Appleton Exploration Inc. have at times optioned the property. Inco Technical Services and Bacon, Donaldson & Associates Ltd., respectively, have provided petrographic and metallurgical test work, details of which are included in ARIS reports.

The Red Spring mineral tenures (Table 1) were located in 2012 by DeCoors Mining Corp. and subsequently transferred to Farshad Shirvani, the current owner. Work described in this report was financed by Doubleview Capital Corp., a junior mineral exploration company that has optioned the Red Spring property.

3.0 RED SPRING TENURES

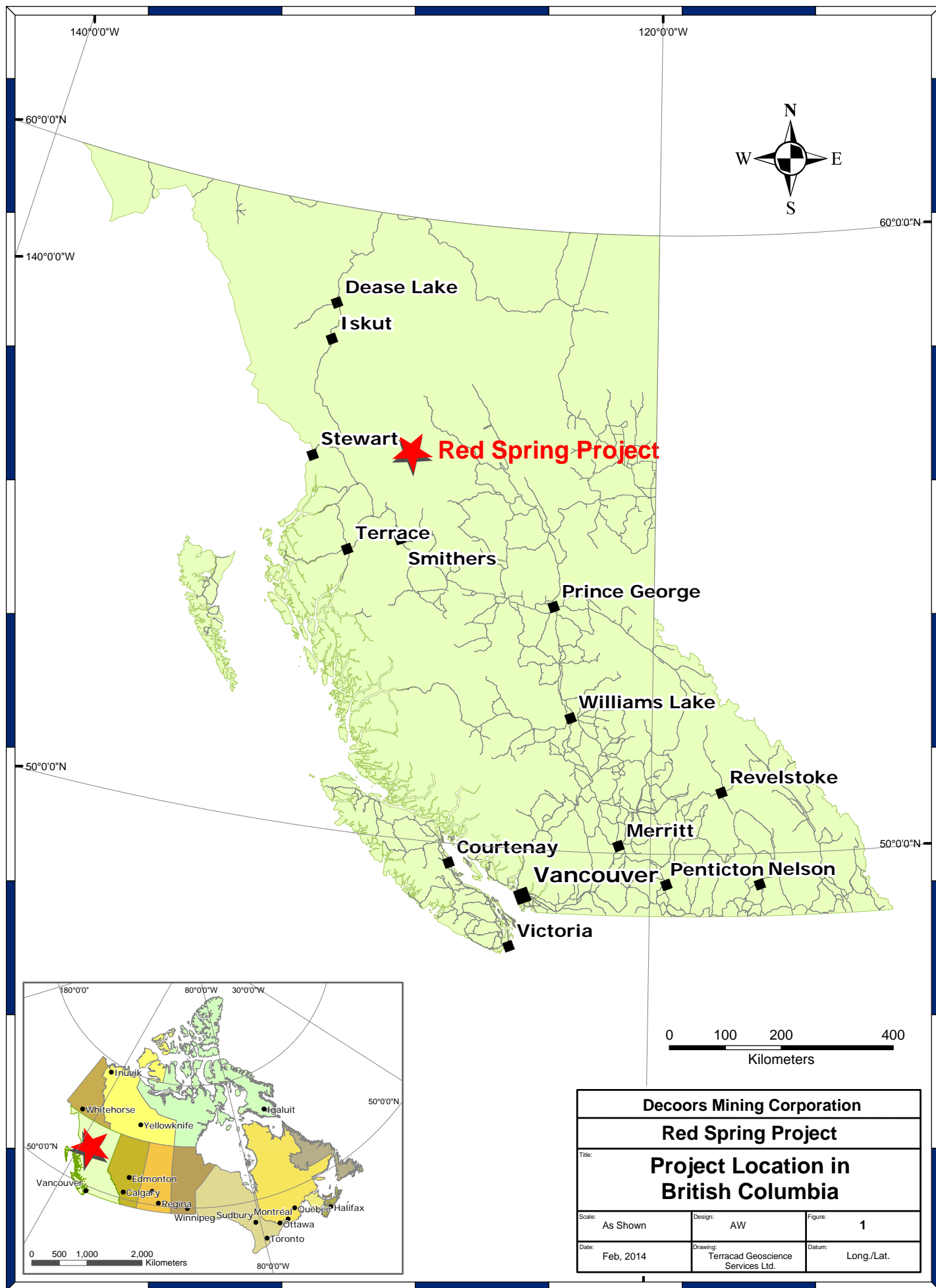
The seven mineral tenures that comprise the Red Spring property are listed in Table 1 and illustrated in Figure 2. Total area is 1348.68 hectares.

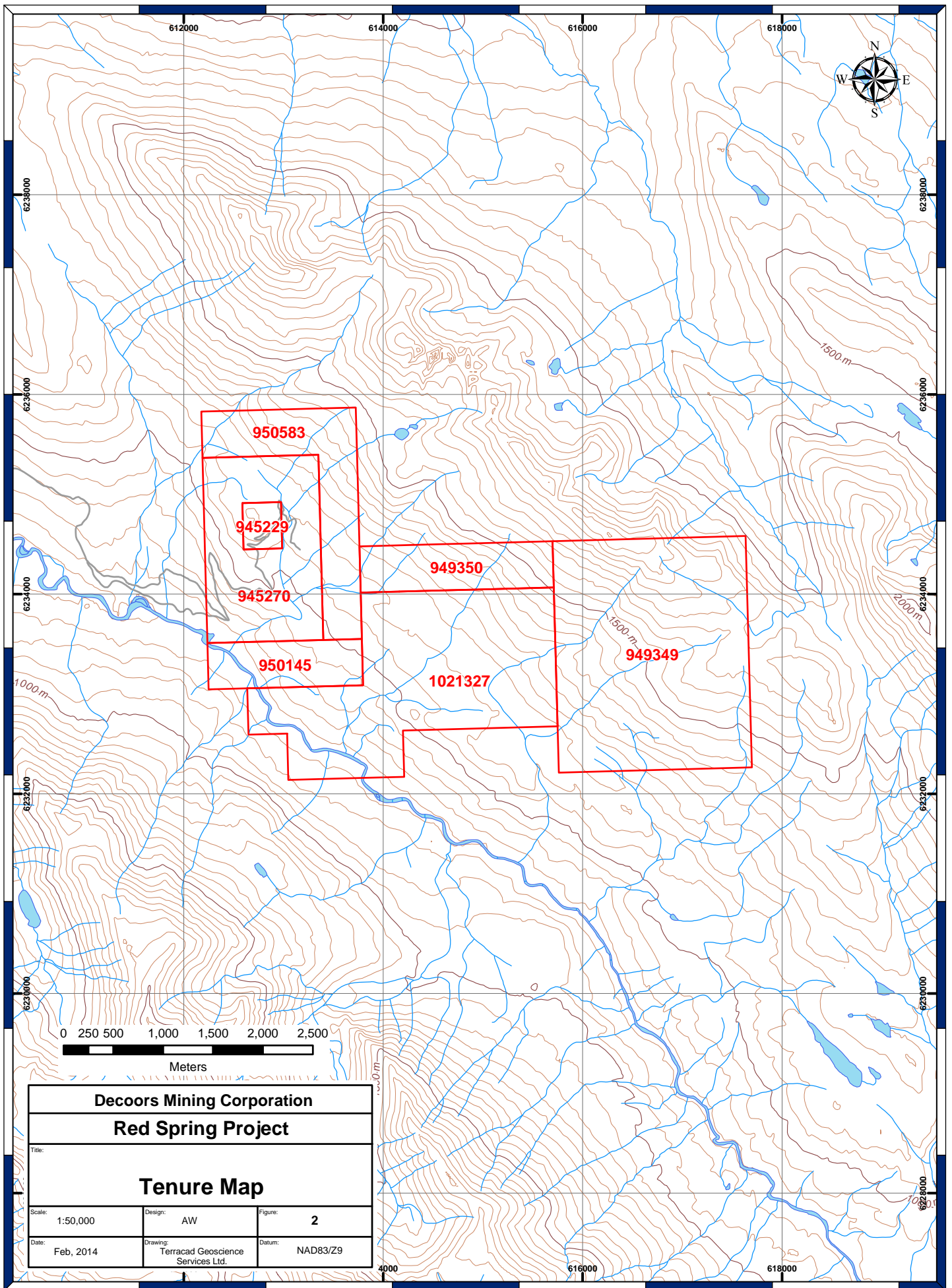
ARIS reports, as listed in the References section of this report, present technical data from various surveys, including historic geochemical soil surveys and geophysical surveys, and diamond drill holes. The purpose of those surveys was to determine if a signature, either chemical, magnetic or electrical, similar to that defining the mineralization found in outcrops and traced by drill holes, could be recognized and applied in the search for extensions of the known mineral zone. Minfile entries suggest that the property may qualify as a “Redbed”-type copper-gold deposit. 2013 field work provided additional technical (geochemical) information as well as, with future work in mind, an opportunity to gain information concerning the current ground and access conditions.

The Red Spring mineral tenures are forested with mixed growth of evergreen (spruce, hemlock, grand fir) and deciduous (poplar, birch) trees and a lush undergrowth of bushes, including huckleberry, soapalalie and groundbirch. Forest cover thins progressively as elevation is gained. Soils are largely modified glacial till and comprise rather normal, mature podsoles with weakly defined soil horizons.

TABLE 1. Red Spring Mineral Tenures

Tenure No.	Name	Owner	Issue Date	Good to Date	Area (hectares)
945229	Sping	F. Shirvani	2012/feb/01	2016/jan/31	17.98
945270	F2	F. Shirvani	2012/feb/01	2016/jan/31	197.77
949349	Eastern Promise	F. Shirvani	2012/feb/14	2016/jan/31	449.60
949350	Eastern Promise 2	F. Shirvani	2012/feb/14	2016/jan/31	89.90
950145	Pie	F. Shirvani	2012/feb/16	2016/jan/31	71.94
950583	Red Spring	F. Shirvani	2012/feb/18	2016/jan/31	143.81
1021327	Red Spring SE	F. Shirvani	2013/aug/01	2016/jan/31	377.68
				Total:	1348.68





Decoors Mining Corporation

Red Spring Project

Title:

Tenure Map

Scale:

1:50,000

Design:

AW

Figure:

2

Date:

Feb, 2014

Drawing:

Terracad Geoscience
Services Ltd.

Datum:

NAD83/Z9

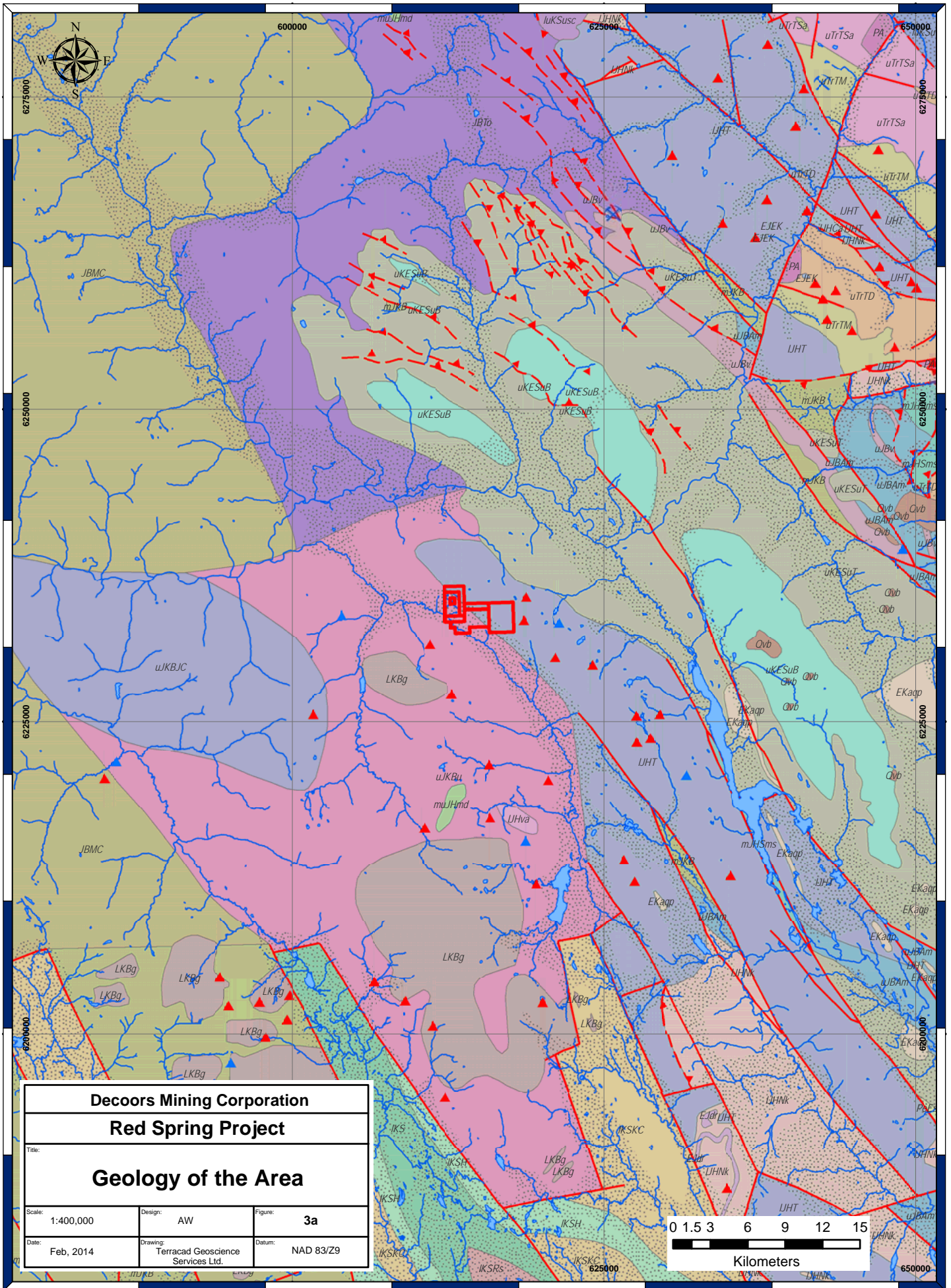
4.0 HISTORIC GEOLOGY AND GEOCHEMISTRY

The Red Spring property area was included in 1973 in Geological Survey of Canada regional geological mapping at scale 1:250,000 (Eisbacher, 1973), updated in 2007 (Evanchick, et al, 2007). A sequence of east-west trending, southerly dipping Lower and Middle Jurassic age Hazelton Group mafic volcanic rocks with felsic volcanic members, arenites, shales and limestone is present north of Squingula River. Bowser Lake Group clastic rocks were mapped south of the river (Figures 3a, 3b).

Canadian Superior Ltd., in 1973 - 1975, following the discovery in 1972 of copper mineralization by prospectors, completed induced polarization geophysical surveys, geochemical soil surveys, geological mapping (dePaoli, 1975) and nine diamond drill holes. A resource of 4.5 M tonnes grading 0.5% copper and 11.9 g/tonne silver was outlined. City Services Mineral Corp. in 1976 drilled an additional three holes: data from that work may not have been reported.






As recorded in ARIS report #29622, in 2007 much of the area presently covered by the Red Spring mineral tenures was explored by a geological and geochemical survey (Butrenchuk, 2007). Work included 321 soil samples and 19 rock samples, and reconnaissance mapping at a scale of 1:10,000. The report includes detailed descriptions of the intercalated andesite and basalt flows and pyroclastic units. The latter are largely mafic crystal, lapilli and dacitic tuffs. Easterly trending subaerial and marine mafic volcanic rocks are described and illustrated in photographs and two stages of faulting and shearing that influence the distribution of the mineralized limestone unit are postulated. In addition to the previously explored copper mineralization, the geochemical work identified "...a strong coincident 750 metre long lead-zinc-silver-mercury and cadmium anomaly south of the main mineralized zone" (Butrenchuk, 2007, p. 4). Recommendations at that time included a detailed geochemical survey of known mineralization and of the 2007 geochemical anomaly.


Terracad Geoscience Services Ltd. in 2012 completed a satellite imagery based photogrammetric study and structural analysis of the Red Spring area that identified strong patterns with orientation northwesterly (110° to 150°) and northeasterly (020° to 050°) but failed to provide useful data concerning the area of historic exploration by geophysical and geochemical soil surveys and diamond drilling (Ostensoe and Shirvani, 2013).



Legend






Geological Units

	EBdr - Cenozoic - Babine Plutonic Suite dioritic intrusive rocks
	EBfp - Cenozoic - Babine Plutonic Suite feldspar porphyritic intrusive rocks
	EBgd - Cenozoic - Babine Plutonic Suite granodioritic intrusive rocks
	EJEK - Mesozoic - Eskay Porphyry, Knipple Porphyry or Inel Stock feldspar porphyritic intrusive rocks
	EJMLM - Mesozoic - Melville and Lehto Plutons, Mitchell Intrusions, Red Bluff Porphyry Stock monzodioritic to gabbroic intrusive rocks
	EJdg - Mesozoic - Unnamed monzodioritic to gabbroic intrusive rocks
	EJdr - Mesozoic - Unnamed dioritic intrusive rocks
	EJqd - Mesozoic - Unnamed quartz dioritic intrusive rocks
	EKMdr - Mesozoic - McCauley Island Plutonic Suite dioritic intrusive rocks
	EKaqp - Cenozoic - Kastberg Plutonic Suite high level quartz phytic, felsitic intrusive rocks
	EONvb - Cenozoic - Nechako Plateau Group - Newman Formation - Porphyritic Flows Member basaltic volcanic rocks
	ETqd - Cenozoic - Unnamed quartz dioritic intrusive rocks
	JBMC - Mesozoic - Bowser Lake Group - Muskaboo Creek Assemblage sandstone, siltstone, conglomerate
	JBRA - Mesozoic - Bowser Lake Group - Ritchie-Alger Assemblage sandstone, siltstone, rare conglomerate
	JBTo - Mesozoic - Bowser Lake Group - Todagin Assemblage laminated siltstone and fine-grained sandstone, chert pebble conglomerate
	LKBg - Mesozoic - Bulkley Plutonic Suite intrusive rocks, undivided
	LTrgb - Mesozoic - Unnamed gabbroic to dioritic intrusive rocks
	LTrum - Mesozoic - Unnamed ultramafic rocks
	MKAqb - Mesozoic - Axelgold Intrusion gabbroic to dioritic intrusive rocks
	MKqd - Mesozoic - Unnamed quartz dioritic intrusive rocks
	PA - Paleozoic - Asitka Group bimodal volcanic rocks
	PeEs - Cenozoic - Unnamed undivided sedimentary rocks
	Ovb - Cenozoic - Unnamed basaltic volcanic rocks
	UHAM - Mesozoic - Hazelton Group - Ankwil Member basaltic volcanic rocks
	UHCa - Mesozoic - Hazelton Group - Carruthers Member basaltic volcanic rocks
	UHNk - Mesozoic - Hazelton Group - Nilkitkwa Formation undivided sedimentary rocks
	UHT - Mesozoic - Hazelton Group - Telkwa Formation calc-alkaline volcanic rocks
	UHva - Mesozoic - Hazelton Group andesitic volcanic rocks
	IKS - Mesozoic - Skeena Group undivided sedimentary rocks
	IKSH - Mesozoic - Skeena Group - Hanawald Conglomerate conglomerate, coarse clastic sedimentary rocks
	IKSKC - Mesozoic - Skeena Group - Kitsuns Creek Formation coarse clastic sedimentary rocks
	IKSKC - Mesozoic - Skeena Group - Kitsuns Creek Formation undivided sedimentary rocks
	IKSRs - Mesozoic - Skeena Group - Red Rose Formation coarse clastic sedimentary rocks
	IKSRs - Mesozoic - Skeena Group - Red Rose Formation undivided sedimentary rocks
	IKSRv - Mesozoic - Skeena Group - Rocky Ridge Formation alkaline volcanic rocks
	ImJHSHvb - Mesozoic - Hazelton Group - Saddle Hill Formation - Mafic Submarine Volcanic Member basaltic volcanic rocks
	IuKSu - Mesozoic - Sustut Group undivided sedimentary rocks
	IuKSusc - Mesozoic - Sustut Group coarse clastic sedimentary rocks
	mJHSms - Mesozoic - Hazelton Group - Smithers Formation undivided sedimentary rocks
	mJKB - Mesozoic - Bowser Lake Group undivided sedimentary rocks
	mJHmd - Mesozoic - Hazelton Group mudstone/laminite fine clastic sedimentary rocks
	uJBAm - Mesozoic - Bowser Lake Group - Ashman Formation mudstone, siltstone, shale fine clastic sedimentary rocks
	uJBT - Mesozoic - Bowser Lake Group - Trout Creek Formation conglomerate, coarse clastic sedimentary rocks
	uJBT - Mesozoic - Bowser Lake Group - Trout Creek Formation undivided sedimentary rocks
	uJBv - Mesozoic - Bowser Lake Group undivided volcanic rocks
	uKBGG - Mesozoic - Bowser Lake Group - Groundhog-Gunaoon Assemblage sandstone, siltstone, carbonaceous and calcareous mudstone, minor conglomerate
	uKBJC - Mesozoic - Bowser Lake Group - Jenkins Creek Assemblage mudstone, siltstone, fine-medium grained sandstone; minor conglomerate, coal
	uKBS - Mesozoic - Bowser Lake Group - Skelhorn Assemblage intermixed and varicoloured siltstone, sandstone and conglomerate, minor coal
	uKBu - Mesozoic - Bowser Lake Group - Undivided undivided sedimentary rocks
	uKESuB - Mesozoic to Cenozoic - Sustut Group - Brothers Peak Formation undivided sedimentary rocks
	uKESuT - Mesozoic to Cenozoic - Sustut Group - Tango Creek Formation undivided sedimentary rocks
	uTrTD - Mesozoic - Takla Group - Dewar Formation coarse clastic sedimentary rocks
	uTrTM - Mesozoic - Takla Group - Moosevale Formation conglomerate, coarse clastic sedimentary rocks
	uTrTSa - Mesozoic - Takla Group - Savage Mountain Formation basaltic volcanic rocks
	uTrTsf - Mesozoic - Takla Group mudstone, siltstone, shale fine clastic sedimentary rocks
	uTrTv - Mesozoic - Takla Group undivided volcanic rocks




 Quarternary Unit

 Claim Boundary

BC Minfile

-  Anomaly
-  Developed Prospect
-  Past Producer
-  Producer
-  Prospect
-  Showing

Fault Type

-  Fault
-  Normal Fault
-  Thrust

Decoors Mining Corporation

Red Spring Project

Title: **Geology of the Area
Legend**

Scale:	Design: AW	Figure: 3b
Date: Feb, 2014	Drawing: Terracord Geoscience Services Ltd.	Datum:

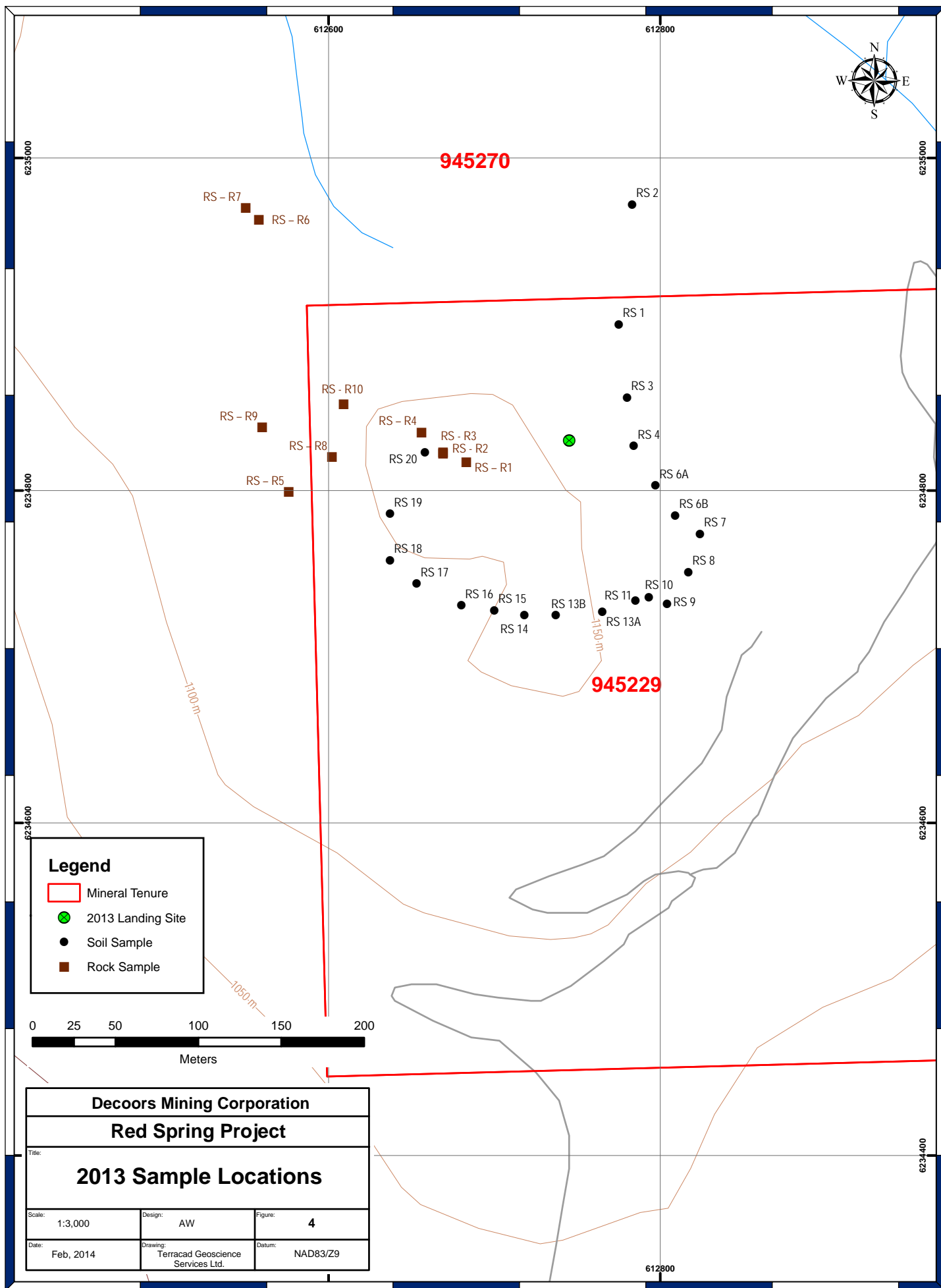
5.0 2013 PROGRAM OF WORK

A three person field crew in early September, 2013, accessed by helicopter the Red Spring property from Smithers, B. C., the closest town that provides services required by mineral explorers. Aerial reconnaissance revealed generally thick forest and brush conditions, with few suitable helicopter landing sites, and only glimpses of an access road built in the 1970s and now heavily overgrown. That road approached the property from the northwest, along the northeast side of the Squingula River valley, and followed a rising course along the south side of the Red Spring ridge. The locations of historic campsites and drill sites could not be determined precisely but presumably were situated near the southeast part of the ridge. As illustrated in a drawing that accompanies this report (Figures 4), two traverses were undertaken for the purpose of obtaining twenty soil and ten rock geochemical samples.

Rock outcrops, although usually small, are relatively abundant. Samples were taken from andesitic volcanoclastic formations that are characterized by reddish colours and uniform granularity: grain sizes are 1 to 1.5 mm. No dolomitic rocks were recognized in the traversed area but were found by soil samplers working a short distance to the east. Rock samples, comprising from 200 to 300 grams of fragments from small, randomly distributed, outcrops, were placed in Ziplock-type plastic bags that were labeled in sequence from RS-R1 to RS-R10. Locations were recorded as waypoints by handheld GPS and brief notes were recorded (see Appendix 1).

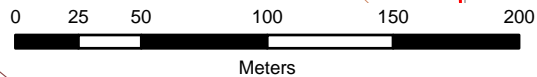
Soils at Red Spring are typical podsoles developed from glacial till materials. Soil depths varied from almost nil to about 30 cms and sample depths, where possible, from 10 to 20 cms. The soil sampling traverse passed southeasterly along the Red Spring ridge from soils that overlie volcanic rocks thence onto a grey-blue coloured weakly layered carbonate formation (elsewhere described as dolomitic) that is assumed to be the host of the historic zone of copper mineralization. Although no copper sulphide minerals were visible, small brightly coloured areas of malachite alteration were recognized. Soils were placed in stout zip-lock type bags, labeled with identifying markings then, for added security, double-bagged. Samples were numbered RS-1 to RS-20 and the locations were recorded as waypoints by handheld GPS. Two irregularities occurred in the numbering sequence: numbers RS-5 and RS-12 were omitted and RS-6 and RS-13 were duplicated and subsequently designated RS-6A and RS-6B and RS-13A and 13B, respectively.

All samples were delivered to the Acme Analytical prep lab. in Smithers for processing followed by analysis in that Company's principal laboratory located in Vancouver, B. C. Acme prep codes: soils – SS80, rocks – R200 – 250; analysis codes: 1DX3 (aqua regia digestion). Certificate of Analysis SMI13000275.1 includes data for soil samples; Certificate of Analysis SMI13000274.1 includes data for rock chip samples: both certificates are attached to this report as Appendix 2.



Legend

- Mineral Tenure
- 2013 Landing Site
- Soil Sample
- Rock Sample

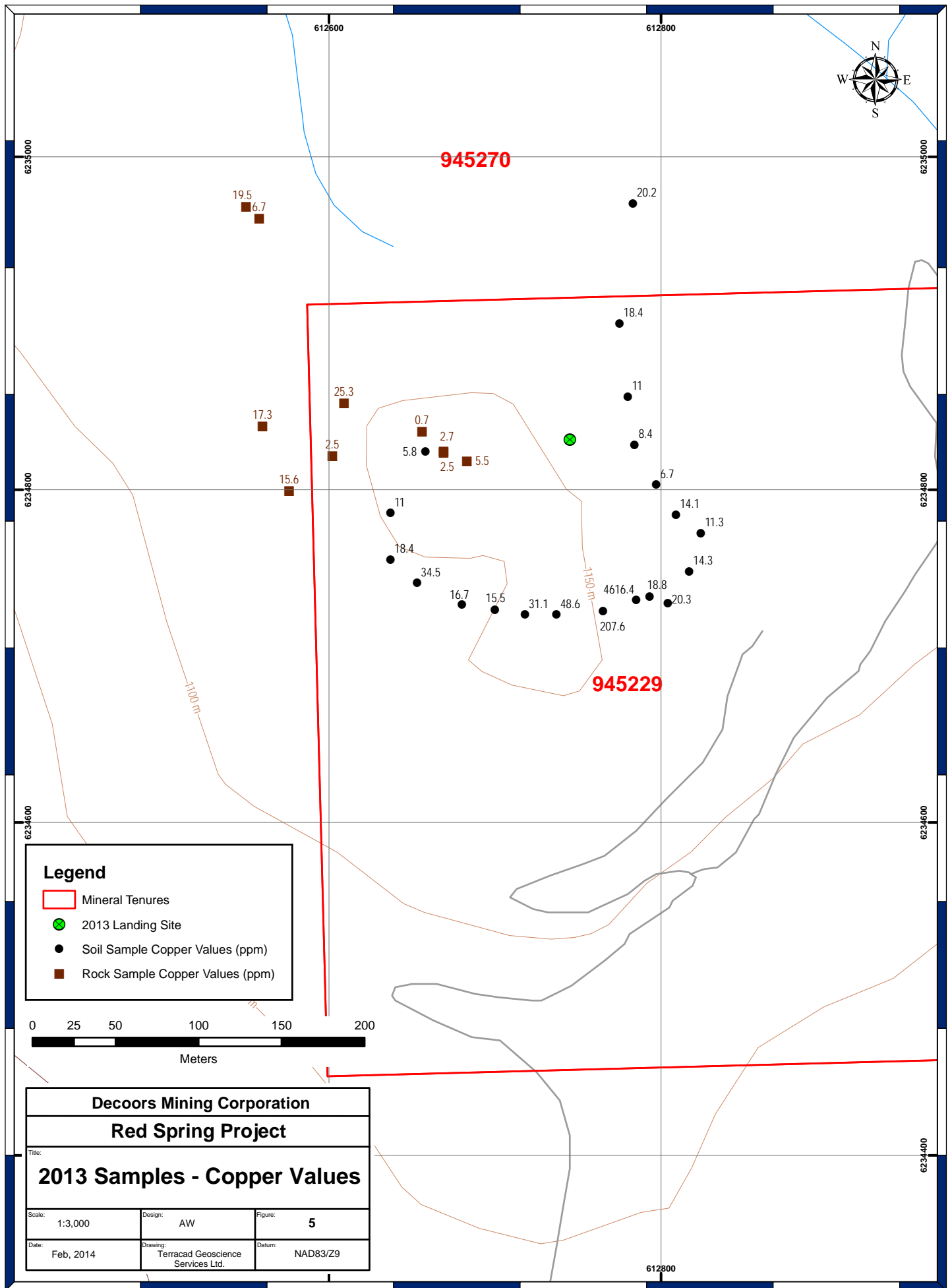


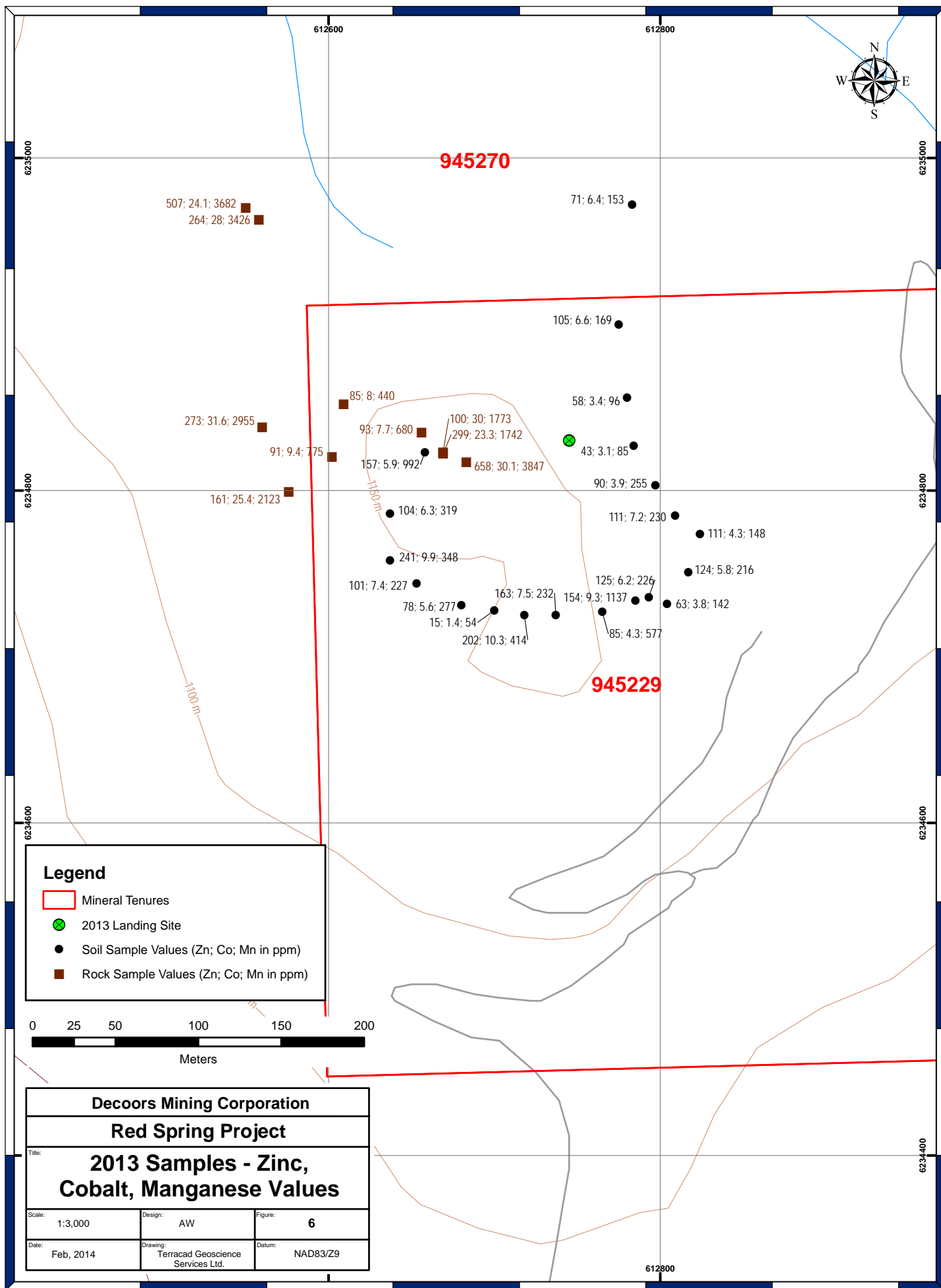
Decoors Mining Corporation

Red Spring Project

2013 Sample Locations

Scale: 1:3,000	Design: AW	Figure: 4
Date: Feb, 2014	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD83/Z9





6.0 DISCUSSION OF ANALYTICAL DATA

Figure 5 illustrates copper analyses obtained from Red Spring soil and rock samples.

Soil samples, RS – 1 to RS – 20 inclusive, returned copper values from 5.8 ppm to 4616 ppm, gold values from <0.5 ppb to 8.6 ppb, silver values from <0.1 ppm to 1.2 ppm. Other elements appear to be present in small to very small amounts, about as abundant as background values obtained from soils throughout the Upper Skeena and Babine areas.

Rock samples, RS – R1 to RS – R10 inclusive, returned elevated zinc, cobalt and manganese values but only background level copper values. Silver and gold values are uniformly at or below the detection limit.

The 2013 program of reconnaissance, rock and soil sampling was very limited in scope and likely failed to cover any part of the previously identified area of copper-silver-gold mineralization.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of the field examination and sampling of the Red Spring property was primarily to gain first hand familiarity with the terrain as a basis for planning future exploration, and secondarily to obtain samples of soils and rocks that upon analysis may substantiate historic data presented in several ARIS reports.

The Red Spring property is reported, on the basis of 12 diamond drill holes, to have an historic resource (non-NI 43-101 compliant) of about 500,000 lbs of copper. Small amounts of silver and gold are also present. Only very preliminary metallurgical work has been directed to materials from the property. An “interesting” multi-element geochemical anomaly, recognized in 2007 and reported in ARIS No. 29622 to lie south of the area of historic drilling, has not been verified by any follow-up work.

The work that is the subject of this report was insufficient to enable a strong opinion concerning the merits of the property. Nonetheless, available data can be interpreted as substantiating the “Red Bed” deposit model and further work to better outline the mineral zone and possible extensions and to verify the untested geochemically anomalous area is recommended. A literature search to obtain comprehensive information concerning the nature and geochemistry of “red bed” type copper deposits prior to resumption of property work is strongly recommended.

Some or all of the drill cores from historic programs of work are reported to be stored on the property and, although the condition of the boxes is unknown, efforts should be made to locate and re-examine those cores.

8.0 REFERENCES

The following sources of information were consulted in preparation of the accompanying report:

ARIS – databank of technical reports filed with the Ministry of Energy and Mines, accessed from the Ministry website.

Baker, J., (1976), Diamond Drilling Report on the Red Property, ARIS #5946

Bostock, H. S., 1947, Physiography of the Canadian Cordillera, Geol. Surv. Canada, Memoir 247.

Butrenchuk, Stephen B., 2007, Geological and Geochemical Report on the Sping Property, report for Appleton Exploration Inc., ARIS # 29622

DePaoli, G. M., (1975), Geophysical Report on the Red Group, ARIS #5552

Drummond, A. D., (1985), Geological and Geochemical Report on the Gold Mineral Claims, Omineca Mining Division, British Columbia, ARIS #14073

Eisbacher, G. H., 1973, Sustut Basin, North-Central British Columbia, Geol. Surv. Canada, Map 14-1973

Ostensoe, E. A. and Shirvani, F., 2013, Photogrammetric Structural Analysis, Red Spring Property, Omineca Mining Division, British Columbia, Canada, ARIS report submitted to Mineral Titles Branch

Ryznar, G., (1986), Petrological Study Sping Claim, ARIS #15861

(1990), Metallurgical Testwork Sping Claim, ARIS #20364

(1994), Geological Report, Sping Property, Omineca Mining Division, ARIS #23227

9.0 AUTHOR'S QUALIFICATIONS

Erik A. Ostensoe, P. Geo., author of the accompanying technical report, is a consulting geologist with office and residence in Vancouver, B. C., Canada. He has practiced in the area of mineral exploration in western and northern Canada and elsewhere for more than forty years and is thoroughly familiar with the geological characteristics of mineral occurrences similar to those being explored in the Red Spring area and with the regional geology of the upper Skeena River valley.

Field assistance was provided by Peter "Shorts" Burjoski, prospector and placer miner, and Kokou Wilson, an experienced bushworker.

10.0 STATEMENT OF EXPENDITURES

The following costs were incurred in completing the technical work described in the accompanying text:

Airfare: Vancouver – Smithers (shared cost) -	\$ 401.24
Helicopter - (as invoiced) – 2.2 hrs @ \$1800/hr + fuel -	\$4825.99
Accommodation and meals – 3 persons -	\$ 397.82
Field Labour costs: Erik Ostensoe – Sept. 4, 7, 2013 - two days @ \$600/day	\$1260.00
Peter Burjoski – Sept. 4, 7, 2013 - two days @ \$480/day	\$1008.00
Kokou Wilson – Sept. 4, 7, 2013 - two days @ \$480/day	\$1008.00

Analytical costs: Acme Analytical -	\$ 867.18
Report and illustrations preparation:	
Erik Ostensoe – Sept. 11, 12 (1/2) , 24 (1/2), two days @ \$600/day	\$1260.00
Terracad Geoscience Services Ltd. (as invoiced)	\$2000.00
TOTAL:	\$13,028.23

APPENDIX 1. SAMPLE LOCATIONS

RED SPRING PROPERTY – 2013 SITE VISIT – September 7, 2013

UTM Locations – by GPS - Zone 9 Landing Site (swamp): 612745E 6234830N

(1) Peter “Shorts” Burjoski soil samples -

Sample ID	Easting	Northing
RS 1	612775E	6234900N
RS 2	612783E	6234972N
RS 3	612780E	6234856N
RS 4	612784E	6234827N
RS 6A	612797E	6234803N
RS 6B	612809E	6234785N
RS 7	612824E	6234774N
RS 8	612817E	6234751N
RS 9	612804E	6234732N
RS 10	612793E	6234736N
RS 11	612785E	6234734N
RS 13A	612765E	6234727N
RS 13B	612737E	6234725N
RS 14	612718E	6234725N
RS 15	612700E	6234728N
RS 16	612680E	6234731N
RS 17	612653E	6234744N
RS 18	612637E	6234758N
RS 19	612637E	6234786N
RS 20	612658E	6234823N

(2) Rock Samples – Erik Ostensoe

Sample ID	Easting	Northing	Elevation	Description
RS – R1	612683E	6234817N	1165m	reddish volcanic sandstone
RS - R2	612669E	6234822N	1166m	reddish volcanic sandstone
RS - R3	612669E	6234823N	1166m	reddish volcanic sandstone
RS – R4	612656E	6234835N	1165m	shaley texture, greenish beds or layers
RS – R5	612576E	6234799N	1147m	similar to RS – R4
RS – R6	612558E	6234963N	1138m	outcrop 10m X 1m
RS – R7	6125**E	62349**N	1138m	large outcrop of mixed volcanic, includes olivine (?) basalt – <i>exact location not recorded</i>
RS – R8	612602E	6234820N	1138m	reddish weathering, v. fine grained, rhyolitic
RS – R9	612560E	6234838N	1144m	basalt(?) – similar to RS – R7
RS - 10	612609E	6234852N	1150m	same as RS – R8

APPENDIX 2

ANALYTICAL DATA

CERTIFICATES OF ANALYSIS – SMI13000274.1. SMI13000275.1

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Terracad Geoscience**
310 - 675 W. Hastings St.
Vancouver BC V6B 1N2 CANADA

Submitted By: Farshad Shirvani
Receiving Lab: Canada-Smithers
Received: September 09, 2013
Report Date: September 24, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000274.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 14

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	14	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX3	14	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

SAMPLE DISPOSAL

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

ADDITIONAL COMMENTS

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

Invoice To: Terracad Geoscience
310 - 675 W. Hastings St.
Vancouver BC V6B 1N2
CANADA

CC: Erik Ostensoe



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

CERTIFICATE OF ANALYSIS

SMI13000274.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
RS R01	Rock	0.67	0.2	5.5	59.9	658	<0.1	46.2	30.1	3847	6.70	2.7	<0.5	1.0	18	0.1	0.4	<0.1	196	0.64	0.126
RS R02	Rock	1.08	0.5	2.7	7.9	299	0.2	56.5	23.3	1742	5.25	3.8	1.5	1.9	86	<0.1	0.5	<0.1	132	1.85	0.093
RS R03	Rock	1.01	0.6	2.5	11.4	100	<0.1	62.7	30.0	1773	5.71	2.7	<0.5	1.3	122	<0.1	0.7	<0.1	140	1.72	0.162
RS R04	Rock	1.02	0.2	0.7	4.4	93	<0.1	3.5	7.7	680	4.08	3.6	<0.5	0.8	13	0.2	0.2	<0.1	13	0.28	0.067
RS R05	Rock	0.78	0.3	15.6	5.4	161	<0.1	61.5	25.4	2123	5.02	2.0	<0.5	1.7	62	0.1	0.3	<0.1	100	1.15	0.122
RS R06	Rock	0.99	0.4	6.7	10.7	264	<0.1	68.7	28.0	3426	5.25	2.2	<0.5	1.9	45	<0.1	0.3	<0.1	141	1.18	0.109
RS R07	Rock	1.55	0.1	19.5	5.3	507	<0.1	85.7	24.1	3682	5.32	2.4	<0.5	1.2	47	0.1	0.2	<0.1	126	1.45	0.098
RS R08	Rock	1.40	0.1	2.5	7.4	91	<0.1	4.1	9.4	775	3.45	11.2	<0.5	0.7	48	0.2	0.3	0.4	17	0.46	0.045
RS R09	Rock	0.94	0.2	17.3	3.8	273	<0.1	80.9	31.6	2955	6.01	1.2	<0.5	1.4	52	<0.1	0.2	<0.1	143	1.97	0.113
RS R10	Rock	0.56	0.8	25.3	11.2	85	0.2	5.2	8.0	440	4.16	10.9	<0.5	0.7	11	<0.1	0.8	<0.1	39	0.30	0.068
2327701	Rock	1.24	1.0	>10000	17.0	3	82.7	0.6	4.7	3749	0.65	6.5	<0.5	0.5	68	1.9	<0.1	0.2	23	23.73	0.108
7511168	Rock	0.79	1.4	132.9	23.0	114	1.7	95.9	22.2	1030	7.84	8.4	<0.5	3.0	33	0.3	1.3	1.3	111	1.15	0.550
7511169	Rock	0.77	2.5	75.1	6.7	37	0.4	0.8	4.2	1135	1.89	0.5	<0.5	3.4	144	<0.1	<0.1	0.4	10	2.82	0.061
7511170	Rock	1.15	1.6	252.7	21.6	123	1.5	8.1	19.0	2443	9.13	8.1	3.5	1.2	204	0.5	0.4	1.2	53	6.72	0.079

Acme Analytical Laboratories (Vancouver) Ltd.

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Project: None Given
Report Date: September 24, 2013

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI13000274.1

	Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
RS R01	Rock	19	90	3.66	356	0.148	7	2.57	0.030	0.14	0.1	<0.01	22.7	<0.1	<0.05	12	<0.5	<0.2
RS R02	Rock	15	68	3.25	204	0.060	3	1.86	0.052	0.15	0.1	0.02	14.6	<0.1	<0.05	9	<0.5	<0.2
RS R03	Rock	16	86	2.82	166	0.070	7	2.38	0.182	0.18	<0.1	<0.01	15.1	<0.1	<0.05	8	<0.5	<0.2
RS R04	Rock	7	2	0.08	114	<0.001	6	0.45	0.050	0.20	0.1	0.03	12.9	<0.1	<0.05	<1	<0.5	<0.2
RS R05	Rock	13	80	2.21	152	0.038	5	1.36	0.044	0.24	<0.1	<0.01	16.9	<0.1	<0.05	5	<0.5	<0.2
RS R06	Rock	13	104	3.40	265	0.277	5	2.34	0.072	0.11	<0.1	<0.01	16.1	<0.1	<0.05	10	<0.5	<0.2
RS R07	Rock	10	103	3.82	728	0.099	<1	2.32	0.058	0.08	<0.1	0.01	16.6	<0.1	<0.05	10	<0.5	<0.2
RS R08	Rock	8	3	0.42	74	0.001	4	0.31	0.060	0.14	<0.1	0.03	10.3	<0.1	<0.05	2	<0.5	<0.2
RS R09	Rock	13	105	3.40	358	0.039	3	2.70	0.046	0.13	<0.1	<0.01	16.7	<0.1	<0.05	11	<0.5	<0.2
RS R10	Rock	11	6	0.42	265	0.003	2	0.85	0.080	0.12	<0.1	0.03	9.3	<0.1	0.10	5	<0.5	<0.2
2327701	Rock	10	4	0.03	287	0.003	<1	0.08	0.006	0.06	0.4	0.02	4.6	<0.1	0.52	<1	0.9	<0.2
7511168	Rock	8	94	1.40	244	0.096	<1	3.92	0.012	0.42	0.1	<0.01	10.8	0.3	0.71	14	4.6	0.4
7511169	Rock	13	1	0.34	46	0.001	<1	1.02	0.052	0.28	<0.1	<0.01	1.4	<0.1	0.19	4	<0.5	<0.2
7511170	Rock	8	5	0.91	53	0.041	<1	2.95	0.001	0.42	0.8	<0.01	6.6	0.1	4.70	23	5.0	0.4

QUALITY CONTROL REPORT

SMI13000274.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
		Reference Materials																				
STD DS9	Standard		14.4	110.7	134.2	315	1.7	42.7	7.9	595	2.34	25.7	107.4	7.3	80	2.8	5.6	5.9	41	0.79	0.081	
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
Prep Wash																						
G1-SMI	Prep Blank		<0.1	1.9	2.8	46	<0.1	3.7	4.1	565	1.93	<0.5	0.8	5.1	52	<0.1	<0.1	<0.1	36	0.43	0.073	
G1-SMI	Prep Blank		<0.1	2.1	2.9	48	<0.1	4.0	4.0	570	1.94	<0.5	0.7	5.3	54	<0.1	<0.1	<0.1	36	0.45	0.074	

QUALITY CONTROL REPORT

SMI13000274.1

	Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																		
STD DS9	Standard	16	128	0.62	321	0.122	2	1.03	0.100	0.42	3.1	0.22	2.9	5.2	0.16	5	6.0	5.2
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	10	8	0.56	213	0.112	<1	0.96	0.080	0.49	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	10	8	0.56	228	0.114	<1	1.00	0.088	0.50	<0.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2

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Client: **Terracad Geoscience**
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Submitted By: Farshad Shirvani
Receiving Lab: Canada-Smithers
Received: September 09, 2013
Report Date: September 19, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI13000275.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 47

SAMPLE DISPOSAL

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

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

Invoice To: Terracad Geoscience
310 - 675 W. Hastings St.
Vancouver BC V6B 1N2
CANADA

CC: Erik Ostensoe

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	45	Dry at 60C			SMI
SS80	45	Dry at 60C sieve 100g to -80 mesh			SMI
1DX3	45	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS



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

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Client: Terracad Geoscience
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Project: None Given
Report Date: September 19, 2013

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000275.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
RS 01	Soil	1.2	18.4	8.4	105	0.2	22.8	6.6	169	3.06	7.3	0.8	0.4	8	0.2	0.3	0.3	60	0.08	0.047	3
RS 02	Soil	1.2	20.2	12.6	71	0.1	25.6	6.4	153	3.96	9.2	<0.5	0.7	4	0.2	0.3	0.2	68	0.03	0.047	4
RS 03	Soil	0.7	11.0	6.0	58	0.1	16.7	3.4	96	2.24	4.8	<0.5	0.7	4	0.2	0.2	0.2	42	0.04	0.051	4
RS 04	Soil	0.5	8.4	5.9	43	0.1	10.7	3.1	85	1.42	3.4	<0.5	0.3	8	0.2	0.1	0.1	38	0.07	0.049	4
RS 05	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
RS 06A	Soil	0.6	6.7	9.3	90	<0.1	9.9	3.9	255	2.72	5.4	<0.5	0.2	5	0.2	0.4	0.1	73	0.07	0.050	7
RS 06B	Soil	0.8	14.1	8.5	111	0.1	23.5	7.2	230	3.52	7.7	4.0	0.4	11	0.2	0.4	0.1	60	0.11	0.052	4
RS 07	Soil	0.9	11.3	7.0	111	0.2	14.0	4.3	148	2.81	6.3	<0.5	0.3	12	0.7	0.3	<0.1	52	0.15	0.067	4
RS 08	Soil	0.8	14.3	10.5	124	0.1	21.9	5.8	216	3.94	9.9	<0.5	0.4	7	0.2	0.3	0.1	68	0.08	0.126	4
RS 09	Soil	0.8	20.3	5.2	63	0.2	10.7	3.8	142	2.09	9.0	<0.5	0.1	10	0.1	0.3	<0.1	67	0.26	0.034	4
RS 10	Soil	0.8	18.8	9.7	125	0.2	21.9	6.2	226	4.65	11.0	<0.5	0.4	5	0.5	0.3	0.1	65	0.09	0.168	4
RS 11	Soil	1.5	4616	12.8	154	0.4	39.4	9.3	1137	4.06	16.6	8.6	0.9	12	0.9	0.6	0.4	55	0.32	0.112	11
RS 12	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
RS 13A	Soil	1.2	207.6	14.5	85	1.2	7.0	4.3	577	2.14	11.1	<0.5	<0.1	18	0.8	0.7	0.5	62	0.27	0.039	5
RS 13B	Soil	1.1	48.6	12.9	163	0.9	29.0	7.5	232	4.87	16.4	<0.5	0.6	5	0.8	0.7	0.1	65	0.09	0.135	3
RS 14	Soil	1.2	31.1	10.8	202	0.1	31.3	10.3	414	5.56	16.6	<0.5	0.7	4	0.3	0.5	0.1	70	0.04	0.165	5
RS 15	Soil	0.5	15.5	5.1	15	0.3	6.3	1.4	54	0.51	2.3	<0.5	0.2	24	0.3	<0.1	<0.1	17	0.30	0.069	5
RS 16	Soil	0.9	16.7	6.5	78	0.1	21.0	5.6	277	2.97	9.1	<0.5	0.3	10	<0.1	0.4	<0.1	60	0.13	0.047	4
RS 17	Soil	0.9	34.5	9.8	101	0.2	29.2	7.4	227	4.20	18.8	<0.5	0.5	10	0.2	0.6	0.1	68	0.10	0.043	5
RS 18	Soil	0.8	18.4	10.8	241	0.1	35.8	9.9	348	4.49	9.3	2.7	0.5	19	0.2	0.4	<0.1	77	0.20	0.043	5
RS 19	Soil	0.7	11.0	6.5	104	0.1	21.4	6.3	319	2.89	8.0	<0.5	0.4	10	0.2	0.3	<0.1	57	0.14	0.034	5
RS 20	Soil	0.7	5.8	10.6	157	0.2	10.4	5.9	992	5.79	7.4	<0.5	0.2	10	<0.1	0.4	<0.1	86	0.12	0.145	4
Pitman 01	Soil	60.6	36.7	11.0	28	1.1	8.0	8.1	378	0.89	2.8	<0.5	<0.1	27	0.2	0.4	0.2	19	0.37	0.169	10
Pitman 02	Soil	30.6	11.6	7.3	12	<0.1	2.0	1.8	287	0.84	5.0	<0.5	<0.1	14	0.1	0.3	0.2	35	0.30	0.023	6
Pitman 03	Soil	3.9	24.1	7.5	94	<0.1	19.2	11.5	577	4.56	19.1	0.8	1.1	8	<0.1	0.7	0.2	71	0.09	0.094	7
Pitman 04	Soil	3.0	20.6	9.3	82	<0.1	13.6	6.5	344	4.42	19.8	<0.5	1.1	6	0.1	0.8	0.1	59	0.07	0.118	5
Pitman 05	Soil	29.4	35.3	10.8	75	0.6	20.2	12.6	2264	4.13	12.2	<0.5	0.3	18	0.2	0.5	0.2	60	0.30	0.049	10
Pitman 06	Soil	24.1	19.2	9.4	62	0.2	14.6	6.5	269	4.48	17.8	<0.5	0.2	36	0.1	0.6	0.2	66	0.35	0.043	7
Pitman 07	Soil	23.7	28.2	10.2	53	0.4	11.3	7.6	618	3.43	12.1	<0.5	0.2	30	0.2	0.5	0.4	65	0.38	0.049	12
Pitman 08	Soil	13.9	21.4	6.6	85	0.6	21.0	10.9	546	2.16	4.8	2.4	0.1	47	0.2	0.3	0.1	34	0.34	0.086	10

CERTIFICATE OF ANALYSIS

SMI13000275.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
RS 01	Soil	24	0.28	211	0.005	5	1.56	0.005	0.03	<0.1	0.05	2.9	<0.1	<0.05	6	<0.5	<0.2
RS 02	Soil	34	0.32	98	0.006	4	2.57	0.005	0.03	<0.1	0.08	3.7	<0.1	<0.05	8	<0.5	<0.2
RS 03	Soil	23	0.22	84	0.003	3	1.78	0.005	0.04	<0.1	0.03	2.4	0.1	<0.05	6	<0.5	<0.2
RS 04	Soil	15	0.17	172	0.005	3	1.35	0.005	0.03	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
RS 05	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
RS 06A	Soil	16	0.09	141	0.007	4	0.82	0.003	0.04	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
RS 06B	Soil	27	0.32	216	0.006	4	1.51	0.004	0.04	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
RS 07	Soil	21	0.20	159	0.006	3	1.45	0.004	0.06	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
RS 08	Soil	28	0.28	176	0.010	2	1.65	0.004	0.07	<0.1	0.02	3.4	<0.1	0.05	6	<0.5	<0.2
RS 09	Soil	13	0.08	83	0.010	3	0.72	0.004	0.03	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
RS 10	Soil	29	0.26	122	0.007	2	1.74	0.004	0.04	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
RS 11	Soil	33	0.34	1205	0.002	3	2.49	0.004	0.05	0.1	0.03	8.3	0.1	<0.05	5	<0.5	<0.2
RS 12	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
RS 13A	Soil	9	0.04	1682	0.006	3	0.66	0.003	0.04	0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
RS 13B	Soil	33	0.36	174	0.006	2	2.07	0.004	0.05	<0.1	0.04	4.7	<0.1	<0.05	6	<0.5	<0.2
RS 14	Soil	36	0.36	199	0.004	3	2.69	0.004	0.04	<0.1	0.03	5.5	<0.1	<0.05	7	<0.5	<0.2
RS 15	Soil	11	0.12	328	0.002	2	0.82	0.005	0.06	<0.1	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
RS 16	Soil	26	0.33	193	0.010	1	1.42	0.004	0.05	<0.1	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
RS 17	Soil	31	0.42	230	0.007	2	2.10	0.004	0.05	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
RS 18	Soil	31	0.35	430	0.003	2	2.36	0.005	0.05	<0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
RS 19	Soil	25	0.33	284	0.006	2	1.47	0.004	0.06	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
RS 20	Soil	22	0.14	194	0.005	<1	1.10	0.003	0.14	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
Pitman 01	Soil	20	0.16	75	0.013	<1	2.95	0.005	0.03	1.1	0.22	0.7	0.1	0.14	5	1.5	<0.2
Pitman 02	Soil	7	0.05	87	0.023	1	0.74	0.003	0.03	1.0	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
Pitman 03	Soil	33	0.53	66	0.055	2	3.40	0.006	0.03	15.0	0.13	6.1	<0.1	<0.05	8	0.8	<0.2
Pitman 04	Soil	23	0.33	58	0.027	<1	3.34	0.007	0.04	0.5	0.06	3.8	<0.1	<0.05	8	0.7	<0.2
Pitman 05	Soil	29	0.42	177	0.046	2	2.62	0.007	0.04	0.8	0.10	2.9	0.1	<0.05	9	<0.5	<0.2
Pitman 06	Soil	21	0.41	252	0.036	<1	1.82	0.006	0.03	1.2	0.04	2.6	<0.1	<0.05	9	<0.5	<0.2
Pitman 07	Soil	19	0.26	199	0.036	<1	1.71	0.005	0.03	2.6	0.04	2.8	0.1	<0.05	8	0.8	<0.2
Pitman 08	Soil	21	0.52	217	0.014	1	2.71	0.008	0.04	2.1	0.09	2.5	0.1	0.05	6	<0.5	<0.2

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Report Date: September 19, 2013

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CERTIFICATE OF ANALYSIS

SMI13000275.1

	Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pitman 09	Soil	13.3	25.7	9.3	75	0.5	15.5	16.3	3032	2.69	11.1	<0.5	<0.1	48	0.5	0.8	0.1	43	0.53	0.141	13
Pitman 10	Soil	12.3	28.0	11.4	66	0.4	12.8	10.3	1213	4.36	18.1	1.8	0.4	16	0.3	0.8	0.2	67	0.23	0.068	11
Helen 01	Soil	7.5	367.0	24.9	250	1.4	55.6	27.7	1724	5.06	51.1	0.9	3.3	23	0.8	0.7	11.3	47	0.36	0.113	20
Helen 02	Soil	1.4	10.0	3.6	20	0.1	2.7	1.7	70	2.58	11.8	<0.5	0.4	7	0.1	0.9	0.4	65	0.03	0.033	5
Helen 03	Soil	11.2	53.0	10.3	2547	0.5	88.4	50.1	>10000	4.45	23.3	2.2	0.2	73	34.3	0.6	0.6	48	0.54	0.176	12
Helen 04	Soil	7.6	26.9	13.1	720	0.6	19.2	41.5	2251	5.03	22.7	1.6	<0.1	65	2.3	0.5	0.5	74	0.53	0.108	9
Helen 05	Soil	0.8	4.0	1.5	48	0.5	4.2	1.7	307	0.54	1.1	1.8	0.1	35	0.6	<0.1	0.4	9	0.06	0.044	1
Helen 06	Soil	7.2	27.4	10.4	175	0.8	7.9	7.7	1113	4.04	16.4	1.8	0.2	13	0.5	0.4	0.3	51	0.03	0.139	5
Helen 07	Soil	1.8	23.7	9.0	66	0.4	11.5	5.6	250	4.92	23.1	2.4	0.3	4	0.5	1.2	0.2	78	0.03	0.045	5
Helen 08	Soil	2.1	6.2	1.9	14	0.9	1.7	0.8	46	0.52	<0.5	0.7	0.7	6	0.2	<0.1	0.2	11	0.02	0.037	8
Helen 09	Soil	16.3	39.2	14.1	125	1.3	19.4	143.7	>10000	7.25	19.5	1.9	0.2	25	0.7	0.8	0.3	68	0.25	0.240	8
Helen 10	Soil	1.2	36.5	10.6	77	0.2	23.2	11.5	453	4.01	30.6	3.4	1.0	6	0.2	1.3	0.1	52	0.05	0.040	7
0540034E 6066600N	Soil	3.2	40.3	10.8	49	0.2	9.0	7.6	557	4.22	23.7	4.4	0.9	6	0.4	1.1	0.4	61	0.11	0.077	8
0540459 6065957N	Soil	0.9	42.2	9.0	79	0.1	24.6	14.2	816	3.72	29.9	0.8	1.0	8	0.1	1.4	0.1	47	0.12	0.062	7
0539561 6067087	Soil	2.3	23.8	11.3	62	0.1	13.9	8.8	835	3.74	22.0	3.2	0.3	8	0.1	0.8	0.2	71	0.08	0.125	8
0539590 6067010	Soil	2.2	103.3	16.8	95	0.2	26.0	16.2	1166	3.66	33.8	36.0	0.5	10	0.1	1.3	0.2	56	0.18	0.135	9
0539717 6066831	Soil	2.3	49.6	14.7	92	<0.1	24.7	15.2	857	3.54	37.4	10.9	1.5	10	0.2	1.2	0.2	50	0.17	0.081	9

CERTIFICATE OF ANALYSIS

SMI13000275.1

	Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pitman 09	Soil	16	0.31	279	0.024	1	3.12	0.006	0.03	7.2	0.12	1.6	0.1	0.06	6	0.6	<0.2
Pitman 10	Soil	20	0.33	221	0.035	2	2.16	0.006	0.04	0.7	0.08	3.4	<0.1	<0.05	9	0.5	<0.2
Helen 01	Soil	35	0.74	116	0.004	<1	1.90	0.005	0.22	0.1	<0.01	5.0	<0.1	<0.05	6	1.2	0.2
Helen 02	Soil	8	0.04	15	0.024	2	0.70	0.003	0.02	0.2	0.03	1.5	<0.1	<0.05	9	<0.5	<0.2
Helen 03	Soil	21	0.28	409	0.013	3	3.22	0.004	0.03	0.1	0.13	2.4	0.3	0.06	6	2.4	<0.2
Helen 04	Soil	22	0.31	173	0.014	4	2.56	0.005	0.03	0.2	0.09	1.7	<0.1	0.06	9	1.6	<0.2
Helen 05	Soil	6	0.02	75	0.010	4	0.30	0.007	0.03	<0.1	0.07	0.5	<0.1	<0.05	<1	<0.5	<0.2
Helen 06	Soil	15	0.19	81	0.017	3	1.38	0.005	0.04	0.2	0.19	1.3	<0.1	0.06	6	1.8	<0.2
Helen 07	Soil	20	0.33	40	0.029	2	2.17	0.003	0.02	0.2	0.08	2.9	<0.1	<0.05	9	0.6	<0.2
Helen 08	Soil	3	0.04	17	<0.001	2	0.97	0.009	0.03	<0.1	0.07	0.4	<0.1	<0.05	7	<0.5	<0.2
Helen 09	Soil	32	0.41	203	0.024	<1	3.58	0.007	0.05	<0.1	0.18	2.7	0.3	0.06	8	1.4	<0.2
Helen 10	Soil	24	0.59	64	0.027	3	3.32	0.007	0.03	0.3	0.11	5.4	<0.1	<0.05	6	<0.5	<0.2
0540034E 6066600N	Soil	18	0.32	41	0.064	1	3.45	0.006	0.05	2.0	0.14	4.6	<0.1	<0.05	7	0.8	<0.2
0540459 6065957N	Soil	21	0.65	36	0.025	<1	2.11	0.004	0.03	0.2	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
0539561 6067087	Soil	22	0.48	49	0.061	1	2.05	0.005	0.07	0.2	0.04	3.0	0.1	<0.05	8	<0.5	<0.2
0539590 6067010	Soil	21	0.58	46	0.036	2	1.81	0.005	0.06	0.8	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
0539717 6066831	Soil	21	0.57	56	0.039	<1	1.75	0.007	0.06	0.5	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2

QUALITY CONTROL REPORT

SMI13000275.1

Method Analyte Unit MDL		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
RS 17	Soil	0.9	34.5	9.8	101	0.2	29.2	7.4	227	4.20	18.8	<0.5	0.5	10	0.2	0.6	0.1	68	0.10	0.043	5
REP RS 17	QC	1.1	35.2	9.8	102	0.1	29.3	7.0	234	4.34	17.8	<0.5	0.5	10	0.3	0.7	<0.1	70	0.10	0.042	5
Pitman 09	Soil	13.3	25.7	9.3	75	0.5	15.5	16.3	3032	2.69	11.1	<0.5	<0.1	48	0.5	0.8	0.1	43	0.53	0.141	13
REP Pitman 09	QC	12.9	26.8	8.8	75	0.4	15.2	16.8	3052	2.83	11.4	<0.5	0.1	46	0.7	0.7	0.2	44	0.52	0.138	13
0539717 6066831	Soil	2.3	49.6	14.7	92	<0.1	24.7	15.2	857	3.54	37.4	10.9	1.5	10	0.2	1.2	0.2	50	0.17	0.081	9
REP 0539717 6066831	QC	2.3	48.2	14.3	93	0.1	24.4	14.2	842	3.42	38.8	4.2	1.4	11	0.2	1.5	0.1	51	0.16	0.095	9
Reference Materials																					
STD DS9	Standard	13.6	113.1	132.5	324	1.8	40.9	7.7	580	2.42	26.0	117.1	6.9	63	2.0	5.5	5.8	42	0.72	0.079	14
STD DS9	Standard	13.7	115.5	131.1	327	1.7	42.2	7.8	570	2.27	26.3	129.6	6.3	61	2.3	5.4	5.9	41	0.67	0.078	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

QUALITY CONTROL REPORT

SMI13000275.1

	Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
RS 17	Soil	31	0.42	230	0.007	2	2.10	0.004	0.05	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
REP RS 17	QC	33	0.42	235	0.008	2	2.16	0.004	0.06	<0.1	0.06	4.7	<0.1	<0.05	6	<0.5	<0.2
Pitman 09	Soil	16	0.31	279	0.024	1	3.12	0.006	0.03	7.2	0.12	1.6	0.1	0.06	6	0.6	<0.2
REP Pitman 09	QC	17	0.33	273	0.024	1	3.14	0.006	0.03	7.6	0.12	1.8	<0.1	0.11	6	1.4	<0.2
0539717 6066831	Soil	21	0.57	56	0.039	<1	1.75	0.007	0.06	0.5	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
REP 0539717 6066831	QC	21	0.61	56	0.049	<1	1.87	0.007	0.06	0.6	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	120	0.61	310	0.112	3	0.94	0.086	0.39	3.0	0.20	2.7	5.1	0.16	5	5.3	5.7
STD DS9	Standard	120	0.61	277	0.110	1	0.94	0.081	0.36	3.2	0.15	2.2	5.0	0.12	5	4.2	4.8
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2