

PROSPECTING & GEOCHEMICAL REPORT

on the

COLE PROPERTY



Omineca Mining Division, British Columbia

UTM 624612E; 5927217N (NAD83, North Zone 9)
Latitude 53° 28' 45"N Longitude 127° 7' 20" E

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&
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BC Geological Survey
Assessment Report
33538

Table of Contents

Table of Figures	3
List of Tables	3
List of Appendices	3
1) SUMMARY	4
1.1) INTRODUCTION	4
1.2) PROPERTY DESCRIPTION AND LOCATION	4
2) ACCESSIBILITY, CLIMATE, INFRASTRUCTURE AND PHYSIOGRAPHY	6
2.1) ACCESSIBILITY	6
2.2) CLIMATE.....	6
2.3) INFRASTRUCTURE	6
2.4) PHYSIOGRAPHY	6
3) MINERAL TENURE OWNERSHIP & HISTORY	7
3.1) MINERAL TENURE OWNERSHIP	7
3.2) HISTORY	9
4) GEOLOGY.....	10
4.1) REGIONAL GEOLOGY	10
4.2) PROPERTY GEOLOGY	10
4.3) DEPOSIT TYPES	10
4.4) MINERALIZATION	10
5) 2012 EXPLORATION.....	14
5.1) PROSPECTING.....	14
5.2) GEOCHEMICAL SURVEY.....	20
6) DISCUSSION, RECOMMENDATIONS, CONCLUSION & STATEMENT OF EXPENDITURES	38
6.1) DISCUSSION	38
6.2) RECOMMENDATIONS	38
6.3) CONCLUSION.....	39
6.4) STATEMENT OF EXPENDITURES	39
7) STATEMENT OF QUALIFICATION.....	40
8) REFERENCES.....	41

Table of Figures

Figure 1	: Cole Property Location	5
Figure 2	: Cole Claims Reference Figure	8
Figure 3	: Property Geology Map	11
Figure 4	: Regional Geology Map	13
Figure 5.1	: Map Inserts	16
Figure 5.2	: Insert 1 - Rock Samples.....	17
Figure 5.3	: Insert 2 - Rock Samples.....	18
Figure 5.4	: Insert 3 - Rock Samples.....	19
Figure 6.1	: Insert 1 - Silt Samples	21
Figure 6.2	: Insert 2 - Silt Samples	22
Figure 6.3	: Insert 3 - Silt Samples	23
Figure 7.1	: Soil Grid Location.....	24
Figure 7.2	: Soil Sample Locations.....	25
Figure 7.3	: Soil Results - Ag (Silver)	26
Figure 7.4	: Soil Results - As (Arsenic).....	27
Figure 7.5	: Soil Results - Au (Gold).....	28
Figure 7.6	: Soil Results - Ba (Barium)	29
Figure 7.7	: Soil Results - Cu (Copper)	30
Figure 7.8	: Soil Results - Fe (Iron).....	31
Figure 7.9	: Soil Results - K (Potassium)	32
Figure 7.10	: Soil Results - Mo (Molybdenum).....	33
Figure 7.11	: Soil Results - Mn (Manganese).....	34
Figure 7.12	: Soil Results - Pb (Lead).....	35
Figure 7.13	: Soil Results - Zn (Zinc).....	36

List of Tables

Table 1	: CIN Mineral Tenures.....	7
Table 2	: Rock Sample Results	15
Table 3	: Rock Sample Descriptions.....	15
Table 4	: Silt Sample Results.....	20

List of Appendices

Appendix I	: 2012 Soil Survey Results.....	43
Appendix II	: 2012 Field Prospecting Maps.....	50
Appendix III	: ACME Analytical Laboratories Ltd. Analytical Certificates.....	56
Appendix IV	: Large-scale Property Maps	128

1) SUMMARY

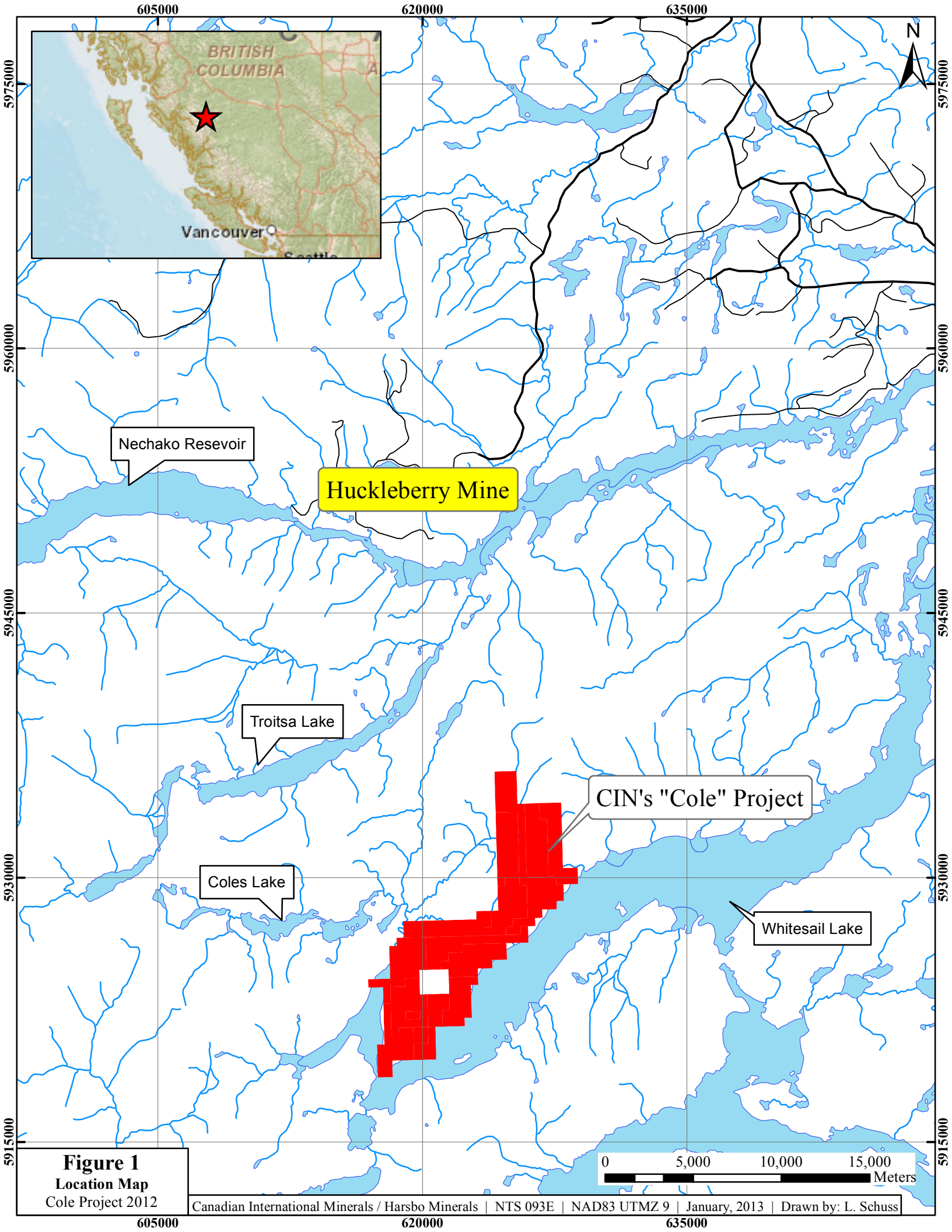
The 2012 Exploration program at the Cole property consisted of prospecting and a geochemical survey. 259 soil samples were obtained over 28 km line at a 100m by 100m spacing. Through prospecting 10 rock samples were collected and 16 stream silt samples. Maps at approximately 1:5000 scales were completed for five target locations.

1.1) INTRODUCTION

Canadian International Minerals Inc. contracted Mackevoy Geosciences Ltd. to visit the Cole property prior to the expiration of the claims on November 7, 2012. The purpose of the site visit was to assess the property's accessibility and terrain, characterize the local geology, and ultimately gauge the property's potential for hosting porphyry related precious and base metal mineralization akin to recent discoveries in the area including the Coles Creek prospect. The field work was performed between August 25th and September 1st, 2012.

1.2) PROPERTY DESCRIPTION AND LOCATION

The Coles Creek property consists of 19 contiguous mineral tenures totaling 7178.52 hectares, located approximately 100km south of Houston, British Columbia. The nearest road access to the property is 17 km north at Huckleberry Mine. Access at present to the property is by helicopter from Houston, BC or Smithers, BC. The claims are centered on Latitude 53°28'45" N, Longitude 127°7'20" E, on NTS topographic maps 93E-6 and 93E-11.



605000

620000

635000

5975000
5960000
5945000
5930000
5915000

5975000
5960000
5945000
5930000
5915000



Nechako Reservoir

Huckleberry Mine

Troitsa Lake

Coles Lake

CIN's "Cole" Project

Whitesail Lake

Figure 1
Location Map
Cole Project 2012

0 5,000 10,000 15,000
Meters

605000

620000

635000

2) ACCESSIBILITY, CLIMATE, INFRASTRUCTURE AND PHYSIOGRAPHY

2.1) ACCESSIBILITY

The nearest all-season road to the property is 17 km north at the Huckleberry Mine site. Access to the property is mainly by helicopter. Helicopters can be chartered from Houston or Smithers, BC. Helicopter staging can occur at the barge landing on Troitsa Lake or from across the barge. Boat access to the southern end of the property via Whitesail Lake is also possible.

2.2) CLIMATE

Summers are warm and mild while winters are cold with extensive snowfall. A typical exploration season begins in June/July and lasts until September/October. The Huckleberry Mine operates year-round.

2.3) INFRASTRUCTURE

The nearest roads and power lines are at the Huckleberry Mine. The town of Houston (population ~3600) is a regional service center, with developed road, rail, and air transportation and businesses that service the mining, logging, and recreation industries.

2.4) PHYSIOGRAPHY

The Cole Property is situated between altitudes 900 m to 2,000 m. The claims run alongside the north shore of Whitesail Lake and cover an area of rugged mountainous terrain. The highest elevations on the property of 2,000 meters are located both in the south around Core Mountain and in the north-central portion of the property. Above timberline at 1,500 m elevation bedrock exposures are fair to good. Below this elevation a thick growth of balsam and hemlock is prevalent, with occasional grassy swamps, willow growth, and steep-sided creek gullies. Approximately 90% of the area of the claims is covered with glacial-fluvial till, 2% with ice, and 2% with water.

3) MINERAL TENURE OWNERSHIP & HISTORY

3.1) MINERAL TENURE OWNERSHIP

The Cole Property's mineral tenures are held in the name of Canadian International Minerals Inc (or "CIN"). CIN is a Vancouver-based junior mining company listed on the TSX Venture Exchange under the trading symbol "CIN".

Harsbo Minerals Ltd. (or "Harsbo"), a private BC company, holds an option to earn a 50% interest in the Cole Property.

TABLE 1 - CIN MINERAL TENURES (ACCESSED JANUARY 7, 2013)

Tenure Number	Claim Name	Owner	Issue Date	Expiry Date	Area (hectares)
909629	DHMSLEEPERMINFILE	207309 100%	2011/oct/11	2014/mar/15	481.26
909649	DHMSLEEPERMINFILE2	207309 100%	2011/oct/11	2014/mar/15	481.52
909669	DHMSLEEPERMINFILE3	207309 100%	2011/oct/11	2014/mar/15	462.48
928223	COLE 1	CIN (100%)	2011/nov/04	2014/mar/15	480.63
928224		CIN (100%)	2011/nov/04	2014/mar/15	480.43
928225	COLE 3	CIN (100%)	2011/nov/04	2014/mar/15	481.08
928226	COLE 4	CIN (100%)	2011/nov/04	2014/mar/15	480.98
928227	COLE 5	CIN (100%)	2011/nov/04	2014/mar/15	480.61
928249	COLE 6	CIN (100%)	2011/nov/05	2014/mar/15	480.62
928250	COLE 7	CIN (100%)	2011/nov/05	2014/mar/15	480.95
928329	COLE 8	CIN (100%)	2011/nov/06	2014/mar/15	481.18
928330	COLE 9	CIN (100%)	2011/nov/06	2014/mar/15	481.27
928332	COLE 9	CIN (100%)	2011/nov/06	2014/mar/15	385.2
928350	LOTTERY 1	CIN (100%)	2011/nov/06	2014/mar/15	38.53
928351	LOTTERY 2	CIN (100%)	2011/nov/06	2014/mar/15	96.28
928352	LOTTERY 3	CIN (100%)	2011/nov/06	2014/mar/15	77.07
1010651	AU -3	CIN (100%)	2012/jul/03	2014/mar/15	192.62
1010691	WHITESAIL	CIN (100%)	2012/jul/03	2014/mar/15	154.16
				Total	6696.87

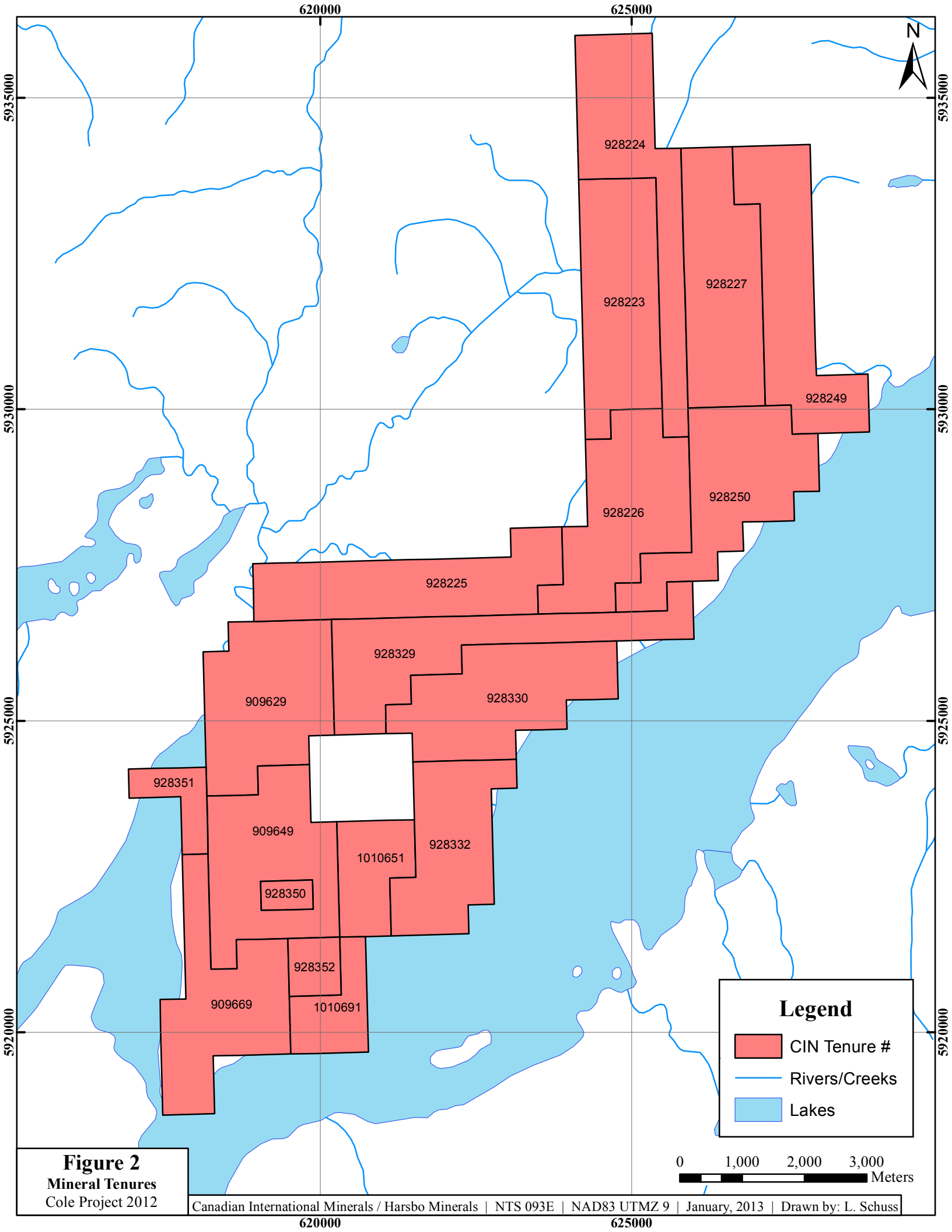


Figure 2
Mineral Tenures
 Cole Project 2012

Legend

- CIN Tenure #
- Rivers/Creeks
- Lakes

0 1,000 2,000 3,000
 Meters

620000

625000

5935000

5935000

5930000

5930000

5925000

5925000

5920000

5920000

3.2) HISTORY

In January of 1968, Niagara Mining and Development Corp. flew an aeromagnetic survey over a section of the current property boundary. No anomalous zones areas were detected, though the extent of the survey was quite small. Welcome North Mines Ltd. staked claims around Core Mountain in 1980, following up on the discovery of several copper-silver showings in the area. They reported finding old baselines on the property, but had no information on the nature of that work. Welcome North completed geochemical and geophysical surveys on the property, and four mineralized showings were established. A selected specimen of high grade material from one of the showings assayed 17.6% copper and 12.45 oz/ton silver, while a specimen of representative grade ran 0.626% copper and 0.38 oz/ton silver.

Throughout the 80's, geologist Tom Richards continued to work on the Core claims for Welcome North, and later on for other companies Whitecap Energy Inc, Westrex Development Ltd, and Atna Resources Ltd. Additional work was completed on the north section of the current property by Ice Station Resources and Fredonia Oil & Gas Ltd. No known assessment work has been filed on the current property boundary since 1988 (AR # 17991). The immediate adjacent areas did see some work done in the early 90's, and again in the mid to late 2000's.

CIN staked the claims in late 2011 to follow up on recent discoveries in the area, most notably Callinex's Coles Creek project to the west. All references besides McIntyre 1985, McIntyre & Diakow 1985, and Diakow 2006 relate to property and claim history.

4) GEOLOGY

4.1) REGIONAL GEOLOGY

The Coles Creek Property belongs to the Intermontane Tectonic Belt, approximately 13 km east of the boundary with the Coast Plutonic Complex. The property is within the Stikine Terrane, and is underlain by Middle Jurassic andesitic rocks of the Hazelton Group and Upper Cretaceous volcanic fragmental and volcanoclastic rocks of the Kasalka Group. Both groups are intruded and hornfelsed by Upper Cretaceous granitic rocks, most of which are part of the Bulkley Intrusions (Diakow et al, 2006; Fig. 5) MacIntyre (1985) and Diakow&Mihalynuk (1986) show the Hazelton Group rocks in the area of the property as belonging to the Telkwa Formation, which consists of various andesitic fragmental rocks, mainly tuff and lapilli tuff. MacIntyre (1985) cites earlier K-Ar age dating studies, including a date of 83.8 ± 2.8 Ma for the porphyritic granodiorite unit at Coles Creek.

4.2) PROPERTY GEOLOGY

The property is predominantly the Telkwa Formation andesitic tuff and lapilli tuffs. They are generally dark green to grey ground mass. Light brown tuffs have also been found in float on the property. A sliver of the Kasalka Group is located centrally on the property, bound by two faults (NE and NW trending) consisting of Hornblende Andesite. To the north of the property there is an intrusion believed to be part of the Bulkley Intrusive Suite.

4.3) DEPOSIT TYPES

Porphyry-type copper, gold, and molybdenite mineralization associated with a porphyritic granodiorite complex comprises the original target deposit type on the property. Silver, gold, lead, and zinc associated with altered volcanoclastic rocks of the Hazelton Group comprise a second target.

4.4) MINERALIZATION

Mineralization in float and outcrop consisted of disseminated galena and pyrite within both the andesitic volcanics as well as the granite. One sample was collected of vuggy vein hosting blebby galena and copper oxide mineralization. Multiple float samples with copper oxide staining were located on Core Mountain to the south of the property.

INTERMONTANE BELT - STIKINE TERRANE

TERTIARY-EOCENE

ENDAKO GROUP

EE Basaltic andesite and andesite lava flows; fresh black aphanitic surfaces weather to dull tan brown; subordinate flow varieties containing bladed plagioclase megacrysts and amygdaloidal texture resemble flows of unit EOW3a, massive, sometimes columnar jointed.

OOTSALA LAKE GROUP

EO Dacite to rhyolite lavas and interstratified air fall ash tuff to lapilli tuff, locally welded tuff, andesite lava flows characterized by amygdaloidal and bladed plagioclase megacrysts, related crudely stratified lahars may contain opal, comagmatic hypabyssal stocks and dikes; bedded units widely exposed in the Whitesall Range and Whitesall Reach.

EOW Whitesall Volcanic Complex (see details in Map 2 inset)

EOW6 Rhyolite lava flows, minor rhyolitic ash to lapilli tuffs; mauve and grey, sparse but diagnostic biotite phenocrysts, flow laminated and spherulitic textures, common pneumatolytic breccia dikes.

EOW5 Air-fall tuffs containing blocks and lapilli derived from unit EOW4c and coarse bladed plagioclase crystal and lithic pyroclasts from unit EOW3a, accretionary lapilli; buff to tan; rare wood fragments.

EOW4c Rhyolitic ash-flow tuff, intensely welded with collapsed pumice defining compaction fabric, local thin zones of black vitrophyre, scarce accidental lithic fragments;

EOW4b Debris flows dominated by clasts derived from unit EOW4a and fewer clasts from unit EOW3a;

EOW4a Dacite flows and minor interflow breccia, shaly weathering, sparsely porphyritic texture.

EOW3a Basaltic andesite flows, aphyric texture; trace olivine

EOW3a Basaltic andesite and andesite lava flows; diagnostic coarse bladed plagioclase megacrysts and augite phenocrysts, flow textures vary from massive and amygdaloidal to scoriaeous, common hemaloidal flow tops and interflow breccia, green oxidation resembling copper due to celadonite; debris flows interbedded with the flows consist of poorly sorted blocks and finer clasts derived mainly from unit EOW3a; local opalescent silica amygdalites in flows and rare precious opal in matrix of debris flows; (3at) local lenticular deposits of air-fall tuff containing coarse bladed plagioclase crystal fragments.

EOW2 Rhyodacite lava flows, mauve to light grey, contain several per cent biotite phenocrysts, similar texture, mineralogy and bulk composition to unit EOW6.

EOW1 Dacite ash-flow tuff, light green-grey, strongly welded, interlayered lapilli and block tuff with biotite-bearing rhyolitic pyroclasts; minor dacitic lava flows. K-Ar age determinations range from 49 to 54 Ma.

EOsp Swing Peak outlier: Andesite lava flows and minor tuffs overlying a lowermost section of rhyodacite welded tuff which in turn rests with angular discordance on Upper Cretaceous volcanic strata;

EOa Arele Mountain outlier: Rhyodacite and andesite lava flows, lapilli tuff to tuff breccia, granite cobble-boulder conglomerate lenses.

SYN-VOLCANIC INTRUSIONS

EOwd Diorite characterized by coarse plagioclase megacrysts; probable feeders to unit EOW3a; (EOWd1) dike of fine grained equigranular diorite.

Itp Feldspar porphyry dike.

LATE CRETACEOUS

KASALKA GROUP

uKK Predominantly hornblende-bearing andesite porphyry lava flows and related lahars, minor aphanitic andesite (ca. 50-63 Ma); regionally extensive reddish oxidized polymictic cobble-boulder conglomerate marks the base of the Kasalka Group; the youngest dated strata (ca. 68-71 Ma) consist of widely scattered rhyolite flows east of Mt. Ney, and debris flows with thin interbeds of andesitic flows and crystal-ash tuff containing hornblende and biotite that crop out along the west-facing slope of the Whitesall Range; co-magmatic with copper-bearing epizonal stocks and smaller hypabyssal intrusions comprising unit LKB.

EARLY CRETACEOUS

SKEENA GROUP

IKS Grey sandstone and siltstone containing diagnostic mica grains, black argillite, arkosic arenite, minor chert pebble conglomerate, volcanic boulder conglomerate near Lindquist Lake; contains rare middle Albian macrofossils.

IKSn Mount Ney volcanics: Basalt lava flows, dark green to black, fine grained fely plagioclase with pyroxene phenocrysts and amygdaloidal textures, rare pillowed flows south of Smoke Mountain, depositionally underlies unit IKS. Unconformably overlies unit mJHS immediately above a polymictic boulder conglomerate near Sias Mountain and west of Coles Lake.

GAMBIER GROUP

IKG Basalt to rhyolite flows with interlayered maroon andesite to rhyolite lapilli tuffs, coarse plagioclase porphyritic basalt flows outcrop immediately west of Chikamin Mountain; between Mount Haven and Bone Mountain ash-flow tuff and dark green mafic flows with interlayered maroon tuffs are not confidently identified and may be part of unit LHJ; shale arkose and conglomerate comprise a distinctive marker between green and brick red flows and volcanoclastic rocks south-southwest of Sandifer Lake. Several age determinations from felsic volcanic successions in 93E2 and 3 suggest a broad Hauterivian range.

MIDDLE AND LATE JURASSIC

BOWSER LAKE GROUP

mJJB Black siltstone and shale with relatively scarce feldspathic siltstone-sandstone interbeds; recessive, well bedded character.

EARLY AND MIDDLE JURASSIC

HAZELTON GROUP

Smithers Formation

mJHS Feldspar greywacke, arkosic arenite, siltstone, minor mudstone, light green chert, rare lenses of coralline limestone, volcanic-lithic granite-pebble conglomerate, rhyolite ash-tuff and thin rhyolite flow interbeds common in the southwestern Whitesall Range, drab grey-green, thickly bedded, locally common calcareous concretions; abundant thick-shelled bivalves and ammonites suggest shallow marine deposition from early Alenian to early Bajocian time.

mJHSv Crystal-ash tuff and lapilli tuff, rare amygdaloidal basalt flows; dark red-maroon; thickly bedded; gradationally overlies unit mJHS in southwestern Whitesall Range and east of Whitesall Reach near Michel Lake; indistinguishable from unit LHJ in absence of a demonstrable contact with unit mJHS.

Nanika member (replaces Whitesall formation of Woodsworth, 1980)

mJHSN Rhyolite lapilli tuff and lithic crystal tuff, lesser aphanitic and flow-laminated rhyolite lava flows, welded ash-flow tuff containing aphanitic andesite and quartz-feldspar porphyry intrusive pyroclasts, light green, ubiquitous quartz phenocrysts up to 5 volume percent; represents a subaerial volcanic episode (ca. 177 Ma; early Alenian) synchronous with shallow marine deposition of unit mJHS.

Nilkitwa Formation

LJHN Sandstone, siltstone and mudstone, minor interbeds of thinly laminated impure limestone, grey-green, caps the ridge at Ox Peak where sedimentary strata conformably overlie unit LHJ; presence of the tiny bivalve *Bostira* sp. suggests a probable Toarcian age.

Telkwa Formation

LJHT Andesitic brick red-maroon grading to green air-fall tuffs alternate with areally extensive basalt and basaltic andesite flows and less voluminous rhyodacite to rhyolite flows and related tuffs and breccias; the intermediate tuffs are composed typically of dark green to red aphanitic lapilli that commonly grade into finer ash tuffs, regionally extensive multiple accretionary lapilli tuff layers; the mafic flows are generally aphanitic with locally prominent amygdaloidal and porphyritic textures and commonly contain sparse vitreous pyroxene; a rare grey limestone with or without chert up to 30 metres thick occurs apparently low down in Jurassic stratigraphy northeast of Hanging Glacier Mountain, west of Morice Lake; fluviatile mudstone, volcanic sandstone interlayered with basal polymictic conglomerate containing volcanic, chert, granitoid and fossiliferous Lower Permian limestone clasts disconformably overlie Upper Triassic strata west of Seel Lake; volcanic exposures are typically crudely layered very thick beds; U-Pb zircon dates on rhyolitic rocks (ca. 186 to 189 Ma) indicate a Pleinsbachian age for the oldest dated Jurassic subaerial arc volcanic events in the Whitesall Lake area. Older Jurassic magmatic episodes are inferred from a circa 199 Ma crystallization age for the Morice pluton, unit EJM.

LATE TRIASSIC

STUHINI GROUP

LJST Black shale and siltstone and minor limestone passing upwards into green volcanic breccia/conglomerate with Permian limestone clasts and discrete limestone lenses, minor basalt flows; Camian (Late Triassic) conodonts in limestone lenses and the bivalve *Halobia* sp. in the clastic sections; restricted to rare exposures west of Seel Lake.

EARLY PERMIAN

IP Grey limestone containing chert nodules; fusulinids of Sakmanian age (Early Permian); large blocks as olistoliths scattered in Jurassic strata west of Seel Lake.

INTRUSIVE ROCKS

(Note: Informal pluton names may accompany unit designation on map.)

TERTIARY

EOCENE

EG GOOSLY INTRUSIVE SUITE: Monzodiorite porphyry, gabbro; possible feeder to bladed plagioclase megacrystic lava flows of unit EE in Mosquito Hills.

EN NANIKA INTRUSIVE SUITE: Mainly biotite-hornblende granodiorite and quartz monzonite, hornblende-alkali feldspar granite at Quanchus; grey to pink, equigranular to porphyritic, phases with microitic texture and potassium feldspar megacrysts; locally associated copper molybdenum porphyry mineralization; K-Ar dates range from 47 to 58 Ma.

LATE CRETACEOUS

LKB BULKLEY INTRUSIVE SUITE: Hornblende-biotite granodiorite, quartz diorite, related feldspar-hornblende ± biotite quartz porphyry dikes of granodiorite to quartz monzonite composition, small single phase to large, compositionally zoned stocks; related copper ± gold porphyry mineralization; age determinations range from 74 to 85 Ma.

LATE JURASSIC to EARLY CRETACEOUS

JKG Biotite-hornblende monzogranite

EARLY to MIDDLE JURASSIC

EJr Redslide pluton

EARLY JURASSIC

EJm Morice pluton(s); weakly foliated biotite-hornblende granodiorite

EJn Nanika pluton; biotite granodiorite to monzogranite

COAST BELT - INTERMONTANE BELT TRANSITION

TERTIARY

EOCENE

LATE JURASSIC to EARLY CRETACEOUS

LJG GAMBESBY COMPLEX: Bimodal basalt-rhyolite volcanic rocks, pelite, minor limestone, syn-kinematic prolymtonitic quartz diorite, orthogneiss (ca. 154-160 Ma), locally inverted metamorphic gradient with amphibolite structurally overlying greenschist grade rocks; comprises a metamorphic, magmatic and ductile compressional belt of late Jurassic to early Cretaceous age.

EARLY JURASSIC

EJD Hornblende diorite and quartz diorite; minor gabbro in the Black Dome Complex; granodiorite and multiple generations of mafic dikes in the Tahsba Complex; U-Pb zircon geochronometry indicates a range of crystallization ages from 210 to 165 Ma.

PALEOZOIC - MESOZOIC

PMCG CENTRAL GNEISS COMPLEX: Migmatite, paragneiss and orthogneiss, thick sills; calc-silicate skarn, marble and metapelite layers in banded amphibolite; amphibolites are meta-basalts of island arc affinity; high-grade metamorphic rocks are probably representative, in part, of a western continuation of Paleozoic and Mesozoic magmatic arc successions comprising the Stikine Terrane of the Intermontane Belt.

5) 2012 EXPLORATION

5.1) PROSPECTING

During August 2012, a six day prospecting program occurred. This program targeted major lithological contacts and faults previously mapped by the BCGS regional geologist, previous BCGS regional geochemical results, and the granite intrusion in the north of the property.

Five prospecting maps were created covering the areas visited; however a lack of exposed bedrock due to vegetative cover hampered efforts on this short program. The prospecting program confirmed previous BCGS regional maps. Major lithologies on the property were the aphanitic to porphyritic green andesite, lapilli tuffs, granite, and in the southern end of the property adjacent to or on Core Mountain, red-purple andesite.

The granite was pale to dark pink, quartz-feldspar-biotite-hornblende bearing with large phaneritic crystals. It was variably oxidized with occasional disseminated euhedralpyrite. Volcanics on the property were largely the green andesite and the lapilli tuff. The tuff was cream to light brown aphanitic groundmass with dark brown and occasionally white porphyroblasts. Green, aphanitic to porphyritic andesite was the most common lithology on the Cole property.

Ten rock samples were sent for assay, with six containing anomalous copper, coincident with anomalous gold, and weakly anomalous silver and manganese. Sample results are tabulated below; full assay results in Appendix III.

TABLE 2 - ROCK SAMPLE RESULTS

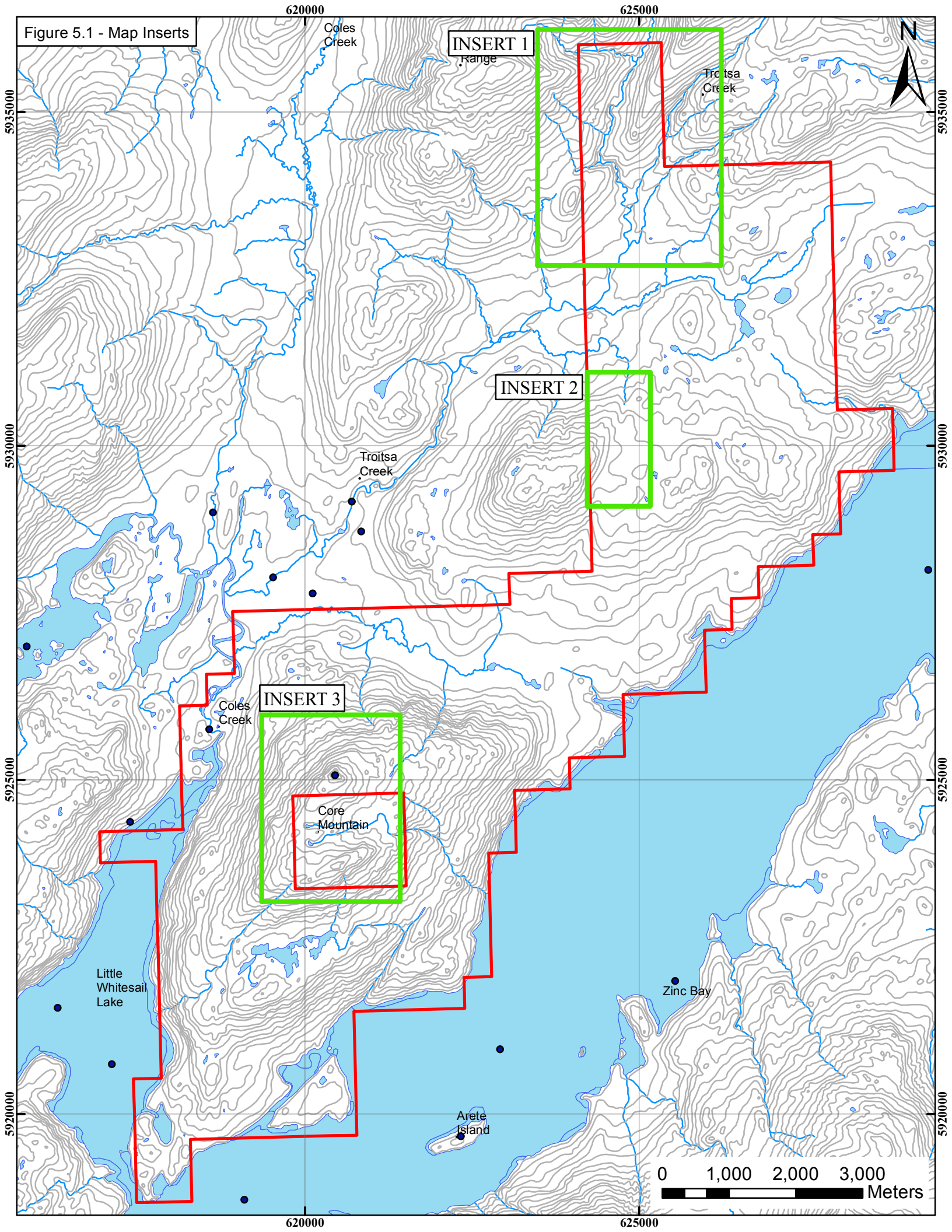
Sample	Easting	Northing	Cu (ppm)	Ag (ppm)	Mn (ppm)	Au (ppb)
LVA-13	625938	5933279	1	<0.1	126	4.8
LVA-16	625987	5933374	1.7	<0.1	263	2.6
LVA-22	624509	5930350	37.7	<0.1	819	2.3
LVA-24	624510	5930338	1.3	<0.1	262	2.9
LVA-26	624750	5933867	134.2	<0.1	452	1
LVA-28	624402	5933899	622.2	1.6	1670	1
LVA-29	619801	5923677	7836.5	15.5	1255	2.9
LVA-32	619955	5923390	2300.3	6.9	1218	336.4
LVA-39	620595	5925665	>10000.0	12	2628	3.8
LVA-42	619936	5925421	5206.2	11.7	1157	3.5

(All sample location coordinates are in NAD83, UTM Zone 9)

TABLE 3 - ROCK SAMPLE DESCRIPTIONS

Sample	Description
LVA-13	Quartz-feldspar-biotite-hornblende-granite with trace galena. Float.
LVA-16	Minor galena mineralization within grey porphyritic (with aphanitic groundmass) volcanics In float.
LVA-22	Green aphanitic to porphyritic sugary textured volcanics in float. Common disseminated euhedral pyrite and reddish-purple sphalerite with extremely fine grained patches, possible phenocrystreplacement.
LVA-24	Mineralized float with disseminated euhedralpyrite and galena in hornfelses green aphanitic volcanics.
LVA-26	Quartz-feldspar-hornblende-biotite granite outcrop with disseminated euhedral pyrite.
LVA-28	Blue copper oxide (azurite) stainingin rusty oxidized fine grained grey aphanitic volcanics. Float.
LVA-29	Green copper oxide (malachite) staining in green aphanitic andesite float.
LVA-32	Rustyred-purple oxidization surrounding a magnetite vein and chalcopyrite in a vuggy, weathered vein or fluid flow; within green aphanitic andesite float.
LVA-39	Quartz-calcite veins in green aphanitic andesite outcrop with malachite, galena and rare chalcocite. Variably rusty.
LVA-42	Malachite staining in reddish andesite float. Looks like a rusty oxidized vein.

Figure 5.1 - Map Inserts

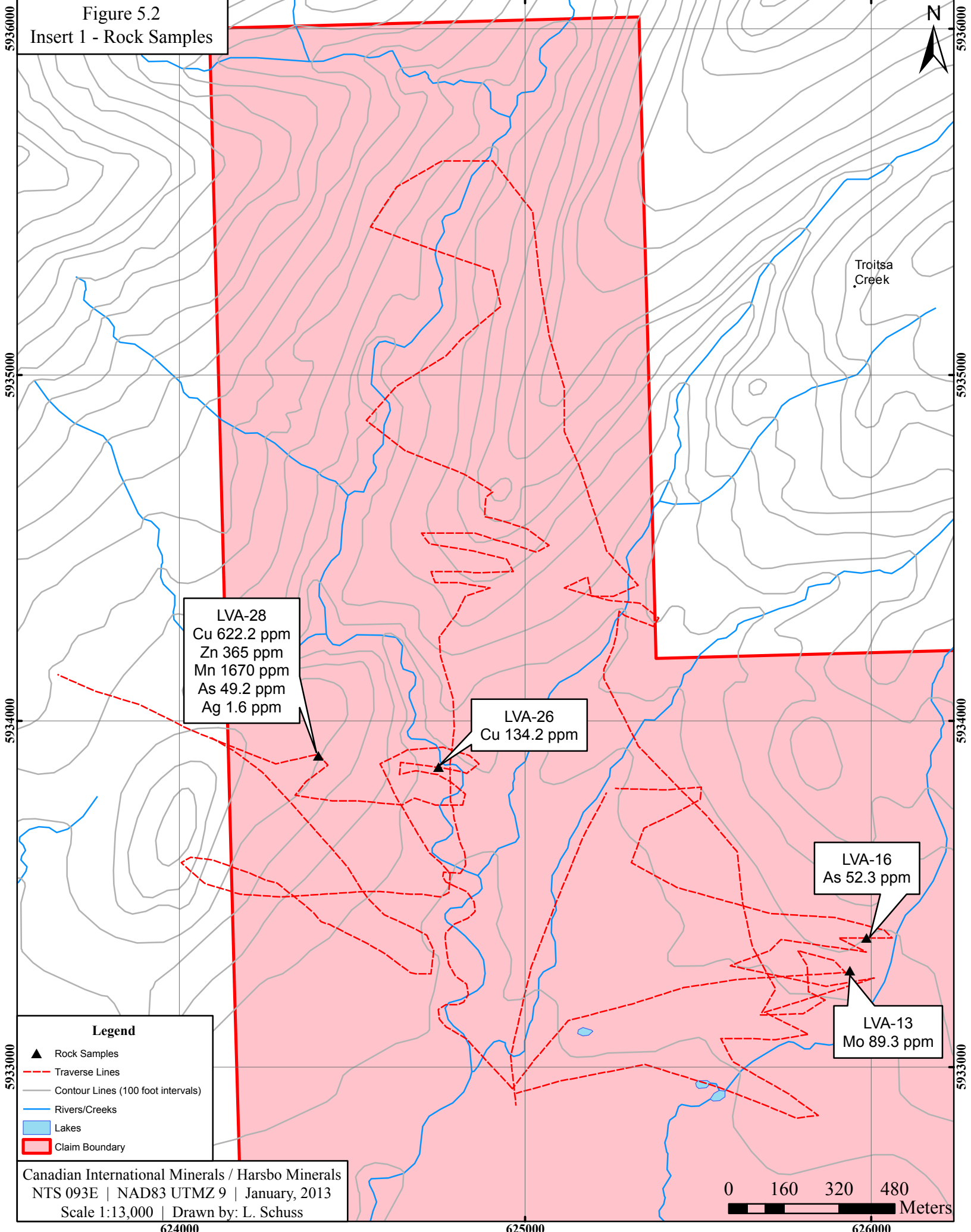


624000

625000

626000

Figure 5.2
Insert 1 - Rock Samples



Troitsa
Creek

LVA-28
Cu 622.2 ppm
Zn 365 ppm
Mn 1670 ppm
As 49.2 ppm
Ag 1.6 ppm

LVA-26
Cu 134.2 ppm

LVA-16
As 52.3 ppm

LVA-13
Mo 89.3 ppm

Legend

- ▲ Rock Samples
- - - Traverse Lines
- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

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NTS 093E | NAD83 UTMZ 9 | January, 2013
Scale 1:13,000 | Drawn by: L. Schuss

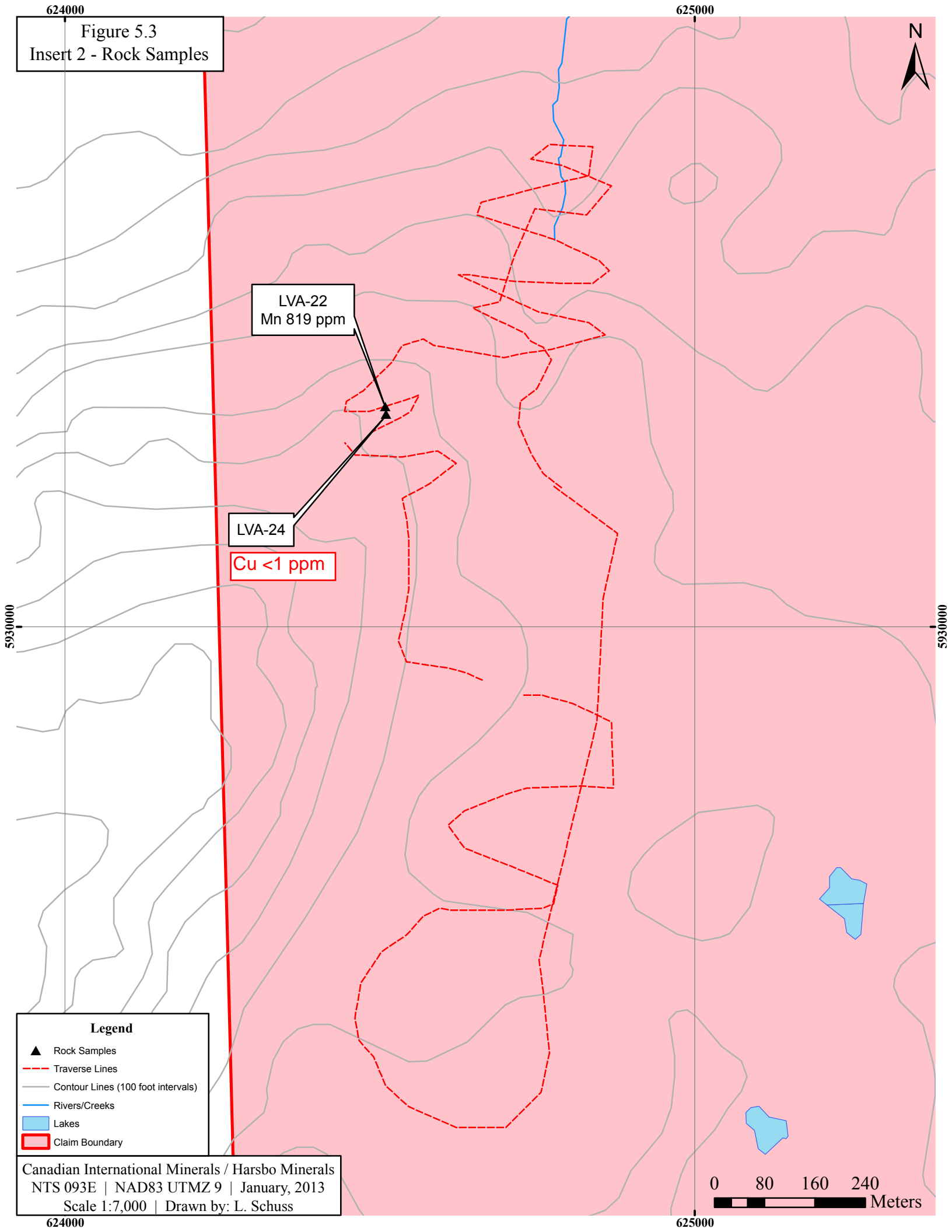


624000

625000

626000

624000
Figure 5.3
Insert 2 - Rock Samples



LVA-22
Mn 819 ppm

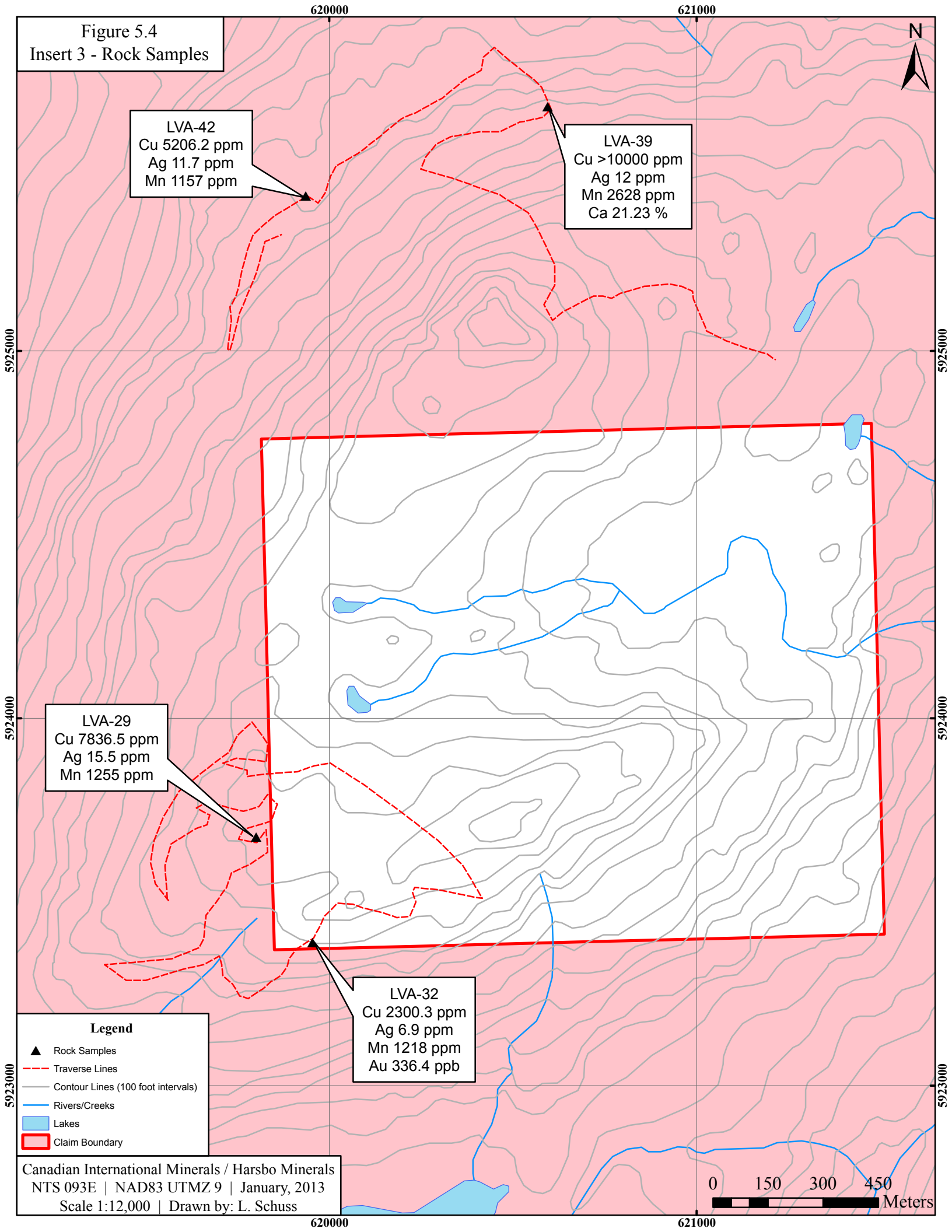
LVA-24
Cu <1 ppm

- Legend**
- ▲ Rock Samples
 - - - Traverse Lines
 - Contour Lines (100 foot intervals)
 - Rivers/Creeks
 - Lakes
 - Claim Boundary

Canadian International Minerals / Harsbo Minerals
NTS 093E | NAD83 UTMZ 9 | January, 2013
Scale 1:7,000 | Drawn by: L. Schuss

0 80 160 240
Meters

Figure 5.4
Insert 3 - Rock Samples



LVA-42
Cu 5206.2 ppm
Ag 11.7 ppm
Mn 1157 ppm

LVA-39
Cu >10000 ppm
Ag 12 ppm
Mn 2628 ppm
Ca 21.23 %

LVA-29
Cu 7836.5 ppm
Ag 15.5 ppm
Mn 1255 ppm

LVA-32
Cu 2300.3 ppm
Ag 6.9 ppm
Mn 1218 ppm
Au 336.4 ppb

Legend

- ▲ Rock Samples
- - - Traverse Lines
- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

5.2) GEOCHEMICAL SURVEY

In tandem with the prospecting program, a geochemical soil survey was completed. The survey encompassed major lithological contacts and faults as per the geology by McIntyre, 1985, and Diakow, 2006, and followed up on anomalous geochemical data available to the west, outside of the claim area. A total of 259 soils were obtained covering a 4.5 km north-south distance, and a 250 m to 2 km east-west distance.

The 259 soils collected and assayed during the 2012 Cole geochemical program outline a coincident weak anomalous zone in the northern portion of the claim block, as shown in figures 7.1 - 7.13. A table of the soil geochemical results is in Appendix I; full assay results are in Appendix III.

Sixteen silt samples were also taken from creeks within the property. Weakly anomalous copper and gold were contained in most samples, with 33.1 ppb Au obtained in sample LVA-41; no other significant metal anomalies were found. Silt sample details are as follows and full assay results are in Appendix III.

TABLE 4 - SILT SAMPLE RESULTS

Sample	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Mn (ppm)	Au (ppb)
LVA-25	624505	5930274	17	24.8	8.5	66	0.2	2926	<0.5
SILT-3	624748	5933758	1.5	43.8	22.3	165	0.3	1483	<0.5
LVA-41	620028	5925501	0.6	34	8.1	65	0.4	1295	33.1
LVA-36	620235	5925496	1	86.7	16	103	0.7	1130	16
LVA-37	620322	5925577	0.4	12.8	3.4	31	0.1	330	7
LVA-40	620522	5925746	0.9	129.1	8	87	0.4	3122	6.9
LVA-31	619699	5923329	5.6	85.1	16.5	90	0.5	2042	6.1
LVA-07	624871	5933554	1.2	56.2	9.2	105	<0.1	1599	5.3
LVA-06	624765	5933554	2.8	50.7	34.5	196	0.3	1891	4.9
LVA-14	626039	5933253	1.6	28.4	7.7	76	0.3	1207	4.1
LVA-19	624714	5930326	3.8	8.6	5.6	27	0.4	190	3.9
SILT-2	624815	5933813	2.3	51.8	30.9	198	0.3	1530	3
LVA-35	621214	5924980	1.1	22.8	8.7	57	<0.1	1045	2.5
LVA-30	619644	5923376	3.9	56	25.3	81	0.2	2093	1.3
LVA-43	619759	5925190	0.6	16	9.9	71	0.2	911	0.6
LVA-38	620445	5925609	1.1	36.7	16.6	51	0.4	1049	0.6

(All sample location coordinates are in NAD83, UTM Zone 9)

Figure 6.1
 Insert 1 - Silt Samples

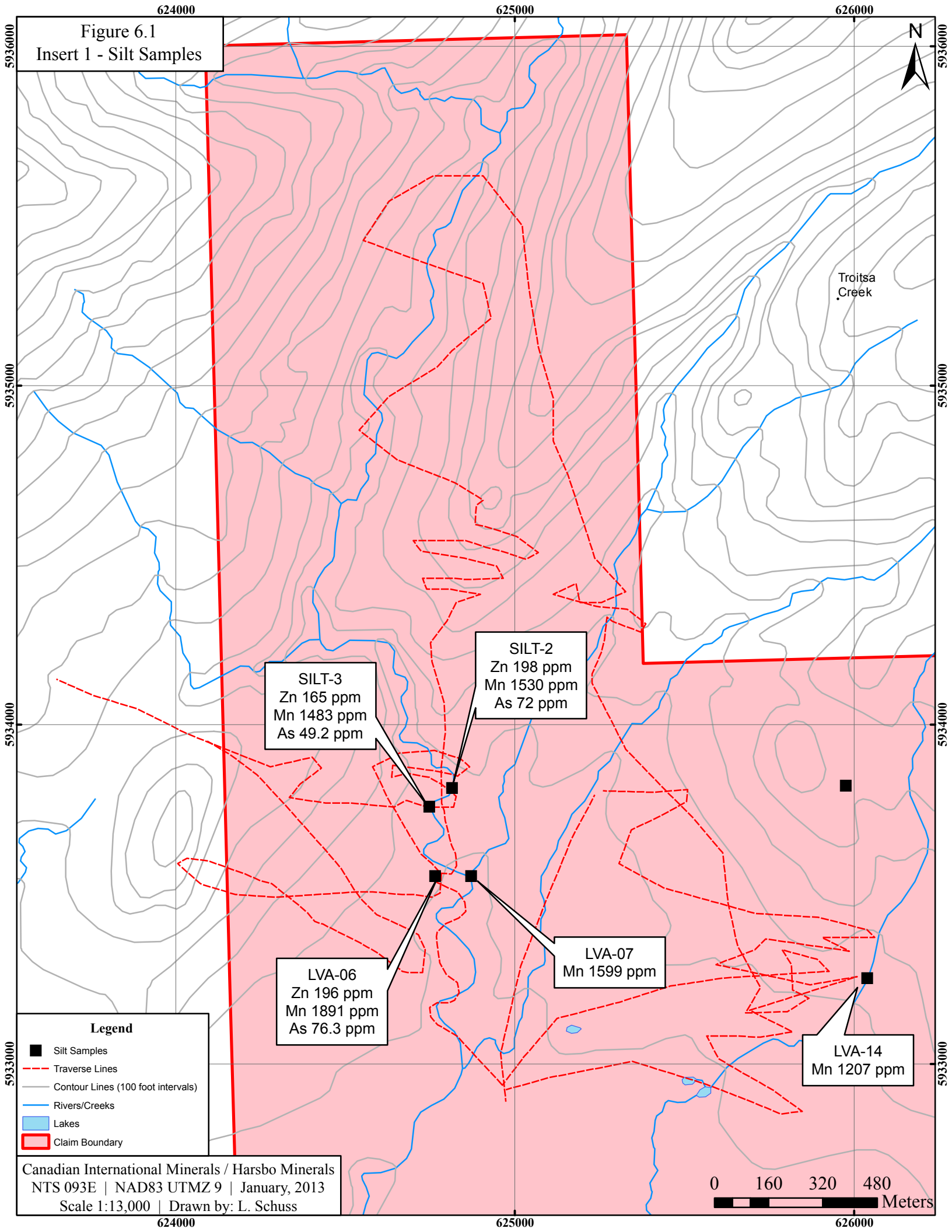
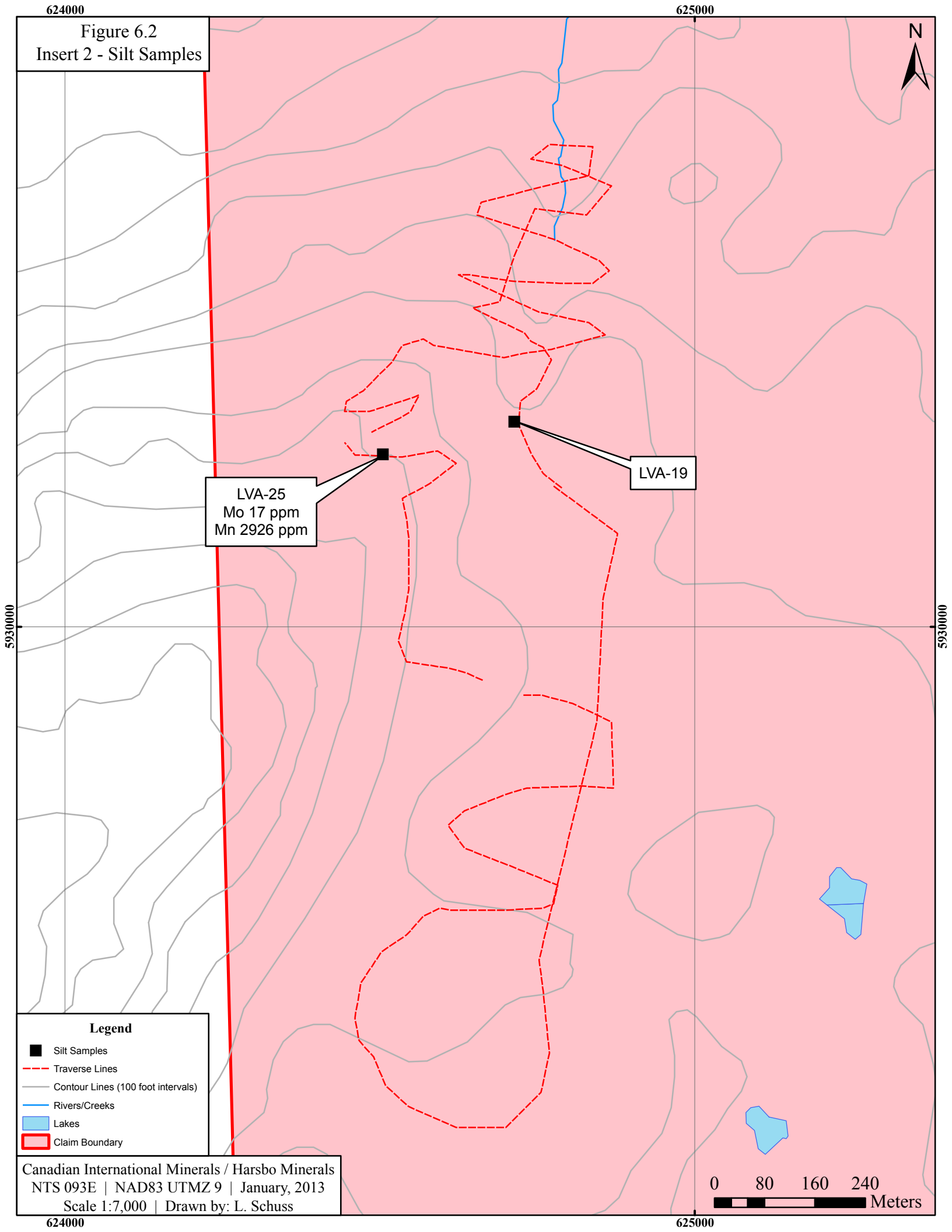


Figure 6.2
Insert 2 - Silt Samples



LVA-25
Mo 17 ppm
Mn 2926 ppm

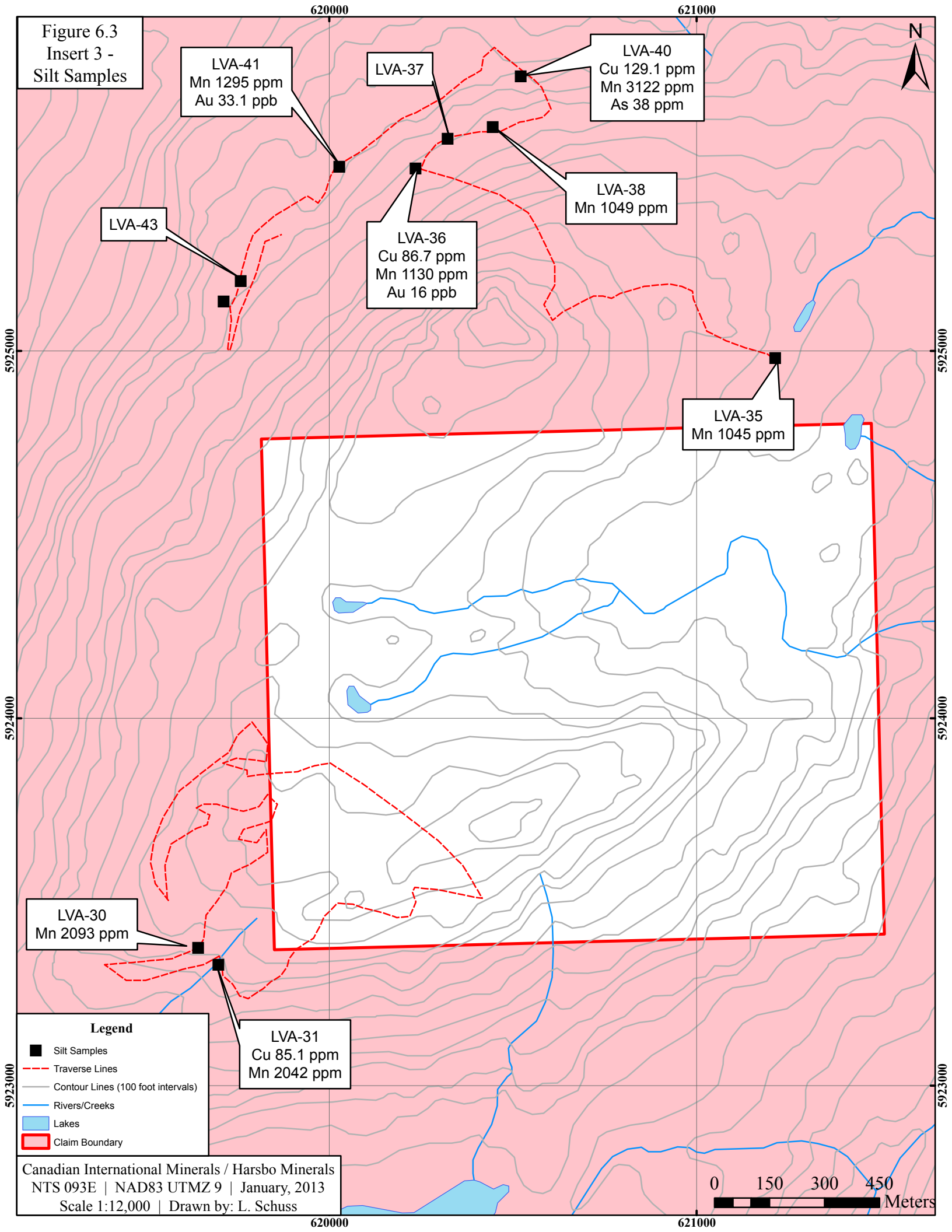
LVA-19

- Legend**
- Silt Samples
 - - - Traverse Lines
 - Contour Lines (100 foot intervals)
 - Rivers/Creeks
 - Lakes
 - Claim Boundary

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NTS 093E | NAD83 UTMZ 9 | January, 2013
Scale 1:7,000 | Drawn by: L. Schuss

0 80 160 240
Meters

Figure 6.3
Insert 3 -
Silt Samples



Legend

- Silt Samples
- - - Traverse Lines
- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
NTS 093E | NAD83 UTMZ 9 | January, 2013
Scale 1:12,000 | Drawn by: L. Schuss

0 150 300 450
Meters

Figure 7.1 - Soil Grid Location

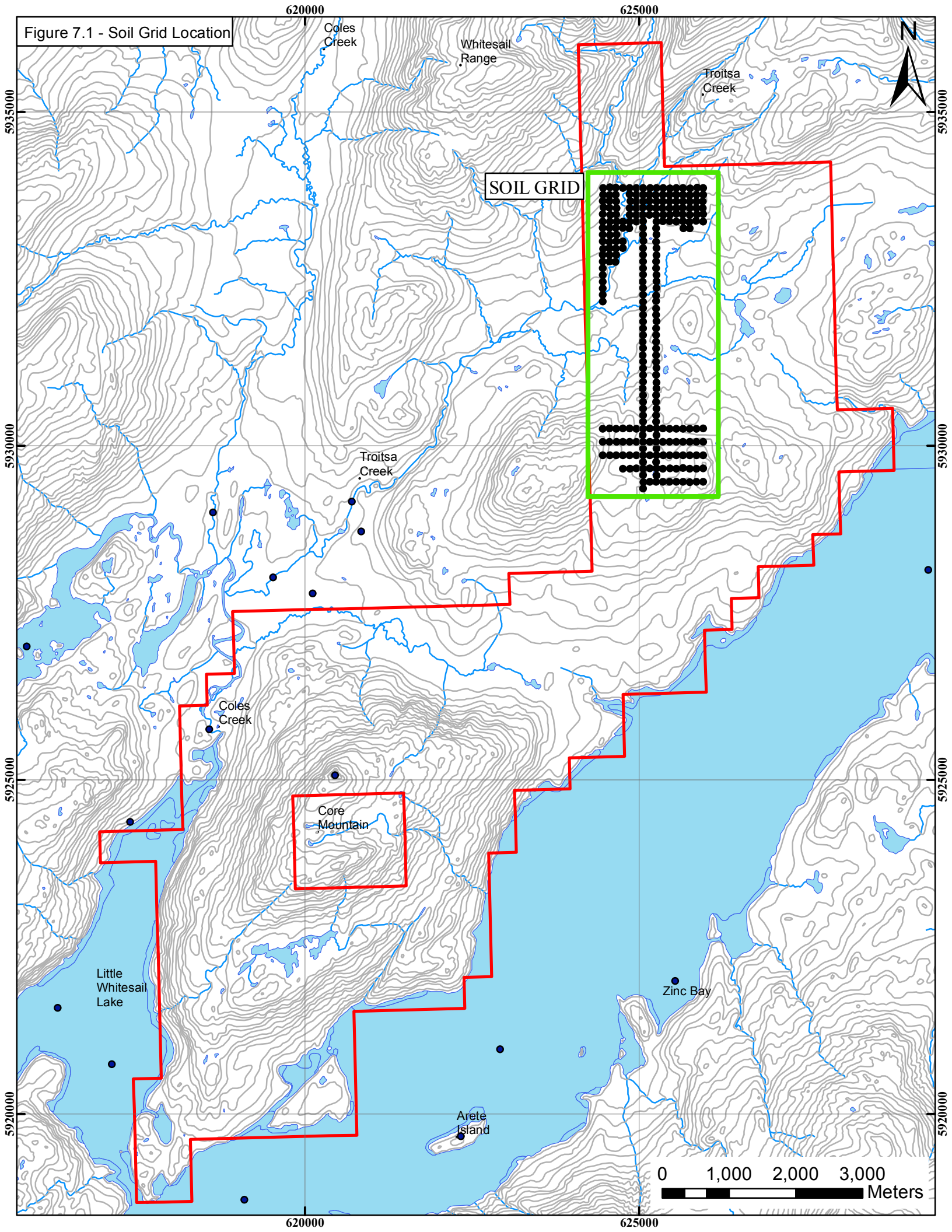
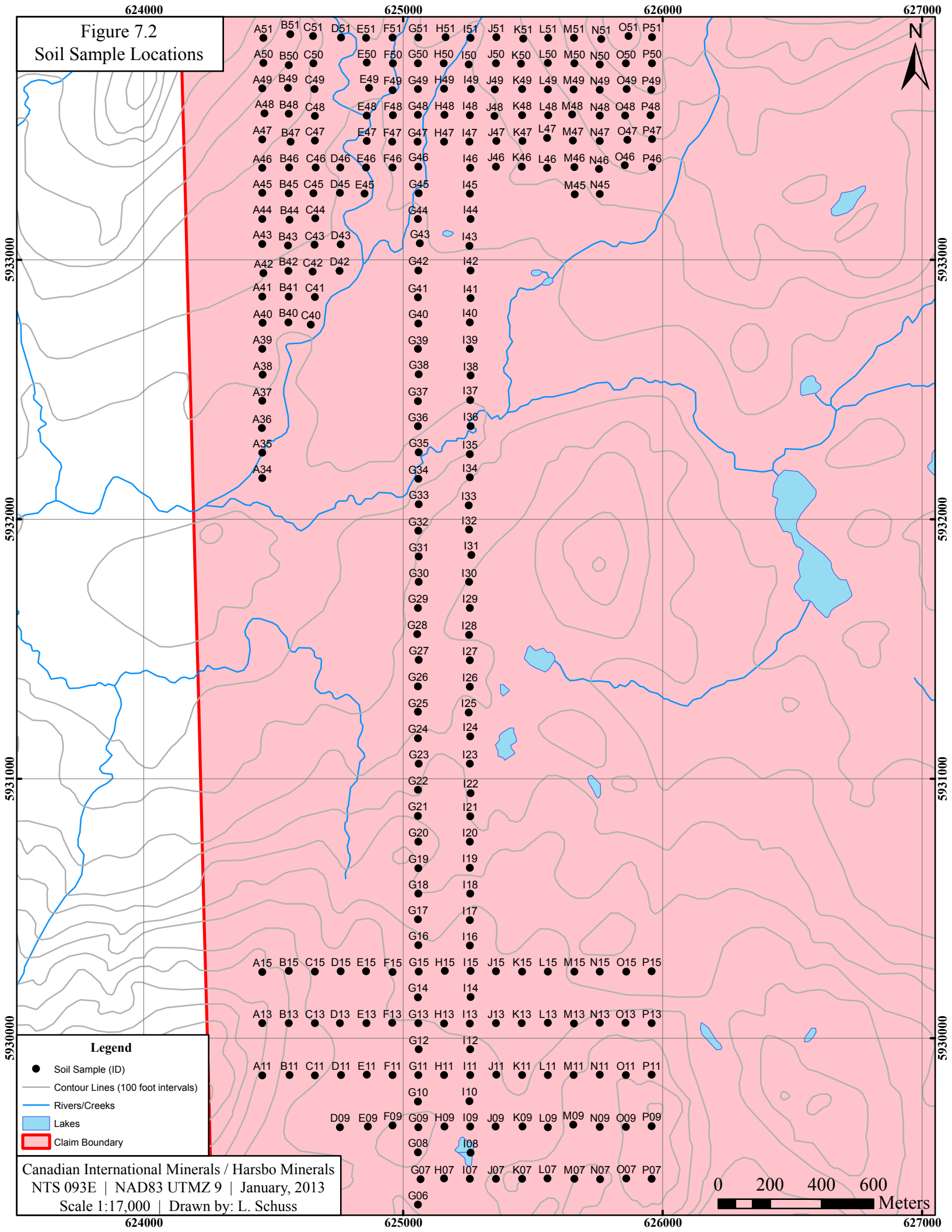


Figure 7.2
Soil Sample Locations

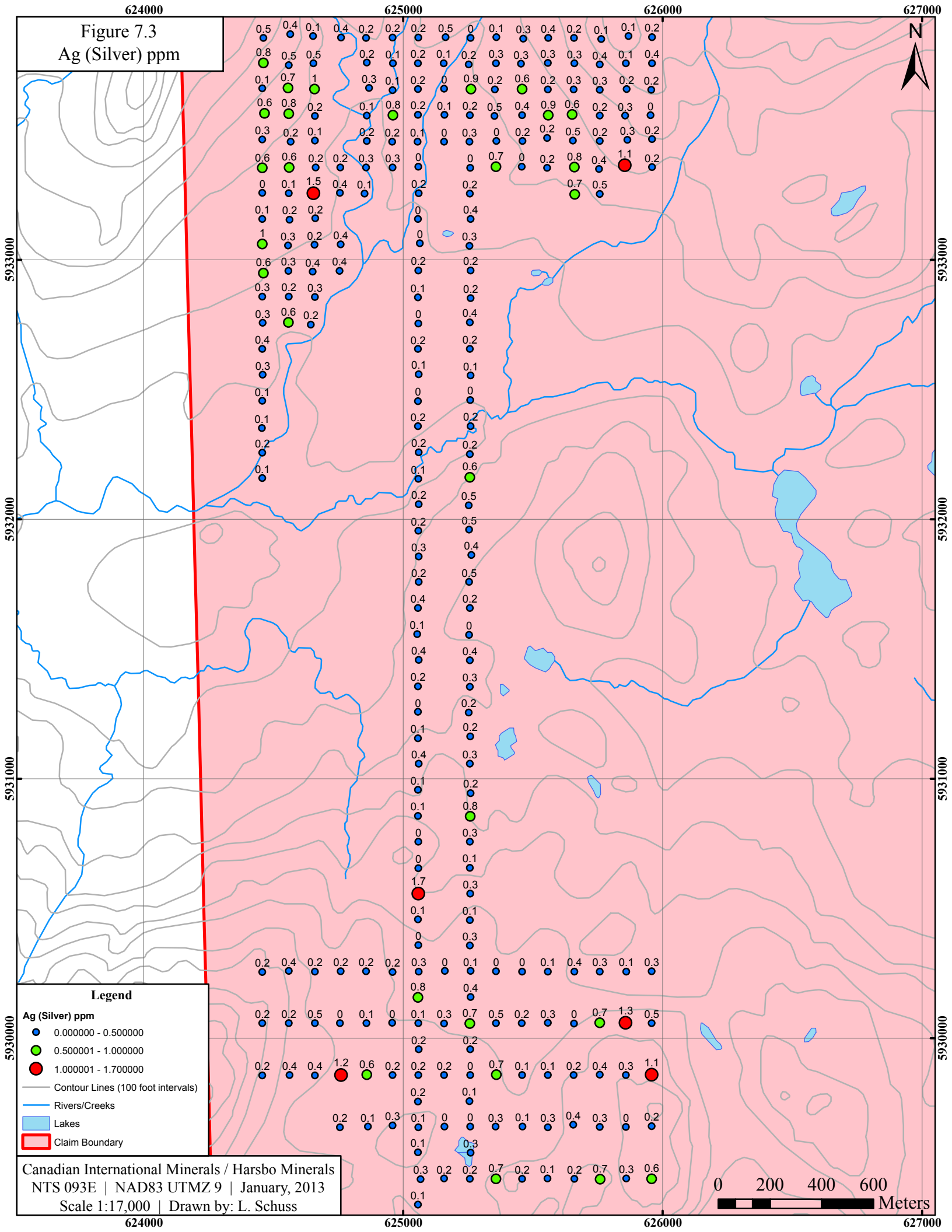


- Legend**
- Soil Sample (ID)
 - Contour Lines (100 foot intervals)
 - Rivers/Creeks
 - Lakes
 - Claim Boundary

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 Scale 1:17,000 | Drawn by: L. Schuss

0 200 400 600 Meters

Figure 7.3
Ag (Silver) ppm



Legend

Ag (Silver) ppm

- 0.000000 - 0.500000
- 0.500001 - 1.000000
- 1.000001 - 1.700000

— Contour Lines (100 foot intervals)

— Rivers/Creeks

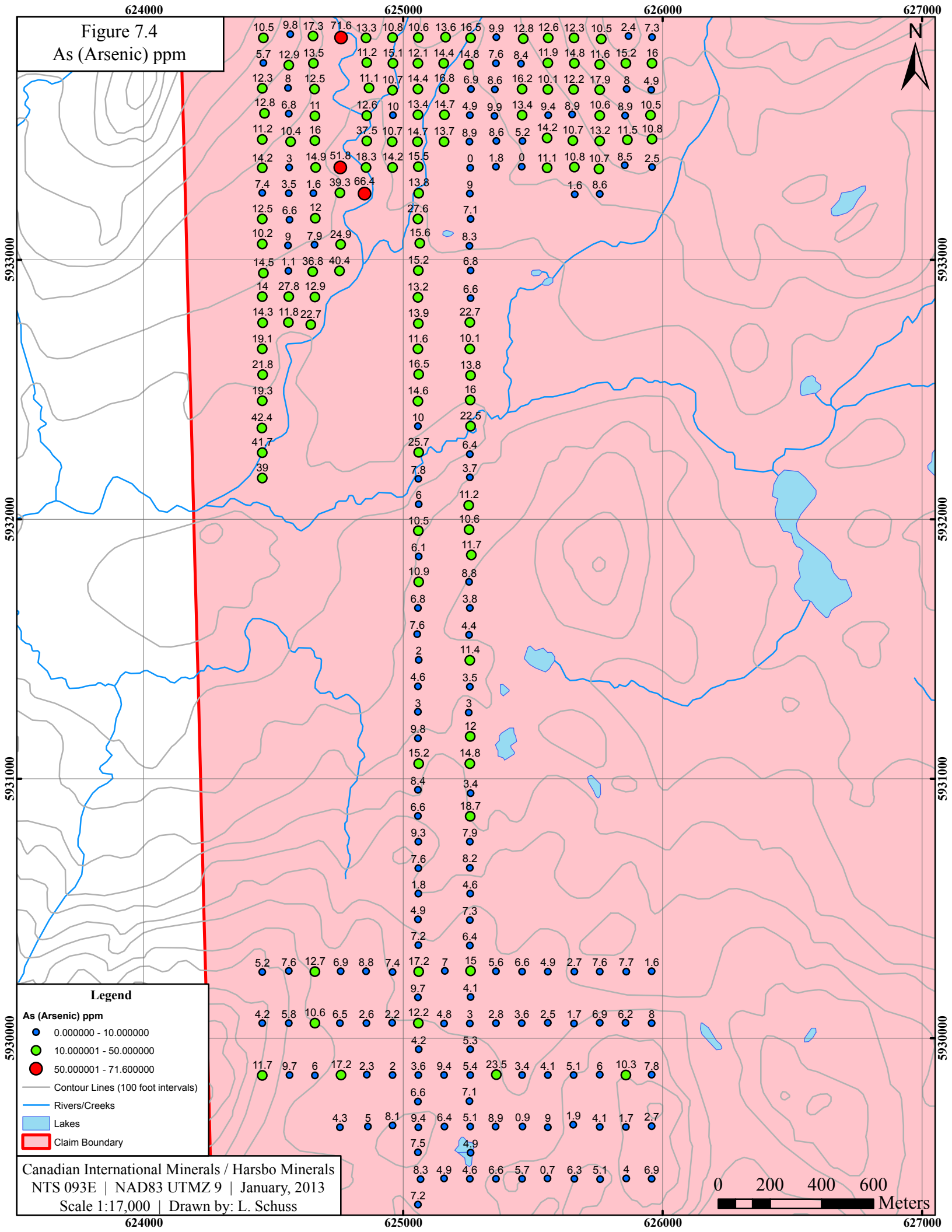
— Lakes

— Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.4
As (Arsenic) ppm



Legend

As (Arsenic) ppm

- 0.000000 - 10.000000
- 10.000001 - 50.000000
- 50.000001 - 71.600000

— Contour Lines (100 foot intervals)

— Rivers/Creeks

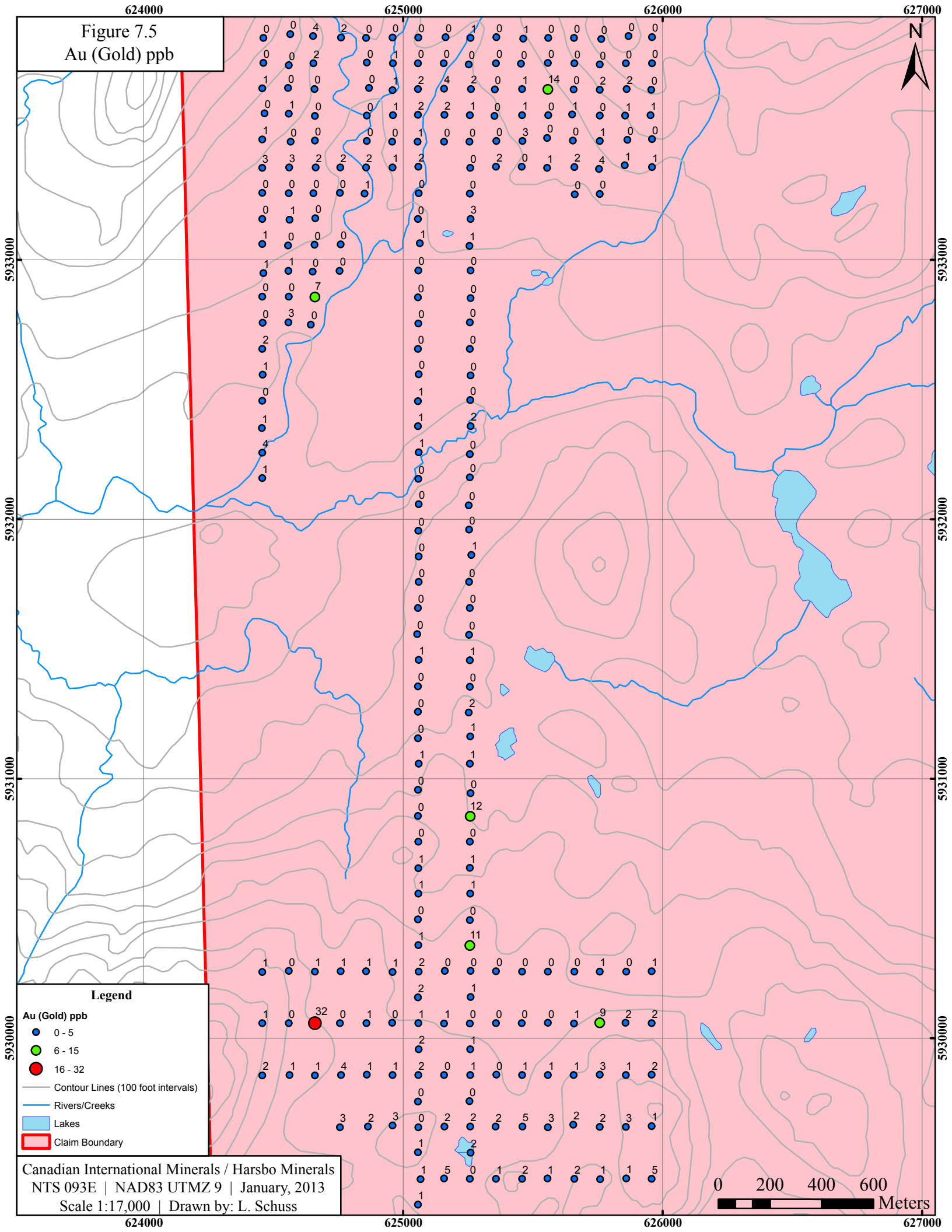
— Lakes

— Claim Boundary

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 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.5
Au (Gold) ppb



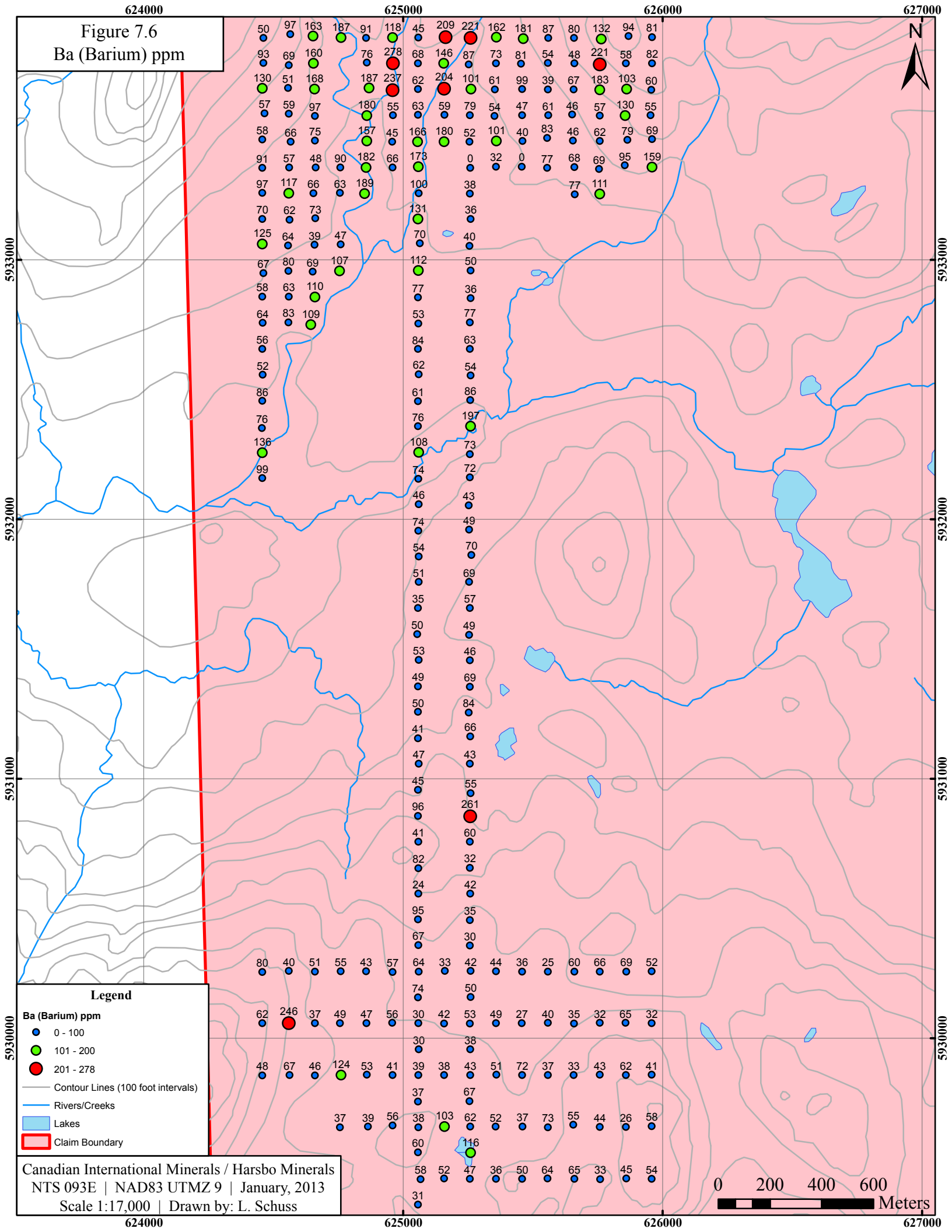
Legend

- Au (Gold) ppb
 - 0 - 5
 - 6 - 15
 - 16 - 32
- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.6
Ba (Barium) ppm



Legend

Ba (Barium) ppm

- 0 - 100
- 101 - 200
- 201 - 278

— Contour Lines (100 foot intervals)

— Rivers/Creeks

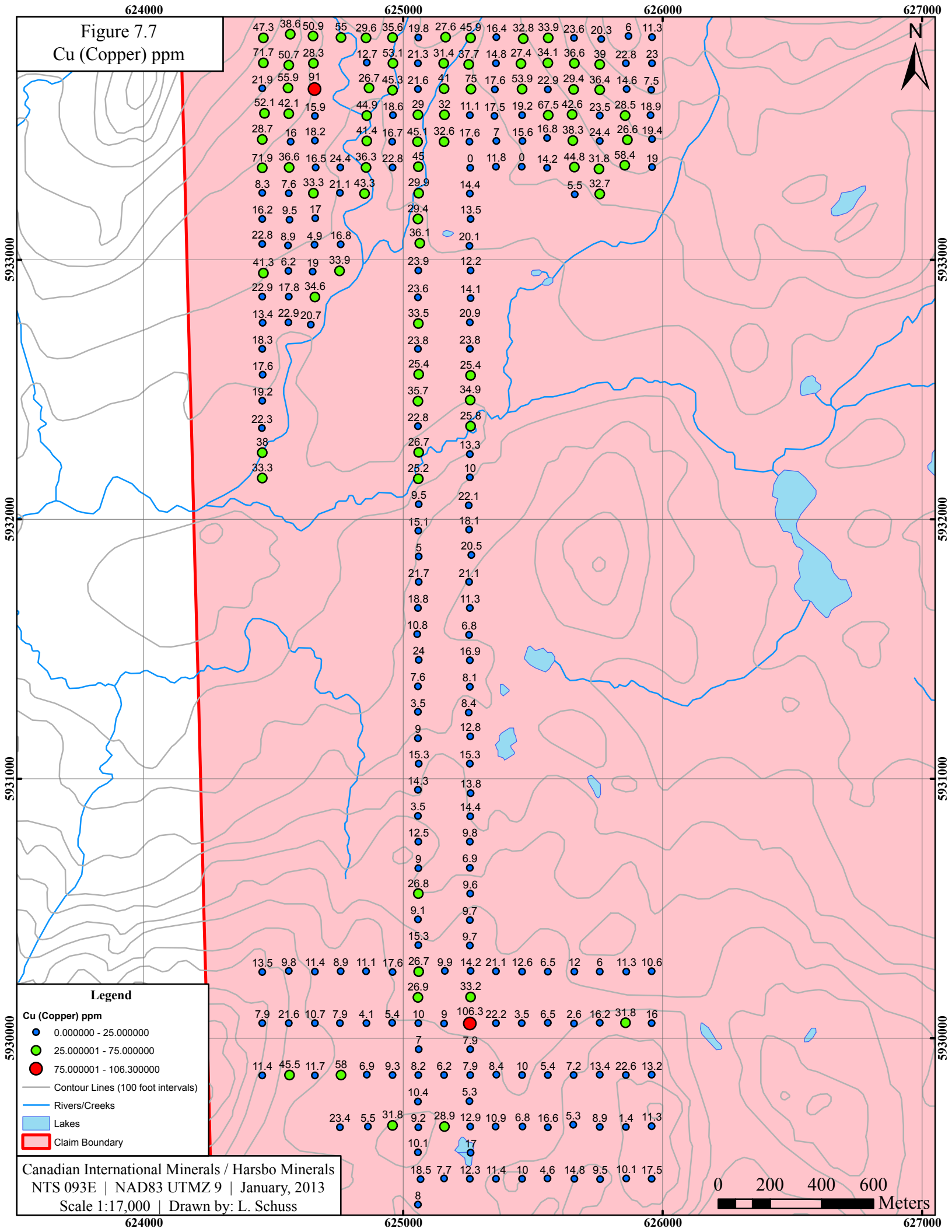
■ Lakes

■ Claim Boundary

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 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.7
Cu (Copper) ppm



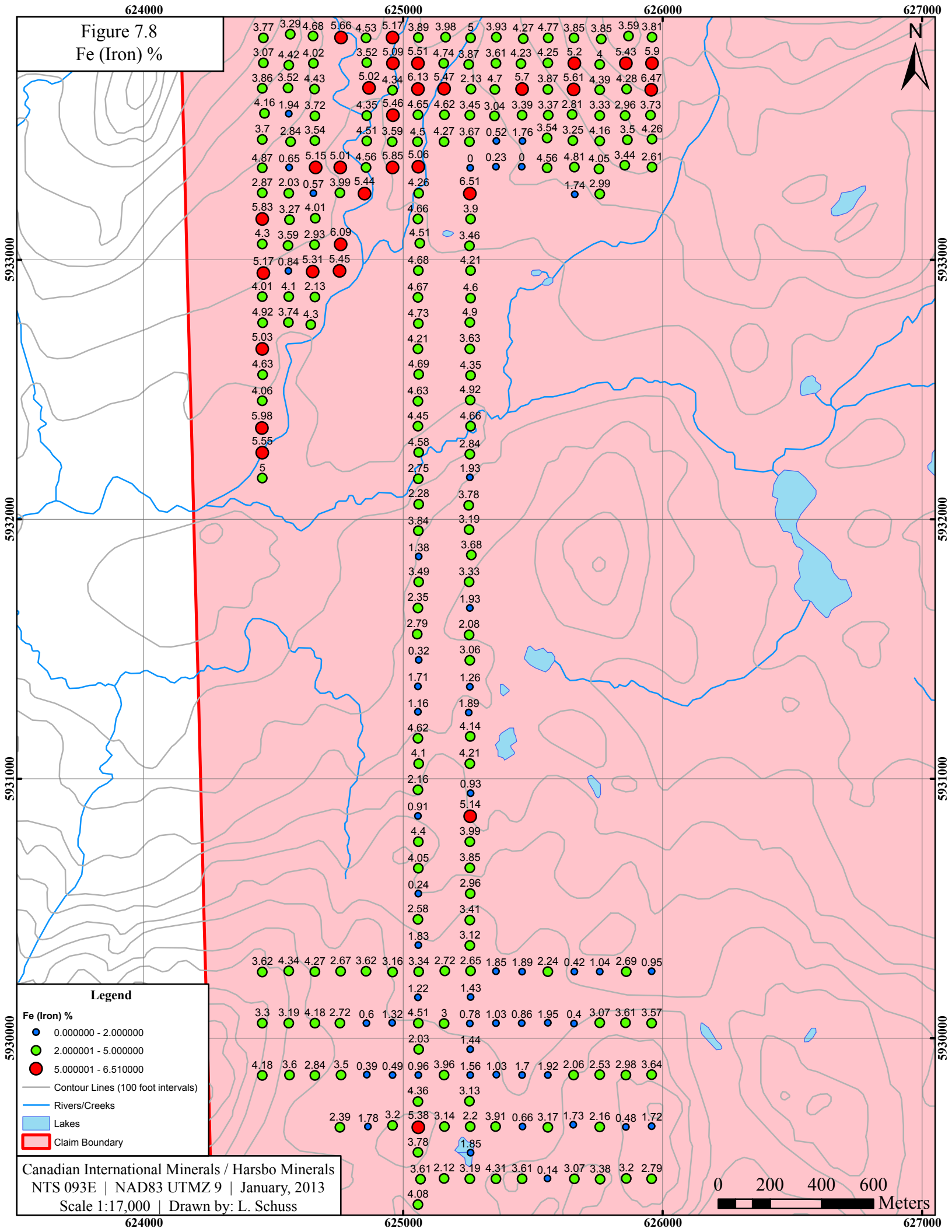
Legend

- Cu (Copper) ppm**
- 0.000000 - 25.000000
 - 25.000001 - 75.000000
 - 75.000001 - 106.300000
 - Contour Lines (100 foot intervals)
 - Rivers/Creeks
 - Lakes
 - Claim Boundary

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 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.8
Fe (Iron) %



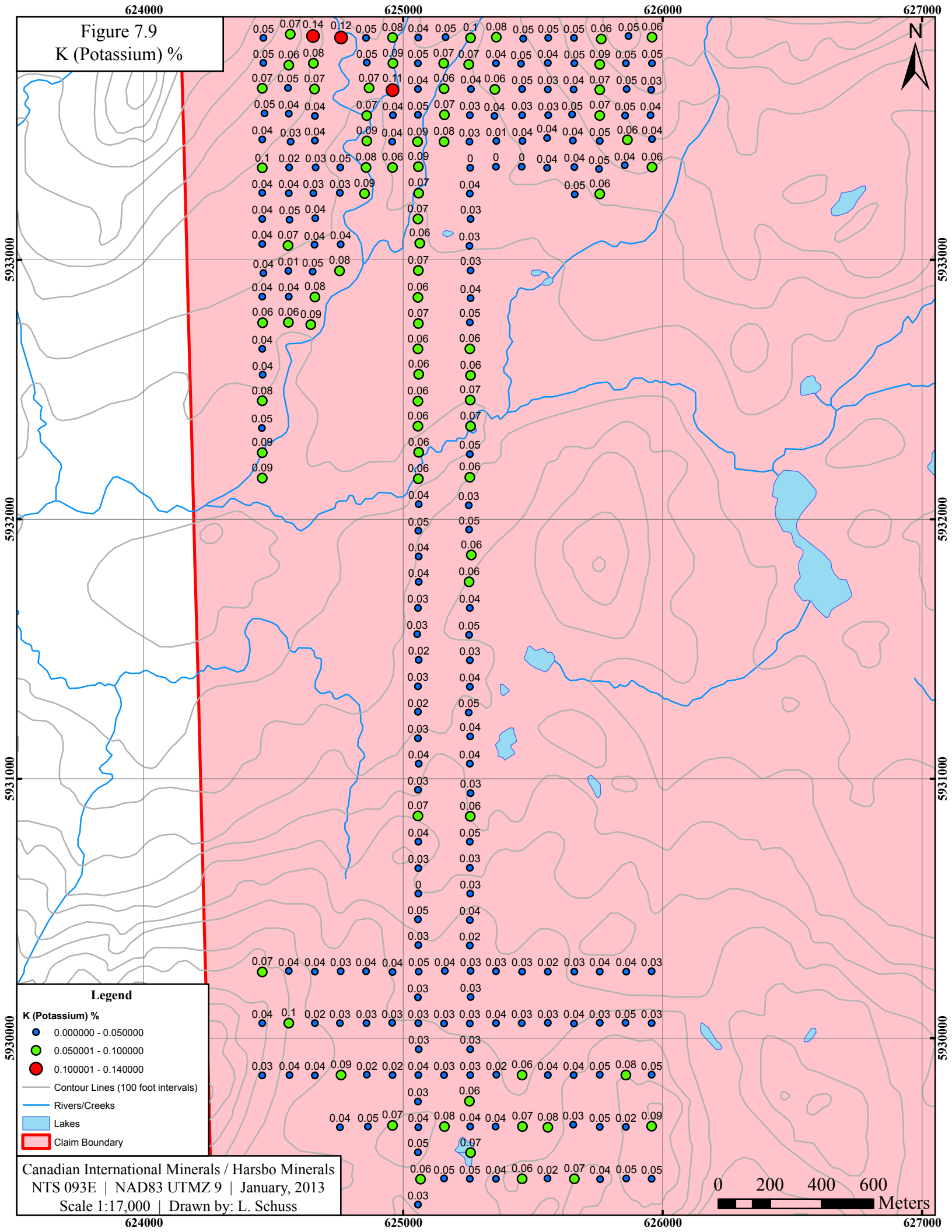
Legend

- Fe (Iron) %
 - 0.000000 - 2.000000
 - 2.000001 - 5.000000
 - 5.000001 - 6.510000
- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss

0 200 400 600 Meters

Figure 7.9
K (Potassium) %



Legend

K (Potassium) %

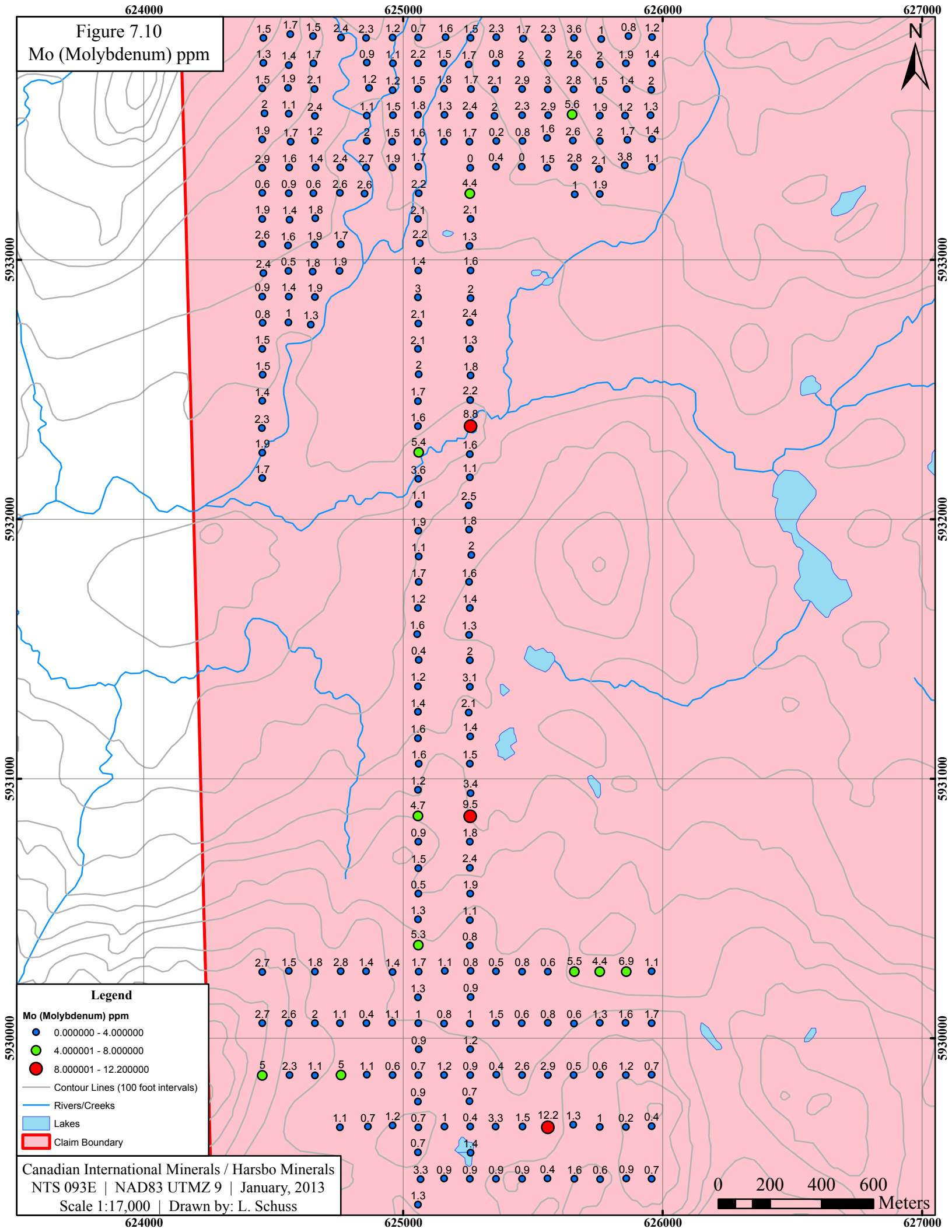
- 0.000000 - 0.050000
- 0.050001 - 0.100000
- 0.100001 - 0.140000

- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss

0 200 400 600 Meters

Figure 7.10
Mo (Molybdenum) ppm



Legend

Mo (Molybdenum) ppm

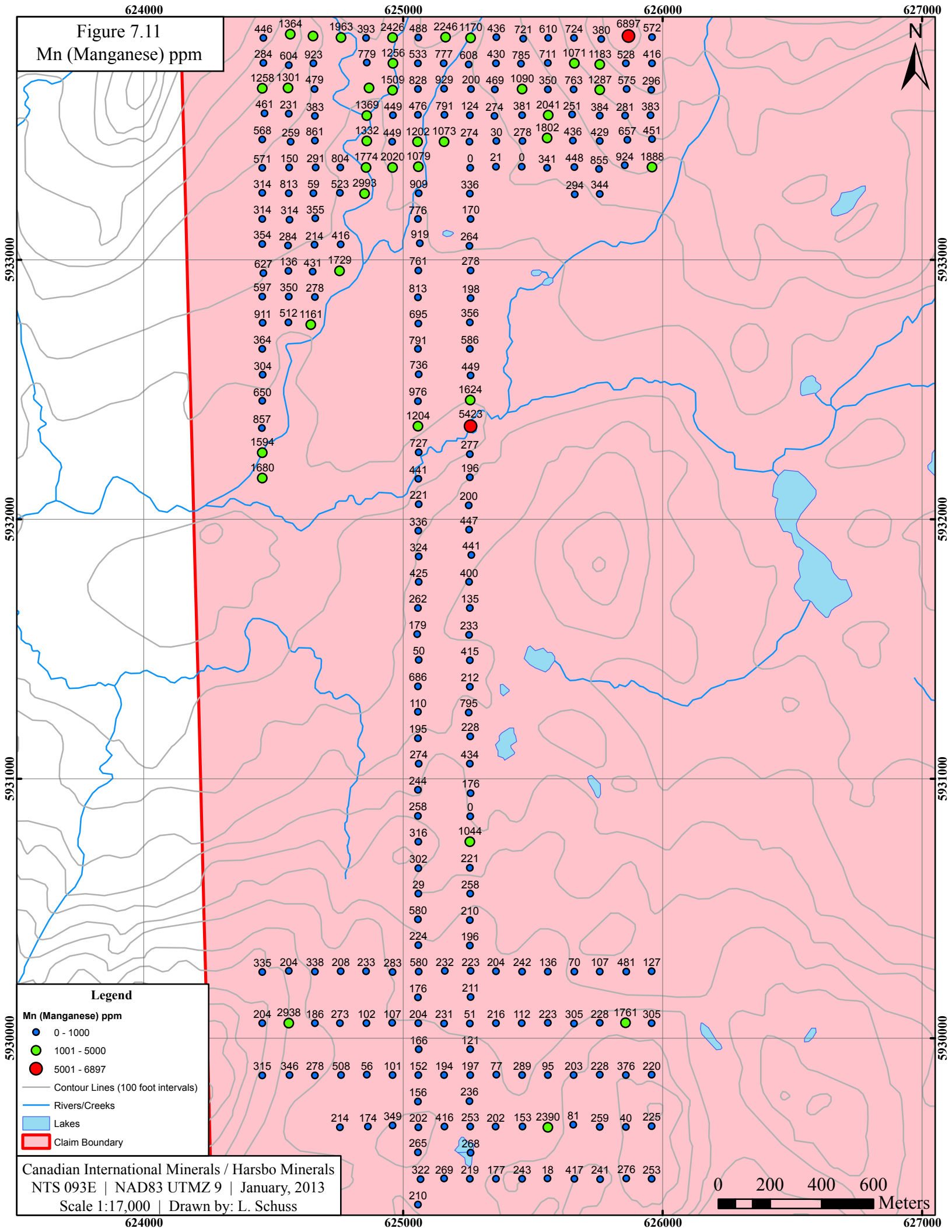
- 0.000000 - 4.000000
- 4.000001 - 8.000000
- 8.000001 - 12.200000

- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.11
Mn (Manganese) ppm



Legend

Mn (Manganese) ppm

- 0 - 1000
- 1001 - 5000
- 5001 - 6897

— Contour Lines (100 foot intervals)

— Rivers/Creeks

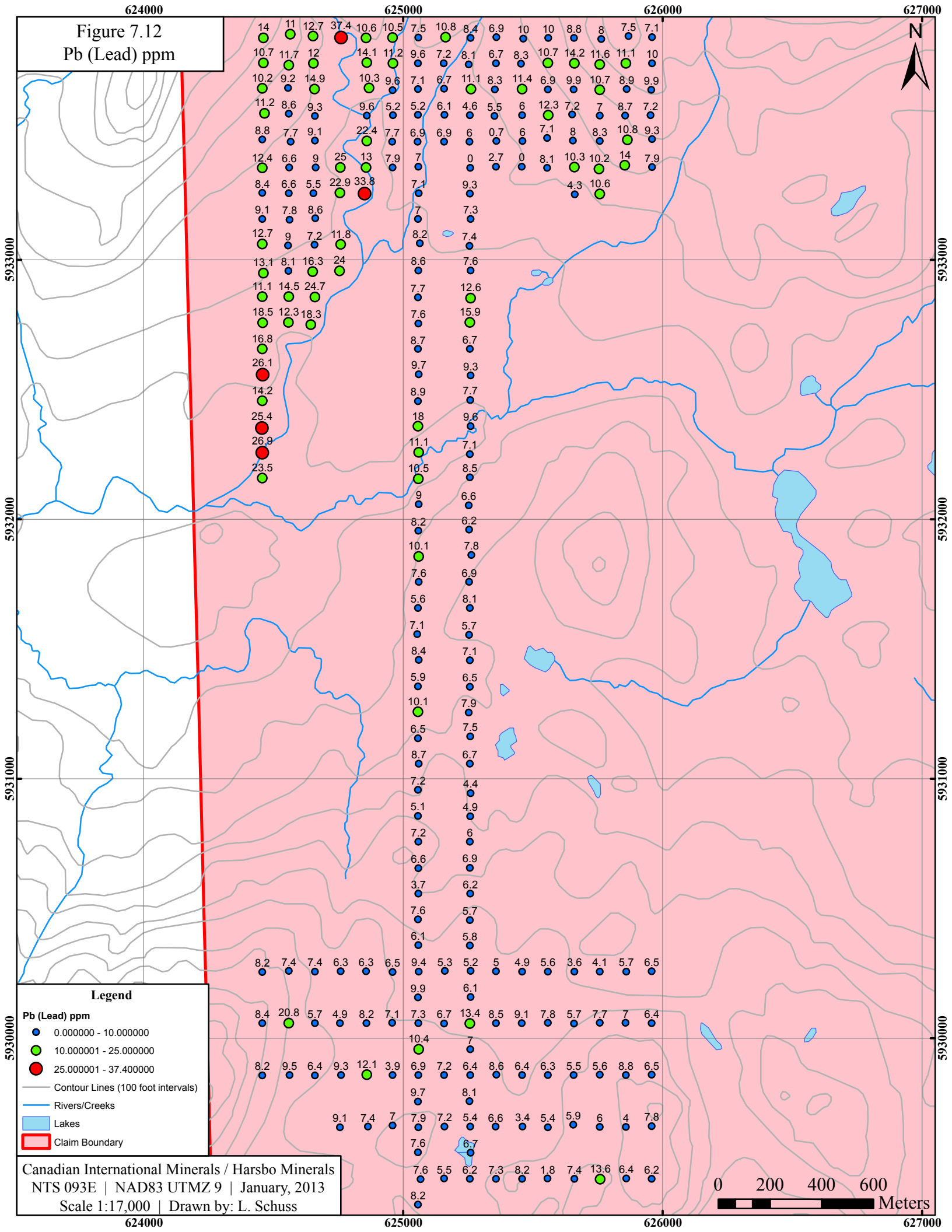
— Lakes

— Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.12
Pb (Lead) ppm



Legend

Pb (Lead) ppm

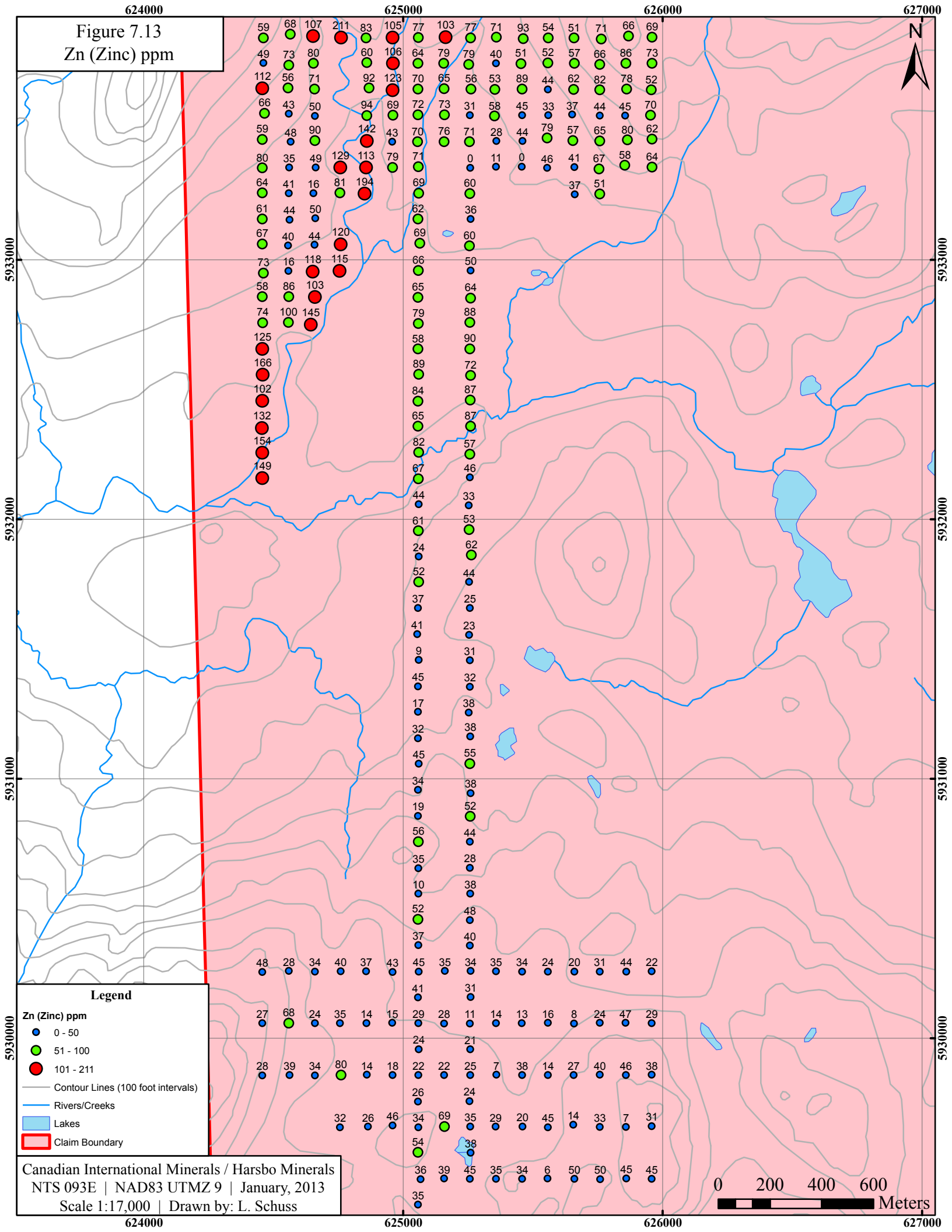
- 0.000000 - 10.000000
- 10.000001 - 25.000000
- 25.000001 - 37.400000

- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
 NTS 093E | NAD83 UTMZ 9 | January, 2013
 Scale 1:17,000 | Drawn by: L. Schuss



Figure 7.13
Zn (Zinc) ppm



UTM Y	624000	625000	626000	
5933000	59 49 112 66 59 80 64 61 67 73 58 74 125 166 102 132 154 149	68 73 80 43 48 35 41 44 40 16 50 118 86 100 81 115 118 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	107 80 71 50 90 49 16 50 44 44 120 115 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	71 40 53 58 28 11 0 46 41 67 58 64 60 36 50 64 88 90 72 87 87 57 46 33 53 62 44 25 23 31 32 38 38 55 44 28 38 48 40 31 14 13 16 8 24 47 29
5932000	112 66 59 80 64 61 67 73 58 74 125 166 102 132 154 149	68 73 80 43 48 35 41 44 40 16 50 118 86 100 81 115 118 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	107 80 71 50 90 49 16 50 44 44 120 115 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	71 40 53 58 28 11 0 46 41 67 58 64 60 36 50 64 88 90 72 87 87 57 46 33 53 62 44 25 23 31 32 38 38 55 44 28 38 48 40 31 14 13 16 8 24 47 29
5931000	27 28 39 34 80 14 18	68 73 80 43 48 35 41 44 40 16 50 118 86 100 81 115 118 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	107 80 71 50 90 49 16 50 44 44 120 115 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	71 40 53 58 28 11 0 46 41 67 58 64 60 36 50 64 88 90 72 87 87 57 46 33 53 62 44 25 23 31 32 38 38 55 44 28 38 48 40 31 14 13 16 8 24 47 29
5930000	27 28 39 34 80 14 18	68 73 80 43 48 35 41 44 40 16 50 118 86 100 81 115 118 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	107 80 71 50 90 49 16 50 44 44 120 115 103 145 129 113 83 60 92 69 43 79 69 62 66 65 79 84 65 82 67 44 61 24 52 37 41 9 45 17 32 45 34 19 56 35 10 52 37 41 29 28 11 14 13 16 8 24 47 29	71 40 53 58 28 11 0 46 41 67 58 64 60 36 50 64 88 90 72 87 87 57 46 33 53 62 44 25 23 31 32 38 38 55 44 28 38 48 40 31 14 13 16 8 24 47 29

Sample Method and Approach

Soil Samples were obtained by using a soil auger. Samples were taken from 6" below the surface, or at the C-horizon level, below significant organic content. Information on the colour, texture, moisture, and location of the sample was recorded.

Silt samples were taken with care to the grain size and organic content in the silt. Where organics or larger grain sizes were taken, details were recorded in sample notes.

Rock samples were obtained from both float and outcrop, and were described in notes.

Sample Preparation and Analysis

The analysis suite chosen for this program was the ICP-ES 34 element suite at ACME consisting of sample splits of up to 0.5 g leached in 95° Aqua Regia.

For the rock samples, the sample preparation consisted of a 1 kg crush with 80% passing a 10 mesh, 250g split with 85% passing a 200 mesh sieve. The silt and soil samples were dried at 60°, with 100g sieved to 80 mesh.

Acme Labs Quality Control and Data Verification:

Acme Labs in Vancouver has its own sets of QA/QC guidelines. An analytical batch comprised of 36 samples QA/QC protocol, incorporates a sample-prep blank (G-1), carried through all stages of preparation and analysis as the first sample; a pulp duplicate to monitor analytical precision, a -10 mesh reject duplicate to monitor sub-sampling variation; a reagent blank to measure background and an aliquot of in-house Standard Reference materials like STD DS7 to monitor accuracy. Raw and final data undergo a final verification by a BC Certified Assayer who signs the Analytical Report before it is released to Canadian International Minerals.

6) DISCUSSION, RECOMMENDATIONS, STATEMENT OF EXPENDITURES & CONCLUSION

6.1) DISCUSSION

The results from the 2012 prospecting and geochemical program delineated multiple geochemical and prospecting targets. The prospecting returned significant values in copper and gold as well as anomalous silver and manganese. Primarily, the mineralized samples were located in the south of the claims, around Core Mountain; Thick cover to the north limited access to outcrops and substantial float therefore the area still warrants further exploration.

Soil geochemistry indicated a trend of mineralization in the north over an area mapped as a granite intrusion; similar granite contacts in neighbouring claims are being extensively explored.

6.2) RECOMMENDATIONS

As there is very limited outcrop on the property, geophysical and geochemical surveys in conjunction with prospecting and mapping are recommended to delineate further targets.

Results from the 2012 silt and soil program have generated a few targets, notably in the north around the mapped granite intrusion with coincident copper-gold anomalies. Following up on mineralized float samples found in 2012 is recommended, as is a continuation of the Core Mountain prospecting and mapping; however steep terrain may limit this. If terrain permits it, a detailed soil survey over Core Mountain would be ideal, however even multiple soil lines could help identify the source of mineralized float in the area.

An airborne Induced Polarity (IP) geophysical survey over the claims would be beneficial in identifying key conductors to aid in further targeting. In the surrounding area, the potential for mineralization is increased by coincident geochemical and geophysical anomalies. TDEM and Magnetometer surveys performed on surrounding properties did not effectively delineate correlations with mineralization, and therefore should not be a priority. Possible cost saving methods would be to conduct the survey in conjunction with another company in the area (Callinex, St Elias, Paget, Guardsmen, etc).

6.3) CONCLUSION

During eight days in August 2012, 10 rock samples, 16 silt samples, and 259 soil samples were taken. The soil program focused on the northern and central portion of the property which was underlain by a granite intrusion. The prospecting targeted the north as well as previous mineralization found to the south on Core Mountain. Anomalous assay results were returned for soils in the north, and many were coincident within a specific area. Mineralization in float as well as in outcrop was located primarily on Core Mountain and also to the north; however significant vegetative ground cover disadvantaged the location of outcrop and float. According to the results from the 2012 program, the property warrants further exploration as per the recommendations by the author.

6.4) STATEMENT OF EXPENDITURES

Item	Cost
<hr/>	
<i>Accommodation/Food</i>	
Camp	\$8,133.38
Hotel	\$309.00
Food	\$199.90
<i>Wages</i>	
Geologist - office	\$2,340.00
Geologist-field	\$5,400.00
Field assistant 1	\$2,700.00
Field assistant 2	\$2,700.00
Field assistant 3	\$1,800.00
<i>Travel</i>	
Truck rental	\$725.00
Truck fuel	\$367.01
Helicopter	\$5,256.88
Flights	\$2,367.75
Assays - Aqua Regia ICP-ES, ICP-MS	\$8,002.41
Gear	\$84.55
Communications	\$265.00
<hr/>	
<i>Sub-total</i>	\$40,650.88
<i>HST</i>	\$4,850.80
<hr/>	
TOTAL	\$45,501.68

7) STATEMENT OF QUALIFICATION

I, Laurel Arness, graduated from The University of Victoria in 2008 with a B.Sc. in Earth and Ocean Sciences. I have practiced my profession as a geologist since 2008 and have worked on mineral exploration projects throughout western Canada and Australia. I am registered with APEGBC as a Geoscientist in Training.

8) REFERENCES

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Welcome North Mines Ltd. 1980 BC Assessment Report 09066

APPENDIX I
2012 SOIL SURVEY RESULTS

Appendix I: 2012 Soil Results

All Coordinates in UTM NAD83 Zone 9.

Sample	Easting	Northing	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Mn (ppm)	As (ppm)	Au (ppb)	Ba (ppm)	Comments	Sample depth (cm)	Soil Color
CG-K09	625460	5929659	1.5	6.8	3.4	20	0.1	153	0.9	5.3	37		35	Light Brown
CG-J47	625360	5933458	0.2	7	0.7	28	<0.1	30	8.6	<0.5	101	Mud	70	Medium Brown
CG-I41	625260	5932853	2	14.1	12.6	64	0.2	198	6.6	<0.5	36		30	Light Brown
CG-P49	625957	5933655	2	7.5	9.9	52	0.2	296	4.9	0.9	60		30	Light Brown
CG-I45	625257	5933256	4.4	14.4	9.3	60	0.2	336	9	<0.5	38		40	Light Brown
CG-B43	624556	5933055	1.6	8.9	9	40	0.3	284	9	<0.5	64	Some clay	30	Light Brown
CG-D43	624760	5933059	1.7	16.8	11.8	120	0.4	416	24.9	<0.5	47		20	Light Brown
CG-I40	625258	5932759	2.4	20.9	15.9	88	0.4	356	22.7	<0.5	77	Large clearing	40	Medium Brown
CG-P09	625959	5929660	0.4	11.3	7.8	31	0.2	225	2.7	1.7	58		40	Medium Brown
CG-A39	624458	5932656	1.5	18.3	16.8	125	0.4	364	19.1	2.8	56		20	Light Brown
CG-A40	624459	5932757	0.8	13.4	18.5	74	0.3	911	14.3	0.6	64		30	Light Brown
CG-G10	625058	5929755	0.9	10.4	9.7	26	0.2	156	6.6	0.5	37		40	Medium Brown
CG-K07	625459	5929457	0.9	10	8.2	34	0.2	243	5.7	2	50		30	Light Brown
CG-C15	624660	5930256	1.8	11.4	7.4	34	0.2	338	12.7	1	51		30	Light Brown
CG-I19	625258	5930656	2.4	6.9	6.9	28	0.1	221	8.2	1.5	32		25	Light brown
CG-G25	625058	5931257	1.4	3.5	10.1	17	<0.1	110	3	<0.5	50	Some clay	30	Medium Brown
CG-A46	624457	5933354	2.9	71.9	12.4	80	0.6	571	14.2	3.9	91		20	Light Brown
CG-G50	625058	5933758	2.2	21.3	9.6	64	0.2	533	12.1	0.6	68		40	Light Brown
CG-J49	625354	5933657	2.1	17.6	8.3	53	0.2	469	8.6	<0.5	61		40	Medium Brown
CG-M46	625660	5933358	2.8	44.8	10.3	41	0.8	448	10.8	2.4	68		30	Dark Brown
CG-G09	625059	5929656	0.7	9.2	7.9	34	0.1	202	9.4	<0.5	38		30	Light Brown
CG-B15	624560	5930258	1.5	9.8	7.4	28	0.4	204	7.6	0.5	40		35	Light Brown
CG-M49	625658	5933657	2.8	29.4	9.9	62	0.3	763	12.2	<0.5	67		35	Dark Brown
CG-B44	624563	5933155	1.4	9.5	7.8	44	0.2	314	6.6	1.6	62		20	Medium Brown
CG-G12	625060	5929957	0.9	7	10.4	24	0.2	166	4.2	2.2	30		30	Medium Brown
CG-A13	624458	5930057	2.7	7.9	8.4	27	0.2	204	4.2	1.5	62		30	Light Brown
CG-A45	624458	5933258	0.6	8.3	8.4	64	<0.1	314	7.4	<0.5	97	Some clay	30	Light Brown
CG-I25	625254	5931255	2.1	8.4	7.9	38	0.2	795	3	2.3	84	Poor soil development	30	Light grey/brown
CG-A43	624457	5933061	2.6	22.8	12.7	67	1	354	10.2	1.1	125	Muddy	30	Medium Brown
CG-E49	624869	5933662	1.2	26.7	10.3	92	0.3	2000	11.1	<0.5	187		45	Medium Brown
CG-F46	624959	5933356	1.9	22.8	7.9	79	0.3	2020	14.2	1.8	66		35	Medium Brown
CG-C42	624651	5932954	1.8	19	16.3	118	0.4	431	36.8	0.6	69		20	Light Brown
CG-P50	625960	5933758	1.4	23	10	73	0.4	416	16	<0.5	82		30	Light Brown
CG-A48	624466	5933565	2	52.1	11.2	66	0.6	461	12.8	<0.5	57		30	Dark Brown
CG-L50	625559	5933759	2	34.1	10.7	52	0.3	711	11.9	<0.5	54		50	Medium Brown
CG-A44	624458	5933158	1.9	16.2	9.1	61	0.1	314	12.5	<0.5	70		30	Light Brown
CG-B50	624560	5933751	1.4	50.7	11.7	73	0.5	604	12.9	0.9	69		40	Light Brown
CG-G32	625059	5931955	1.9	15.1	8.2	61	0.2	336	10.5	<0.5	74		40	Light Brown
CG-I08	625260	5929557	1.4	17	6.7	38	0.3	268	4.9	2.1	116	In swamp, thick mud	70	Dark Brown
CG-P51	625960	5933859	1.2	11.3	7.1	69	0.2	572	7.3	<0.5	81		45	Medium Brown
CG-A15	624457	5930255	2.7	13.5	8.2	48	0.2	335	5.2	1.1	80		35	Light Brown
CG-G17	625058	5930457	1.3	9.1	7.6	52	0.1	580	4.9	0.8	95		20	Grey/brown
CG-L51	625560	5933856	2.3	33.9	10	54	0.4	610	12.6	<0.5	87		50	Dark Brown
CG-I42	625260	5932959	1.6	12.2	7.6	50	0.2	278	6.8	<0.5	50		70	Light grey/brown

CG-I31	625264	5931862	2	20.5	7.8	62	0.4	441	11.7	1.6	70	Some clay tough digging, very rocky	25	Dark Brown
CG-I44	625260	5933158	2.1	13.5	7.3	36	0.4	170	7.1	3.2	36		25	Light Brown
CG-G19	625059	5930655	1.5	9	6.6	35	<0.1	302	7.6	1.1	82	Some clay	40	Medium Brown
CG-G28	625055	5931557	1.6	10.8	7.1	41	0.1	179	7.6	<0.5	50		30	Light Brown
CG-O51	625869	5933863	0.8	6	7.5	66	0.1	6897	2.4	<0.5	94		35	Light Brown
CG-I10	625256	5929757	0.7	5.3	8.1	24	0.1	236	7.1	0.6	67	Bottom of rock face, rocky	45	Dark Brown/Grey
CG-L46	625556	5933354	1.5	14.2	8.1	46	0.2	341	11.1	1.5	77		Near swamp, mud, some clay	35
CG-E50	624861	5933760	0.9	12.7	14.1	60	0.2	779	11.2	<0.5	76	Organics	40	brown/grey
CG-N48	625759	5933556	1.9	23.5	7	44	0.2	384	10.6	0.8	57		40	Medium Brown
CG-H11	625159	5929857	1.2	6.2	7.2	22	0.2	194	9.4	0.8	38	Some clay	30	Medium Brown
CG-D46	624758	5933356	2.4	24.4	25	129	0.2	804	51.8	2.6	90		20	Medium Brown
CG-E51	624857	5933855	2.3	29.6	10.6	83	0.2	393	13.3	0.7	91	Some clay	40	Light Brown
CG-A38	624459	5932557	1.5	17.6	26.1	166	0.3	304	21.8	1.2	52		20	Light Brown
CG-N49	625758	5933655	1.5	36.4	10.7	82	0.3	1287	17.9	2.9	183	Top of mossy hill	55	Dark Brown
CG-F48	624961	5933557	1.5	18.6	5.2	69	0.8	449	10	1.7	55		30	Light Brown
CG-C50	624654	5933757	1.7	28.3	12	80	0.5	923	13.5	2.7	160	Mud, underground creek	20	Light Brown
CG-O49	625862	5933658	1.4	14.6	8.9	78	0.2	575	8	2.4	103		40	Medium Brown
CG-P47	625960	5933465	1.4	19.4	9.3	62	0.2	451	10.8	<0.5	69	Very dry	50	Light Brown
CG-J07	625359	5929457	0.9	11.4	7.3	35	0.7	177	6.6	1.7	36		30	Light Brown
CG-C46	624663	5933356	1.4	16.5	9	49	0.2	291	14.9	2.2	48	Mud, underground creek	20	Light Brown
CG-I49	625262	5933659	1.7	75	11.1	56	0.9	200	6.9	2.4	101		90	Dark Brown
CG-I17	625257	5930455	1.1	9.7	5.7	48	0.1	210	7.3	<0.5	35	Very dry	40	Light brown
CG-N46	625755	5933350	2.1	31.8	10.2	67	0.4	855	10.7	4.8	69		40	Light Brown
CG-M07	625661	5929457	1.6	14.8	7.4	50	0.2	417	6.3	2.4	65	Rocky	30	Medium Brown
CG-N50	625759	5933753	2	39	11.6	66	0.4	1183	11.6	<0.5	221		25	Dark Brown
CG-D09	624757	5929656	1.1	23.4	9.1	32	0.2	214	4.3	3.3	37	Rocky	30	Medium Brown
CG-G24	625058	5931156	1.6	9	6.5	32	0.1	195	9.8	<0.5	41		30	Light Brown
CG-O07	625860	5929459	0.9	10.1	6.4	45	0.3	276	4	1.6	45	Rocky	30	Light Brown
CG-G36	625058	5932358	1.6	22.8	18	65	0.2	1204	10	1.5	76		20	Dark Brown
CG-C48	624661	5933555	2.4	15.9	9.3	50	0.2	383	11	<0.5	97	Rocky	30	Light Brown
CG-G07	625067	5929456	3.3	18.5	7.6	36	0.3	322	8.3	1.9	58		30	Light Brown
CG-I27	625257	5931456	2	16.9	7.1	31	0.4	415	11.4	1.5	46	Rocky	25	Medium Brown
CG-E15	624858	5930257	1.4	11.1	6.3	37	0.2	233	8.8	1.8	43		40	Light Brown
CG-A47	624458	5933464	1.9	28.7	8.8	59	0.3	568	11.2	1.3	58	Rocky	40	Light Brown
CG-I18	625259	5930557	1.9	9.6	6.2	38	0.3	258	4.6	1.5	42		20	Medium Brown
CG-G33	625060	5932058	1.1	9.5	9	44	0.2	221	6	0.8	46	Rocky	40	Light Brown
CG-K50	625455	5933756	2	27.4	8.3	51	0.3	785	8.4	<0.5	81		55	Dark Brown
CG-A51	624462	5933856	1.5	47.3	14	59	0.5	446	10.5	<0.5	50	Rocky	20	Dark Brown
CG-J50	625359	5933758	0.8	14.8	6.7	40	0.3	430	7.6	<0.5	73		50	Grey/brown
CG-B45	624559	5933257	0.9	7.6	6.6	41	0.1	813	3.5	0.8	117	Rocky	30	Grey/brown
CG-H13	625159	5930056	0.8	9	6.7	28	0.3	231	4.8	1	42		30	Grey/Brown
CG-I20	625258	5930757	1.8	9.8	6	44	0.3	1044	7.9	0.8	60	Some clay	25	Grey/brown
CG-E13	624859	5930057	0.4	4.1	8.2	14	0.1	102	2.6	1.1	47		40	Medium Brown
CG-E09	624865	5929658	0.7	5.5	7.4	26	0.1	174	5	2	39	Some clay	30	Medium Brown
CG-I12	625259	5929957	1.2	7.9	7	21	0.2	121	5.3	1.1	38		40	Dark
CG-K13	625458	5930057	0.6	3.5	9.1	13	0.2	112	3.6	<0.5	27	Some clay	20	Brown/Grey
CG-A36	624456	5932352	2.3	22.3	25.4	132	0.1	857	42.4	1.5	76		30	Medium Brown
CG-C40	624645	5932750	1.3	20.7	18.3	145	0.2	1161	22.7	<0.5	109	Some clay	30	Light Brown
CG-B40	624558	5932759	1	22.9	12.3	100	0.6	512	11.8	3.6	83		30	Medium Brown
CG-D45	624757	5933258	2.6	21.1	22.9	81	0.4	523	39.3	<0.5	63	Some clay	30	Light Brown
													30	Light brown

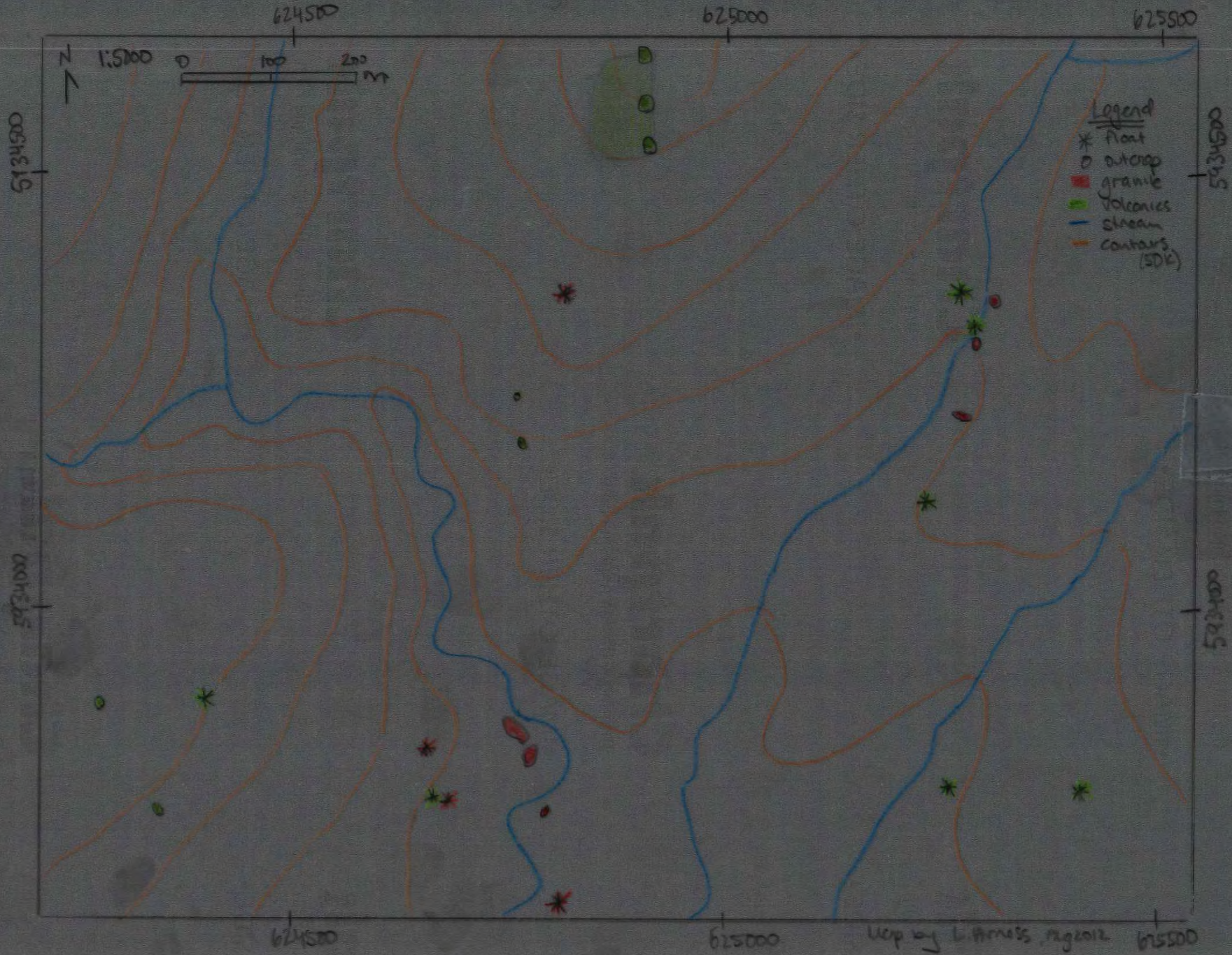
CG-O46	625855	5933364	3.8	58.4	14	58	1.1	924	8.5	1.9	95		40	Dark Brown
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CG-C51	624653	5933862	1.5	50.9	12.7	107	0.1	1445	17.3	4.4	163	Some clay	35	Medium Brown
CG-K51	625463	5933853	1.7	32.8	10	93	0.3	721	12.8	1.9	181		55	Medium Brown
CG-G15	625060	5930256	1.7	26.7	9.4	45	0.3	580	17.2	2.5	64		40	Medium Brown
CG-N51	625764	5933851	1	20.3	8	71	0.1	380	10.5	<0.5	132		50	Light Brown
CG-B41	624560	5932858	1.4	17.8	14.5	86	0.2	350	27.8	<0.5	63		40	Light Brown
CG-G51	625059	5933857	0.7	19.8	7.5	77	0.2	488	10.6	<0.5	45		35	Grey/brown
CG-G38	625060	5932559	2	25.4	9.7	89	0.1	736	16.5	<0.5	62		35	Dark Brown
CG-I48	625258	5933558	2.4	11.1	4.6	31	0.2	124	4.9	1.8	79		47	Light Brown
CG-H09	625160	5929659	1	28.9	7.2	69	<0.1	416	6.4	2.6	103		40	Grey
CG-G08	625058	5929559	0.7	10.1	7.6	54	0.1	265	7.5	1.1	60		40	Light Brown
CG-N47	625758	5933458	2	24.4	8.3	65	0.2	429	13.2	1.9	62		50	Medium Brown
CG-G23	625061	5931058	1.6	15.3	8.7	45	0.4	274	15.2	1.2	47		40	Light Brown
CG-G39	625058	5932656	2.1	23.8	8.7	58	0.2	791	11.6	<0.5	84		20	Light Brown
CG-G06	625058	5929358	1.3	8	8.2	35	0.1	210	7.2	1.4	31		40	Light Brown
CG-J48	625353	5933554	2	17.5	5.5	58	0.5	274	9.9	0.9	54		40	Light Brown
CG-G20	625059	5930757	0.9	12.5	7.2	56	<0.1	316	9.3	0.6	41		40	Medium Brown
CG-C11	624660	5929856	1.1	11.7	6.4	34	0.4	278	6	1.8	46	Some clay	40	Light Brown
CG-G30	625060	5931758	1.7	21.7	7.6	52	0.2	425	10.9	<0.5	51		35	Medium Brown
CG-P13	625958	5930057	1.7	16	6.4	29	0.5	305	8	2.2	32		30	Medium Brown
CG-C44	624662	5933160	1.8	17	8.6	50	0.2	355	12	<0.5	73		20	Medium Brown
CG-K11	625459	5929857	2.6	10	6.4	38	0.1	289	3.4	1.4	72	Some clay	30	Light Brown
CG-P11	625959	5929858	0.7	13.2	6.5	38	1.1	220	7.8	2	41		40	Light Brown
CG-A37	624458	5932456	1.4	19.2	14.2	102	0.1	650	19.3	0.9	86		20	Light Brown
CG-F47	624958	5933456	1.5	16.7	7.7	43	0.2	449	10.7	<0.5	45		35	Light Brown
CG-N07	625760	5929456	0.6	9.5	13.6	50	0.7	241	5.1	1.3	33		20	Light Brown
CG-I14	625261	5930158	0.9	33.2	6.1	31	0.4	211	4.1	1.4	50	Mud, Some clay, middle of clearing	45	Dark Brown
CG-L49	625558	5933657	3	22.9	6.9	44	0.2	350	10.1	14.5	39		45	Medium Brown
CG-H07	625159	5929458	0.9	7.7	5.5	39	0.2	269	4.9	5.8	52		40	Medium Brown
CG-I24	625259	5931163	1.4	12.8	7.5	38	0.2	228	12	1.2	66	Poor soil development	40	Light grey/brown
CG-I07	625257	5929457	0.9	12.3	6.2	45	0.2	219	4.6	0.9	47		30	Light Brown
CG-B11	624563	5929857	2.3	45.5	9.5	39	0.4	346	9.7	1.3	67		40	Dark Brown
CG-I32	625255	5931960	1.8	18.1	6.2	53	0.5	447	10.6	<0.5	49	Some clay	40	Dark Brown
CG-G22	625058	5930957	1.2	14.3	7.2	34	0.1	244	8.4	0.9	45		30	Medium Brown
CG-I30	625255	5931758	1.6	21.1	6.9	44	0.5	400	8.8	0.5	69	Organics, some clay	35	Light Brown
CG-M48	625652	5933560	5.6	42.6	7.2	37	0.6	251	8.9	1.3	46		35	Dark Brown
CG-I11	625259	5929857	0.9	7.9	6.4	25	<0.1	197	5.4	1.5	43	Some clay, bit sandy	40	Grey
CG-O48	625857	5933556	1.2	28.5	8.7	45	0.3	281	8.9	1.5	130		35	Dark Brown
CG-F13	624958	5930058	1.1	5.4	7.1	15	<0.1	107	2.2	0.7	56		20	Medium Brown
CG-G31	625060	5931856	1.1	5	10.1	24	0.3	324	6.1	<0.5	54	Some clay	20	Light Brown
CG-L11	625559	5929857	2.9	5.4	6.3	14	0.1	95	4.1	1.7	37		35	Medium Brown
CG-I13	625258	5930056	1	106.3	13.4	11	0.7	51	3	<0.5	53	Mud, very cold	65	Medium Brown
CG-B13	624559	5930057	2.6	21.6	20.8	68	0.2	2938	5.8	<0.5	246		30	Medium Brown
CG-G14	625057	5930157	1.3	26.9	9.9	41	0.8	176	9.7	2.1	74		60	Medium Brown
CG-L48	625560	5933557	2.9	67.5	12.3	33	0.9	2041	9.4	0.9	61	Rich soil	50	Very Dark Brown
CG-I51	625260	5933856	1.5	45.9	8.4	77	<0.1	1170	16.5	1.3	221		40	Medium Brown
CG-F51	624960	5933857	1.2	35.6	10.5	105	0.2	2426	10.8	0.5	118		30	Medium Brown
CG-G40	625059	5932755	2.1	33.5	7.6	79	<0.1	695	13.9	0.8	53		40	Light Brown
CG-A49	624458	5933661	1.5	21.9	10.2	112	0.1	1258	12.3	1	130		20	Light Brown
CG-G37	625057	5932455	1.7	35.7	8.9	84	<0.1	976	14.6	1.3	61		35	Medium Brown
CG-G43	625065	5933064	2.2	36.1	8.2	69	<0.1	919	15.6	1.2	70		30	Light Brown

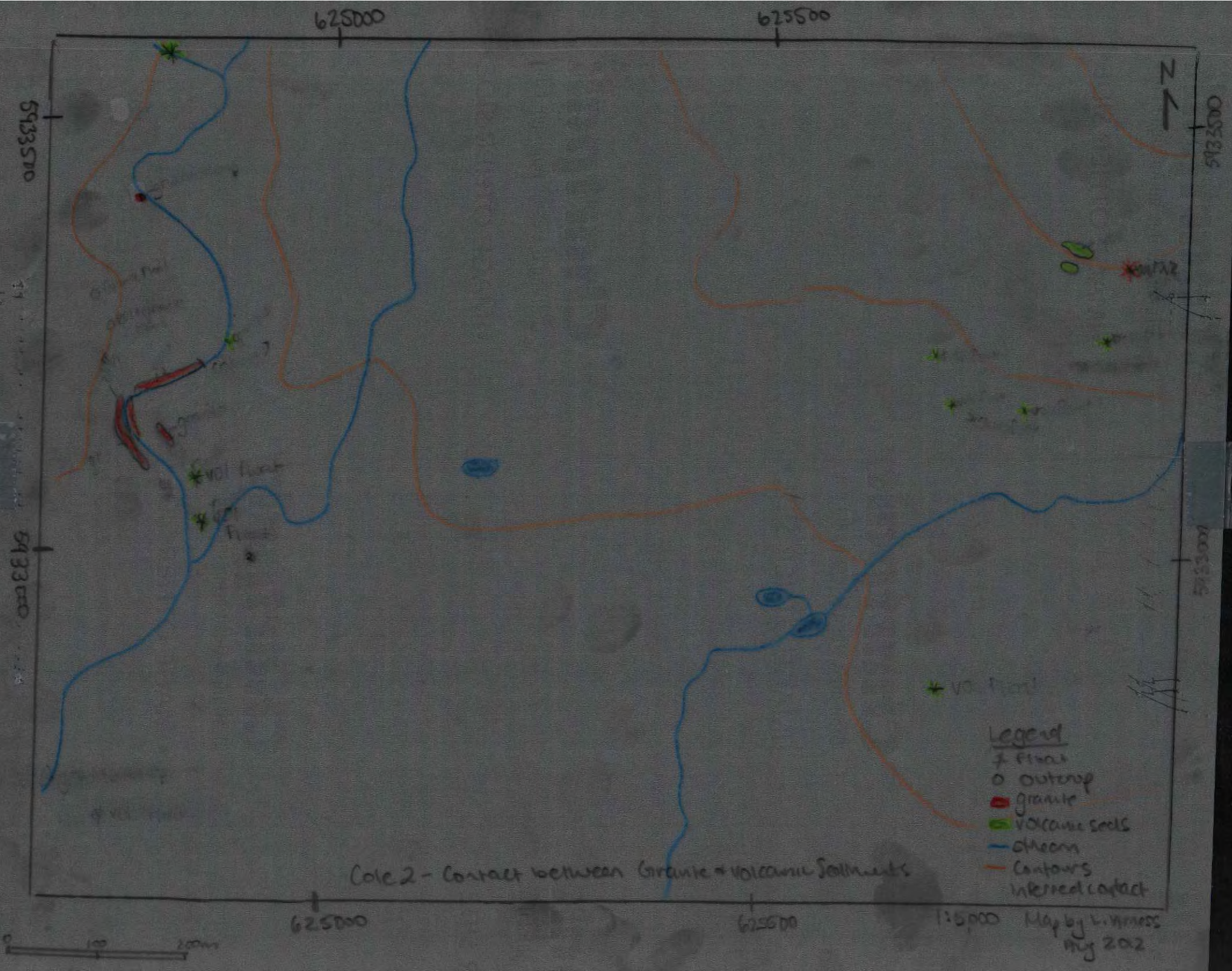
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CG-G35	625060	5932258	5.4	26.7	11.1	82	0.2	727	25.7	1.2	108		40	Medium Brown
CG-G34	625059	5932156	3.6	25.2	10.5	67	0.1	441	7.8	<0.5	74	Some clay	60	Grey
CG-I47	625256	5933455	1.7	17.6	6	71	0.3	274	8.9	0.6	52		20	Light brown
CG-G41	625058	5932855	3	23.6	7.7	65	0.1	813	13.2	<0.5	77		30	Light Brown
CG-G42	625059	5932959	1.4	23.9	8.6	66	0.2	761	15.2	<0.5	112		35	Medium Brown
CG-H48	625160	5933559	1.3	32	6.1	73	0.1	791	14.7	2.1	59		45	Medium Brown
CG-P07	625959	5929457	0.7	17.5	6.2	45	0.6	253	6.9	5.1	54		25	Light Brown
CG-A41	624458	5932858	0.9	22.9	11.1	58	0.3	597	14	0.7	58		30	Light Brown
CG-I43	625256	5933054	1.3	20.1	7.4	60	0.3	264	8.3	1.3	40		30	Light grey/brown
CG-K48	625459	5933558	2.3	19.2	6	45	0.4	381	13.4	1.4	47		40	Medium Brown
CG-O47	625865	5933462	1.7	26.6	10.8	80	0.3	657	11.5	<0.5	79		60	Medium Brown
CG-N09	625758	5929657	1	8.9	6	33	0.3	259	4.1	2.1	44		30	Medium Brown
CG-C47	624660	5933460	1.2	18.2	9.1	90	0.1	861	16	<0.5	75		20	Light Brown
CG-K15	625459	5930256	0.8	12.6	4.9	34	<0.1	242	6.6	0.7	36	Some clay	50	Light Brown
CG-O15	625860	5930256	6.9	11.3	5.7	44	0.1	481	7.7	0.5	69		40	Light Brown
CG-I16	625258	5930357	0.8	9.7	5.8	40	0.3	196	6.4	11.4	30	Dry	25	Light brown
CG-M47	625655	5933460	2.6	38.3	8	57	0.5	436	10.7	<0.5	46		45	Dark Brown
CG-M51	625659	5933855	3.6	23.6	8.8	51	0.2	724	12.3	0.6	80		55	Dark Brown
CG-J09	625357	5929658	3.3	10.9	6.6	29	0.3	202	8.9	2.7	52		100	Medium Brown
CG-L15	625559	5930256	0.6	6.5	5.6	24	0.1	136	4.9	0.6	25		20	Light Brown
CG-B47	624567	5933456	1.7	16	7.7	48	0.2	259	10.4	<0.5	66		30	Light Brown
CG-L47	625556	5933470	1.6	16.8	7.1	79	0.2	1802	14.2	<0.5	83		40	Light Brown
CG-K47	625460	5933458	0.8	15.6	6	44	0.2	278	5.2	3	40	Very wet	40	Dark Brown
CG-N13	625758	5930058	1.3	16.2	7.7	24	0.7	228	6.9	9.3	32		55	Light Brown
CG-G26	625057	5931356	1.2	7.6	5.9	45	0.2	686	4.6	<0.5	49	Some Clay	35	Medium Brown
CG-G29	625058	5931658	1.2	18.8	5.6	37	0.4	262	6.8	<0.5	35		30	Medium Brown
CG-I34	625258	5932162	1.1	10	8.5	46	0.6	196	3.7	<0.5	72		30	Medium Brown
CG-M09	625656	5929665	1.3	5.3	5.9	14	0.4	81	1.9	2.2	55		20	Medium Brown
CG-I28	625255	5931554	1.3	6.8	5.7	23	<0.1	233	4.4	<0.5	49		25	Light grey/brown
CG-B42	624558	5932958	0.5	6.2	8.1	16	0.3	136	1.1	1.1	80	Some clay	40	Dark Brown
CG-M45	625662	5933253	1	5.5	4.3	37	0.7	294	1.6	<0.5	77		25	Dark Brown
CG-I29	625258	5931658	1.4	11.3	8.1	25	0.2	135	3.8	<0.5	57		30	Dark Brown
CG-P46	625960	5933357	1.1	19	7.9	64	0.2	1888	2.5	1.7	159	Rocky, organics	35	Medium Brown
CG-C41	624660	5932857	1.9	34.6	24.7	103	0.3	278	12.9	7.7	110	Muddy	30	Dark brown
CG-D42	624756	5932958	1.9	33.9	24	115	0.4	1729	40.4	<0.5	107		20	Dark Brown
CG-I36	625260	5932359	8.8	25.8	9.6	87	0.2	5423	22.5	2.4	197		40	Dark Brown
CG-C43	624659	5933058	1.9	4.9	7.2	44	0.2	214	7.9	<0.5	39		30	Light Brown
CG-P15	625959	5930257	1.1	10.6	6.5	22	0.3	127	1.6	1.6	52		40	Medium Brown
CG-A50	624461	5933759	1.3	71.7	10.7	49	0.8	284	5.7	<0.5	93		30	Medium Brown
CG-B48	624560	5933563	1.1	42.1	8.6	43	0.8	231	6.8	1.6	59		50	Dark Brown
CG-F49	624960	5933654	1.2	45.3	9.6	123	0.1	1509	10.7	1.6	237		30	Medium Brown
CG-E48	624861	5933556	1.1	44.9	9.6	94	0.1	1369	12.6	<0.5	180		55	Medium Brown
CG-G46	625059	5933359	1.7	45	7	71	<0.1	1079	15.5	2	173		30	Light Brown
CG-E47	624861	5933458	2	41.4	22.4	142	0.2	1332	37.5	0.5	157	1m away from river, 1m above water line	40	Light Brown
CG-H49	625158	5933660	1.8	41	6.7	65	<0.1	929	16.8	4.9	204		30	Medium Brown
CG-A35	624458	5932257	1.9	38	26.9	154	0.2	1594	41.7	4	136		30	Light Brown
CG-I50	625253	5933754	1.7	37.7	8.1	79	0.2	608	14.8	0.7	87		65	Medium Brown
CG-G45	625060	5933257	2.2	29.9	7.1	69	0.2	909	13.8	<0.5	100		30	Light Brown
CG-G44	625058	5933157	2.1	29.4	7	62	<0.1	776	27.6	<0.5	131		30	Medium Brown
CG-G48	625057	5933559	1.8	29	5.2	72	0.2	476	13.4	2.3	63		35	Light Brown
CG-I37	625259	5932460	2.2	34.9	7.7	87	<0.1	1624	16	<0.5	86	Large clearing	49	Medium Brown
CG-A34	624457	5932158	1.7	33.3	23.5	149	0.1	1680	39	1.3	99	Some clay	30	Light Brown

CG-I09	625259	5929659	0.4	12.9	5.4	35	<0.1	253	5.1	2.3	62	Some clay	49	Dark Brown	
CG-J15	625359	5930257	0.5	21.1	5	35	<0.1	204	5.6	0.9	44	Some clay	40	Light Brown	
CG-N11	625758	5929858	0.6	13.4	5.6	40	0.4	228	6	3	43		30	Light Brown	
CG-D13	624757	5930057	1.1	7.9	4.9	35	<0.1	273	6.5	<0.5	49		30	Light Brown	
CG-M11	625658	5929857	0.5	7.2	5.5	27	0.2	203	5.1	1.7	33		40	Medium Brown	
												Wet, Mud, Near Pond	90	Dark Brown	
CG-I26	625257	5931354	3.1	8.1	6.5	32	0.3	212	3.5	<0.5	69				
CG-G27	625060	5931458	0.4	24	8.4	9	0.4	50	2	1.9	53		50	Medium Brown	
CG-M13	625659	5930056	0.6	2.6	5.7	8	<0.1	305	1.7	1.6	35		30	Dark Brown	
CG-G21	625057	5930856	4.7	3.5	5.1	19	0.1	258	6.6	<0.5	96		30	Grey/Brown	
CG-J51	625360	5933858	2.3	16.4	6.9	71	0.1	436	9.9	<0.5	162		45	Dark Brown	
CG-G47	625056	5933455	1.6	45.1	6.9	70	0.1	1202	14.7	1.8	166		50	Light Brown	
CG-H47	625158	5933456	1.6	32.6	6.9	76	<0.1	1073	13.7	<0.5	180		30	Medium Brown	
CG-I15	625260	5930258	0.8	14.2	5.2	34	0.1	223	15	0.7	42		55	Medium Brown	
CG-O09	625859	5929657	0.2	1.4	4	7	<0.1	40	1.7	3	26		30	Light grey	
CG-N15	625759	5930256	4.4	6	4.1	31	0.3	107	7.6	1.1	66		70	Medium Brown	
CG-I22	625260	5930944	3.4	13.8	4.4	38	0.2	176	3.4	0.6	55	Muddy, near creek	90	Dark Brown	
													50	Dark Brown	
CG-M15	625660	5930256	5.5	12	3.6	20	0.4	70	2.7	0.7	60				
CG-F11	624959	5929857	0.6	9.3	3.9	18	0.2	101	2	1.8	41		70	Medium Brown	
CG-G18	625059	5930556	0.5	26.8	3.7	10	1.7	29	1.8	1.1	24		90	Dark Brown	
CG-L07	625557	5929458	0.4	4.6	1.8	6	0.1	18	0.7	1.6	64		50	Medium Brown	
CG-C45	624654	5933257	0.6	33.3	5.5	16	1.5	59	1.6	<0.5	66		30	Dark brown	
CG-N45	625758	5933254	1.9	32.7	10.6	51	0.5	344	8.6	0.7	111		60	Dark Brown	
CG-B46	624561	5933356	1.6	36.6	6.6	35	0.6	150	3	3	57	Mud	40	Dark Brown	
CG-E46	624858	5933356	2.7	36.3	13	113	0.3	1774	18.3	2.8	182	Muddy, some clay, near pond	55	Dark Brown	
CG-I21	625259	5930855	9.5	14.4	4.9	52	0.8	>10000	18.7	12.2	261		20	Light Brown	
CG-C49	624659	5933659	2.1	91	14.9	71	1	479	12.5	0.7	168		30	Medium Brown	
CG-I23	625258	5931058	1.5	15.3	6.7	55	0.3	434	14.8	1.6	43	Some clay	35	Light brown	
CG-G11	625059	5929857	0.7	8.2	6.9	22	0.2	152	3.6	2.1	39		28	Dark Brown	
CG-J46	625359	5933359	0.4	11.8	2.7	11	0.7	21	1.8	2.3	32	Mud	75	Dark Brown	
CG-D11	624761	5929857	5	58	9.3	80	1.2	508	17.2	4.2	124	Some clay	50	Dark Brown	
CG-I39	625257	5932657	1.3	23.8	6.7	90	0.2	586	10.1	<0.5	63	Middle of large clearing	25	Light Brown	
CG-G13	625059	5930057	1	10	7.3	29	0.1	204	12.2	1.7	30	Organics	40	Medium Brown	
CG-F50	624961	5933757	1.1	53.1	11.2	106	0.1	1256	15.1	1.3	278		40	Grey/brown	
CG-H51	625164	5933858	1.6	27.6	10.8	103	0.5	2246	13.6	<0.5	209		35	Medium Brown	
CG-O50	625859	5933757	1.9	22.8	11.1	86	0.1	528	15.2	<0.5	58		25	Medium Brown	
CG-O13	625858	5930058	1.6	31.8	7	47	1.3	1761	6.2	2.5	65		25	Medium Brown	
CG-A11	624458	5929856	5	11.4	8.2	28	0.2	315	11.7	2.1	48		30	Dark Brown	
CG-I35	625257	5932251	1.6	13.3	7.1	57	0.2	277	6.4	<0.5	73	Some clay?	50	Dark Brown	
CG-I38	625260	5932554	1.8	25.4	9.3	72	0.1	449	13.8	<0.5	54	Large clearing	30	Medium Brown	
CG-K49	625459	5933658	2.9	53.9	11.4	89	0.6	1090	16.2	1.9	99		35	Medium Brown	
CG-F09	624959	5929663	1.2	31.8	7	46	0.3	349	8.1	3.8	56		35	Medium Brown	
CG-P48	625954	5933557	1.3	18.9	7.2	70	<0.1	383	10.5	1.3	55		40	Light Brown	
CG-M50	625660	5933757	2.6	36.6	14.2	57	0.3	1071	14.8	0.9	48		45	Dark Brown	
CG-O11	625859	5929857	1.2	22.6	8.8	46	0.3	376	10.3	1.4	62	Some clay	30	Light Brown	
CG-C13	624661	5930057	2	10.7	5.7	24	0.5	186	10.6	32.9	37	Some clay	40	Light Brown	
CG-G49	625058	5933658	1.5	21.6	7.1	70	0.2	828	14.4	2.6	62	Some clay	35	Light Brown	
CG-H15	625161	5930258	1.1	9.9	5.3	35	<0.1	232	7	0.8	33		35	Light Brown	
CG-I33	625254	5932054	2.5	22.1	6.6	33	0.5	200	11.2	<0.5	43	Near pond, very wet	30	Dark Brown	
CG-D15	624759	5930257	2.8	8.9	6.3	40	0.2	208	6.9	1.9	55		30	Medium Brown	
CG-E45	624852	5933256	2.6	43.3	33.8	194	0.1	2993	66.4	1.9	189		28	Medium Brown	
CG-J11	625360	5929858	0.4	8.4	8.6	7	0.7	77	23.5	0.6	51		60	Medium Brown	
CG-J13	625358	5930057	1.5	22.2	8.5	14	0.5	216	2.8	<0.5	49		20	Dark Brown	

CG-A42	624462	5932949	2.4	41.3	13.1	73	0.6	627	14.5	1.6	67	Some clay	30	Dark Brown
CG-B49	624557	5933663	1.9	55.9	9.2	56	0.7	1301	8	<0.5	51		20	Dark brown
CG-L09	625559	5929656	12.2	16.6	5.4	45	0.3	2390	9	3.7	73	40	Medium Brown	
CG-F15	624959	5930255	1.4	17.6	6.5	43	0.2	283	7.4	1.5	57	35	Light Brown	
CG-L13	625559	5930058	0.8	6.5	7.8	16	0.3	223	2.5	0.9	40	40	Medium Brown	
CG-B51	624565	5933870	1.7	38.6	11	68	0.4	1364	9.8	0.6	97	30	Medium Brown	
CG-D51	624761	5933857	2.4	55	37.4	211	0.4	1963	71.6	2	187	Side of creek, 80cm vertical, 40cm horizontal	80	Light Brown
CG-G16	625059	5930358	5.3	15.3	6.1	37	<0.1	224	7.2	1.6	67		40	Grey/brown

APPENDIX II
2012 FIELD PROSPECTING MAPS





624500

625000

1:5000 N
↑

593050

593050

593000

593000

0 100 200 m

6263 = Contact between Granite & Volcanic Sediments

Legend

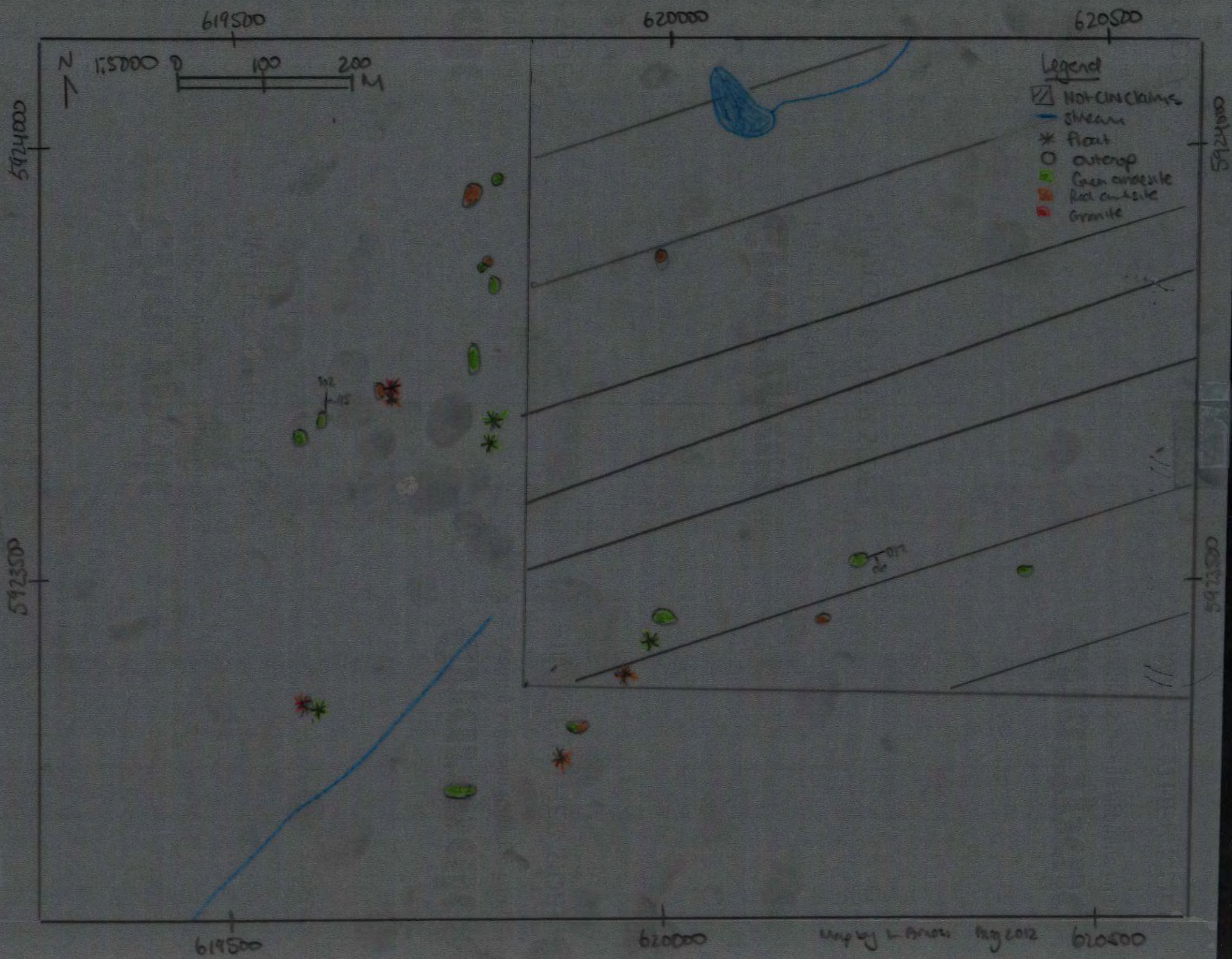
- - - Inferred contact
- x Fault
- O outcrop
- granite
- volcanics
- stream
- contours

Map by L. Anness Aug 2012

624500

625000

9 8 8
9 1 1



map by L. Brown Aug 2012

APPENDIX III

ACME ANALYTICAL LABORATORIES LTD.
ANALYTICAL CERTIFICATES



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2 Canada

Submitted By: Thomas Hasek
Receiving Lab: Canada-Vancouver
Received: September 10, 2012
Report Date: November 02, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12004302.2

CLIENT JOB INFORMATION

Project: COLE
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

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

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

Invoice To: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

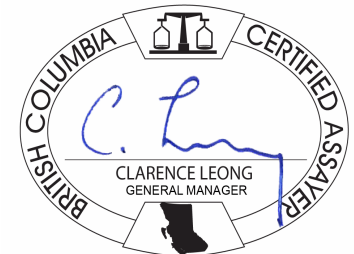
CC: P. Brockington
L. Arnese
M. Schuss

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 1D01, and 1DX2.

ADDITIONAL COMMENTS

Version 2: 1DX2 included.



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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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004302.2

Method	WGHT	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	
G1	Prep Blank	<0.01	<1	1	4	46	<0.3	4	4	559	1.87	<2	<2	3	42	<0.5	<3	<3	35	0.43	0.079
G1	Prep Blank	<0.01	<1	<1	<3	45	<0.3	3	4	558	1.80	2	<2	4	44	<0.5	<3	<3	35	0.37	0.076
LVA-13	Rock	0.27	78	<1	<3	8	<0.3	<1	<1	105	0.62	<2	<2	16	<1	<0.5	<3	3	1	<0.01	0.004
LVA-16	Rock	0.20	4	<1	<3	35	<0.3	1	<1	235	1.51	45	<2	<2	9	<0.5	<3	<3	4	0.05	0.027
LVA-22	Rock	1.98	2	35	8	55	<0.3	11	12	772	2.61	<2	<2	<2	80	<0.5	<3	<3	38	1.26	0.109
LVA-24	Rock	0.22	<1	<1	<3	11	<0.3	<1	3	238	1.49	6	<2	<2	5	<0.5	<3	<3	5	0.02	0.018
LVA-26	Rock	0.42	3	122	<3	35	<0.3	3	8	434	1.98	3	<2	5	19	<0.5	<3	<3	53	1.12	0.048
LVA-28	Rock	0.51	3	573	22	349	1.1	8	12	1558	4.81	42	<2	<2	3	3.5	<3	<3	125	0.11	0.075
LVA-29	Rock	1.01	3	7192	<3	122	15.1	1	8	1159	2.32	<2	<2	<2	10	<0.5	<3	<3	9	0.68	0.033
LVA-32	Rock	1.14	2	2161	6	82	6.3	5	13	1110	6.47	<2	<2	<2	2	<0.5	<3	8	24	0.02	0.021
LVA-39	Rock	2.45	<1	>10000	3	13	12.3	9	8	2457	1.09	7	<2	<2	87	1.0	<3	<3	36	20.51	0.006
LVA-42	Rock	0.78	<1	4650	4	125	11.3	1	5	997	2.26	<2	<2	<2	7	<0.5	<3	<3	12	1.31	0.050



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Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004302.2

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	
G1	Prep Blank	7	7	0.56	227	0.116	<20	0.92	0.08	0.47	<2	<5	<1	<5	<0.05	<5	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	7	7	0.56	231	0.113	<20	0.89	0.07	0.49	<2	<5	<1	<5	<0.05	<5	N.A.	N.A.	N.A.	N.A.	N.A.
LVA-13	Rock	6	1	<0.01	<1	0.011	<20	0.15	0.04	0.12	<2	<5	<1	<5	<0.05	<5	89.3	1.0	3.5	12	<0.1
LVA-16	Rock	16	1	0.34	288	<0.001	<20	0.69	0.03	0.24	<2	<5	<1	6	<0.05	<5	4.5	1.7	6.2	40	<0.1
LVA-22	Rock	15	7	1.06	940	0.001	<20	1.60	0.03	0.23	<2	<5	<1	6	0.15	5	1.3	37.7	8.8	57	<0.1
LVA-24	Rock	11	2	0.17	224	0.003	<20	0.35	0.01	0.19	<2	<5	<1	<5	0.42	<5	0.2	1.3	1.0	14	<0.1
LVA-26	Rock	13	5	0.45	79	0.054	<20	0.65	0.05	0.16	<2	<5	<1	<5	0.39	7	2.7	134.2	3.5	39	<0.1
LVA-28	Rock	7	12	1.29	78	0.003	<20	1.75	0.04	0.03	<2	<5	<1	12	<0.05	16	2.8	622.2	33.2	365	1.6
LVA-29	Rock	8	<1	1.02	307	<0.001	<20	1.46	0.02	0.19	<2	<5	<1	6	0.11	<5	2.7	7836	1.0	126	15.5
LVA-32	Rock	2	4	0.92	100	0.005	<20	1.64	<0.01	0.19	<2	<5	<1	7	0.15	<5	1.6	2300	5.1	93	6.9
LVA-39	Rock	2	11	0.36	114	0.007	<20	0.44	0.02	0.05	<2	<5	<1	<5	0.14	<5	0.4	>10000	1.0	16	12.0
LVA-42	Rock	8	5	0.57	38	0.018	<20	0.31	0.08	0.03	<2	<5	<1	<5	0.09	6	0.6	5206	3.1	133	11.7



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Page: 2 of 2

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004302.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B
Unit		ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm
MDL		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	1	0.01	1	0.001	1
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
LVA-13	Rock	0.4	0.4	126	0.71	0.8	4.8	19.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.006	6	2	<0.01	3	0.013	2
LVA-16	Rock	1.8	0.7	263	1.62	52.3	2.6	0.5	11	<0.1	0.7	0.1	4	0.06	0.030	17	<1	0.37	308	0.001	2
LVA-22	Rock	10.6	12.7	819	2.83	2.1	2.3	3.8	84	0.1	0.2	<0.1	42	1.27	0.115	16	8	1.10	767	0.002	3
LVA-24	Rock	0.9	2.8	262	1.65	7.4	2.9	1.8	4	<0.1	<0.1	0.3	6	0.03	0.020	12	3	0.19	235	0.005	<1
LVA-26	Rock	3.3	8.5	452	2.15	5.5	1.0	7.8	21	<0.1	<0.1	<0.1	56	1.16	0.051	13	5	0.49	85	0.060	1
LVA-28	Rock	7.9	12.5	1670	5.26	49.2	1.0	0.4	3	3.6	1.1	0.2	124	0.13	0.079	8	12	1.35	86	0.005	1
LVA-29	Rock	1.8	8.0	1255	2.50	1.4	2.9	0.7	12	<0.1	0.5	1.8	9	0.70	0.037	8	2	1.09	339	0.001	2
LVA-32	Rock	6.3	14.2	1218	7.06	1.6	336.4	0.3	2	<0.1	0.4	7.0	25	0.03	0.023	2	4	0.98	123	0.006	1
LVA-39	Rock	6.9	6.9	2628	1.49	7.1	3.8	0.3	101	0.7	0.3	<0.1	46	21.23	0.010	3	13	0.38	130	0.011	2
LVA-42	Rock	1.4	5.4	1157	3.06	1.8	3.5	1.1	7	<0.1	0.7	0.3	15	1.29	0.054	9	4	0.63	44	0.029	<1



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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 2

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004302.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
LVA-13	Rock	0.17	0.043	0.11	0.5	<0.01	1.4	0.1	<0.05	2	<0.5	<0.2
LVA-16	Rock	0.75	0.025	0.24	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
LVA-22	Rock	1.67	0.025	0.23	<0.1	<0.01	5.7	<0.1	0.14	4	<0.5	<0.2
LVA-24	Rock	0.38	0.006	0.19	<0.1	<0.01	0.9	<0.1	0.42	2	<0.5	0.3
LVA-26	Rock	0.66	0.047	0.16	<0.1	0.01	7.3	<0.1	0.40	4	<0.5	<0.2
LVA-28	Rock	1.90	0.041	0.03	<0.1	0.01	18.6	<0.1	<0.05	10	<0.5	<0.2
LVA-29	Rock	1.58	0.013	0.20	<0.1	0.09	2.7	<0.1	0.11	4	1.0	<0.2
LVA-32	Rock	1.81	0.003	0.20	<0.1	<0.01	4.6	<0.1	0.15	6	2.1	2.6
LVA-39	Rock	0.40	0.009	0.05	<0.1	0.25	3.1	<0.1	0.18	2	<0.5	<0.2
LVA-42	Rock	0.33	0.085	0.03	0.2	0.02	7.2	<0.1	0.09	2	<0.5	<0.2



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Project: COLE
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Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004302.2

Method	WGHT	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	
Pulp Duplicates																					
LVA-13	Rock	0.27	78	<1	<3	8	<0.3	<1	<1	105	0.62	<2	<2	16	<1	<0.5	<3	3	1	<0.01	0.004
REP LVA-13	QC		77	<1	<3	8	<0.3	<1	<1	106	0.62	<2	<2	17	<1	<0.5	<3	4	1	<0.01	0.004
LVA-42	Rock	0.78	<1	4650	4	125	11.3	1	5	997	2.26	<2	<2	<2	7	<0.5	<3	<3	12	1.31	0.050
REP LVA-42	QC																				
Core Reject Duplicates																					
LVA-22	Rock	1.98	2	35	8	55	<0.3	11	12	772	2.61	<2	<2	<2	80	<0.5	<3	<3	38	1.26	0.109
DUP LVA-22	QC	<0.01	1	35	7	54	<0.3	10	12	757	2.52	<2	<2	<2	76	<0.5	<3	<3	38	1.19	0.110
Reference Materials																					
STD DS9	Standard		11	95	114	288	1.8	38	7	536	2.14	21	<2	3	61	2.1	6	3	38	0.64	0.079
STD DS9	Standard																				
STD OREAS45CA	Standard		1	485	26	59	<0.3	244	96	911	15.94	<2	<2	4	15	<0.5	<3	<3	217	0.42	0.039
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265	0.0385
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	0.118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	<1	1	4	46	<0.3	4	4	559	1.87	<2	<2	3	42	<0.5	<3	<3	35	0.43	0.079
G1	Prep Blank	<0.01	<1	<1	<3	45	<0.3	3	4	558	1.80	2	<2	4	44	<0.5	<3	<3	35	0.37	0.076



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Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004302.2

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	
Pulp Duplicates																					
LVA-13	Rock	6	1	<0.01	<1	0.011	<20	0.15	0.04	0.12	<2	<5	<1	<5	<0.05	<5	89.3	1.0	3.5	12	<0.1
REP LVA-13	QC	6	3	<0.01	1	0.011	<20	0.15	0.04	0.12	<2	<5	<1	<5	<0.05	<5					
LVA-42	Rock	8	5	0.57	38	0.018	<20	0.31	0.08	0.03	<2	<5	<1	<5	0.09	6	0.6	5206	3.1	133	11.7
REP LVA-42	QC															0.6	5064	3.1	138	11.5	
Core Reject Duplicates																					
LVA-22	Rock	15	7	1.06	940	0.001	<20	1.60	0.03	0.23	<2	<5	<1	6	0.15	5	1.3	37.7	8.8	57	<0.1
DUP LVA-22	QC	16	7	1.04	921	0.001	<20	1.57	0.03	0.22	<2	<5	<1	<5	0.14	5	1.3	39.6	8.8	60	<0.1
Reference Materials																					
STD DS9	Standard	10	115	0.56	300	0.093	<20	0.86	0.08	0.37	<2	<5	<1	<5	0.16	<5					
STD DS9	Standard																13.4	116.6	140.9	322	1.9
STD OREAS45CA	Standard	16	693	0.13	162	0.120	<20	3.35	0.02	0.07	<2	<5	<1	13	<0.05	45					
STD OREAS45CA Expected		15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.07	0.03	0.021							
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	5.3	0.2	4.59	0.1615	2.5	12.84	108	126	317	1.83
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5					
BLK	Blank																<0.1	1.3	<0.1	<1	<0.1
Prep Wash																					
G1	Prep Blank	7	7	0.56	227	0.116	<20	0.92	0.08	0.47	<2	<5	<1	<5	<0.05	<5	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	7	7	0.56	231	0.113	<20	0.89	0.07	0.49	<2	<5	<1	<5	<0.05	<5	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: COLE
Report Date: November 02, 2012

Page: 1 of 1

Part: 3 of 1

QUALITY CONTROL REPORT

VAN12004302.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	
Unit	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	
MDL	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	1	0.01	1	0.001	1	
Pulp Duplicates																					
LVA-13	Rock	0.4	0.4	126	0.71	0.8	4.8	19.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.006	6	2	<0.01	3	0.013	2
REP LVA-13	QC																				
LVA-42	Rock	1.4	5.4	1157	3.06	1.8	3.5	1.1	7	<0.1	0.7	0.3	15	1.29	0.054	9	4	0.63	44	0.029	<1
REP LVA-42	QC	1.6	5.4	1137	3.01	1.7	3.0	1.1	8	<0.1	0.8	0.3	14	1.33	0.052	9	5	0.61	42	0.029	1
Core Reject Duplicates																					
LVA-22	Rock	10.6	12.7	819	2.83	2.1	2.3	3.8	84	0.1	0.2	<0.1	42	1.27	0.115	16	8	1.10	767	0.002	3
DUP LVA-22	QC	10.5	12.6	823	2.83	2.2	3.1	3.8	83	<0.1	0.2	<0.1	43	1.25	0.115	17	7	1.09	817	0.003	2
Reference Materials																					
STD DS9	Standard																				
STD DS9	Standard	40.5	8.1	612	2.51	28.1	132.3	7.2	78	2.7	5.8	7.5	41	0.74	0.093	13	127	0.66	326	0.115	2
STD OREAS45CA	Standard																				
STD OREAS45CA Expected																					
STD DS9 Expected		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	121	0.6165	295	0.1108	
BLK	Blank																				
BLK	Blank	<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	<1	<0.01	<1	<0.001	<1
Prep Wash																					
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: COLE

Report Date: November 02, 2012

Page: 1 of 1

Part: 4 of 1

QUALITY CONTROL REPORT

VAN12004302.2

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates												
LVA-13	Rock	0.17	0.043	0.11	0.5	<0.01	1.4	0.1	<0.05	2	<0.5	<0.2
REP LVA-13	QC											
LVA-42	Rock	0.33	0.085	0.03	0.2	0.02	7.2	<0.1	0.09	2	<0.5	<0.2
REP LVA-42	QC	0.32	0.083	0.03	0.2	0.02	7.4	<0.1	0.09	2	<0.5	<0.2
Core Reject Duplicates												
LVA-22	Rock	1.67	0.025	0.23	<0.1	<0.01	5.7	<0.1	0.14	4	<0.5	<0.2
DUP LVA-22	QC	1.66	0.024	0.23	<0.1	<0.01	5.7	<0.1	0.14	4	<0.5	<0.2
Reference Materials												
STD DS9	Standard											
STD DS9	Standard	1.00	0.086	0.41	2.9	0.21	2.7	5.7	0.17	4	5.5	5.6
STD OREAS45CA	Standard											
STD OREAS45CA Expected												
STD DS9 Expected		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank											
BLK	Blank	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash												
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Submitted By: Thomas Hasek
Receiving Lab: Canada-Vancouver
Received: September 10, 2012
Report Date: November 02, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12004301.2

CLIENT JOB INFORMATION

Project: COLE
Shipment ID:
P.O. Number
Number of Samples: 18

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

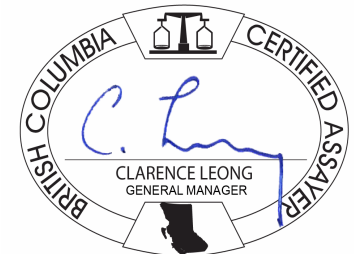
CC: P. Brockington
L. Arness
M. Schuss

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	17	Dry at 60C			VAN
SS80	17	Dry at 60C sieve 100g to -80 mesh			VAN
1D01	17	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
1DX2	16	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Version 2: 1DX2 included.



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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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004301.2

Method	Analyte	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		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	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
LVA-06	Silt	3	46	37	212	<0.3	10	17	2002	4.69	84	<2	<2	19	1.0	3	<3	82	0.38	0.097	13
LVA-07	Silt	<1	48	11	110	<0.3	11	18	1583	4.41	13	<2	<2	41	<0.5	<3	<3	98	0.45	0.099	11
LVA-14	Silt	1	21	9	76	<0.3	11	10	1070	2.99	15	<2	<2	52	<0.5	<3	<3	59	0.72	0.100	21
LVA-19	Silt	3	7	7	26	0.3	4	3	205	1.57	4	<2	<2	20	<0.5	<3	<3	36	0.23	0.067	8
LVA-25	Silt	14	17	9	57	<0.3	8	15	2513	3.14	11	<2	<2	20	<0.5	<3	<3	58	0.28	0.087	19
LVA-30	Silt	3	42	32	75	<0.3	10	8	1813	2.36	6	<2	<2	21	<0.5	<3	<3	45	0.59	0.118	22
LVA-31	Silt	4	71	16	87	<0.3	20	11	1849	3.02	7	<2	<2	38	<0.5	<3	<3	65	0.66	0.086	19
LVA-35	Silt	<1	18	7	54	<0.3	7	8	1054	2.26	4	<2	<2	14	<0.5	<3	<3	42	0.22	0.060	6
LVA-36	Silt	<1	75	18	100	0.4	15	8	1110	2.05	16	<2	<2	77	<0.5	<3	<3	55	1.24	0.142	9
LVA-37	Silt	<1	31	18	50	<0.3	9	7	1036	1.63	24	<2	<2	40	<0.5	<3	<3	41	0.70	0.193	15
LVA-38	Silt	<1	21	8	64	<0.3	6	6	632	1.67	13	<2	<2	51	<0.5	<3	<3	40	0.94	0.121	7
LVA-40	Silt	<1	119	9	87	<0.3	21	23	3092	4.15	41	<2	<2	23	<0.5	<3	<3	105	0.32	0.074	14
LVA-41	Silt	<1	28	8	61	<0.3	5	7	1193	2.32	21	<2	<2	25	<0.5	<3	<3	54	0.45	0.086	12
LVA-43	Silt	<1	12	12	72	<0.3	8	8	874	3.36	28	<2	<2	24	<0.5	<3	<3	57	0.71	0.106	16
LVA-44	Silt	<1	9	8	7	<0.3	3	4	821	1.65	51	<2	<2	63	0.5	<3	<3	23	2.42	0.168	15
SILT-1	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
SILT-2	Silt	2	45	36	204	<0.3	8	16	1507	4.77	73	<2	<2	18	0.7	<3	<3	88	0.36	0.092	11
SILT-3	Silt	2	40	23	176	<0.3	8	14	1483	4.28	51	<2	<2	21	0.6	<3	<3	80	0.58	0.083	10



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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004301.2

Method	Analyte	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni	
Unit	MDL	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	0.1	1	0.1	0.1
LVA-06	Silt	10	0.75	150	0.019	<20	1.42	0.02	0.10	<2	<5	<1	8	<0.05	10	2.8	50.7	34.5	196	0.3	10.3	
LVA-07	Silt	12	0.69	269	0.010	<20	1.40	0.02	0.10	<2	<5	<1	7	<0.05	11	1.2	56.2	9.2	105	<0.1	12.6	
LVA-14	Silt	15	0.61	161	0.028	<20	1.81	0.02	0.08	<2	<5	<1	7	0.05	<5	1.6	28.4	7.7	76	0.3	13.2	
LVA-19	Silt	9	0.25	63	0.015	<20	1.46	0.01	0.03	<2	<5	<1	5	0.06	<5	3.8	8.6	5.6	27	0.4	4.9	
LVA-25	Silt	14	0.43	109	0.033	<20	2.39	0.02	0.08	<2	<5	<1	6	0.06	<5	17.0	24.8	8.5	66	0.2	9.6	
LVA-30	Silt	19	0.45	480	0.013	<20	1.58	0.01	0.10	<2	<5	<1	<5	0.11	<5	3.9	56.0	25.3	81	0.2	12.1	
LVA-31	Silt	47	0.62	485	0.015	<20	1.48	0.01	0.09	<2	<5	<1	<5	0.07	6	5.6	85.1	16.5	90	0.5	23.8	
LVA-35	Silt	12	0.49	155	0.025	<20	1.57	0.02	0.07	<2	<5	<1	<5	<0.05	<5	1.1	22.8	8.7	57	<0.1	8.0	
LVA-36	Silt	50	0.69	673	0.008	<20	1.60	0.02	0.15	<2	<5	<1	<5	0.17	6	1.0	86.7	16.0	103	0.7	16.4	
LVA-37	Silt	27	0.38	376	0.008	<20	1.86	0.02	0.16	<2	<5	<1	<5	0.18	<5	0.4	12.8	3.4	31	0.1	3.5	
LVA-38	Silt	24	0.52	471	0.009	<20	1.52	0.02	0.12	<2	<5	<1	<5	0.13	<5	1.1	36.7	16.6	51	0.4	9.6	
LVA-40	Silt	28	0.81	431	0.009	<20	1.98	0.01	0.10	<2	<5	<1	6	<0.05	18	0.9	129.1	8.0	87	0.4	26.1	
LVA-41	Silt	18	0.35	421	0.006	<20	1.27	0.01	0.12	<2	<5	<1	<5	0.06	<5	0.6	34.0	8.1	65	0.4	6.2	
LVA-43	Silt	16	0.53	733	0.012	<20	2.85	0.01	0.13	<2	<5	<1	9	0.08	<5	0.6	16.0	9.9	71	0.2	9.8	
LVA-44	Silt	11	0.09	1215	0.005	<20	0.69	0.03	0.05	<2	<5	<1	<5	0.34	<5	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
SILT-1	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
SILT-2	Silt	9	0.71	141	0.025	<20	1.24	0.02	0.09	<2	<5	<1	6	0.07	9	2.3	51.8	30.9	198	0.3	10.9	
SILT-3	Silt	8	0.73	130	0.026	<20	1.22	0.02	0.09	<2	<5	<1	6	0.05	9	1.5	43.8	22.3	165	0.3	8.8	



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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 2

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004301.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
Unit		ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL		0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
LVA-06	Silt	17.5	1891	4.68	76.3	4.9	1.2	17	0.8	2.8	0.1	86	0.36	0.083	13	10	0.69	137	0.018	2	1.28
LVA-07	Silt	19.7	1599	4.66	11.9	5.3	1.3	36	0.3	1.5	0.1	109	0.44	0.085	11	13	0.63	250	0.012	2	1.27
LVA-14	Silt	11.6	1207	3.11	15.2	4.1	0.3	53	0.4	0.6	<0.1	70	0.77	0.103	24	17	0.60	169	0.024	2	1.85
LVA-19	Silt	3.4	190	1.59	3.6	3.9	<0.1	17	0.1	0.2	<0.1	52	0.22	0.062	8	11	0.25	58	0.015	2	1.36
LVA-25	Silt	18.8	2926	3.64	11.4	<0.5	0.2	19	0.3	0.7	<0.1	95	0.32	0.093	23	21	0.45	118	0.046	7	2.60
LVA-30	Silt	9.1	2093	2.45	6.4	1.3	<0.1	21	0.4	0.7	0.2	77	0.68	0.136	27	28	0.46	518	0.018	7	1.61
LVA-31	Silt	13.2	2042	3.30	6.9	6.1	0.2	38	0.4	1.0	0.6	89	0.72	0.090	21	60	0.63	491	0.015	4	1.51
LVA-35	Silt	8.3	1045	2.34	4.7	2.5	0.2	13	0.2	0.3	<0.1	58	0.22	0.059	6	15	0.50	150	0.026	2	1.51
LVA-36	Silt	8.6	1130	1.95	11.2	16.0	0.3	74	0.3	1.6	<0.1	96	1.37	0.155	10	63	0.71	693	0.013	10	1.62
LVA-37	Silt	3.2	330	0.79	6.1	7.0	0.2	23	<0.1	0.4	<0.1	44	0.49	0.061	4	16	0.26	231	0.008	3	0.75
LVA-38	Silt	7.8	1049	1.67	20.6	0.6	<0.1	36	0.3	0.6	0.1	58	0.69	0.193	15	33	0.38	360	0.008	4	1.84
LVA-40	Silt	25.3	3122	4.55	38.0	6.9	0.9	20	0.4	2.1	<0.1	148	0.30	0.069	14	34	0.83	384	0.019	4	1.89
LVA-41	Silt	7.9	1295	2.53	20.9	33.1	0.4	24	0.1	1.1	0.1	73	0.47	0.086	13	24	0.36	427	0.007	2	1.26
LVA-43	Silt	8.8	911	3.58	25.7	0.6	0.3	22	0.2	0.4	0.1	79	0.72	0.106	17	20	0.53	717	0.012	2	2.82
LVA-44	Silt	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SILT-1	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
SILT-2	Silt	17.0	1530	5.09	72.0	3.0	1.2	17	0.7	2.6	<0.1	102	0.36	0.087	12	12	0.72	130	0.024	1	1.20
SILT-3	Silt	14.8	1483	4.51	49.2	<0.5	1.2	19	0.5	1.9	<0.1	93	0.58	0.080	10	11	0.71	120	0.027	1	1.12



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Project: COLE
Report Date: November 02, 2012

Page: 2 of 2

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004301.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
LVA-06	Silt	0.013	0.08	<0.1	0.03	8.7	0.1	<0.05	5	<0.5	<0.2
LVA-07	Silt	0.010	0.08	<0.1	<0.01	10.2	<0.1	<0.05	4	<0.5	<0.2
LVA-14	Silt	0.018	0.07	<0.1	0.10	4.0	<0.1	<0.05	5	<0.5	<0.2
LVA-19	Silt	0.011	0.03	<0.1	0.05	0.7	<0.1	<0.05	4	<0.5	<0.2
LVA-25	Silt	0.020	0.08	0.2	0.07	3.3	0.1	<0.05	6	0.7	<0.2
LVA-30	Silt	0.014	0.11	0.2	0.06	2.8	<0.1	<0.05	4	2.1	<0.2
LVA-31	Silt	0.011	0.09	0.3	0.06	5.8	<0.1	<0.05	4	1.4	<0.2
LVA-35	Silt	0.012	0.06	0.1	0.03	2.8	<0.1	<0.05	5	0.8	<0.2
LVA-36	Silt	0.021	0.17	0.4	0.11	9.1	<0.1	0.13	4	5.3	<0.2
LVA-37	Silt	0.010	0.06	0.1	0.02	3.3	<0.1	<0.05	2	2.0	<0.2
LVA-38	Silt	0.017	0.15	0.2	0.08	1.5	<0.1	0.21	5	3.3	<0.2
LVA-40	Silt	0.011	0.11	0.3	0.10	16.7	<0.1	<0.05	5	<0.5	<0.2
LVA-41	Silt	0.009	0.11	0.3	0.04	4.6	<0.1	<0.05	3	1.1	<0.2
LVA-43	Silt	0.012	0.11	0.2	0.05	2.8	0.1	0.06	8	0.6	<0.2
LVA-44	Silt	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SILT-1	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
SILT-2	Silt	0.014	0.08	<0.1	0.02	8.6	0.1	<0.05	5	<0.5	<0.2
SILT-3	Silt	0.016	0.08	<0.1	0.02	8.6	<0.1	<0.05	4	<0.5	<0.2



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Report Date: November 02, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004301.2

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
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	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1	
Pulp Duplicates																					
SILT-3	Silt	2	40	23	176	<0.3	8	14	1483	4.28	51	<2	<2	21	0.6	<3	<3	80	0.58	0.083	10
REP SILT-3	QC	1	37	26	175	<0.3	8	14	1492	4.36	51	<2	<2	21	0.6	<3	<3	82	0.57	0.084	10
Reference Materials																					
STD DS9	Standard	14	103	130	319	1.5	38	7	569	2.27	26	<2	6	71	2.2	5	7	39	0.71	0.081	12
STD DS9	Standard																				
STD OREAS45CA	Standard	1	512	22	56	<0.3	258	96	937	16.11	4	<2	7	15	<0.5	<3	<3	218	0.43	0.039	16
STD OREAS45CA Expected		1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	0.118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK	Blank																				



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Project: COLE

Report Date: November 02, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004301.2

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1	
Pulp Duplicates																					
SILT-3	Silt	8	0.73	130	0.026	<20	1.22	0.02	0.09	<2	<5	<1	6	0.05	9	1.5	43.8	22.3	165	0.3	8.8
REP SILT-3	QC	7	0.73	139	0.027	<20	1.23	0.02	0.09	<2	<5	<1	7	0.07	9	1.9	45.6	22.1	170	0.2	9.4
Reference Materials																					
STD DS9	Standard	112	0.62	319	0.105	<20	0.93	0.08	0.39	3	<5	<1	5	0.16	<5						
STD DS9	Standard														12.9	115.1	139.8	314	1.9	42.6	
STD OREAS45CA	Standard	740	0.14	164	0.143	<20	3.68	0.01	0.07	<2	<5	<1	23	<0.05	48						
STD OREAS45CA Expected		709	0.1358	164	0.128		3.592	0.0075	0.0717		0.07	0.03		0.021							
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	5.3	0.2	4.59	0.1615	2.5	12.84	108	126	317	1.83	40.3
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank														<0.1	<0.1	<0.1	<1	<0.1	<0.1	



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Report Date: November 02, 2012

Page: 1 of 1

Part: 3 of 1

QUALITY CONTROL REPORT

VAN12004301.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	
Unit	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01	
Pulp Duplicates																					
SILT-3	Silt	14.8	1483	4.51	49.2	<0.5	1.2	19	0.5	1.9	<0.1	93	0.58	0.080	10	11	0.71	120	0.027	1	1.12
REP SILT-3	QC	15.0	1485	4.54	49.1	2.9	1.2	19	0.6	2.0	<0.1	93	0.55	0.075	10	11	0.72	117	0.025	1	1.15
Reference Materials																					
STD DS9	Standard																				
STD DS9	Standard	8.1	591	2.37	25.4	117.2	6.7	67	2.3	5.1	6.1	52	0.73	0.079	13	130	0.62	292	0.112	2	0.91
STD OREAS45CA	Standard																				
STD OREAS45CA Expected																					
STD DS9 Expected		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	121	0.6165	295	0.1108		0.9577
BLK	Blank																				
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01



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Project: COLE

Report Date: November 02, 2012

Page: 1 of 1

Part: 4 of 1

QUALITY CONTROL REPORT

VAN12004301.2

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates											
SILT-3	Silt	0.016	0.08	<0.1	0.02	8.6	<0.1	<0.05	4	<0.5	<0.2
REP SILT-3	QC	0.017	0.08	<0.1	0.02	8.6	<0.1	<0.05	5	<0.5	<0.2
Reference Materials											
STD DS9	Standard										
STD DS9	Standard	0.077	0.38	3.0	0.18	2.3	5.4	0.17	4	5.2	5.1
STD OREAS45CA	Standard										
STD OREAS45CA Expected											
STD DS9 Expected		0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank										
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Thomas Hasek
Receiving Lab: Canada-Vancouver
Received: September 10, 2012
Report Date: November 02, 2012
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN12004303.2

CLIENT JOB INFORMATION

Project: COLE
Shipment ID:
P.O. Number
Number of Samples: 261

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: P. Brockington
L. Arnese
M. Schuss

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, 1D01, and 1DX2.

ADDITIONAL COMMENTS

Version 2: 1DX2 included.



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 Report Date: November 02, 2012

Page: 2 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-A51	Soil			1	47	13	58	0.6	7	7	456	3.70	11	<2	<2	12	<0.5	<3	<3	88	0.13	0.100	9
CG-B51	Soil			1	37	11	68	0.3	8	16	1422	3.17	10	<2	<2	22	0.6	<3	<3	62	0.27	0.173	24
CG-C51	Soil			1	50	11	109	<0.3	16	19	1440	4.48	18	<2	<2	53	<0.5	<3	<3	93	0.73	0.101	14
CG-D51	Soil			2	56	36	222	<0.3	12	20	2035	5.71	76	<2	<2	34	0.8	<3	<3	111	0.67	0.115	15
CG-E51	Soil			2	29	11	91	<0.3	12	12	411	4.64	14	<2	<2	11	<0.5	<3	<3	91	0.06	0.073	8
CG-F51	Soil			1	33	10	106	<0.3	8	16	2153	4.92	11	<2	<2	14	<0.5	<3	<3	130	0.12	0.130	6
CG-G51	Soil			<1	19	6	81	<0.3	6	7	508	3.99	11	<2	<2	8	<0.5	<3	<3	90	0.07	0.185	4
CG-H51	Soil			2	28	11	117	<0.3	8	15	2477	4.19	15	<2	<2	24	<0.5	<3	<3	90	0.38	0.175	27
CG-I51	Soil			2	45	8	78	<0.3	16	20	1208	4.80	17	<2	<2	31	<0.5	<3	<3	83	0.52	0.105	16
CG-J51	Soil			2	15	6	76	<0.3	3	5	473	3.96	11	<2	<2	10	<0.5	<3	<3	82	0.11	0.067	7
CG-K51	Soil			2	35	10	105	<0.3	8	14	803	4.44	14	<2	<2	15	<0.5	<3	<3	92	0.19	0.107	19
CG-L51	Soil			2	34	10	59	0.4	8	9	645	4.95	14	<2	<2	16	<0.5	<3	<3	114	0.09	0.082	10
CG-M51	Soil			4	23	9	53	<0.3	7	8	752	3.76	13	<2	<2	25	<0.5	<3	<3	84	0.30	0.065	9
CG-N51	Soil			<1	20	8	78	<0.3	9	8	392	3.91	11	<2	<2	13	<0.5	<3	<3	74	0.14	0.084	10
CG-O51	Soil			<1	5	9	70	<0.3	2	12	6827	3.60	2	<2	<2	24	<0.5	<3	<3	49	0.41	0.156	9
CG-P51	Soil			<1	10	6	70	<0.3	4	5	541	3.66	8	<2	<2	23	<0.5	<3	<3	67	0.05	0.141	9
CG-A50	Soil			<1	62	8	42	0.6	7	3	248	2.69	5	<2	<2	20	0.8	<3	<3	66	0.20	0.092	11
CG-B50	Soil			1	51	13	73	0.4	10	9	640	4.41	13	<2	<2	30	0.5	<3	<3	95	0.45	0.086	13
CG-C50	Soil			1	29	13	87	0.3	13	16	1101	4.15	15	<2	<2	20	<0.5	<3	<3	83	0.15	0.073	10
CG-E50	Soil			<1	12	13	69	<0.3	4	5	843	3.81	13	<2	<2	10	<0.5	<3	<3	93	0.15	0.223	6
CG-F50	Soil			1	60	11	122	<0.3	12	20	1465	5.37	17	<2	<2	51	<0.5	<3	<3	126	0.46	0.095	17
CG-G50	Soil			2	20	8	65	<0.3	5	7	554	5.49	14	<2	<2	8	<0.5	<3	<3	139	0.05	0.183	4
CG-H50	Soil			1	31	6	81	<0.3	11	15	816	4.70	15	<2	<2	15	<0.5	<3	<3	84	0.15	0.116	7
CG-I50	Soil			2	37	7	82	<0.3	11	10	641	3.78	16	<2	<2	15	<0.5	<3	<3	71	0.16	0.100	15
CG-J50	Soil			<1	13	7	38	<0.3	3	4	421	3.46	8	<2	<2	7	<0.5	<3	<3	89	0.07	0.091	4
CG-K50	Soil			2	26	9	63	<0.3	5	6	837	4.31	9	<2	<2	13	<0.5	<3	<3	92	0.16	0.121	6
CG-L50	Soil			2	33	11	53	<0.3	6	8	721	4.30	12	<2	<2	14	<0.5	<3	<3	99	0.13	0.076	11
CG-M50	Soil			2	36	15	59	<0.3	8	11	1091	5.07	15	<2	<2	10	<0.5	<3	<3	111	0.06	0.126	11
CG-N50	Soil			2	40	12	71	<0.3	11	14	1242	4.20	13	<2	<2	66	0.8	<3	<3	91	0.60	0.098	16
CG-O50	Soil			2	22	12	94	<0.3	9	11	565	5.73	18	<2	<2	8	<0.5	<3	<3	110	0.07	0.312	6

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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	TI	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-A51	Soil			11	0.30	53	0.030	<20	1.47	0.02	0.05	<2	<5	<1	8	0.07	<5	1.5	47.3	14.0	59	0.5	7.6
CG-B51	Soil			12	0.42	108	0.011	<20	2.68	0.01	0.07	<2	<5	<1	6	0.10	<5	1.7	38.6	11.0	68	0.4	8.8
CG-C51	Soil			16	0.97	172	0.031	<20	2.24	0.03	0.12	<2	<5	<1	8	<0.05	10	1.5	50.9	12.7	107	0.1	16.1
CG-D51	Soil			14	0.87	221	0.028	<20	1.69	0.03	0.12	<2	<5	<1	7	0.05	12	2.4	55.0	37.4	211	0.4	11.7
CG-E51	Soil			16	0.69	102	0.023	<20	3.21	<0.01	0.05	<2	<5	<1	9	<0.05	7	2.3	29.6	10.6	83	0.2	12.1
CG-F51	Soil			14	0.41	131	0.007	<20	1.61	0.01	0.08	<2	<5	<1	7	<0.05	8	1.2	35.6	10.5	105	0.2	9.3
CG-G51	Soil			13	0.36	50	0.027	<20	2.19	0.01	0.04	<2	<5	<1	8	<0.05	<5	0.7	19.8	7.5	77	0.2	5.8
CG-H51	Soil			17	0.54	245	0.020	<20	2.19	0.02	0.05	<2	<5	<1	7	0.06	<5	1.6	27.6	10.8	103	0.5	8.1
CG-I51	Soil			14	0.90	245	0.007	<20	2.28	0.01	0.08	<2	<5	<1	6	<0.05	9	1.5	45.9	8.4	77	<0.1	16.9
CG-J51	Soil			8	0.13	190	0.002	<20	2.01	<0.01	0.08	<2	<5	<1	5	<0.05	<5	2.3	16.4	6.9	71	0.1	3.6
CG-K51	Soil			15	0.53	210	0.037	<20	2.04	0.01	0.06	<2	<5	<1	8	<0.05	9	1.7	32.8	10.0	93	0.3	7.8
CG-L51	Soil			14	0.41	102	0.021	<20	2.28	0.01	0.05	<2	<5	<1	11	<0.05	<5	2.3	33.9	10.0	54	0.4	7.5
CG-M51	Soil			13	0.35	87	0.039	<20	1.32	0.01	0.06	<2	<5	<1	8	<0.05	<5	3.6	23.6	8.8	51	0.2	7.3
CG-N51	Soil			11	0.52	148	0.012	<20	2.65	<0.01	0.06	<2	<5	<1	8	<0.05	5	1.0	20.3	8.0	71	0.1	9.1
CG-O51	Soil			2	0.61	100	0.018	<20	2.01	0.02	0.06	<2	<5	<1	10	0.06	<5	0.8	6.0	7.5	66	0.1	3.0
CG-P51	Soil			12	0.27	87	0.022	<20	2.96	<0.01	0.05	<2	<5	<1	10	<0.05	<5	1.2	11.3	7.1	69	0.2	4.9
CG-A50	Soil			10	0.09	85	0.031	<20	0.78	0.01	0.05	<2	<5	<1	6	0.08	<5	1.3	71.7	10.7	49	0.8	8.4
CG-B50	Soil			15	0.54	72	0.042	<20	2.06	0.01	0.05	<2	<5	<1	11	<0.05	<5	1.4	50.7	11.7	73	0.5	9.7
CG-C50	Soil			15	0.72	176	0.014	<20	2.56	0.01	0.08	<2	<5	<1	9	<0.05	<5	1.7	28.3	12.0	80	0.5	11.8
CG-E50	Soil			11	0.22	88	0.040	<20	1.38	0.01	0.06	<2	<5	<1	11	<0.05	<5	0.9	12.7	14.1	60	0.2	3.8
CG-F50	Soil			16	0.70	328	0.008	<20	1.97	0.01	0.10	<2	<5	<1	7	<0.05	15	1.1	53.1	11.2	106	0.1	11.4
CG-G50	Soil			16	0.32	73	0.034	<20	2.87	<0.01	0.06	<2	<5	<1	11	<0.05	5	2.2	21.3	9.6	64	0.2	5.7
CG-H50	Soil			14	0.59	160	0.006	<20	2.40	<0.01	0.07	<2	<5	<1	6	<0.05	5	1.5	31.4	7.2	79	0.1	11.2
CG-I50	Soil			17	0.59	91	0.021	<20	3.08	0.01	0.07	<2	<5	<1	6	<0.05	6	1.7	37.7	8.1	79	0.2	10.6
CG-J50	Soil			11	0.17	75	0.018	<20	1.50	<0.01	0.04	<2	<5	<1	9	<0.05	<5	0.8	14.8	6.7	40	0.3	4.2
CG-K50	Soil			11	0.19	86	0.026	<20	2.02	0.01	0.05	<2	<5	<1	9	<0.05	<5	2.0	27.4	8.3	51	0.3	5.3
CG-L50	Soil			12	0.35	56	0.055	<20	1.57	0.01	0.04	<2	<5	<1	10	<0.05	<5	2.0	34.1	10.7	52	0.3	6.6
CG-M50	Soil			14	0.43	49	0.054	<20	1.51	0.01	0.05	<2	<5	<1	10	0.11	<5	2.6	36.6	14.2	57	0.3	9.2
CG-N50	Soil			14	0.58	239	0.012	<20	2.38	0.01	0.09	<2	<5	<1	9	0.06	<5	2.0	39.0	11.6	66	0.4	10.9
CG-O50	Soil			22	0.59	65	0.026	<20	3.88	<0.01	0.05	<2	<5	<1	10	<0.05	6	1.9	22.8	11.1	86	0.1	9.4

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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
				ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%		
				0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-A51	Soil			6.3	446	3.77	10.5	<0.5	0.1	13	0.4	0.8	0.2	89	0.13	0.091	10	13	0.33	50	0.029	2	1.48
CG-B51	Soil			16.0	1364	3.29	9.8	0.6	<0.1	23	0.5	0.7	0.1	63	0.27	0.167	24	13	0.46	97	0.010	1	2.77
CG-C51	Soil			17.8	1445	4.68	17.3	4.4	1.4	61	0.3	1.1	0.1	95	0.72	0.093	14	18	0.96	163	0.045	3	2.24
CG-D51	Soil			18.2	1963	5.66	71.6	2.0	1.3	36	0.9	3.1	0.2	106	0.66	0.105	15	14	0.83	187	0.030	3	1.62
CG-E51	Soil			11.1	393	4.53	13.3	0.7	1.4	12	0.1	0.8	0.1	87	0.06	0.063	8	17	0.62	91	0.025	2	2.99
CG-F51	Soil			17.1	2426	5.17	10.8	0.5	0.7	15	0.2	1.2	0.1	129	0.13	0.115	6	15	0.48	118	0.007	2	1.55
CG-G51	Soil			6.4	488	3.89	10.6	<0.5	0.7	9	0.1	0.7	<0.1	88	0.07	0.159	4	13	0.37	45	0.028	<1	2.07
CG-H51	Soil			13.1	2246	3.98	13.6	<0.5	0.2	24	0.3	0.8	0.2	84	0.34	0.158	25	17	0.54	209	0.023	1	2.08
CG-I51	Soil			18.9	1170	5.00	16.5	1.3	1.4	33	0.2	0.9	<0.1	83	0.49	0.091	15	16	0.86	221	0.010	1	2.26
CG-J51	Soil			5.0	436	3.93	9.9	<0.5	2.0	11	0.1	0.3	0.1	82	0.10	0.058	7	9	0.14	162	0.003	1	1.96
CG-K51	Soil			11.9	721	4.27	12.8	1.9	0.8	15	0.2	0.6	0.1	89	0.19	0.092	18	16	0.53	181	0.040	2	1.83
CG-L51	Soil			7.4	610	4.77	12.6	<0.5	0.2	15	0.3	0.6	0.2	106	0.09	0.072	9	15	0.41	87	0.022	1	2.10
CG-M51	Soil			7.4	724	3.85	12.3	0.6	0.3	27	0.3	0.7	0.1	82	0.29	0.062	9	13	0.36	80	0.039	<1	1.31
CG-N51	Soil			8.0	380	3.85	10.5	<0.5	1.0	14	0.1	0.5	0.1	72	0.14	0.072	9	13	0.54	132	0.015	1	2.55
CG-O51	Soil			11.0	6897	3.59	2.4	<0.5	<0.1	26	0.2	0.2	<0.1	46	0.40	0.149	8	5	0.58	94	0.016	2	2.02
CG-P51	Soil			5.1	572	3.81	7.3	<0.5	1.5	24	<0.1	0.4	0.2	68	0.07	0.131	9	13	0.31	81	0.026	<1	3.05
CG-A50	Soil			3.7	284	3.07	5.7	<0.5	<0.1	25	0.9	0.5	0.1	70	0.23	0.098	13	12	0.11	93	0.034	1	0.89
CG-B50	Soil			9.2	604	4.42	12.9	0.9	0.2	33	0.3	0.9	0.2	95	0.43	0.081	13	16	0.57	69	0.042	<1	2.00
CG-C50	Soil			13.5	923	4.02	13.5	2.7	0.4	20	0.4	0.8	0.1	79	0.15	0.064	9	16	0.63	160	0.014	<1	2.47
CG-E50	Soil			4.4	779	3.52	11.2	<0.5	0.4	10	0.2	0.6	0.2	80	0.14	0.201	6	10	0.22	76	0.039	<1	1.34
CG-F50	Soil			17.1	1256	5.09	15.1	1.3	1.5	51	0.2	1.9	0.1	114	0.41	0.082	16	15	0.62	278	0.009	2	1.75
CG-G50	Soil			6.4	533	5.51	12.1	0.6	1.2	9	0.1	0.7	0.1	136	0.06	0.164	5	16	0.35	68	0.046	<1	2.88
CG-H50	Soil			14.2	777	4.74	14.4	0.9	0.9	16	0.1	0.8	<0.1	84	0.15	0.103	7	15	0.61	146	0.007	<1	2.32
CG-I50	Soil			9.3	608	3.87	14.8	0.7	0.6	17	0.2	0.8	0.1	71	0.17	0.093	15	17	0.59	87	0.026	2	3.04
CG-J50	Soil			4.4	430	3.61	7.6	<0.5	0.1	9	0.2	0.6	0.1	92	0.08	0.087	4	12	0.20	73	0.021	<1	1.59
CG-K50	Soil			6.2	785	4.23	8.4	<0.5	0.2	14	0.4	0.5	0.1	88	0.15	0.111	6	12	0.20	81	0.026	<1	1.96
CG-L50	Soil			7.6	711	4.25	11.9	<0.5	0.3	16	0.1	0.8	0.2	96	0.14	0.074	11	13	0.38	54	0.054	1	1.54
CG-M50	Soil			10.0	1071	5.20	14.8	0.9	0.3	11	0.3	0.9	0.1	106	0.07	0.122	11	14	0.43	48	0.051	<1	1.46
CG-N50	Soil			13.4	1183	4.00	11.6	<0.5	0.2	70	0.6	0.6	0.1	84	0.58	0.090	16	14	0.56	221	0.011	<1	2.25
CG-O50	Soil			9.0	528	5.43	15.2	<0.5	1.2	9	0.1	0.7	0.1	106	0.08	0.271	6	21	0.60	58	0.033	<1	3.58

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Project: COLE
 Report Date: November 02, 2012

Page: 2 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1DX15 Na	1DX15 K	1DX15 W	1DX15 Hg	1DX15 Sc	1DX15 TI	1DX15 S	1DX15 Ga	1DX15 Se	1DX15 Te
				%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
CG-A51	Soil			0.014	0.05	<0.1	0.05	2.3	<0.1	<0.05	8	<0.5	<0.2
CG-B51	Soil			0.013	0.07	<0.1	0.10	2.0	<0.1	0.07	7	0.5	<0.2
CG-C51	Soil			0.052	0.14	<0.1	0.03	10.9	<0.1	<0.05	7	<0.5	<0.2
CG-D51	Soil			0.022	0.12	0.2	0.05	11.1	0.1	<0.05	6	0.5	<0.2
CG-E51	Soil			0.010	0.05	<0.1	0.07	6.0	<0.1	<0.05	8	<0.5	<0.2
CG-F51	Soil			0.010	0.08	<0.1	0.03	8.1	<0.1	<0.05	6	<0.5	<0.2
CG-G51	Soil			0.008	0.04	0.1	0.06	4.3	<0.1	<0.05	7	<0.5	<0.2
CG-H51	Soil			0.014	0.05	<0.1	0.07	5.1	<0.1	<0.05	6	0.7	<0.2
CG-I51	Soil			0.012	0.10	0.1	0.02	9.1	<0.1	<0.05	6	<0.5	<0.2
CG-J51	Soil			0.007	0.08	<0.1	0.03	4.2	0.1	<0.05	5	<0.5	<0.2
CG-K51	Soil			0.011	0.05	<0.1	0.06	8.4	<0.1	<0.05	7	<0.5	<0.2
CG-L51	Soil			0.009	0.05	<0.1	0.07	3.2	<0.1	<0.05	9	<0.5	<0.2
CG-M51	Soil			0.009	0.05	<0.1	0.05	2.9	<0.1	<0.05	6	<0.5	<0.2
CG-N51	Soil			0.010	0.06	<0.1	0.04	4.9	<0.1	<0.05	7	<0.5	<0.2
CG-O51	Soil			0.020	0.05	<0.1	0.13	2.7	<0.1	<0.05	9	<0.5	<0.2
CG-P51	Soil			0.009	0.06	<0.1	0.07	3.4	<0.1	<0.05	9	<0.5	<0.2
CG-A50	Soil			0.013	0.05	<0.1	0.05	2.0	<0.1	0.05	6	<0.5	<0.2
CG-B50	Soil			0.012	0.06	<0.1	0.06	3.8	<0.1	<0.05	9	<0.5	<0.2
CG-C50	Soil			0.017	0.08	<0.1	0.05	4.7	<0.1	<0.05	8	<0.5	<0.2
CG-E50	Soil			0.013	0.05	<0.1	0.05	2.6	<0.1	<0.05	9	<0.5	<0.2
CG-F50	Soil			0.012	0.09	<0.1	0.03	13.0	<0.1	<0.05	6	0.7	<0.2
CG-G50	Soil			0.010	0.05	0.1	0.07	5.3	<0.1	<0.05	10	<0.5	<0.2
CG-H50	Soil			0.009	0.07	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
CG-I50	Soil			0.012	0.07	<0.1	0.09	6.5	<0.1	<0.05	5	<0.5	<0.2
CG-J50	Soil			0.008	0.04	<0.1	0.07	2.2	<0.1	<0.05	8	<0.5	<0.2
CG-K50	Soil			0.009	0.05	<0.1	0.09	2.3	<0.1	<0.05	8	<0.5	<0.2
CG-L50	Soil			0.011	0.04	<0.1	0.05	3.9	<0.1	<0.05	9	<0.5	<0.2
CG-M50	Soil			0.012	0.05	<0.1	0.06	3.7	<0.1	0.07	8	0.6	<0.2
CG-N50	Soil			0.011	0.09	<0.1	0.05	3.4	<0.1	<0.05	8	<0.5	<0.2
CG-O50	Soil			0.011	0.05	<0.1	0.10	5.0	<0.1	<0.05	9	0.6	<0.2



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Project: COLE
 Report Date: November 02, 2012

Page: 3 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-P50	Soil			1	23	10	78	0.3	7	9	447	6.21	18	<2	<2	15	<0.5	<3	<3	126	0.11	0.202	5
CG-A49	Soil			1	21	10	119	<0.3	11	14	1350	3.99	13	<2	<2	27	<0.5	<3	<3	84	0.41	0.092	16
CG-B49	Soil			2	60	10	59	0.5	10	19	1442	3.73	8	<2	<2	13	1.1	<3	<3	77	0.15	0.104	19
CG-C49	Soil			2	95	15	74	1.0	12	9	493	4.44	13	<2	<2	23	1.2	<3	<3	76	0.22	0.078	18
CG-E49	Soil			<1	25	9	99	<0.3	4	12	2094	4.91	12	<2	<2	26	<0.5	<3	<3	139	0.29	0.088	7
CG-F49	Soil			1	44	11	135	<0.3	10	18	1591	4.44	11	<2	<2	44	0.5	<3	<3	105	0.65	0.107	10
CG-G49	Soil			2	18	5	74	<0.3	10	12	843	5.05	15	<2	<2	6	<0.5	<3	<3	86	0.06	0.195	4
CG-H49	Soil			2	37	10	70	<0.3	13	17	933	4.60	17	<2	<2	35	<0.5	<3	<3	81	0.42	0.096	14
CG-I49	Soil			2	78	8	66	0.9	8	6	223	2.20	8	<2	<2	16	<0.5	<3	<3	46	0.16	0.122	24
CG-J49	Soil			2	15	4	54	<0.3	5	7	521	4.06	9	<2	<2	6	<0.5	<3	<3	96	0.05	0.129	7
CG-K49	Soil			3	46	7	92	0.5	11	15	1062	4.86	15	<2	<2	14	0.6	<3	<3	84	0.09	0.077	17
CG-L49	Soil			3	20	4	47	<0.3	6	7	392	3.40	11	<2	<2	10	<0.5	<3	<3	72	0.06	0.063	11
CG-M49	Soil			3	27	3	72	<0.3	9	9	824	5.00	15	<2	<2	16	<0.5	<3	<3	113	0.10	0.127	11
CG-N49	Soil			1	31	8	82	<0.3	11	14	1297	3.76	20	<2	<2	33	<0.5	<3	<3	70	0.36	0.080	17
CG-O49	Soil			1	12	4	82	<0.3	7	11	626	3.78	9	<2	<2	14	<0.5	<3	<3	72	0.18	0.121	7
CG-P49	Soil			2	5	4	55	<0.3	4	5	306	5.43	6	<2	<2	6	0.5	<3	<3	112	0.07	0.140	5
CG-A34	Soil			2	31	20	159	<0.3	8	16	1707	4.35	41	<2	<2	20	0.5	<3	<3	88	0.30	0.097	9
CG-A35	Soil			2	35	22	161	<0.3	10	17	1603	4.76	47	<2	<2	26	0.6	<3	<3	101	0.42	0.099	12
CG-A36	Soil			2	18	17	135	<0.3	7	11	841	5.06	44	<2	<2	8	<0.5	<3	<3	104	0.05	0.103	7
CG-A37	Soil			1	17	7	111	<0.3	7	10	766	3.83	21	<2	<2	19	<0.5	<3	<3	101	0.25	0.154	5
CG-A38	Soil			1	15	14	173	<0.3	6	7	322	4.00	25	<2	<2	6	<0.5	<3	<3	80	0.05	0.133	6
CG-A39	Soil			1	14	12	125	<0.3	6	7	378	4.30	21	<2	<2	7	<0.5	<3	<3	102	0.04	0.112	6
CG-A40	Soil			<1	11	10	89	<0.3	6	9	1337	4.49	18	<2	<2	6	<0.5	<3	<3	126	0.10	0.201	8
CG-A41	Soil			1	19	6	60	<0.3	7	8	601	3.47	15	<2	<2	9	<0.5	<3	<3	78	0.10	0.116	6
CG-A42	Soil			2	36	11	77	0.5	9	8	657	4.47	15	<2	<2	9	<0.5	<3	<3	89	0.09	0.074	15
CG-A43	Soil			3	18	6	68	0.7	6	6	376	3.66	12	<2	<2	14	<0.5	<3	<3	77	0.16	0.078	18
CG-A44	Soil			2	13	3	64	<0.3	7	7	334	5.15	15	<2	<2	8	<0.5	<3	<3	105	0.08	0.066	5
CG-G06	Soil			1	6	<3	41	<0.3	5	4	229	3.76	8	<2	<2	8	<0.5	<3	<3	74	0.09	0.065	6
CG-G08	Soil			<1	8	5	60	<0.3	6	5	293	3.50	9	<2	<2	8	<0.5	<3	<3	68	0.08	0.108	6
CG-G09	Soil			<1	7	5	38	<0.3	4	4	222	4.86	11	<2	<2	7	<0.5	<3	<3	92	0.07	0.522	5

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Page: 3 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D TI	1D Hg	Ga	S	1D Sc	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni
				ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-P50	Soil			19	0.42	92	0.033	<20	3.04	0.01	0.05	<2	<5	<1	10	<0.05	<5	1.4	23.0	10.0	73	0.4	7.5
CG-A49	Soil			14	0.71	142	0.045	<20	2.28	0.02	0.07	<2	<5	<1	7	<0.05	7	1.5	21.9	10.2	112	0.1	11.1
CG-B49	Soil			15	0.46	55	0.064	<20	2.20	0.02	0.05	<2	<5	<1	8	0.08	<5	1.9	55.9	9.2	56	0.7	9.9
CG-C49	Soil			16	0.49	182	0.018	<20	2.96	0.01	0.07	<2	<5	<1	9	0.05	<5	2.1	91.0	14.9	71	1.0	12.6
CG-E49	Soil			13	0.27	197	0.013	<20	1.74	0.01	0.07	<2	<5	<1	10	<0.05	<5	1.2	26.7	10.3	92	0.3	5.7
CG-F49	Soil			11	0.71	260	0.015	<20	1.34	0.01	0.11	<2	<5	<1	6	<0.05	12	1.2	45.3	9.6	123	0.1	10.4
CG-G49	Soil			17	0.55	60	0.008	<20	2.98	<0.01	0.04	<2	<5	<1	8	<0.05	<5	1.5	21.6	7.1	70	0.2	10.8
CG-H49	Soil			15	0.73	201	0.006	<20	2.26	<0.01	0.07	<2	<5	<1	7	<0.05	7	1.8	41.0	6.7	65	<0.1	14.0
CG-I49	Soil			24	0.42	110	0.041	<20	3.92	<0.01	0.05	<2	<5	<1	8	0.09	<5	1.7	75.0	11.1	56	0.9	7.5
CG-J49	Soil			11	0.31	61	0.031	<20	1.67	<0.01	0.06	<2	<5	<1	11	<0.05	<5	2.1	17.6	8.3	53	0.2	5.9
CG-K49	Soil			17	0.55	98	0.036	<20	2.97	0.01	0.06	<2	<5	<1	8	0.05	<5	2.9	53.9	11.4	89	0.6	10.6
CG-L49	Soil			12	0.36	38	0.063	<20	1.62	0.01	0.04	<2	<5	<1	6	<0.05	<5	3.0	22.9	6.9	44	0.2	6.3
CG-M49	Soil			17	0.41	70	0.039	<20	1.90	0.01	0.04	<2	<5	<1	11	0.08	<5	2.8	29.4	9.9	62	0.3	9.0
CG-N49	Soil			15	0.67	188	0.014	<20	2.45	<0.01	0.07	<2	<5	<1	8	<0.05	<5	1.5	36.4	10.7	82	0.3	10.5
CG-O49	Soil			15	0.38	102	0.049	<20	2.17	0.01	0.05	<2	<5	<1	9	<0.05	<5	1.4	14.6	8.9	78	0.2	6.8
CG-P49	Soil			14	0.23	62	0.085	<20	2.04	0.01	0.04	<2	<5	<1	14	<0.05	<5	2.0	7.5	9.9	52	0.2	3.8
CG-A34	Soil			12	0.59	100	0.012	<20	1.42	0.01	0.09	<2	<5	<1	7	<0.05	<5	1.7	33.3	23.5	149	0.1	8.1
CG-A35	Soil			14	0.67	128	0.021	<20	1.52	0.02	0.10	<2	<5	<1	6	<0.05	7	1.9	38.0	26.9	154	0.2	9.6
CG-A36	Soil			13	0.54	73	0.009	<20	2.46	<0.01	0.06	<2	<5	<1	9	<0.05	5	2.3	22.3	25.4	132	0.1	6.9
CG-A37	Soil			12	0.53	80	0.017	<20	1.64	0.05	0.08	<2	<5	<1	7	<0.05	<5	1.4	19.2	14.2	102	0.1	5.8
CG-A38	Soil			13	0.40	51	0.023	<20	3.27	<0.01	0.04	<2	<5	<1	8	<0.05	6	1.5	17.6	26.1	166	0.3	5.7
CG-A39	Soil			18	0.40	52	0.033	<20	2.87	<0.01	0.04	<2	<5	<1	11	<0.05	<5	1.5	18.3	16.8	125	0.4	6.4
CG-A40	Soil			13	0.41	64	0.077	<20	1.51	0.01	0.07	<2	<5	<1	12	<0.05	<5	0.8	13.4	18.5	74	0.3	4.5
CG-A41	Soil			13	0.39	55	0.040	<20	1.74	0.01	0.05	<2	<5	<1	6	<0.05	<5	0.9	22.9	11.1	58	0.3	7.3
CG-A42	Soil			23	0.50	69	0.096	<20	3.47	0.01	0.05	<2	<5	<1	10	0.07	<5	2.4	41.3	13.1	73	0.6	8.2
CG-A43	Soil			19	0.38	127	0.094	<20	2.72	0.02	0.04	<2	<5	<1	8	0.05	<5	2.6	22.8	12.7	67	1.0	6.5
CG-A44	Soil			16	0.37	71	0.041	<20	2.52	<0.01	0.05	<2	<5	<1	9	<0.05	<5	1.9	16.2	9.1	61	0.1	6.5
CG-G06	Soil			19	0.30	31	0.084	<20	3.17	<0.01	0.03	<2	<5	<1	6	<0.05	<5	1.3	8.0	8.2	35	0.1	4.4
CG-G08	Soil			16	0.38	62	0.067	<20	2.74	<0.01	0.06	<2	<5	<1	7	<0.05	<5	0.7	10.1	7.6	54	0.1	5.7
CG-G09	Soil			16	0.26	37	0.072	<20	2.78	<0.01	0.04	<2	<5	<1	10	<0.05	<5	0.7	9.2	7.9	34	0.1	4.1



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Project: COLE
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Page: 3 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
				ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%		
				0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-P50	Soil			8.2	416	5.90	16.0	<0.5	0.8	15	0.2	1.0	0.1	117	0.10	0.183	5	18	0.44	82	0.041	1	2.93
CG-A49	Soil			12.6	1258	3.86	12.3	1.0	0.8	27	0.4	0.7	0.1	81	0.37	0.082	15	15	0.65	130	0.047	<1	2.13
CG-B49	Soil			17.1	1301	3.52	8.0	<0.5	0.2	13	1.1	0.6	0.1	72	0.14	0.096	18	15	0.47	51	0.055	2	2.07
CG-C49	Soil			8.2	479	4.43	12.5	0.7	0.1	24	1.2	0.5	0.2	74	0.21	0.069	17	17	0.52	168	0.016	<1	2.81
CG-E49	Soil			11.6	2000	5.02	11.1	<0.5	0.3	27	0.3	1.1	0.2	138	0.27	0.080	6	14	0.30	187	0.012	<1	1.71
CG-F49	Soil			16.3	1509	4.34	10.7	1.6	1.4	47	0.4	1.7	<0.1	97	0.62	0.101	10	13	0.65	237	0.014	3	1.25
CG-G49	Soil			12.0	828	6.13	14.4	2.6	1.0	6	<0.1	0.7	<0.1	87	0.06	0.205	4	17	0.58	62	0.008	1	2.95
CG-H49	Soil			17.1	929	5.47	16.8	4.9	1.1	34	0.2	0.8	<0.1	83	0.40	0.100	14	15	0.77	204	0.006	2	2.19
CG-I49	Soil			6.0	200	2.13	6.9	2.4	0.1	14	0.3	0.4	0.1	44	0.16	0.117	22	23	0.43	101	0.039	2	3.47
CG-J49	Soil			6.5	469	4.70	8.6	<0.5	0.6	5	<0.1	0.4	0.1	96	0.05	0.130	7	12	0.33	61	0.030	1	1.59
CG-K49	Soil			15.6	1090	5.70	16.2	1.9	0.3	14	0.5	0.6	0.1	82	0.10	0.083	17	18	0.56	99	0.034	1	2.87
CG-L49	Soil			7.0	350	3.87	10.1	14.5	0.3	10	0.3	0.5	<0.1	68	0.06	0.064	11	11	0.37	39	0.060	1	1.55
CG-M49	Soil			8.4	763	5.61	12.2	<0.5	0.1	15	0.1	0.7	<0.1	106	0.09	0.123	11	16	0.39	67	0.037	2	1.74
CG-N49	Soil			13.0	1287	4.39	17.9	2.9	0.5	31	0.2	0.5	0.1	69	0.37	0.084	17	15	0.70	183	0.018	1	2.43
CG-O49	Soil			10.3	575	4.28	8.0	2.4	1.1	13	<0.1	0.4	0.1	72	0.19	0.127	7	14	0.41	103	0.053	1	2.16
CG-P49	Soil			4.7	296	6.47	4.9	0.9	0.8	6	0.2	0.4	0.1	111	0.07	0.139	4	14	0.26	60	0.087	1	2.05
CG-A34	Soil			15.5	1680	5.00	39.0	1.3	0.2	19	0.3	1.6	<0.1	89	0.31	0.105	9	11	0.61	99	0.014	2	1.35
CG-A35	Soil			15.9	1594	5.55	41.7	4.0	0.5	25	0.6	1.8	0.2	96	0.38	0.105	12	12	0.70	136	0.020	2	1.51
CG-A36	Soil			10.4	857	5.98	42.4	1.5	1.3	8	<0.1	1.3	0.1	108	0.07	0.106	7	13	0.57	76	0.010	2	2.40
CG-A37	Soil			7.9	650	4.06	19.3	0.9	0.1	18	0.1	0.8	<0.1	87	0.25	0.175	5	10	0.48	86	0.013	<1	1.70
CG-A38	Soil			6.7	304	4.63	21.8	1.2	1.4	6	0.1	0.6	0.1	81	0.06	0.132	6	13	0.42	52	0.029	1	3.16
CG-A39	Soil			7.3	364	5.03	19.1	2.8	1.4	7	<0.1	0.9	0.1	109	0.04	0.119	6	20	0.44	56	0.040	1	2.95
CG-A40	Soil			6.9	911	4.92	14.3	0.6	0.6	6	0.2	0.7	0.1	111	0.09	0.208	8	13	0.33	64	0.068	1	1.48
CG-A41	Soil			8.4	597	4.01	14.0	0.7	0.8	9	0.1	0.4	<0.1	79	0.11	0.121	6	13	0.39	58	0.045	<1	1.71
CG-A42	Soil			7.6	627	5.17	14.5	1.6	0.4	9	0.1	0.5	0.1	86	0.10	0.077	16	22	0.52	67	0.090	2	3.27
CG-A43	Soil			6.3	354	4.30	10.2	1.1	0.6	13	0.2	0.4	<0.1	78	0.16	0.080	19	19	0.43	125	0.097	1	2.85
CG-A44	Soil			6.2	314	5.83	12.5	<0.5	0.8	8	<0.1	0.6	0.1	105	0.09	0.063	5	15	0.37	70	0.047	<1	2.33
CG-G06	Soil			4.0	210	4.08	7.2	1.4	1.9	8	0.1	0.3	<0.1	70	0.09	0.061	6	17	0.30	31	0.088	<1	2.93
CG-G08	Soil			4.6	265	3.78	7.5	1.1	1.4	8	<0.1	0.3	<0.1	66	0.09	0.106	5	16	0.37	60	0.069	<1	2.65
CG-G09	Soil			3.3	202	5.38	9.4	<0.5	1.1	6	0.1	0.2	<0.1	91	0.06	0.498	5	17	0.27	38	0.076	<1	2.74

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Page: 3 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-P50	Soil	0.010	0.05	<0.1	0.07	4.2	<0.1	<0.05	9	<0.5	<0.2
CG-A49	Soil	0.020	0.07	<0.1	0.03	6.8	<0.1	<0.05	6	<0.5	<0.2
CG-B49	Soil	0.014	0.05	<0.1	0.06	3.6	<0.1	<0.05	8	0.5	<0.2
CG-C49	Soil	0.012	0.07	<0.1	0.09	3.2	<0.1	<0.05	9	0.8	<0.2
CG-E49	Soil	0.010	0.07	<0.1	0.05	4.9	<0.1	<0.05	9	<0.5	<0.2
CG-F49	Soil	0.013	0.11	<0.1	0.02	10.9	<0.1	<0.05	5	<0.5	<0.2
CG-G49	Soil	0.006	0.04	0.1	0.05	3.6	<0.1	<0.05	7	0.6	<0.2
CG-H49	Soil	0.007	0.06	0.1	0.03	8.0	<0.1	<0.05	5	<0.5	<0.2
CG-I49	Soil	0.011	0.04	<0.1	0.24	3.5	<0.1	<0.05	8	<0.5	<0.2
CG-J49	Soil	0.008	0.06	<0.1	0.04	4.6	<0.1	<0.05	10	<0.5	<0.2
CG-K49	Soil	0.010	0.05	<0.1	0.11	4.3	<0.1	<0.05	8	0.6	<0.2
CG-L49	Soil	0.009	0.03	0.1	0.06	2.7	<0.1	<0.05	7	<0.5	<0.2
CG-M49	Soil	0.010	0.04	<0.1	0.04	2.9	<0.1	<0.05	10	<0.5	<0.2
CG-N49	Soil	0.010	0.07	<0.1	0.04	5.2	<0.1	<0.05	8	<0.5	<0.2
CG-O49	Soil	0.011	0.05	0.1	0.07	4.0	<0.1	<0.05	8	<0.5	<0.2
CG-P49	Soil	0.010	0.03	<0.1	0.07	2.7	<0.1	<0.05	14	<0.5	<0.2
CG-A34	Soil	0.011	0.09	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
CG-A35	Soil	0.015	0.09	<0.1	0.02	7.3	<0.1	<0.05	5	<0.5	<0.2
CG-A36	Soil	0.010	0.05	<0.1	0.03	5.8	0.1	<0.05	8	<0.5	<0.2
CG-A37	Soil	0.033	0.08	0.1	0.10	2.9	<0.1	<0.05	7	<0.5	<0.2
CG-A38	Soil	0.010	0.04	<0.1	0.10	5.5	<0.1	<0.05	8	<0.5	<0.2
CG-A39	Soil	0.010	0.04	<0.1	0.05	4.7	<0.1	<0.05	11	<0.5	<0.2
CG-A40	Soil	0.010	0.06	<0.1	0.04	3.7	<0.1	<0.05	11	<0.5	<0.2
CG-A41	Soil	0.012	0.04	<0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
CG-A42	Soil	0.012	0.04	0.1	0.14	4.6	<0.1	<0.05	11	0.5	<0.2
CG-A43	Soil	0.016	0.04	0.2	0.15	4.9	<0.1	<0.05	9	<0.5	<0.2
CG-A44	Soil	0.010	0.04	0.1	0.07	3.8	<0.1	<0.05	9	<0.5	<0.2
CG-G06	Soil	0.008	0.03	0.2	0.10	3.7	<0.1	<0.05	7	<0.5	<0.2
CG-G08	Soil	0.009	0.05	0.1	0.08	4.0	<0.1	<0.05	7	<0.5	<0.2
CG-G09	Soil	0.008	0.04	0.2	0.07	3.0	<0.1	<0.05	10	<0.5	<0.2



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Page: 4 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-G10	Soil			<1	8	5	27	<0.3	4	3	152	3.57	7	<2	<2	8	<0.5	<3	<3	82	0.07	0.036	5
CG-G12	Soil			<1	5	<3	22	<0.3	3	2	162	1.98	5	<2	<2	6	<0.5	<3	<3	48	0.05	0.046	6
CG-G14	Soil			2	24	4	43	0.7	8	5	180	1.19	10	<2	<2	20	<0.5	<3	<3	42	0.32	0.096	18
CG-G16	Soil			5	13	<3	38	<0.3	6	5	215	1.73	9	<2	<2	12	<0.5	<3	<3	43	0.12	0.022	7
CG-G17	Soil			1	7	<3	55	<0.3	8	10	725	2.81	6	<2	<2	19	<0.5	<3	<3	73	0.18	0.036	6
CG-G18	Soil			<1	28	5	12	1.7	5	<1	31	0.20	4	<2	<2	11	<0.5	<3	<3	19	0.13	0.246	34
CG-G19	Soil			1	7	<3	35	<0.3	4	4	322	3.59	8	<2	<2	10	<0.5	<3	<3	63	0.12	0.078	6
CG-G20	Soil			<1	10	3	59	<0.3	5	6	351	3.97	11	<2	<2	9	<0.5	<3	<3	64	0.09	0.203	5
CG-G21	Soil			5	3	<3	18	<0.3	<1	<1	284	0.80	9	<2	<2	9	<0.5	<3	<3	15	0.20	0.038	5
CG-G22	Soil			<1	13	4	36	<0.3	5	5	239	2.13	9	<2	<2	13	<0.5	<3	<3	50	0.09	0.030	10
CG-G23	Soil			2	12	4	47	<0.3	5	5	280	3.46	16	<2	<2	7	<0.5	<3	<3	63	0.07	0.055	6
CG-G24	Soil			1	7	7	34	<0.3	4	4	199	4.05	11	<2	<2	6	<0.5	<3	<3	69	0.04	0.058	5
CG-G25	Soil			1	2	9	17	<0.3	2	2	92	1.18	<2	<2	<2	5	<0.5	<3	<3	48	0.04	0.016	7
CG-G26	Soil			<1	6	5	43	<0.3	5	6	657	1.65	4	<2	<2	12	<0.5	<3	<3	35	0.10	0.043	8
CG-G27	Soil			<1	22	9	7	0.4	2	<1	44	0.29	<2	<2	<2	7	<0.5	<3	<3	13	0.05	0.111	15
CG-G28	Soil			1	9	7	40	<0.3	4	4	190	2.96	8	<2	<2	8	<0.5	<3	<3	61	0.08	0.077	7
CG-G29	Soil			1	17	5	37	0.3	6	5	270	2.34	7	<2	<2	10	<0.5	<3	<3	48	0.07	0.045	9
CG-G30	Soil			2	18	7	50	<0.3	7	7	423	3.36	10	<2	<2	9	<0.5	<3	<3	62	0.08	0.042	9
CG-G31	Soil			<1	4	9	21	<0.3	5	4	331	1.38	6	<2	<2	10	<0.5	<3	<3	47	0.09	0.032	5
CG-G32	Soil			1	12	8	58	<0.3	6	6	345	3.86	11	<2	<2	9	<0.5	<3	<3	74	0.09	0.089	7
CG-G33	Soil			<1	9	9	44	<0.3	5	5	232	2.42	6	<2	<2	8	<0.5	<3	<3	63	0.07	0.031	6
CG-G34	Soil			3	22	11	66	<0.3	12	11	443	2.66	8	<2	<2	20	<0.5	<3	<3	70	0.27	0.089	16
CG-G35	Soil			5	25	11	89	<0.3	14	14	882	4.62	27	<2	<2	33	<0.5	<3	<3	85	0.38	0.107	13
CG-G36	Soil			1	20	18	76	<0.3	11	13	1737	4.50	11	<2	<2	7	<0.5	<3	<3	98	0.10	0.298	5
CG-G37	Soil			2	31	8	84	<0.3	12	15	1057	4.39	15	<2	<2	7	<0.5	<3	<3	84	0.06	0.140	7
CG-G38	Soil			2	23	8	93	<0.3	11	11	813	4.72	17	<2	<2	9	<0.5	<3	<3	88	0.11	0.272	5
CG-G39	Soil			2	21	10	59	<0.3	7	8	843	4.16	12	<2	<2	6	<0.5	<3	<3	90	0.04	0.169	5
CG-G40	Soil			2	29	5	80	<0.3	12	15	738	4.44	15	<2	<2	5	<0.5	<3	<3	81	0.02	0.100	6
CG-G41	Soil			3	19	7	64	<0.3	8	11	840	4.36	14	<2	<2	5	<0.5	<3	<3	83	0.02	0.109	5
CG-G42	Soil			1	21	8	67	<0.3	10	12	811	4.42	16	<2	<2	13	<0.5	<3	<3	80	0.12	0.146	6

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Page: 4 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	TI	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni
				ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
CG-G10	Soil			13	0.21	34	0.072	<20	1.96	<0.01	0.03	<2	<5	<1	10	<0.05	<5	0.9	10.4	9.7	26	0.2	3.6
CG-G12	Soil			9	0.19	28	0.085	<20	1.82	<0.01	0.03	<2	<5	<1	7	<0.05	<5	0.9	7.0	10.4	24	0.2	3.1
CG-G14	Soil			25	0.46	74	0.079	<20	2.90	0.01	0.04	<2	<5	<1	<5	0.14	<5	1.3	26.9	9.9	41	0.8	8.0
CG-G16	Soil			12	0.35	66	0.062	<20	1.96	0.01	0.03	<2	<5	<1	<5	<0.05	<5	5.3	15.3	6.1	37	<0.1	6.7
CG-G17	Soil			12	0.64	96	0.096	<20	1.51	0.01	0.06	<2	<5	<1	7	<0.05	<5	1.3	9.1	7.6	52	0.1	7.6
CG-G18	Soil			11	0.09	25	0.013	<20	3.72	<0.01	<0.01	<2	<5	<1	<5	0.33	<5	0.5	26.8	3.7	10	1.7	3.8
CG-G19	Soil			9	0.30	82	0.069	<20	1.67	<0.01	0.04	<2	<5	<1	7	<0.05	<5	1.5	9.0	6.6	35	<0.1	4.1
CG-G20	Soil			12	0.36	42	0.033	<20	2.75	<0.01	0.05	<2	<5	<1	7	<0.05	<5	0.9	12.5	7.2	56	<0.1	5.3
CG-G21	Soil			1	0.07	92	0.013	<20	0.44	0.02	0.08	<2	<5	<1	5	<0.05	<5	4.7	3.5	5.1	19	0.1	0.9
CG-G22	Soil			11	0.39	44	0.027	<20	1.99	<0.01	0.04	<2	<5	<1	7	<0.05	<5	1.2	14.3	7.2	34	0.1	5.5
CG-G23	Soil			13	0.36	47	0.037	<20	2.70	<0.01	0.05	<2	<5	<1	7	<0.05	<5	1.6	15.3	8.7	45	0.4	5.1
CG-G24	Soil			15	0.22	40	0.045	<20	2.81	<0.01	0.03	<2	<5	<1	7	<0.05	<5	1.6	9.0	6.5	32	0.1	3.7
CG-G25	Soil			6	0.19	49	0.008	<20	1.35	0.01	0.02	<2	<5	<1	10	<0.05	<5	1.4	3.5	10.1	17	<0.1	2.7
CG-G26	Soil			10	0.43	51	0.036	<20	1.35	0.01	0.03	<2	<5	<1	5	<0.05	<5	1.2	7.6	5.9	45	0.2	5.8
CG-G27	Soil			9	0.06	53	0.009	<20	2.61	<0.01	0.02	<2	<5	<1	<5	0.10	<5	0.4	24.0	8.4	9	0.4	2.1
CG-G28	Soil			9	0.30	55	0.031	<20	2.21	<0.01	0.03	<2	<5	<1	11	<0.05	<5	1.6	10.8	7.1	41	0.1	3.9
CG-G29	Soil			11	0.46	37	0.025	<20	1.88	<0.01	0.03	<2	<5	<1	5	<0.05	<5	1.2	18.8	5.6	37	0.4	5.9
CG-G30	Soil			13	0.46	53	0.047	<20	2.24	<0.01	0.04	<2	<5	<1	7	<0.05	<5	1.7	21.7	7.6	52	0.2	7.2
CG-G31	Soil			13	0.18	54	0.068	<20	0.86	0.01	0.04	<2	<5	<1	6	<0.05	<5	1.1	5.0	10.1	24	0.3	4.8
CG-G32	Soil			14	0.40	77	0.050	<20	2.91	<0.01	0.05	<2	<5	<1	9	<0.05	<5	1.9	15.1	8.2	61	0.2	6.5
CG-G33	Soil			9	0.40	50	0.037	<20	1.67	0.01	0.04	<2	<5	<1	9	<0.05	<5	1.1	9.5	9.0	44	0.2	5.3
CG-G34	Soil			17	0.72	78	0.016	<20	2.46	0.02	0.06	<2	<5	<1	6	<0.05	<5	3.6	25.2	10.5	67	0.1	12.7
CG-G35	Soil			14	0.83	112	0.019	<20	2.38	0.02	0.06	<2	<5	<1	7	<0.05	5	5.4	26.7	11.1	82	0.2	12.9
CG-G36	Soil			16	0.66	77	0.023	<20	2.28	0.01	0.07	<2	<5	<1	9	<0.05	<5	1.6	22.8	18.0	65	0.2	9.4
CG-G37	Soil			13	0.69	65	0.005	<20	2.56	<0.01	0.06	<2	<5	<1	6	<0.05	7	1.7	35.7	8.9	84	<0.1	13.0
CG-G38	Soil			15	0.62	63	0.008	<20	2.56	<0.01	0.06	<2	<5	<1	7	<0.05	<5	2.0	25.4	9.7	89	0.1	11.2
CG-G39	Soil			13	0.36	88	0.006	<20	2.54	<0.01	0.06	<2	<5	<1	7	<0.05	<5	2.1	23.8	8.7	58	0.2	7.3
CG-G40	Soil			14	0.65	52	0.005	<20	2.63	<0.01	0.06	<2	<5	<1	6	<0.05	7	2.1	33.5	7.6	79	<0.1	12.6
CG-G41	Soil			12	0.48	77	0.004	<20	2.36	<0.01	0.05	<2	<5	<1	6	<0.05	<5	3.0	23.6	7.7	65	0.1	9.0
CG-G42	Soil			12	0.64	116	0.005	<20	2.32	<0.01	0.06	<2	<5	<1	6	<0.05	<5	1.4	23.9	8.6	66	0.2	11.2



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Project: COLE
 Report Date: November 02, 2012

Page: 4 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
			ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%		
			0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-G10	Soil		2.9	156	4.36	6.6	0.5	0.6	8	0.2	0.2	0.1	85	0.07	0.038	6	13	0.23	37	0.077	2	1.99
CG-G12	Soil		2.6	166	2.03	4.2	2.2	0.6	6	0.1	0.4	0.1	51	0.06	0.052	6	10	0.22	30	0.094	<1	2.01
CG-G14	Soil		5.3	176	1.22	9.7	2.1	0.2	18	0.1	0.4	<0.1	41	0.32	0.096	19	26	0.47	74	0.080	2	2.94
CG-G16	Soil		5.4	224	1.83	7.2	1.6	1.0	11	<0.1	0.4	<0.1	45	0.14	0.022	7	13	0.36	67	0.070	<1	1.91
CG-G17	Soil		9.0	580	2.58	4.9	0.8	0.2	20	0.2	0.3	<0.1	68	0.18	0.040	6	12	0.60	95	0.087	<1	1.50
CG-G18	Soil		1.1	29	0.24	1.8	1.1	0.2	9	0.1	0.2	<0.1	16	0.12	0.205	30	12	0.11	24	0.014	3	3.27
CG-G19	Soil		4.3	302	4.05	7.6	1.1	0.9	10	0.1	0.3	<0.1	66	0.13	0.082	6	10	0.32	82	0.073	2	1.69
CG-G20	Soil		5.3	316	4.40	9.3	0.6	1.7	9	<0.1	0.3	<0.1	59	0.09	0.191	5	12	0.36	41	0.036	1	2.60
CG-G21	Soil		1.2	258	0.91	6.6	<0.5	<0.1	8	<0.1	0.2	<0.1	14	0.20	0.045	5	3	0.07	96	0.013	2	0.43
CG-G22	Soil		5.3	244	2.16	8.4	0.9	0.2	12	<0.1	0.3	<0.1	49	0.10	0.032	10	11	0.42	45	0.027	<1	2.03
CG-G23	Soil		5.3	274	4.10	15.2	1.2	1.6	7	0.1	0.4	<0.1	63	0.07	0.057	6	13	0.38	47	0.036	1	2.71
CG-G24	Soil		3.4	195	4.62	9.8	<0.5	1.8	6	<0.1	0.3	<0.1	68	0.05	0.058	5	15	0.24	41	0.048	2	2.76
CG-G25	Soil		2.4	110	1.16	3.0	<0.5	0.5	6	<0.1	0.4	0.2	54	0.04	0.017	7	6	0.20	50	0.011	3	1.44
CG-G26	Soil		7.0	686	1.71	4.6	<0.5	0.2	13	<0.1	0.3	0.1	40	0.11	0.044	8	11	0.40	49	0.040	3	1.30
CG-G27	Soil		1.0	50	0.32	2.0	1.9	<0.1	7	<0.1	0.2	0.2	16	0.06	0.116	15	10	0.07	53	0.013	2	2.78
CG-G28	Soil		3.9	179	2.79	7.6	<0.5	0.5	8	0.2	0.4	0.2	61	0.08	0.071	6	10	0.27	50	0.035	2	1.99
CG-G29	Soil		5.6	262	2.35	6.8	<0.5	0.1	10	0.1	0.3	<0.1	52	0.08	0.044	9	12	0.42	35	0.027	<1	1.82
CG-G30	Soil		7.5	425	3.49	10.9	<0.5	0.4	10	0.4	0.5	0.1	66	0.09	0.041	9	14	0.46	51	0.053	2	2.18
CG-G31	Soil		4.4	324	1.38	6.1	<0.5	0.2	10	<0.1	0.4	0.2	52	0.09	0.032	6	13	0.19	54	0.068	1	0.93
CG-G32	Soil		6.4	336	3.84	10.5	<0.5	0.8	10	0.2	0.4	0.1	78	0.10	0.085	8	15	0.40	74	0.062	2	2.95
CG-G33	Soil		4.8	221	2.28	6.0	0.8	0.3	9	0.2	0.4	0.1	65	0.07	0.029	6	9	0.35	46	0.042	1	1.55
CG-G34	Soil		11.7	441	2.75	7.8	<0.5	0.5	20	<0.1	0.7	0.1	72	0.26	0.088	15	18	0.71	74	0.021	2	2.46
CG-G35	Soil		12.7	727	4.58	25.7	1.2	0.5	31	0.2	1.0	<0.1	82	0.34	0.110	12	17	0.73	108	0.020	<1	2.28
CG-G36	Soil		10.7	1204	4.45	10.0	1.5	0.3	7	<0.1	0.6	0.1	98	0.08	0.301	5	18	0.51	76	0.031	1	2.23
CG-G37	Soil		14.9	976	4.63	14.6	1.3	1.5	7	<0.1	0.8	<0.1	88	0.06	0.131	7	17	0.65	61	0.007	1	2.53
CG-G38	Soil		10.8	736	4.69	16.5	<0.5	0.9	10	<0.1	1.0	0.1	89	0.09	0.241	5	17	0.55	62	0.011	<1	2.45
CG-G39	Soil		8.4	791	4.21	11.6	<0.5	0.9	7	<0.1	0.6	<0.1	93	0.04	0.149	5	16	0.34	84	0.007	<1	2.55
CG-G40	Soil		15.5	695	4.73	13.9	0.8	1.9	6	<0.1	0.8	0.1	89	0.03	0.088	6	17	0.63	53	0.006	1	2.53
CG-G41	Soil		11.7	813	4.67	13.2	<0.5	1.2	6	<0.1	0.7	<0.1	90	0.03	0.105	5	16	0.50	77	0.005	1	2.52
CG-G42	Soil		12.6	761	4.68	15.2	<0.5	1.0	14	0.2	0.8	<0.1	86	0.12	0.136	6	16	0.64	112	0.007	<1	2.35

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: COLE
 Report Date: November 02, 2012

Page: 4 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-G10	Soil	0.008	0.03	<0.1	0.10	2.7	<0.1	<0.05	11	<0.5	<0.2
CG-G12	Soil	0.009	0.03	0.1	0.06	2.4	<0.1	<0.05	10	<0.5	<0.2
CG-G14	Soil	0.015	0.03	<0.1	0.14	3.7	<0.1	0.06	7	<0.5	<0.2
CG-G16	Soil	0.010	0.03	0.1	0.04	3.8	<0.1	<0.05	4	0.5	<0.2
CG-G17	Soil	0.013	0.05	<0.1	0.02	3.3	<0.1	<0.05	9	<0.5	<0.2
CG-G18	Soil	0.010	<0.01	<0.1	0.21	2.0	<0.1	0.16	2	1.8	<0.2
CG-G19	Soil	0.008	0.03	0.2	0.05	3.0	<0.1	<0.05	9	<0.5	<0.2
CG-G20	Soil	0.009	0.04	0.1	0.08	3.6	<0.1	<0.05	7	<0.5	<0.2
CG-G21	Soil	0.014	0.07	<0.1	0.09	0.6	<0.1	<0.05	5	<0.5	<0.2
CG-G22	Soil	0.010	0.03	0.1	0.05	2.4	<0.1	<0.05	7	<0.5	<0.2
CG-G23	Soil	0.010	0.04	<0.1	0.14	3.8	<0.1	<0.05	7	<0.5	<0.2
CG-G24	Soil	0.009	0.03	0.1	0.10	3.2	<0.1	<0.05	8	<0.5	<0.2
CG-G25	Soil	0.009	0.02	<0.1	0.03	1.7	<0.1	<0.05	11	<0.5	<0.2
CG-G26	Soil	0.014	0.03	<0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
CG-G27	Soil	0.010	0.02	<0.1	0.15	0.8	<0.1	<0.05	5	<0.5	<0.2
CG-G28	Soil	0.008	0.03	0.1	0.06	2.8	<0.1	<0.05	9	<0.5	<0.2
CG-G29	Soil	0.008	0.03	<0.1	0.08	2.0	<0.1	<0.05	6	<0.5	<0.2
CG-G30	Soil	0.008	0.04	0.1	0.08	3.5	<0.1	<0.05	7	<0.5	<0.2
CG-G31	Soil	0.008	0.04	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
CG-G32	Soil	0.010	0.05	<0.1	0.09	3.6	<0.1	<0.05	9	<0.5	<0.2
CG-G33	Soil	0.009	0.04	0.1	0.04	2.5	<0.1	<0.05	8	<0.5	<0.2
CG-G34	Soil	0.015	0.06	0.1	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
CG-G35	Soil	0.015	0.06	0.1	0.05	5.0	<0.1	<0.05	6	<0.5	<0.2
CG-G36	Soil	0.010	0.06	<0.1	0.05	3.2	<0.1	<0.05	8	<0.5	<0.2
CG-G37	Soil	0.007	0.06	<0.1	0.02	6.6	<0.1	<0.05	6	<0.5	<0.2
CG-G38	Soil	0.007	0.06	0.1	0.03	4.2	<0.1	<0.05	7	<0.5	<0.2
CG-G39	Soil	0.007	0.06	<0.1	0.06	3.8	<0.1	<0.05	7	<0.5	<0.2
CG-G40	Soil	0.006	0.07	0.1	0.03	7.2	<0.1	<0.05	6	<0.5	<0.2
CG-G41	Soil	0.007	0.06	0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
CG-G42	Soil	0.007	0.07	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2



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Page: 5 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-G43	Soil			2	33	8	70	<0.3	11	17	936	4.33	17	<2	<2	6	<0.5	<3	<3	77	0.04	0.099	6
CG-G44	Soil			2	27	7	66	<0.3	10	15	884	4.49	32	<2	<2	17	<0.5	<3	<3	87	0.14	0.085	6
CG-G45	Soil			2	27	6	67	<0.3	11	16	974	4.14	15	<2	<2	23	<0.5	<3	<3	74	0.26	0.086	9
CG-A47	Soil			2	25	8	57	<0.3	6	8	579	3.54	11	<2	<2	18	0.6	<3	<3	69	0.30	0.074	14
CG-B47	Soil			1	13	6	44	<0.3	5	5	254	2.71	11	<2	<2	12	<0.5	<3	<3	59	0.11	0.041	6
CG-C47	Soil			<1	16	9	88	<0.3	6	8	897	3.51	16	<2	<2	9	<0.5	<3	<3	73	0.06	0.157	4
CG-E47	Soil			2	37	24	148	<0.3	9	15	1404	4.38	39	<2	<2	24	<0.5	<3	<3	96	0.32	0.123	11
CG-F47	Soil			<1	14	7	42	<0.3	6	6	468	3.58	11	<2	<2	5	<0.5	<3	<3	73	0.04	0.166	4
CG-G47	Soil			1	42	6	71	<0.3	15	18	1257	4.16	15	<2	<2	34	<0.5	<3	<3	75	0.53	0.110	12
CG-H47	Soil			1	30	8	79	<0.3	13	17	1223	4.06	15	<2	<2	29	<0.5	<3	<3	72	0.39	0.134	10
CG-I47	Soil			1	16	5	69	0.4	5	7	304	3.76	10	<2	<2	5	<0.5	<3	<3	70	0.06	0.110	10
CG-J47	Soil			<1	7	<3	31	<0.3	1	1	27	0.59	9	<2	<2	48	<0.5	<3	<3	3	0.45	0.076	9
CG-K47	Soil			<1	14	6	45	<0.3	7	7	297	1.93	5	<2	<2	8	<0.5	<3	<3	37	0.11	0.063	9
CG-L47	Soil			1	14	8	82	<0.3	6	11	1999	3.47	15	<2	<2	9	<0.5	<3	<3	60	0.14	0.180	7
CG-M47	Soil			2	35	9	55	0.4	7	8	459	3.33	10	<2	<2	10	<0.5	<3	<3	60	0.07	0.072	14
CG-N47	Soil			2	22	8	67	<0.3	8	9	449	4.06	13	<2	<2	9	<0.5	<3	<3	71	0.08	0.061	10
CG-O47	Soil			1	24	10	82	<0.3	11	12	707	3.57	12	<2	<2	12	<0.5	<3	<3	61	0.15	0.096	8
CG-P47	Soil			1	18	9	68	<0.3	7	9	496	4.36	12	<2	<2	6	<0.5	<3	<3	74	0.07	0.227	7
CG-D09	Soil			<1	20	8	31	<0.3	5	4	195	2.15	4	<2	<2	8	<0.5	<3	<3	52	0.07	0.028	9
CG-E09	Soil			<1	4	6	22	<0.3	3	3	148	1.60	4	<2	<2	10	<0.5	<3	<3	45	0.07	0.028	4
CG-F09	Soil			<1	26	6	44	<0.3	5	5	305	2.82	9	<2	<2	7	<0.5	<3	<3	61	0.05	0.042	9
CG-H09	Soil			<1	24	7	65	<0.3	9	9	398	2.97	7	<2	<2	13	<0.5	<3	<3	60	0.11	0.015	5
CG-I09	Soil			<1	10	4	32	<0.3	6	6	226	2.00	5	<2	<2	10	<0.5	<3	<3	43	0.12	0.037	7
CG-J09	Soil			3	8	5	27	<0.3	4	4	185	3.67	8	<2	<2	7	<0.5	<3	<3	54	0.08	0.033	4
CG-K09	Soil			1	6	9	21	<0.3	4	2	147	0.67	<2	<2	<2	35	<0.5	<3	<3	8	0.43	0.132	3
CG-L09	Soil			11	12	5	40	<0.3	8	9	2153	2.77	8	<2	<2	12	<0.5	<3	<3	45	0.13	0.042	8
CG-M09	Soil			<1	3	5	12	0.3	1	1	60	1.53	<2	<2	<2	7	<0.5	<3	<3	35	0.07	0.035	6
CG-N09	Soil			<1	6	5	30	<0.3	5	5	230	1.93	4	<2	<2	7	<0.5	<3	<3	40	0.08	0.038	6
CG-O09	Soil			<1	<1	<3	5	<0.3	<1	<1	23	0.39	<2	<2	<2	5	<0.5	<3	<3	15	0.04	0.015	3
CG-P09	Soil			<1	9	10	28	<0.3	5	4	196	1.52	3	<2	<2	8	<0.5	<3	<3	39	0.07	0.037	5



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Project: COLE
 Report Date: November 02, 2012

Page: 5 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D TI	1D Hg	Ga	S	1D Sc	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni
				ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-G43	Soil			14	0.68	73	0.004	<20	2.65	<0.01	0.05	<2	<5	<1	6	<0.05	5	2.2	36.1	8.2	69	<0.1	12.0
CG-G44	Soil			12	0.58	152	0.005	<20	1.97	0.01	0.07	<2	<5	<1	6	<0.05	<5	2.1	29.4	7.0	62	<0.1	10.8
CG-G45	Soil			13	0.73	102	0.005	<20	2.13	<0.01	0.07	<2	<5	<1	<5	<0.05	6	2.2	29.9	7.1	69	0.2	12.6
CG-A47	Soil			12	0.36	62	0.032	<20	2.07	0.01	0.04	<2	<5	<1	7	0.06	<5	1.9	28.7	8.8	59	0.3	6.7
CG-B47	Soil			10	0.39	66	0.023	<20	1.63	0.01	0.03	<2	<5	<1	6	<0.05	<5	1.7	16.0	7.7	48	0.2	6.1
CG-C47	Soil			12	0.37	77	0.031	<20	2.08	<0.01	0.04	<2	<5	<1	6	<0.05	<5	1.2	18.2	9.1	90	0.1	6.5
CG-E47	Soil			10	0.60	163	0.019	<20	1.33	0.01	0.09	<2	<5	<1	5	<0.05	8	2.0	41.4	22.4	142	0.2	9.1
CG-F47	Soil			12	0.35	45	0.008	<20	1.99	<0.01	0.04	<2	<5	<1	7	<0.05	<5	1.5	16.7	7.7	43	0.2	6.8
CG-G47	Soil			13	0.76	178	0.005	<20	1.81	0.01	0.08	<2	<5	<1	<5	<0.05	8	1.6	45.1	6.9	70	0.1	15.8
CG-H47	Soil			13	0.75	201	0.006	<20	1.76	0.01	0.08	<2	<5	<1	<5	<0.05	6	1.6	32.6	6.9	76	<0.1	13.8
CG-I47	Soil			10	0.29	54	0.013	<20	2.70	<0.01	0.04	<2	<5	<1	6	<0.05	<5	1.7	17.6	6.0	71	0.3	5.8
CG-J47	Soil			<1	0.02	120	<0.001	<20	0.32	0.04	0.01	<2	<5	<1	<5	0.23	<5	0.2	7.0	0.7	28	<0.1	1.8
CG-K47	Soil			9	0.51	41	0.022	<20	1.81	0.01	0.03	<2	<5	<1	<5	<0.05	<5	0.8	15.6	6.0	44	0.2	7.5
CG-L47	Soil			12	0.42	86	0.033	<20	2.21	0.01	0.05	<2	<5	<1	6	<0.05	<5	1.6	16.8	7.1	79	0.2	6.9
CG-M47	Soil			11	0.43	48	0.053	<20	2.07	0.01	0.04	<2	<5	<1	7	0.05	<5	2.6	38.3	8.0	57	0.5	7.0
CG-N47	Soil			13	0.50	67	0.043	<20	2.43	0.01	0.04	<2	<5	<1	7	<0.05	<5	2.0	24.4	8.3	65	0.2	8.2
CG-O47	Soil			14	0.64	86	0.023	<20	2.29	<0.01	0.05	<2	<5	<1	6	<0.05	<5	1.7	26.6	10.8	80	0.3	11.2
CG-P47	Soil			12	0.41	74	0.027	<20	3.43	<0.01	0.04	<2	<5	<1	9	<0.05	<5	1.4	19.4	9.3	62	0.2	6.9
CG-D09	Soil			13	0.30	34	0.068	<20	2.27	0.01	0.03	<2	<5	<1	8	<0.05	<5	1.1	23.4	9.1	32	0.2	5.9
CG-E09	Soil			6	0.21	36	0.069	<20	0.81	0.01	0.05	<2	<5	<1	8	<0.05	<5	0.7	5.5	7.4	26	0.1	3.3
CG-F09	Soil			13	0.31	52	0.057	<20	2.65	<0.01	0.06	<2	<5	<1	8	<0.05	<5	1.2	31.8	7.0	46	0.3	5.9
CG-H09	Soil			14	0.60	98	0.056	<20	2.03	0.01	0.07	<2	<5	<1	7	<0.05	<5	1.0	28.9	7.2	69	<0.1	9.2
CG-I09	Soil			10	0.40	59	0.056	<20	1.55	0.01	0.04	<2	<5	<1	<5	<0.05	<5	0.4	12.9	5.4	35	<0.1	7.5
CG-J09	Soil			13	0.27	49	0.061	<20	2.14	<0.01	0.04	<2	<5	<1	6	<0.05	<5	3.3	10.9	6.6	29	0.3	5.5
CG-K09	Soil			4	0.04	38	0.002	<20	0.26	0.04	0.07	<2	<5	<1	<5	0.32	<5	1.5	6.8	3.4	20	0.1	2.8
CG-L09	Soil			14	0.46	64	0.036	<20	2.04	0.01	0.07	<2	<5	<1	7	<0.05	<5	12.2	16.6	5.4	45	0.3	9.6
CG-M09	Soil			5	0.05	50	0.031	<20	0.99	0.01	0.03	<2	<5	<1	6	<0.05	<5	1.3	5.3	5.9	14	0.4	1.6
CG-N09	Soil			11	0.29	41	0.046	<20	2.33	<0.01	0.04	<2	<5	<1	6	<0.05	<5	1.0	8.9	6.0	33	0.3	5.5
CG-O09	Soil			2	0.02	23	0.018	<20	0.41	<0.01	0.02	<2	<5	<1	<5	<0.05	<5	0.2	1.4	4.0	7	<0.1	0.5
CG-P09	Soil			13	0.31	50	0.023	<20	1.83	<0.01	0.08	<2	<5	<1	11	<0.05	<5	0.4	11.3	7.8	31	0.2	6.0



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Page: 5 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
			ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	
			0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-G43	Soil		17.3	919	4.51	15.6	1.2	1.5	7	0.1	0.8	0.1	82	0.05	0.089	6	16	0.68	70	0.005	<1	2.63
CG-G44	Soil		14.9	776	4.66	27.6	<0.5	0.8	15	0.2	1.0	<0.1	90	0.12	0.073	5	15	0.54	131	0.006	<1	1.94
CG-G45	Soil		16.1	909	4.26	13.8	<0.5	0.9	23	0.1	0.9	<0.1	78	0.25	0.078	9	15	0.69	100	0.006	<1	2.02
CG-A47	Soil		8.1	568	3.70	11.2	1.3	0.1	18	0.6	0.6	<0.1	74	0.29	0.075	13	15	0.36	58	0.034	<1	2.07
CG-B47	Soil		5.6	259	2.84	10.4	<0.5	0.2	12	0.2	0.6	<0.1	63	0.12	0.040	6	12	0.37	66	0.033	<1	1.62
CG-C47	Soil		8.7	861	3.54	16.0	<0.5	0.9	10	0.1	0.8	<0.1	78	0.06	0.144	4	14	0.34	75	0.042	<1	1.91
CG-E47	Soil		15.5	1332	4.51	37.5	0.5	1.1	25	0.3	2.3	0.1	98	0.30	0.114	12	13	0.57	157	0.019	3	1.28
CG-F47	Soil		6.3	449	3.59	10.7	<0.5	0.7	6	0.1	0.7	<0.1	79	0.05	0.147	4	13	0.33	45	0.010	<1	1.96
CG-G47	Soil		18.1	1202	4.50	14.7	1.8	1.3	33	0.3	0.9	<0.1	82	0.51	0.100	12	16	0.73	166	0.008	1	1.81
CG-H47	Soil		15.9	1073	4.27	13.7	<0.5	1.1	28	0.2	1.1	<0.1	78	0.34	0.117	10	15	0.70	180	0.008	<1	1.60
CG-I47	Soil		7.2	274	3.67	8.9	0.6	2.2	6	0.3	0.5	<0.1	76	0.07	0.095	9	11	0.27	52	0.019	<1	2.64
CG-J47	Soil		1.4	30	0.52	8.6	<0.5	<0.1	42	0.1	0.1	<0.1	4	0.37	0.062	7	3	0.02	101	0.002	7	0.30
CG-K47	Soil		6.9	278	1.76	5.2	3.0	0.2	10	<0.1	0.5	<0.1	38	0.12	0.059	10	10	0.47	40	0.029	<1	1.69
CG-L47	Soil		10.8	1802	3.54	14.2	<0.5	0.2	10	0.2	0.6	<0.1	62	0.14	0.158	7	13	0.38	83	0.040	<1	2.03
CG-M47	Soil		7.5	436	3.25	10.7	<0.5	0.2	10	0.6	0.6	0.2	59	0.08	0.066	13	12	0.40	46	0.053	<1	1.89
CG-N47	Soil		8.2	429	4.16	13.2	1.9	0.8	10	0.3	0.7	0.1	72	0.09	0.051	9	14	0.46	62	0.050	<1	2.14
CG-O47	Soil		11.3	657	3.50	11.5	<0.5	0.4	14	0.2	0.8	0.1	62	0.16	0.080	8	16	0.59	79	0.031	<1	2.14
CG-P47	Soil		8.1	451	4.26	10.8	<0.5	1.1	8	0.1	0.6	0.1	73	0.08	0.187	6	15	0.36	69	0.034	<1	3.11
CG-D09	Soil		4.2	214	2.39	4.3	3.3	0.6	11	<0.1	0.3	0.1	57	0.09	0.029	9	16	0.31	37	0.075	3	2.35
CG-E09	Soil		2.7	174	1.78	5.0	2.0	0.2	13	<0.1	0.3	0.1	49	0.09	0.030	5	8	0.22	39	0.078	3	0.88
CG-F09	Soil		5.7	349	3.20	8.1	3.8	0.7	9	0.1	0.5	0.1	67	0.06	0.041	10	15	0.31	56	0.064	3	2.81
CG-H09	Soil		8.6	416	3.14	6.4	2.6	1.2	16	0.2	0.5	0.1	63	0.13	0.015	6	16	0.61	103	0.058	2	2.15
CG-I09	Soil		5.8	253	2.20	5.1	2.3	0.8	13	<0.1	0.3	<0.1	48	0.14	0.036	8	12	0.43	62	0.065	2	1.71
CG-J09	Soil		4.2	202	3.91	8.9	2.7	1.3	9	0.3	0.3	<0.1	59	0.10	0.032	4	15	0.27	52	0.069	2	2.18
CG-K09	Soil		2.2	153	0.66	0.9	5.3	<0.1	35	0.2	0.2	<0.1	8	0.39	0.131	3	5	0.04	37	0.004	6	0.27
CG-L09	Soil		9.3	2390	3.17	9.0	3.7	0.4	15	0.1	0.4	0.1	53	0.16	0.045	8	18	0.49	73	0.044	2	2.32
CG-M09	Soil		1.4	81	1.73	1.9	2.2	0.4	9	<0.1	0.3	0.1	41	0.09	0.036	7	7	0.07	55	0.037	1	1.15
CG-N09	Soil		4.8	259	2.16	4.1	2.1	0.6	9	<0.1	0.3	<0.1	46	0.11	0.043	6	14	0.32	44	0.061	1	2.61
CG-O09	Soil		0.4	40	0.48	1.7	3.0	0.1	7	<0.1	0.5	<0.1	18	0.06	0.016	3	3	0.02	26	0.028	<1	0.48
CG-P09	Soil		4.2	225	1.72	2.7	1.7	0.3	10	<0.1	0.2	0.1	45	0.08	0.041	5	15	0.33	58	0.032	1	2.04

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Page: 5 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Na	1DX15 K	1DX15 W	1DX15 Hg	1DX15 Sc	1DX15 TI	1DX15 S	1DX15 Ga	1DX15 Se	1DX15 Te
				%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
CG-G43	Soil			0.009	0.06	0.1	0.04	5.6	<0.1	<0.05	6	<0.5	<0.2
CG-G44	Soil			0.009	0.07	<0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
CG-G45	Soil			0.008	0.07	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
CG-A47	Soil			0.013	0.04	0.1	0.08	2.6	<0.1	<0.05	8	<0.5	<0.2
CG-B47	Soil			0.009	0.03	0.1	0.08	2.5	<0.1	<0.05	6	<0.5	<0.2
CG-C47	Soil			0.008	0.04	<0.1	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
CG-E47	Soil			0.010	0.09	<0.1	0.02	8.2	<0.1	<0.05	5	<0.5	<0.2
CG-F47	Soil			0.005	0.04	<0.1	0.03	2.9	<0.1	<0.05	7	<0.5	<0.2
CG-G47	Soil			0.009	0.09	<0.1	0.02	8.3	<0.1	<0.05	4	<0.5	<0.2
CG-H47	Soil			0.009	0.08	0.1	0.03	6.5	<0.1	<0.05	4	<0.5	<0.2
CG-I47	Soil			0.008	0.03	0.1	0.06	4.6	<0.1	<0.05	6	<0.5	<0.2
CG-J47	Soil			0.023	0.01	<0.1	<0.01	0.9	<0.1	0.13	<1	<0.5	<0.2
CG-K47	Soil			0.009	0.04	<0.1	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
CG-L47	Soil			0.010	0.04	0.1	0.12	2.4	<0.1	<0.05	6	<0.5	<0.2
CG-M47	Soil			0.010	0.04	<0.1	0.06	3.0	<0.1	<0.05	6	<0.5	<0.2
CG-N47	Soil			0.010	0.05	<0.1	0.05	3.9	<0.1	<0.05	7	<0.5	<0.2
CG-O47	Soil			0.009	0.06	0.2	0.05	3.4	<0.1	<0.05	6	<0.5	<0.2
CG-P47	Soil			0.007	0.04	0.2	0.08	3.9	<0.1	<0.05	8	<0.5	<0.2
CG-D09	Soil			0.010	0.04	0.1	0.07	3.3	<0.1	<0.05	8	<0.5	<0.2
CG-E09	Soil			0.009	0.05	0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
CG-F09	Soil			0.009	0.07	0.2	0.07	4.3	<0.1	<0.05	8	0.6	<0.2
CG-H09	Soil			0.010	0.08	0.2	0.03	4.1	<0.1	<0.05	7	<0.5	<0.2
CG-I09	Soil			0.010	0.04	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
CG-J09	Soil			0.008	0.04	0.2	0.15	2.8	<0.1	<0.05	6	<0.5	<0.2
CG-K09	Soil			0.032	0.07	<0.1	0.04	0.6	<0.1	0.33	<1	<0.5	<0.2
CG-L09	Soil			0.010	0.08	0.1	0.06	3.5	<0.1	<0.05	8	0.5	<0.2
CG-M09	Soil			0.007	0.03	0.1	0.10	1.7	<0.1	<0.05	6	<0.5	<0.2
CG-N09	Soil			0.009	0.05	0.1	0.07	3.3	<0.1	<0.05	6	<0.5	<0.2
CG-O09	Soil			0.005	0.02	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
CG-P09	Soil			0.007	0.09	<0.1	0.05	2.6	<0.1	<0.05	12	<0.5	<0.2



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Project: COLE
 Report Date: November 02, 2012

Page: 6 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-G07	Soil			3	15	7	34	<0.3	5	6	287	3.36	8	<2	<2	11	<0.5	<3	<3	70	0.09	0.031	7
CG-H07	Soil			<1	5	4	36	<0.3	5	5	235	1.90	4	<2	<2	9	<0.5	<3	<3	43	0.08	0.026	6
CG-I07	Soil			<1	10	4	41	<0.3	6	5	209	3.06	5	<2	<2	11	<0.5	<3	<3	57	0.10	0.130	4
CG-J07	Soil			<1	9	7	34	0.7	5	4	161	4.34	7	<2	<2	5	<0.5	<3	<3	81	0.05	0.179	4
CG-K07	Soil			<1	7	7	31	<0.3	5	4	216	3.48	5	<2	<2	8	<0.5	<3	<3	65	0.06	0.127	4
CG-L07	Soil			<1	4	6	5	<0.3	3	1	25	0.16	<2	<2	<2	37	0.8	<3	<3	4	0.50	0.069	17
CG-M07	Soil			1	11	7	45	<0.3	7	6	376	2.75	5	<2	<2	7	<0.5	<3	<3	51	0.07	0.037	8
CG-N07	Soil			<1	7	11	46	0.6	9	4	214	3.12	5	<2	<2	7	<0.5	<3	<3	58	0.09	0.170	4
CG-O07	Soil			<1	7	5	41	<0.3	6	5	236	3.00	4	<2	<2	8	<0.5	<3	<3	72	0.09	0.074	4
CG-P07	Soil			<1	14	7	42	0.4	7	6	231	2.65	6	<2	<2	11	<0.5	<3	<3	56	0.07	0.044	5
CG-A46	Soil			3	59	11	75	0.5	8	9	500	4.36	13	<2	<2	9	<0.5	<3	<3	94	0.06	0.081	14
CG-B46	Soil			1	35	6	33	0.6	4	3	139	0.64	3	<2	<2	21	0.8	<3	<3	24	0.41	0.178	52
CG-C46	Soil			<1	12	9	46	<0.3	5	5	261	4.79	15	<2	<2	5	<0.5	<3	<3	76	0.05	0.056	5
CG-D46	Soil			2	18	20	115	<0.3	5	8	704	4.61	47	<2	<2	6	<0.5	<3	<3	90	0.03	0.052	6
CG-E46	Soil			2	30	11	106	<0.3	9	14	1757	4.23	18	<2	<2	46	<0.5	<3	<3	90	0.56	0.129	14
CG-F46	Soil			1	17	9	74	<0.3	8	11	1916	5.44	13	<2	<2	5	<0.5	<3	<3	96	0.03	0.401	4
CG-G46	Soil			1	34	8	70	<0.3	14	16	911	4.36	15	<2	<2	33	<0.5	10	<3	77	0.46	0.099	11
CG-H46	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.
CG-J46	Soil			<1	11	6	10	0.7	1	<1	20	0.23	<2	<2	<2	11	<0.5	<3	<3	15	0.10	0.171	51
CG-K46	Soil			<1	8	5	99	0.3	2	1	57	0.41	4	<2	<2	19	<0.5	<3	<3	7	0.20	0.147	17
CG-L46	Soil			1	10	8	43	<0.3	5	6	300	4.27	11	<2	<2	10	<0.5	<3	<3	74	0.13	0.053	5
CG-M46	Soil			2	38	10	41	0.6	6	6	416	4.67	10	<2	<2	11	0.7	<3	<3	79	0.13	0.087	16
CG-N46	Soil			2	25	9	62	<0.3	6	7	767	3.93	11	<2	<2	9	<0.5	<3	<3	67	0.09	0.128	9
CG-O46	Soil			3	47	14	52	0.9	8	10	851	3.36	8	<2	<2	19	0.7	<3	<3	69	0.23	0.076	22
CG-P46	Soil			<1	15	8	57	<0.3	3	11	1864	2.48	3	<2	<2	15	<0.5	<3	<3	40	0.14	0.119	9
CG-A11	Soil			5	9	7	30	<0.3	4	5	319	4.21	12	<2	<2	7	<0.5	<3	<3	96	0.06	0.036	5
CG-B11	Soil			2	42	10	40	0.3	6	5	340	3.59	11	<2	<2	10	<0.5	<3	<3	67	0.13	0.067	10
CG-C11	Soil			<1	9	8	35	0.4	4	5	274	2.91	6	<2	<2	9	<0.5	<3	<3	69	0.07	0.039	8
CG-D11	Soil			4	50	11	79	1.0	13	11	493	3.47	17	<2	<2	11	<0.5	<3	<3	66	0.11	0.053	13
CG-E11	Soil			<1	6	14	13	0.6	3	2	50	0.36	<2	<2	<2	10	<0.5	<3	<3	22	0.08	0.036	10

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Page: 6 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	TI	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-G07	Soil			11	0.34	54	0.069	<20	1.44	0.01	0.06	<2	<5	<1	9	<0.05	<5	3.3	18.5	7.6	36	0.3	5.5
CG-H07	Soil			10	0.36	47	0.047	<20	1.67	<0.01	0.05	<2	<5	<1	8	<0.05	<5	0.9	7.7	5.5	39	0.2	5.8
CG-I07	Soil			12	0.29	44	0.042	<20	1.68	<0.01	0.04	<2	<5	<1	7	<0.05	<5	0.9	12.3	6.2	45	0.2	5.8
CG-J07	Soil			16	0.25	34	0.052	<20	3.24	<0.01	0.04	<2	<5	<1	9	<0.05	<5	0.9	11.4	7.3	35	0.7	5.4
CG-K07	Soil			12	0.29	45	0.066	<20	1.91	<0.01	0.05	<2	<5	<1	11	<0.05	<5	0.9	10.0	8.2	34	0.2	5.2
CG-L07	Soil			2	0.03	65	0.003	<20	0.49	0.03	0.02	<2	<5	<1	<5	0.27	<5	0.4	4.6	1.8	6	0.1	2.7
CG-M07	Soil			12	0.43	54	0.044	<20	2.25	<0.01	0.06	<2	<5	<1	7	<0.05	<5	1.6	14.8	7.4	50	0.2	8.3
CG-N07	Soil			14	0.28	29	0.045	<20	2.36	<0.01	0.03	<2	<5	<1	7	<0.05	<5	0.6	9.5	13.6	50	0.7	10.0
CG-O07	Soil			13	0.27	38	0.101	<20	2.04	<0.01	0.04	<2	<5	<1	8	<0.05	<5	0.9	10.1	6.4	45	0.3	6.0
CG-P07	Soil			13	0.34	48	0.072	<20	2.66	<0.01	0.05	<2	<5	<1	5	<0.05	<5	0.7	17.5	6.2	45	0.6	8.0
CG-A46	Soil			16	0.49	81	0.055	<20	2.52	<0.01	0.10	<2	<5	<1	11	<0.05	7	2.9	71.9	12.4	80	0.6	9.6
CG-B46	Soil			9	0.17	56	0.010	<20	2.73	0.02	0.02	<2	<5	<1	<5	0.29	<5	1.6	36.6	6.6	35	0.6	4.7
CG-C46	Soil			8	0.27	42	0.041	<20	2.88	<0.01	0.03	<2	<5	<1	8	<0.05	<5	1.4	16.5	9.0	49	0.2	5.1
CG-D46	Soil			8	0.36	77	0.009	<20	1.65	0.01	0.04	<2	<5	<1	8	<0.05	<5	2.4	24.4	25.0	129	0.2	6.1
CG-E46	Soil			13	0.58	170	0.008	<20	1.55	0.01	0.07	<2	<5	<1	6	<0.05	8	2.7	36.3	13.0	113	0.3	9.6
CG-F46	Soil			16	0.44	56	0.008	<20	3.04	<0.01	0.05	<2	<5	<1	9	<0.05	<5	1.9	22.8	7.9	79	0.3	8.7
CG-G46	Soil			12	0.69	148	0.007	<20	1.82	<0.01	0.08	<2	<5	<1	5	<0.05	7	1.7	45.0	7.0	71	<0.1	15.5
CG-H46	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.
CG-J46	Soil			3	0.02	32	0.005	<20	1.54	0.02	0.01	<2	<5	<1	<5	0.30	<5	0.4	11.8	2.7	11	0.7	1.7
CG-K46	Soil			3	0.04	41	0.003	<20	0.85	0.04	0.02	<2	<5	<1	<5	0.28	<5	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
CG-L46	Soil			11	0.29	69	0.041	<20	1.89	0.01	0.04	<2	<5	<1	10	<0.05	<5	1.5	14.2	8.1	46	0.2	5.9
CG-M46	Soil			15	0.23	63	0.091	<20	2.45	0.01	0.04	<2	<5	<1	10	<0.05	<5	2.8	44.8	10.3	41	0.8	6.4
CG-N46	Soil			12	0.31	61	0.089	<20	1.72	0.01	0.04	<2	<5	<1	8	<0.05	<5	2.1	31.8	10.2	67	0.4	6.0
CG-O46	Soil			13	0.22	85	0.066	<20	1.51	0.01	0.04	<2	<5	<1	7	0.06	<5	3.8	58.4	14.0	58	1.1	9.1
CG-P46	Soil			6	0.12	148	0.015	<20	1.46	0.01	0.05	<2	<5	<1	6	<0.05	<5	1.1	19.0	7.9	64	0.2	3.9
CG-A11	Soil			11	0.19	47	0.102	<20	1.74	<0.01	0.03	<2	<5	<1	9	<0.05	<5	5.0	11.4	8.2	28	0.2	3.6
CG-B11	Soil			14	0.20	66	0.069	<20	1.76	<0.01	0.04	<2	<5	<1	7	<0.05	<5	2.3	45.5	9.5	39	0.4	5.8
CG-C11	Soil			13	0.24	45	0.092	<20	2.27	<0.01	0.04	<2	<5	<1	7	<0.05	<5	1.1	11.7	6.4	34	0.4	4.1
CG-D11	Soil			18	0.66	123	0.023	<20	3.39	<0.01	0.09	<2	<5	<1	10	<0.05	<5	5.0	58.0	9.3	80	1.2	14.0
CG-E11	Soil			12	0.11	50	0.074	<20	1.22	0.01	0.03	<2	<5	<1	8	0.05	<5	1.1	6.9	12.1	14	0.6	3.2

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Page: 6 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
			ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	
			0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-G07	Soil		5.5	322	3.61	8.3	1.9	0.8	13	0.2	0.4	0.1	72	0.10	0.029	8	13	0.36	58	0.078	2	1.55
CG-H07	Soil		5.2	269	2.12	4.9	5.8	0.2	11	0.1	0.4	0.1	46	0.09	0.026	7	11	0.39	52	0.056	1	1.76
CG-I07	Soil		4.4	219	3.19	4.6	0.9	0.7	13	<0.1	0.4	<0.1	61	0.12	0.131	4	14	0.30	47	0.052	1	1.79
CG-J07	Soil		4.0	177	4.31	6.6	1.7	1.2	7	<0.1	0.5	<0.1	84	0.06	0.173	5	19	0.25	36	0.064	1	3.26
CG-K07	Soil		4.1	243	3.61	5.7	2.0	0.8	10	0.1	0.3	0.2	72	0.08	0.125	5	15	0.30	50	0.078	<1	2.10
CG-L07	Soil		1.4	18	0.14	0.7	1.6	<0.1	36	0.7	0.4	<0.1	2	0.46	0.068	17	3	0.02	64	0.004	5	0.46
CG-M07	Soil		6.9	417	3.07	6.3	2.4	0.3	10	0.2	0.5	0.2	59	0.09	0.039	9	15	0.50	65	0.056	1	2.60
CG-N07	Soil		4.4	241	3.38	5.1	1.3	1.0	9	0.1	0.4	0.2	61	0.12	0.167	5	16	0.30	33	0.057	1	2.53
CG-O07	Soil		5.1	276	3.20	4.0	1.6	1.0	11	<0.1	0.4	0.1	76	0.12	0.075	5	16	0.29	45	0.127	2	2.34
CG-P07	Soil		6.2	253	2.79	6.9	5.1	1.8	14	<0.1	0.3	0.1	60	0.09	0.047	5	15	0.39	54	0.087	1	3.04
CG-A46	Soil		8.7	571	4.87	14.2	3.9	1.4	11	0.3	0.7	0.2	100	0.07	0.078	15	18	0.52	91	0.066	3	2.83
CG-B46	Soil		3.1	150	0.65	3.0	3.0	<0.1	21	0.7	0.3	<0.1	24	0.36	0.175	50	11	0.17	57	0.012	2	2.69
CG-C46	Soil		4.8	291	5.15	14.9	2.2	0.8	7	0.1	0.6	<0.1	82	0.06	0.058	5	12	0.29	48	0.054	1	3.05
CG-D46	Soil		9.3	804	5.01	51.8	2.6	0.9	8	0.1	2.2	0.1	101	0.03	0.055	7	10	0.40	90	0.010	1	1.82
CG-E46	Soil		14.8	1774	4.56	18.3	2.8	0.9	53	0.4	1.5	<0.1	99	0.56	0.132	14	16	0.61	182	0.011	1	1.66
CG-F46	Soil		11.4	2020	5.85	14.2	1.8	1.0	6	0.1	0.8	0.1	106	0.04	0.396	4	19	0.48	66	0.011	<1	3.31
CG-G46	Soil		17.9	1079	5.06	15.5	2.0	1.5	38	0.2	0.9	<0.1	91	0.48	0.109	13	16	0.80	173	0.009	2	2.10
CG-H46	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.
CG-J46	Soil		0.7	21	0.23	1.8	2.3	<0.1	10	0.2	0.3	<0.1	15	0.10	0.154	49	5	0.02	32	0.008	4	1.46
CG-K46	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
CG-L46	Soil		5.5	341	4.56	11.1	1.5	0.5	12	0.2	0.7	0.1	79	0.14	0.053	5	15	0.30	77	0.045	1	1.95
CG-M46	Soil		5.5	448	4.81	10.8	2.4	0.6	13	0.5	0.6	0.1	81	0.14	0.091	16	17	0.23	68	0.101	1	2.57
CG-N46	Soil		7.1	855	4.05	10.7	4.8	1.1	11	0.3	0.6	0.1	71	0.11	0.132	9	15	0.33	69	0.095	1	1.82
CG-O46	Soil		11.3	924	3.44	8.5	1.9	0.4	23	0.6	0.5	0.2	76	0.25	0.079	24	16	0.24	95	0.068	2	1.59
CG-P46	Soil		11.7	1888	2.61	2.5	1.7	<0.1	17	0.3	0.3	0.1	42	0.15	0.126	9	7	0.13	159	0.018	1	1.55
CG-A11	Soil		4.0	315	4.18	11.7	2.1	0.8	8	0.2	0.4	0.2	91	0.07	0.034	5	13	0.18	48	0.102	3	1.57
CG-B11	Soil		4.2	346	3.60	9.7	1.3	0.3	12	0.3	0.4	0.1	67	0.13	0.059	10	15	0.18	67	0.068	2	1.69
CG-C11	Soil		4.3	278	2.84	6.0	1.8	1.1	10	0.1	0.4	0.1	67	0.08	0.039	8	13	0.23	46	0.096	<1	2.18
CG-D11	Soil		11.0	508	3.50	17.2	4.2	0.4	13	0.2	0.7	0.1	66	0.12	0.055	13	19	0.65	124	0.024	<1	3.26
CG-E11	Soil		1.6	56	0.39	2.3	1.9	<0.1	11	<0.1	0.3	0.2	23	0.08	0.040	11	13	0.12	53	0.083	<1	1.31

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Project: COLE
 Report Date: November 02, 2012

Page: 6 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-G07	Soil	0.009	0.06	0.1	0.04	2.9	<0.1	<0.05	8	<0.5	<0.2
CG-H07	Soil	0.008	0.05	0.2	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
CG-I07	Soil	0.008	0.05	0.2	0.08	2.6	<0.1	<0.05	7	<0.5	<0.2
CG-J07	Soil	0.008	0.04	0.2	0.13	3.6	<0.1	<0.05	8	<0.5	<0.2
CG-K07	Soil	0.008	0.06	0.2	0.05	2.7	<0.1	<0.05	11	<0.5	<0.2
CG-L07	Soil	0.021	0.02	<0.1	0.02	0.5	<0.1	0.23	<1	1.5	<0.2
CG-M07	Soil	0.010	0.07	0.1	0.06	3.4	<0.1	<0.05	8	<0.5	<0.2
CG-N07	Soil	0.008	0.04	0.1	0.12	2.8	<0.1	<0.05	7	<0.5	<0.2
CG-O07	Soil	0.009	0.05	0.2	0.09	3.2	<0.1	<0.05	8	<0.5	<0.2
CG-P07	Soil	0.009	0.05	0.2	0.10	4.0	<0.1	<0.05	6	<0.5	<0.2
CG-A46	Soil	0.010	0.10	0.1	0.07	7.2	<0.1	<0.05	10	<0.5	<0.2
CG-B46	Soil	0.014	0.02	<0.1	0.15	1.0	<0.1	0.25	4	1.0	<0.2
CG-C46	Soil	0.010	0.03	0.2	0.12	3.6	<0.1	<0.05	8	<0.5	<0.2
CG-D46	Soil	0.008	0.05	0.1	0.03	5.5	0.1	<0.05	9	<0.5	<0.2
CG-E46	Soil	0.012	0.08	<0.1	0.03	8.9	<0.1	<0.05	5	0.9	<0.2
CG-F46	Soil	0.007	0.06	0.1	0.05	4.9	<0.1	<0.05	9	<0.5	<0.2
CG-G46	Soil	0.009	0.09	<0.1	0.04	8.4	<0.1	<0.05	5	<0.5	<0.2
CG-H46	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.
CG-J46	Soil	0.011	<0.01	<0.1	0.09	2.5	<0.1	0.25	1	0.8	<0.2
CG-K46	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
CG-L46	Soil	0.010	0.04	0.1	0.07	2.6	<0.1	<0.05	9	<0.5	<0.2
CG-M46	Soil	0.011	0.04	0.1	0.13	4.3	<0.1	<0.05	10	<0.5	<0.2
CG-N46	Soil	0.009	0.05	0.1	0.08	3.4	<0.1	<0.05	8	<0.5	<0.2
CG-O46	Soil	0.011	0.04	0.1	0.08	4.6	<0.1	0.06	8	<0.5	<0.2
CG-P46	Soil	0.011	0.06	<0.1	0.08	1.2	<0.1	<0.05	6	<0.5	<0.2
CG-A11	Soil	0.007	0.03	0.2	0.05	3.2	<0.1	<0.05	9	0.6	<0.2
CG-B11	Soil	0.007	0.04	0.1	0.12	2.5	<0.1	<0.05	7	<0.5	<0.2
CG-C11	Soil	0.009	0.04	0.2	0.05	3.6	<0.1	<0.05	7	<0.5	<0.2
CG-D11	Soil	0.010	0.09	0.1	0.12	4.7	<0.1	<0.05	9	0.7	<0.2
CG-E11	Soil	0.008	0.02	<0.1	0.06	1.5	0.1	0.06	8	<0.5	<0.2

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Page: 7 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	
CG-F11	Soil			<1	8	5	18	<0.3	3	2	95	0.53	<2	<2	<2	11	<0.5	<3	<3	28	0.13	0.054	8
CG-G11	Soil			<1	7	6	22	<0.3	3	3	142	1.01	3	<2	<2	10	<0.5	<3	<3	31	0.07	0.042	4
CG-H11	Soil			<1	3	7	22	<0.3	2	3	175	3.90	9	<2	<2	8	<0.5	<3	<3	84	0.07	0.045	4
CG-I11	Soil			<1	6	7	25	<0.3	4	4	186	1.54	5	<2	<2	12	<0.5	<3	<3	41	0.10	0.022	5
CG-J11	Soil			<1	7	10	7	0.6	<1	2	74	1.15	25	<2	<2	17	<0.5	<3	<3	28	0.15	0.060	12
CG-K11	Soil			3	9	10	42	<0.3	9	7	285	1.78	<2	<2	<2	15	<0.5	<3	<3	43	0.18	0.027	10
CG-L11	Soil			3	4	5	14	<0.3	2	2	92	2.07	4	<2	<2	10	<0.5	<3	<3	73	0.13	0.023	4
CG-M11	Soil			<1	6	7	26	<0.3	3	4	193	2.08	5	<2	<2	7	<0.5	<3	<3	46	0.08	0.081	4
CG-N11	Soil			<1	11	5	40	<0.3	7	6	223	2.58	6	<2	<2	8	<0.5	<3	<3	56	0.08	0.045	4
CG-O11	Soil			<1	20	10	47	<0.3	9	8	378	3.05	11	<2	<2	16	<0.5	<3	<3	65	0.12	0.055	11
CG-P11	Soil			<1	11	8	40	1.0	5	5	232	3.88	8	<2	<2	8	<0.5	<3	<3	77	0.08	0.183	4
CG-A13	Soil			3	6	6	26	<0.3	2	2	204	3.47	4	<2	<2	7	<0.5	<3	<3	77	0.07	0.033	4
CG-B13	Soil			3	20	21	76	<0.3	3	12	3408	3.60	7	<2	<2	13	<0.5	<3	<3	73	0.15	0.082	7
CG-C13	Soil			2	8	9	26	0.5	3	4	186	4.28	10	<2	<2	8	<0.5	<3	<3	73	0.06	0.051	9
CG-D13	Soil			<1	6	4	36	<0.3	3	4	263	2.77	7	<2	<2	9	<0.5	<3	<3	54	0.09	0.071	3
CG-E13	Soil			<1	3	8	14	<0.3	4	3	98	0.66	3	<2	<2	12	<0.5	<3	<3	36	0.10	0.017	7
CG-F13	Soil			<1	4	7	16	<0.3	2	3	99	1.32	<2	<2	<2	10	<0.5	<3	<3	40	0.08	0.046	5
CG-G13	Soil			<1	7	9	32	<0.3	4	4	204	4.64	12	<2	<2	8	<0.5	<3	<3	87	0.09	0.288	4
CG-H13	Soil			<1	7	6	31	<0.3	2	3	243	3.37	5	<2	<2	9	<0.5	<3	<3	79	0.07	0.103	4
CG-I13	Soil			<1	99	15	12	0.7	4	1	44	0.84	3	<2	<2	11	0.6	<3	<3	29	0.07	0.047	11
CG-J13	Soil			1	20	10	14	0.4	3	4	227	1.15	3	<2	<2	11	<0.5	<3	<3	28	0.09	0.147	13
CG-K13	Soil			<1	2	9	14	<0.3	2	2	95	0.87	3	<2	<2	7	<0.5	<3	<3	37	0.06	0.024	4
CG-L13	Soil			<1	5	9	17	<0.3	3	3	223	1.98	2	<2	<2	10	<0.5	<3	<3	43	0.07	0.051	6
CG-M13	Soil			<1	2	5	7	<0.3	<1	<1	289	0.39	2	<2	<2	9	<0.5	<3	<3	16	0.10	0.033	4
CG-N13	Soil			1	14	7	27	0.5	4	4	215	3.05	7	<2	<2	9	<0.5	<3	<3	61	0.08	0.094	4
CG-O13	Soil			2	30	9	54	1.1	9	16	1865	3.92	7	<2	<2	19	0.8	<3	<3	63	0.48	0.132	14
CG-P13	Soil			2	14	8	32	0.5	4	6	316	3.81	9	<2	<2	10	<0.5	<3	<3	86	0.10	0.073	6
CG-A48	Soil			2	49	12	74	0.6	10	9	492	4.57	14	<2	<2	10	0.7	<3	<3	88	0.08	0.097	17
CG-B48	Soil			1	40	11	49	0.7	6	5	249	2.16	7	<2	<2	13	<0.5	<3	<3	43	0.15	0.138	18
CG-C48	Soil			2	13	10	53	<0.3	5	6	401	3.96	11	<2	<2	14	<0.5	<3	<3	95	0.11	0.033	10

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Page: 7 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D TI	1D Hg	Ga	S	1D Sc	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni
				ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-F11	Soil			6	0.17	40	0.016	<20	1.11	0.01	0.02	<2	<5	<1	<5	0.13	<5	0.6	9.3	3.9	18	0.2	3.3
CG-G11	Soil			7	0.20	35	0.051	<20	1.07	0.01	0.04	<2	<5	<1	6	<0.05	<5	0.7	8.2	6.9	22	0.2	3.5
CG-H11	Soil			11	0.15	36	0.077	<20	1.70	<0.01	0.03	<2	<5	<1	8	<0.05	<5	1.2	6.2	7.2	22	0.2	2.9
CG-I11	Soil			9	0.28	42	0.070	<20	1.20	0.01	0.03	<2	<5	<1	7	<0.05	<5	0.9	7.9	6.4	25	<0.1	4.0
CG-J11	Soil			11	0.04	54	0.036	<20	1.04	0.02	0.03	<2	<5	<1	6	0.08	<5	0.4	8.4	8.6	7	0.7	1.4
CG-K11	Soil			14	0.51	74	0.037	<20	2.13	0.01	0.06	<2	<5	<1	7	<0.05	<5	2.6	10.0	6.4	38	0.1	8.4
CG-L11	Soil			6	0.08	39	0.088	<20	0.58	0.01	0.04	<2	<5	<1	7	<0.05	<5	2.9	5.4	6.3	14	0.1	1.9
CG-M11	Soil			9	0.21	33	0.052	<20	1.41	0.01	0.04	<2	<5	<1	6	<0.05	<5	0.5	7.2	5.5	27	0.2	3.8
CG-N11	Soil			13	0.34	42	0.069	<20	2.17	<0.01	0.05	<2	<5	<1	<5	<0.05	<5	0.6	13.4	5.6	40	0.4	7.0
CG-O11	Soil			17	0.48	62	0.087	<20	2.51	0.01	0.08	<2	<5	<1	7	<0.05	5	1.2	22.6	8.8	46	0.3	8.9
CG-P11	Soil			14	0.30	41	0.075	<20	2.67	<0.01	0.05	<2	<5	<1	8	<0.05	<5	0.7	13.2	6.5	38	1.1	5.3
CG-A13	Soil			10	0.12	64	0.066	<20	1.47	<0.01	0.04	<2	<5	<1	9	<0.05	<5	2.7	7.9	8.4	27	0.2	2.4
CG-B13	Soil			6	0.59	270	0.018	<20	2.33	<0.01	0.11	<2	<5	<1	8	<0.05	<5	2.6	21.6	20.8	68	0.2	3.7
CG-C13	Soil			16	0.23	37	0.079	<20	3.71	<0.01	0.02	<2	<5	<1	8	<0.05	<5	2.0	10.7	5.7	24	0.5	3.4
CG-D13	Soil			11	0.24	46	0.046	<20	2.01	<0.01	0.03	<2	<5	<1	5	<0.05	<5	1.1	7.9	4.9	35	<0.1	3.9
CG-E13	Soil			12	0.23	48	0.070	<20	1.22	0.01	0.03	<2	<5	<1	9	<0.05	<5	0.4	4.1	8.2	14	0.1	3.9
CG-F13	Soil			7	0.13	55	0.066	<20	0.94	0.01	0.04	<2	<5	<1	7	<0.05	<5	1.1	5.4	7.1	15	<0.1	2.4
CG-G13	Soil			16	0.29	28	0.073	<20	2.36	<0.01	0.03	<2	<5	<1	8	<0.05	<5	1.0	10.0	7.3	29	0.1	4.9
CG-H13	Soil			12	0.13	44	0.096	<20	1.52	0.01	0.04	<2	<5	<1	9	<0.05	<5	0.8	9.0	6.7	28	0.3	2.7
CG-I13	Soil			13	0.05	51	0.074	<20	1.37	0.01	0.03	<2	<5	<1	8	<0.05	<5	1.0	106.3	13.4	11	0.7	4.4
CG-J13	Soil			12	0.10	49	0.008	<20	1.75	0.01	0.04	<2	<5	<1	5	0.13	<5	1.5	22.2	8.5	14	0.5	3.2
CG-K13	Soil			5	0.13	26	0.111	<20	0.74	0.01	0.04	<2	<5	<1	8	<0.05	<5	0.6	3.5	9.1	13	0.2	2.1
CG-L13	Soil			9	0.12	38	0.063	<20	1.28	0.01	0.03	<2	<5	<1	9	<0.05	<5	0.8	6.5	7.8	16	0.3	2.8
CG-M13	Soil			4	0.04	33	0.031	<20	0.37	0.01	0.04	<2	<5	<1	5	<0.05	<5	0.6	2.6	5.7	8	<0.1	0.8
CG-N13	Soil			10	0.24	31	0.066	<20	1.74	0.01	0.03	<2	<5	<1	7	<0.05	<5	1.3	16.2	7.7	24	0.7	4.7
CG-O13	Soil			19	0.41	68	0.132	<20	2.41	0.01	0.06	<2	<5	<1	10	0.06	<5	1.6	31.8	7.0	47	1.3	9.4
CG-P13	Soil			16	0.30	34	0.111	<20	2.53	<0.01	0.03	<2	<5	<1	9	<0.05	<5	1.7	16.0	6.4	29	0.5	5.0
CG-A48	Soil			15	0.46	61	0.053	<20	2.86	0.01	0.05	<2	<5	<1	11	0.08	<5	2.0	52.1	11.2	66	0.6	9.9
CG-B48	Soil			15	0.34	63	0.020	<20	3.59	0.01	0.05	<2	<5	<1	6	0.10	<5	1.1	42.1	8.6	43	0.8	6.0
CG-C48	Soil			11	0.28	105	0.035	<20	1.70	0.01	0.05	<2	<5	<1	10	<0.05	<5	2.4	15.9	9.3	50	0.2	5.3



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Page: 7 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
				ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%		
				0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-F11	Soil			2.4	101	0.49	2.0	1.8	<0.1	12	0.3	0.2	<0.1	28	0.13	0.053	8	8	0.16	41	0.016	<1	1.09
CG-G11	Soil			2.7	152	0.96	3.6	2.1	<0.1	11	0.1	0.2	0.1	33	0.08	0.046	5	8	0.20	39	0.059	<1	1.11
CG-H11	Soil			2.6	194	3.96	9.4	0.8	0.7	9	0.2	0.4	0.1	89	0.07	0.049	4	13	0.16	38	0.089	<1	1.70
CG-I11	Soil			3.7	197	1.56	5.4	1.5	0.2	14	<0.1	0.3	0.1	43	0.12	0.023	5	9	0.27	43	0.075	<1	1.14
CG-J11	Soil			1.4	77	1.03	23.5	0.6	<0.1	17	0.2	0.3	0.3	27	0.14	0.058	12	12	0.04	51	0.036	<1	1.00
CG-K11	Soil			7.0	289	1.70	3.4	1.4	0.4	17	<0.1	0.3	0.1	42	0.18	0.026	9	14	0.48	72	0.044	<1	2.04
CG-L11	Soil			1.5	95	1.92	4.1	1.7	0.5	10	<0.1	0.4	0.1	69	0.13	0.021	4	7	0.08	37	0.087	<1	0.56
CG-M11	Soil			3.6	203	2.06	5.1	1.7	0.9	9	<0.1	0.3	<0.1	47	0.10	0.082	4	10	0.20	33	0.061	<1	1.35
CG-N11	Soil			5.9	228	2.53	6.0	3.0	1.6	10	<0.1	0.3	<0.1	56	0.09	0.044	4	13	0.32	43	0.075	<1	2.07
CG-O11	Soil			7.0	376	2.98	10.3	1.4	1.5	18	0.1	0.6	0.1	64	0.14	0.052	10	17	0.44	62	0.097	<1	2.39
CG-P11	Soil			4.3	220	3.64	7.8	2.0	1.0	9	<0.1	0.4	0.1	74	0.09	0.174	4	14	0.27	41	0.084	<1	2.44
CG-A13	Soil			2.0	204	3.30	4.2	1.5	0.7	8	0.1	0.3	0.1	78	0.08	0.031	4	10	0.12	62	0.072	<1	1.39
CG-B13	Soil			10.4	2938	3.19	5.8	<0.5	0.6	12	0.2	0.4	0.1	67	0.13	0.080	6	5	0.52	246	0.018	<1	2.09
CG-C13	Soil			3.4	186	4.18	10.6	32.9	1.1	9	0.2	0.3	<0.1	71	0.07	0.046	9	17	0.22	37	0.087	<1	3.54
CG-D13	Soil			4.0	273	2.72	6.5	<0.5	0.9	10	<0.1	0.4	<0.1	53	0.10	0.068	3	11	0.24	49	0.054	<1	1.95
CG-E13	Soil			2.8	102	0.60	2.6	1.1	0.2	13	<0.1	0.4	<0.1	35	0.09	0.018	7	12	0.23	47	0.076	<1	1.19
CG-F13	Soil			2.2	107	1.32	2.2	0.7	0.2	11	0.2	0.2	0.1	41	0.08	0.046	6	7	0.13	56	0.074	<1	0.96
CG-G13	Soil			3.8	204	4.51	12.2	1.7	1.5	10	<0.1	0.4	<0.1	87	0.10	0.277	4	19	0.27	30	0.085	<1	2.37
CG-H13	Soil			2.7	231	3.00	4.8	1.0	0.8	9	0.1	0.3	<0.1	71	0.07	0.094	4	11	0.13	42	0.101	<1	1.44
CG-I13	Soil			1.3	51	0.78	3.0	<0.5	<0.1	11	0.5	<0.1	0.2	28	0.07	0.047	11	13	0.05	53	0.078	<1	1.35
CG-J13	Soil			3.8	216	1.03	2.8	<0.5	<0.1	12	0.2	0.2	0.1	27	0.09	0.138	13	13	0.10	49	0.008	<1	1.64
CG-K13	Soil			1.8	112	0.86	3.6	<0.5	0.2	8	<0.1	0.2	0.1	38	0.06	0.023	4	6	0.13	27	0.120	<1	0.75
CG-L13	Soil			2.8	223	1.95	2.5	0.9	0.2	11	0.3	0.2	0.1	43	0.08	0.049	6	9	0.12	40	0.075	<1	1.33
CG-M13	Soil			0.5	305	0.40	1.7	1.6	<0.1	10	<0.1	<0.1	0.1	17	0.10	0.034	4	4	0.04	35	0.036	<1	0.37
CG-N13	Soil			4.2	228	3.07	6.9	9.3	0.8	11	<0.1	0.4	0.1	60	0.09	0.088	4	11	0.23	32	0.075	<1	1.66
CG-O13	Soil			14.3	1761	3.61	6.2	2.5	0.3	19	0.6	0.5	<0.1	62	0.44	0.126	12	20	0.39	65	0.130	<1	2.20
CG-P13	Soil			4.6	305	3.57	8.0	2.2	0.7	10	0.2	0.3	0.1	80	0.10	0.065	6	16	0.27	32	0.116	<1	2.35
CG-A48	Soil			7.8	461	4.16	12.8	<0.5	0.2	10	0.5	0.6	0.1	80	0.08	0.089	16	15	0.42	57	0.050	<1	2.69
CG-B48	Soil			4.7	231	1.94	6.8	1.6	0.1	13	0.2	0.3	<0.1	38	0.13	0.133	17	15	0.31	59	0.019	<1	3.43
CG-C48	Soil			5.5	383	3.72	11.0	<0.5	0.7	14	0.3	0.6	0.1	91	0.11	0.031	9	13	0.27	97	0.038	<1	1.57

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Project: COLE
 Report Date: November 02, 2012

Page: 7 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-F11	Soil	0.008	0.02	<0.1	0.03	0.7	<0.1	0.10	3	<0.5	<0.2
CG-G11	Soil	0.009	0.04	<0.1	0.05	1.2	<0.1	<0.05	6	0.8	<0.2
CG-H11	Soil	0.007	0.03	<0.1	0.09	2.1	<0.1	<0.05	9	<0.5	<0.2
CG-I11	Soil	0.007	0.03	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
CG-J11	Soil	0.013	0.02	<0.1	0.06	0.8	0.1	<0.05	5	0.6	<0.2
CG-K11	Soil	0.011	0.06	0.1	0.03	3.3	<0.1	<0.05	7	<0.5	<0.2
CG-L11	Soil	0.008	0.04	0.2	0.07	1.3	<0.1	<0.05	7	<0.5	<0.2
CG-M11	Soil	0.008	0.04	0.1	0.05	2.2	<0.1	<0.05	5	<0.5	<0.2
CG-N11	Soil	0.007	0.05	0.2	0.09	3.4	<0.1	<0.05	5	<0.5	<0.2
CG-O11	Soil	0.010	0.08	0.2	0.05	5.0	<0.1	<0.05	7	0.6	<0.2
CG-P11	Soil	0.007	0.05	0.2	0.11	3.0	<0.1	<0.05	7	<0.5	<0.2
CG-A13	Soil	0.006	0.04	0.1	0.08	2.0	<0.1	<0.05	10	<0.5	<0.2
CG-B13	Soil	0.006	0.10	0.1	0.06	3.0	0.1	<0.05	7	<0.5	<0.2
CG-C13	Soil	0.008	0.02	0.1	0.15	4.4	<0.1	<0.05	7	0.6	<0.2
CG-D13	Soil	0.007	0.03	0.1	0.10	2.6	<0.1	<0.05	5	<0.5	<0.2
CG-E13	Soil	0.010	0.03	<0.1	0.03	2.1	<0.1	<0.05	8	<0.5	<0.2
CG-F13	Soil	0.007	0.03	<0.1	0.08	1.7	<0.1	<0.05	7	<0.5	<0.2
CG-G13	Soil	0.008	0.03	0.2	0.10	3.0	<0.1	<0.05	7	0.7	<0.2
CG-H13	Soil	0.010	0.03	0.1	0.09	2.1	<0.1	<0.05	8	<0.5	<0.2
CG-I13	Soil	0.008	0.03	<0.1	0.07	0.9	<0.1	<0.05	7	<0.5	<0.2
CG-J13	Soil	0.011	0.04	<0.1	0.11	0.5	0.1	0.08	5	0.6	<0.2
CG-K13	Soil	0.008	0.03	<0.1	0.04	1.5	<0.1	<0.05	8	<0.5	<0.2
CG-L13	Soil	0.008	0.03	0.1	0.04	1.6	<0.1	<0.05	7	0.5	<0.2
CG-M13	Soil	0.007	0.04	<0.1	0.05	0.7	<0.1	<0.05	5	<0.5	<0.2
CG-N13	Soil	0.008	0.03	0.2	0.04	2.2	<0.1	<0.05	6	<0.5	<0.2
CG-O13	Soil	0.016	0.05	0.2	0.08	3.3	<0.1	<0.05	9	0.6	<0.2
CG-P13	Soil	0.009	0.03	0.2	0.06	3.3	<0.1	<0.05	7	<0.5	<0.2
CG-A48	Soil	0.010	0.05	<0.1	0.10	4.0	<0.1	<0.05	9	<0.5	<0.2
CG-B48	Soil	0.011	0.04	<0.1	0.37	1.6	<0.1	0.05	6	<0.5	<0.2
CG-C48	Soil	0.008	0.04	<0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2



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Project: COLE
 Report Date: November 02, 2012

Page: 8 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-E48	Soil			<1	42	11	101	<0.3	10	18	1420	4.56	13	<2	<2	35	<0.5	<3	<3	110	0.39	0.104	15
CG-F48	Soil			2	14	<3	78	0.5	8	7	433	4.80	12	<2	<2	6	<0.5	<3	<3	99	0.04	0.194	4
CG-G48	Soil			2	25	<3	73	<0.3	9	11	468	4.35	15	<2	<2	8	<0.5	<3	<3	72	0.06	0.146	4
CG-H48	Soil			2	28	4	72	<0.3	12	14	804	4.25	16	<2	<2	7	<0.5	<3	<3	68	0.08	0.112	6
CG-I48	Soil			2	9	<3	30	<0.3	1	2	126	3.22	6	<2	<2	9	<0.5	<3	<3	71	0.06	0.056	9
CG-J48	Soil			2	15	<3	56	0.3	5	6	293	2.87	10	<2	<2	8	<0.5	<3	<3	67	0.04	0.031	8
CG-K48	Soil			2	16	<3	48	<0.3	6	7	372	3.16	14	<2	<2	8	<0.5	<3	<3	54	0.07	0.070	14
CG-L48	Soil			3	61	4	33	0.7	6	19	1978	3.20	10	<2	<2	11	<0.5	<3	<3	57	0.07	0.107	25
CG-M48	Soil			5	37	3	37	0.4	6	5	259	2.64	9	<2	<2	12	0.5	<3	<3	51	0.08	0.101	16
CG-N48	Soil			2	21	<3	45	<0.3	5	5	378	3.08	11	<2	<2	17	<0.5	<3	<3	62	0.15	0.154	6
CG-O48	Soil			2	26	6	45	<0.3	6	5	304	2.84	9	<2	<2	25	<0.5	<3	<3	57	0.26	0.082	15
CG-P48	Soil			1	16	7	75	<0.3	7	7	386	3.64	11	<2	<2	8	<0.5	<3	<3	66	0.08	0.103	8
CG-A15	Soil			3	10	<3	47	<0.3	5	6	330	3.41	6	<2	<2	9	<0.5	<3	<3	61	0.10	0.085	5
CG-B15	Soil			1	7	4	30	0.4	4	3	218	4.17	9	<2	<2	6	<0.5	<3	<3	88	0.05	0.069	4
CG-C15	Soil			2	9	4	36	<0.3	5	7	346	4.24	15	<2	<2	10	<0.5	<3	<3	75	0.09	0.065	6
CG-D15	Soil			3	7	<3	42	<0.3	4	4	226	2.69	9	<2	<2	9	<0.5	<3	<3	53	0.09	0.043	6
CG-E15	Soil			2	9	4	39	<0.3	5	5	255	3.60	10	<2	<2	8	<0.5	<3	<3	71	0.07	0.101	5
CG-F15	Soil			1	15	<3	44	<0.3	6	6	295	2.97	9	<2	<2	12	<0.5	<3	<3	60	0.09	0.048	6
CG-G15	Soil			2	21	<3	46	<0.3	8	8	522	3.01	18	<2	<2	15	<0.5	<3	<3	68	0.11	0.045	25
CG-H15	Soil			1	8	<3	37	<0.3	5	4	246	2.65	9	<2	<2	7	<0.5	<3	<3	51	0.08	0.049	8
CG-I15	Soil			1	12	<3	35	<0.3	6	5	232	2.74	18	<2	<2	9	<0.5	<3	<3	62	0.07	0.033	5
CG-J15	Soil			<1	19	<3	37	<0.3	6	5	228	1.92	7	<2	<2	12	<0.5	<3	<3	39	0.10	0.023	8
CG-K15	Soil			<1	11	<3	36	<0.3	6	5	252	1.86	7	<2	<2	12	<0.5	<3	<3	45	0.15	0.039	8
CG-L15	Soil			<1	5	3	25	<0.3	3	2	135	2.24	6	<2	<2	6	<0.5	<3	<3	52	0.05	0.066	4
CG-M15	Soil			6	11	<3	21	0.3	3	2	77	0.48	4	<2	<2	26	<0.5	<3	<3	31	0.32	0.067	8
CG-N15	Soil			4	5	<3	31	<0.3	4	3	110	1.12	8	<2	<2	18	<0.5	<3	<3	45	0.18	0.079	8
CG-O15	Soil			8	8	<3	45	<0.3	6	9	460	2.44	8	<2	<2	22	<0.5	<3	<3	60	0.23	0.021	5
CG-P15	Soil			<1	9	<3	21	<0.3	5	3	121	0.95	2	<2	<2	15	<0.5	<3	<3	30	0.13	0.045	11
CG-I08	Soil			1	16	<3	40	<0.3	10	7	282	1.83	6	<2	<2	37	<0.5	<3	<3	52	0.29	0.029	9
CG-I10	Soil			<1	3	<3	25	<0.3	5	4	250	3.16	9	<2	<2	13	<0.5	<3	<3	73	0.11	0.037	5

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Project: COLE
 Report Date: November 02, 2012

Page: 8 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
			ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	
			0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-E48	Soil		18.0	1369	4.35	12.6	<0.5	1.1	34	0.1	1.7	0.1	103	0.37	0.094	14	13	0.58	180	0.012	<1	1.39
CG-F48	Soil		7.0	449	5.46	10.0	1.7	0.8	7	<0.1	0.5	<0.1	112	0.04	0.196	4	22	0.32	55	0.006	2	2.63
CG-G48	Soil		10.8	476	4.65	13.4	2.3	1.2	8	0.2	0.6	<0.1	78	0.07	0.153	4	14	0.53	63	0.005	2	2.82
CG-H48	Soil		14.2	791	4.62	14.7	2.1	0.6	8	0.2	0.7	<0.1	79	0.09	0.110	7	16	0.74	59	0.007	2	2.16
CG-I48	Soil		2.4	124	3.45	4.9	1.8	2.0	9	0.1	0.2	<0.1	82	0.06	0.058	8	6	0.07	79	0.004	<1	1.60
CG-J48	Soil		5.5	274	3.04	9.9	0.9	0.5	9	0.2	0.5	<0.1	75	0.05	0.033	8	11	0.32	54	0.023	<1	1.79
CG-K48	Soil		7.0	381	3.39	13.4	1.4	0.2	9	0.2	0.5	<0.1	59	0.07	0.076	14	12	0.37	47	0.036	2	2.58
CG-L48	Soil		19.9	2041	3.37	9.4	0.9	0.1	11	0.4	0.3	<0.1	58	0.08	0.123	25	14	0.18	61	0.040	2	3.06
CG-M48	Soil		4.9	251	2.81	8.9	1.3	<0.1	12	0.6	0.3	0.1	55	0.09	0.108	16	11	0.25	46	0.040	<1	1.85
CG-N48	Soil		4.9	384	3.33	10.6	0.8	0.1	17	<0.1	0.3	<0.1	68	0.16	0.160	6	12	0.39	57	0.064	<1	1.44
CG-O48	Soil		4.9	281	2.96	8.9	1.5	<0.1	24	0.4	0.4	0.1	58	0.25	0.080	15	11	0.26	130	0.026	2	1.62
CG-P48	Soil		6.9	383	3.73	10.5	1.3	0.3	8	<0.1	0.5	<0.1	67	0.08	0.105	8	14	0.45	55	0.031	<1	3.23
CG-A15	Soil		6.0	335	3.62	5.2	1.1	0.6	10	<0.1	0.3	0.1	66	0.11	0.085	6	11	0.35	80	0.051	1	1.57
CG-B15	Soil		3.2	204	4.34	7.6	0.5	0.9	7	<0.1	0.3	<0.1	84	0.06	0.062	5	15	0.19	40	0.097	<1	2.35
CG-C15	Soil		6.4	338	4.27	12.7	1.0	0.7	10	0.3	0.3	0.1	76	0.10	0.067	6	13	0.30	51	0.077	2	1.68
CG-D15	Soil		3.8	208	2.67	6.9	1.9	0.4	10	0.3	0.3	<0.1	54	0.09	0.042	7	11	0.25	55	0.048	1	2.35
CG-E15	Soil		4.2	233	3.62	8.8	1.8	0.5	9	0.2	0.3	<0.1	70	0.10	0.100	5	13	0.29	43	0.080	1	1.85
CG-F15	Soil		6.0	283	3.16	7.4	1.5	1.1	14	<0.1	0.3	<0.1	65	0.11	0.052	6	13	0.43	57	0.096	<1	2.48
CG-G15	Soil		8.3	580	3.34	17.2	2.5	0.6	18	0.2	0.5	<0.1	70	0.14	0.052	28	18	0.49	64	0.098	<1	2.98
CG-H15	Soil		4.2	232	2.72	7.0	0.8	0.8	8	<0.1	0.3	<0.1	51	0.09	0.047	8	12	0.31	33	0.077	<1	2.44
CG-I15	Soil		5.3	223	2.65	15.0	0.7	1.4	9	<0.1	0.3	<0.1	58	0.09	0.031	5	13	0.34	42	0.087	<1	2.51
CG-J15	Soil		5.3	204	1.85	5.6	0.9	0.5	12	<0.1	0.2	<0.1	39	0.11	0.023	8	10	0.38	44	0.064	2	2.10
CG-K15	Soil		4.8	242	1.89	6.6	0.7	0.4	13	<0.1	0.2	<0.1	48	0.16	0.037	8	12	0.38	36	0.079	<1	1.80
CG-L15	Soil		2.3	136	2.24	4.9	0.6	0.8	7	<0.1	0.2	<0.1	52	0.06	0.067	4	11	0.17	25	0.067	1	1.76
CG-M15	Soil		1.8	70	0.42	2.7	0.7	<0.1	25	0.4	0.3	<0.1	31	0.30	0.068	8	8	0.12	60	0.010	1	1.15
CG-N15	Soil		2.9	107	1.04	7.6	1.1	<0.1	18	0.2	0.3	<0.1	45	0.17	0.077	8	8	0.19	66	0.013	1	1.19
CG-O15	Soil		9.8	481	2.69	7.7	0.5	0.7	24	<0.1	0.3	<0.1	64	0.26	0.024	6	12	0.39	69	0.074	<1	1.34
CG-P15	Soil		3.1	127	0.95	1.6	1.6	<0.1	16	<0.1	0.2	<0.1	33	0.16	0.048	11	11	0.28	52	0.034	<1	1.54
CG-I08	Soil		7.2	268	1.85	4.9	2.1	0.1	37	0.1	0.4	<0.1	53	0.29	0.031	9	16	0.54	116	0.033	<1	2.57
CG-I10	Soil		3.4	236	3.13	7.1	0.6	0.2	14	<0.1	0.2	<0.1	72	0.11	0.037	5	9	0.26	67	0.027	<1	1.48

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Project: COLE
 Report Date: November 02, 2012

Page: 8 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-E48	Soil	0.010	0.07	<0.1	0.03	10.1	<0.1	<0.05	5	<0.5	<0.2
CG-F48	Soil	0.008	0.04	0.1	0.04	4.9	<0.1	<0.05	8	<0.5	<0.2
CG-G48	Soil	0.008	0.05	0.1	0.06	4.7	<0.1	<0.05	5	<0.5	<0.2
CG-H48	Soil	0.008	0.07	0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
CG-I48	Soil	0.008	0.03	<0.1	0.03	4.1	<0.1	<0.05	7	<0.5	<0.2
CG-J48	Soil	0.008	0.04	0.1	0.06	3.7	<0.1	<0.05	7	<0.5	<0.2
CG-K48	Soil	0.010	0.03	<0.1	0.11	3.4	<0.1	<0.05	6	<0.5	<0.2
CG-L48	Soil	0.011	0.03	<0.1	0.13	2.8	<0.1	0.06	7	<0.5	<0.2
CG-M48	Soil	0.010	0.05	<0.1	0.08	2.0	<0.1	<0.05	7	<0.5	<0.2
CG-N48	Soil	0.011	0.07	<0.1	0.05	2.2	<0.1	<0.05	9	<0.5	<0.2
CG-O48	Soil	0.011	0.05	<0.1	0.08	1.7	<0.1	<0.05	7	<0.5	<0.2
CG-P48	Soil	0.011	0.04	0.1	0.11	3.4	<0.1	<0.05	8	0.6	<0.2
CG-A15	Soil	0.008	0.07	0.1	0.06	3.4	<0.1	<0.05	9	<0.5	<0.2
CG-B15	Soil	0.008	0.04	0.2	0.09	2.9	<0.1	<0.05	10	<0.5	<0.2
CG-C15	Soil	0.008	0.04	0.1	0.07	2.6	<0.1	<0.05	11	<0.5	<0.2
CG-D15	Soil	0.009	0.03	0.2	0.13	2.9	<0.1	<0.05	6	0.6	<0.2
CG-E15	Soil	0.009	0.04	0.2	0.10	2.6	<0.1	<0.05	8	<0.5	<0.2
CG-F15	Soil	0.010	0.04	0.1	0.06	4.2	<0.1	<0.05	7	0.5	<0.2
CG-G15	Soil	0.013	0.05	0.1	0.07	8.1	<0.1	<0.05	7	<0.5	<0.2
CG-H15	Soil	0.009	0.04	0.1	0.07	3.1	<0.1	<0.05	7	0.6	<0.2
CG-I15	Soil	0.011	0.03	0.1	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
CG-J15	Soil	0.011	0.03	<0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
CG-K15	Soil	0.010	0.03	<0.1	0.04	3.2	<0.1	<0.05	6	<0.5	<0.2
CG-L15	Soil	0.010	0.02	<0.1	0.08	2.5	<0.1	<0.05	6	<0.5	<0.2
CG-M15	Soil	0.015	0.03	<0.1	0.05	0.5	<0.1	0.30	3	<0.5	<0.2
CG-N15	Soil	0.017	0.04	<0.1	0.06	0.8	<0.1	0.07	4	<0.5	<0.2
CG-O15	Soil	0.012	0.04	0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
CG-P15	Soil	0.013	0.03	<0.1	0.06	1.4	0.1	<0.05	6	<0.5	<0.2
CG-I08	Soil	0.017	0.07	<0.1	0.04	3.6	<0.1	<0.05	9	<0.5	<0.2
CG-I10	Soil	0.009	0.06	<0.1	0.04	2.7	<0.1	<0.05	9	<0.5	<0.2



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Project: COLE
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Page: 9 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-I12	Soil			1	7	7	22	<0.3	3	2	123	1.60	7	<2	<2	10	<0.5	<3	<3	51	0.08	0.030	5
CG-I14	Soil			<1	31	<3	32	0.3	6	4	226	1.69	5	<2	<2	10	<0.5	<3	<3	43	0.11	0.058	24
CG-I16	Soil			<1	7	<3	42	<0.3	4	3	212	3.14	7	<2	<2	7	<0.5	<3	<3	62	0.05	0.107	4
CG-I17	Soil			1	8	<3	50	<0.3	4	4	231	3.59	9	<2	<2	6	<0.5	<3	<3	77	0.06	0.085	4
CG-I18	Soil			2	7	<3	39	0.3	4	4	271	2.98	5	<2	<2	10	<0.5	<3	<3	56	0.08	0.080	6
CG-I19	Soil			3	4	5	28	<0.3	3	3	218	3.73	9	<2	<2	6	<0.5	<3	<3	85	0.06	0.069	5
CG-I20	Soil			2	7	<3	45	<0.3	3	6	1079	3.89	9	<2	<2	6	<0.5	<3	<3	68	0.05	0.144	4
CG-I21	Soil			9	12	4	57	1.5	6	31	>10000	4.88	19	<2	<2	37	0.9	<3	<3	72	0.42	0.171	12
CG-I22	Soil			3	13	<3	36	<0.3	4	4	119	1.08	5	<2	<2	11	<0.5	<3	<3	38	0.13	0.080	13
CG-I23	Soil			1	10	<3	56	<0.3	6	6	378	3.62	15	<2	<2	7	<0.5	<3	<3	70	0.06	0.103	6
CG-I24	Soil			1	8	<3	33	<0.3	3	4	213	3.62	11	<2	<2	8	<0.5	<3	<3	67	0.10	0.215	6
CG-I25	Soil			2	5	<3	31	<0.3	3	7	669	1.57	3	<2	<2	8	<0.5	<3	<3	52	0.07	0.037	5
CG-I26	Soil			2	5	5	30	<0.3	3	3	180	1.14	3	<2	<2	11	<0.5	<3	<3	50	0.09	0.043	11
CG-I27	Soil			2	10	4	29	<0.3	4	6	367	2.71	11	<2	<2	8	<0.5	<3	<3	55	0.06	0.042	10
CG-I28	Soil			1	4	6	21	<0.3	2	2	223	1.90	5	<2	<2	8	<0.5	<3	<3	55	0.11	0.043	4
CG-I29	Soil			<1	7	<3	20	<0.3	3	2	127	1.63	4	<2	<2	9	<0.5	<3	<3	34	0.07	0.049	5
CG-I30	Soil			1	14	4	41	0.4	5	8	349	2.90	9	<2	<2	11	<0.5	<3	<3	57	0.10	0.053	7
CG-I31	Soil			2	16	4	60	0.4	6	7	414	3.45	13	<2	<2	10	<0.5	<3	<3	66	0.10	0.063	7
CG-I32	Soil			2	14	<3	52	0.4	6	6	417	2.89	11	<2	<2	9	<0.5	<3	<3	60	0.08	0.048	7
CG-I33	Soil			2	17	8	35	0.4	4	4	203	3.62	13	<2	<2	8	<0.5	<3	<3	54	0.08	0.068	9
CG-I34	Soil			<1	7	<3	41	0.4	3	4	206	1.72	4	<2	<2	12	<0.5	<3	<3	41	0.11	0.049	6
CG-I35	Soil			1	10	3	54	<0.3	5	5	245	2.70	6	<2	<2	12	<0.5	<3	<3	51	0.10	0.045	7
CG-I36	Soil			8	19	10	83	0.3	10	19	5292	4.18	23	<2	<2	51	0.6	<3	<3	58	0.71	0.122	18
CG-I37	Soil			2	26	3	81	<0.3	13	17	1460	4.26	16	<2	<2	6	<0.5	<3	<3	74	0.04	0.096	11
CG-I38	Soil			2	19	6	70	<0.3	8	7	403	3.76	13	<2	<2	6	<0.5	<3	<3	71	0.05	0.118	6
CG-I39	Soil			1	19	<3	89	<0.3	9	8	565	3.40	11	<2	<2	7	<0.5	<3	<3	70	0.05	0.105	5
CG-I40	Soil			3	17	15	93	0.3	7	7	357	4.83	25	<2	<2	8	<0.5	<3	<3	105	0.05	0.163	7
CG-I41	Soil			2	9	5	66	<0.3	4	4	199	4.34	8	<2	<2	5	<0.5	<3	<3	100	0.05	0.193	5
CG-I42	Soil			1	9	<3	51	<0.3	3	5	263	4.05	8	<2	<2	6	<0.5	<3	<3	93	0.05	0.074	4
CG-I43	Soil			1	15	<3	60	<0.3	5	6	251	3.20	9	<2	2	5	<0.5	<3	<3	73	0.05	0.131	6

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Page: 9 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D TI	1D Hg	Ga	S	1D Sc	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni
				ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-I12	Soil			8	0.19	36	0.081	<20	1.15	0.01	0.03	<2	<5	<1	6	<0.05	<5	1.2	7.9	7.0	21	0.2	2.6
CG-I14	Soil			13	0.41	49	0.053	<20	2.41	0.01	0.03	<2	<5	<1	5	0.07	<5	0.9	33.2	6.1	31	0.4	5.3
CG-I16	Soil			13	0.24	29	0.076	<20	2.95	<0.01	0.02	<2	<5	<1	<5	<0.05	<5	0.8	9.7	5.8	40	0.3	3.7
CG-I17	Soil			12	0.28	34	0.061	<20	2.65	<0.01	0.03	<2	<5	<1	7	<0.05	<5	1.1	9.7	5.7	48	0.1	3.9
CG-I18	Soil			10	0.28	37	0.077	<20	1.85	0.01	0.03	<2	<5	<1	6	<0.05	<5	1.9	9.6	6.2	38	0.3	3.7
CG-I19	Soil			10	0.20	30	0.106	<20	1.62	<0.01	0.03	<2	<5	<1	9	<0.05	<5	2.4	6.9	6.9	28	0.1	2.8
CG-I20	Soil			7	0.16	58	0.015	<20	1.47	<0.01	0.04	<2	<5	<1	9	<0.05	<5	1.8	9.8	6.0	44	0.3	2.6
CG-I21	Soil			17	0.19	283	0.012	<20	2.59	0.01	0.06	<2	<5	<1	<5	0.13	<5	9.5	14.4	4.9	52	0.8	5.8
CG-I22	Soil			9	0.30	59	0.019	<20	1.62	0.01	0.03	<2	<5	<1	<5	0.09	<5	3.4	13.8	4.4	38	0.2	4.4
CG-I23	Soil			15	0.38	38	0.055	<20	3.52	<0.01	0.03	<2	<5	<1	6	<0.05	<5	1.5	15.3	6.7	55	0.3	7.1
CG-I24	Soil			9	0.23	58	0.025	<20	1.30	<0.01	0.04	<2	<5	<1	6	<0.05	<5	1.4	12.8	7.5	38	0.2	3.9
CG-I25	Soil			10	0.18	72	0.100	<20	1.09	<0.01	0.04	<2	<5	<1	6	<0.05	<5	2.1	8.4	7.9	38	0.2	3.8
CG-I26	Soil			9	0.25	65	0.013	<20	1.44	0.01	0.03	<2	<5	<1	<5	<0.05	<5	3.1	8.1	6.5	32	0.3	4.2
CG-I27	Soil			12	0.29	41	0.030	<20	2.20	<0.01	0.03	<2	<5	<1	7	<0.05	<5	2.0	16.9	7.1	31	0.4	5.0
CG-I28	Soil			7	0.12	47	0.035	<20	0.90	<0.01	0.05	<2	<5	<1	6	<0.05	<5	1.3	6.8	5.7	23	<0.1	2.3
CG-I29	Soil			8	0.18	55	0.022	<20	1.25	0.01	0.04	<2	<5	<1	6	<0.05	<5	1.4	11.3	8.1	25	0.2	4.2
CG-I30	Soil			9	0.35	64	0.033	<20	1.50	0.01	0.05	<2	<5	<1	6	<0.05	<5	1.6	21.1	6.9	44	0.5	5.4
CG-I31	Soil			12	0.50	66	0.027	<20	2.30	<0.01	0.06	<2	<5	<1	8	<0.05	<5	2.0	20.5	7.8	62	0.4	7.1
CG-I32	Soil			11	0.48	46	0.044	<20	1.65	0.01	0.04	<2	<5	<1	7	<0.05	<5	1.8	18.1	6.2	53	0.5	6.6
CG-I33	Soil			13	0.26	41	0.025	<20	2.96	<0.01	0.03	<2	<5	<1	6	0.05	<5	2.5	22.1	6.6	33	0.5	4.7
CG-I34	Soil			8	0.29	72	0.044	<20	1.14	0.01	0.05	<2	<5	<1	<5	<0.05	<5	1.1	10.0	8.5	46	0.6	3.2
CG-I35	Soil			9	0.38	73	0.022	<20	1.90	0.01	0.04	<2	<5	<1	7	<0.05	<5	1.6	13.3	7.1	57	0.2	5.3
CG-I36	Soil			13	0.52	208	0.016	<20	2.11	0.01	0.06	<2	<5	<1	<5	0.09	<5	8.8	25.8	9.6	87	0.2	11.1
CG-I37	Soil			15	0.67	80	0.006	<20	2.21	<0.01	0.06	<2	<5	<1	<5	<0.05	<5	2.2	34.9	7.7	87	<0.1	14.0
CG-I38	Soil			13	0.44	49	0.009	<20	2.41	<0.01	0.06	<2	<5	<1	9	<0.05	<5	1.8	25.4	9.3	72	0.1	9.0
CG-I39	Soil			15	0.52	62	0.010	<20	2.42	<0.01	0.06	<2	<5	<1	8	<0.05	<5	1.3	23.8	6.7	90	0.2	9.5
CG-I40	Soil			16	0.41	80	0.028	<20	3.00	<0.01	0.05	<2	<5	<1	12	<0.05	5	2.4	20.9	15.9	88	0.4	6.7
CG-I41	Soil			12	0.33	36	0.068	<20	2.37	<0.01	0.04	<2	<5	<1	14	<0.05	<5	2.0	14.1	12.6	64	0.2	4.5
CG-I42	Soil			11	0.30	50	0.049	<20	2.04	<0.01	0.03	<2	<5	<1	8	<0.05	<5	1.6	12.2	7.6	50	0.2	4.0
CG-I43	Soil			10	0.33	39	0.017	<20	1.93	<0.01	0.03	<2	<5	<1	6	<0.05	<5	1.3	20.1	7.4	60	0.3	5.8



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Page: 9 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
				ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%		
				0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-I12	Soil			2.3	121	1.44	5.3	1.1	0.1	10	<0.1	0.1	<0.1	51	0.09	0.031	5	9	0.20	38	0.084	<1	1.18
CG-I14	Soil			4.3	211	1.43	4.1	1.4	<0.1	10	<0.1	0.2	<0.1	41	0.11	0.060	22	13	0.40	50	0.053	1	2.25
CG-I16	Soil			3.4	196	3.12	6.4	11.4	1.2	8	<0.1	0.2	<0.1	66	0.07	0.103	4	14	0.23	30	0.089	<1	2.87
CG-I17	Soil			3.9	210	3.41	7.3	<0.5	0.8	7	<0.1	0.3	<0.1	76	0.08	0.086	4	12	0.28	35	0.074	<1	2.57
CG-I18	Soil			4.6	258	2.96	4.6	1.5	0.4	12	0.1	0.2	<0.1	57	0.10	0.079	7	10	0.29	42	0.086	<1	1.87
CG-I19	Soil			2.9	221	3.85	8.2	1.5	0.8	7	<0.1	0.3	<0.1	83	0.06	0.066	5	10	0.21	32	0.113	<1	1.55
CG-I20	Soil			5.3	1044	3.99	7.9	0.8	0.3	6	<0.1	0.2	<0.1	66	0.06	0.138	3	7	0.16	60	0.015	<1	1.46
CG-I21	Soil			29.1	>10000	5.14	18.7	12.2	0.1	32	0.7	0.4	0.1	78	0.42	0.164	10	15	0.18	261	0.010	2	2.57
CG-I22	Soil			4.3	176	0.93	3.4	0.6	<0.1	10	0.2	0.3	0.1	41	0.13	0.077	12	10	0.28	55	0.020	2	1.61
CG-I23	Soil			7.1	434	4.21	14.8	1.6	1.3	8	0.1	0.4	0.1	86	0.08	0.104	6	20	0.38	43	0.064	<1	4.06
CG-I24	Soil			4.1	228	4.14	12.0	1.2	1.1	9	0.2	0.4	0.1	82	0.12	0.251	7	12	0.24	66	0.028	<1	1.40
CG-I25	Soil			8.8	795	1.89	3.0	2.3	0.2	9	<0.1	0.4	0.2	67	0.09	0.042	6	13	0.20	84	0.109	1	1.31
CG-I26	Soil			4.4	212	1.26	3.5	<0.5	<0.1	11	0.2	0.2	0.1	60	0.11	0.049	12	11	0.26	69	0.014	<1	1.63
CG-I27	Soil			6.7	415	3.06	11.4	1.5	0.2	8	0.1	0.3	0.1	68	0.07	0.047	10	16	0.30	46	0.035	3	2.70
CG-I28	Soil			2.5	233	2.08	4.4	<0.5	0.4	7	<0.1	0.3	<0.1	65	0.11	0.046	5	8	0.11	49	0.039	<1	0.99
CG-I29	Soil			3.1	135	1.93	3.8	<0.5	<0.1	10	0.4	0.2	0.1	46	0.08	0.050	6	11	0.19	57	0.027	<1	1.46
CG-I30	Soil			9.2	400	3.33	8.8	0.5	0.1	12	0.2	0.3	0.1	67	0.11	0.055	8	13	0.35	69	0.036	1	1.64
CG-I31	Soil			7.6	441	3.68	11.7	1.6	0.2	10	0.3	0.4	0.1	78	0.11	0.067	8	15	0.50	70	0.028	<1	2.41
CG-I32	Soil			7.1	447	3.19	10.6	<0.5	0.2	9	0.1	0.4	0.1	73	0.09	0.050	8	14	0.47	49	0.045	<1	1.76
CG-I33	Soil			3.9	200	3.78	11.2	<0.5	0.2	7	0.3	0.3	<0.1	62	0.09	0.068	8	15	0.25	43	0.027	<1	3.08
CG-I34	Soil			4.3	196	1.93	3.7	<0.5	0.1	12	0.2	0.2	<0.1	50	0.12	0.051	6	9	0.27	72	0.048	2	1.29
CG-I35	Soil			5.0	277	2.84	6.4	<0.5	0.1	12	0.2	0.3	0.1	61	0.11	0.051	8	11	0.37	73	0.026	<1	2.06
CG-I36	Soil			20.9	5423	4.66	22.5	2.4	0.3	48	0.6	0.6	<0.1	69	0.69	0.120	17	15	0.49	197	0.017	3	2.02
CG-I37	Soil			19.6	1624	4.92	16.0	<0.5	0.5	7	0.2	0.7	<0.1	92	0.05	0.101	11	19	0.69	86	0.007	1	2.61
CG-I38	Soil			7.9	449	4.35	13.8	<0.5	0.2	6	<0.1	0.6	0.1	85	0.06	0.132	6	17	0.43	54	0.010	1	2.57
CG-I39	Soil			8.5	586	3.63	10.1	<0.5	0.2	6	0.1	0.5	0.1	79	0.05	0.118	5	16	0.46	63	0.009	1	2.39
CG-I40	Soil			7.2	356	4.90	22.7	<0.5	0.8	7	0.1	0.8	0.1	111	0.05	0.162	7	17	0.38	77	0.025	<1	3.00
CG-I41	Soil			4.5	198	4.60	6.6	<0.5	2.0	5	0.2	0.4	0.2	108	0.06	0.196	5	13	0.32	36	0.078	<1	2.46
CG-I42	Soil			4.9	278	4.21	6.8	<0.5	1.8	5	0.1	0.4	<0.1	103	0.06	0.066	4	13	0.27	50	0.053	1	2.14
CG-I43	Soil			6.3	264	3.46	8.3	1.3	2.5	5	0.1	0.4	0.1	88	0.05	0.136	6	12	0.33	40	0.018	3	2.00

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: COLE
 Report Date: November 02, 2012

Page: 9 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-I12	Soil	0.010	0.03	<0.1	0.05	1.7	<0.1	<0.05	8	<0.5	<0.2
CG-I14	Soil	0.012	0.03	<0.1	0.07	2.7	<0.1	<0.05	7	<0.5	<0.2
CG-I16	Soil	0.007	0.02	0.1	0.10	3.1	<0.1	<0.05	6	<0.5	<0.2
CG-I17	Soil	0.008	0.04	0.1	0.11	3.5	<0.1	<0.05	8	<0.5	<0.2
CG-I18	Soil	0.011	0.03	0.1	0.08	2.6	<0.1	<0.05	8	<0.5	<0.2
CG-I19	Soil	0.008	0.03	0.1	0.03	2.5	<0.1	<0.05	11	<0.5	<0.2
CG-I20	Soil	0.007	0.05	<0.1	0.07	2.1	<0.1	<0.05	8	<0.5	<0.2
CG-I21	Soil	0.009	0.06	<0.1	0.13	1.4	0.2	0.11	4	0.9	<0.2
CG-I22	Soil	0.009	0.03	<0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
CG-I23	Soil	0.009	0.04	0.1	0.14	4.8	<0.1	<0.05	8	0.8	<0.2
CG-I24	Soil	0.008	0.04	0.1	0.09	2.6	<0.1	<0.05	7	<0.5	<0.2
CG-I25	Soil	0.008	0.05	<0.1	0.03	1.9	0.1	<0.05	10	<0.5	<0.2
CG-I26	Soil	0.010	0.04	<0.1	0.04	0.9	<0.1	<0.05	5	<0.5	<0.2
CG-I27	Soil	0.009	0.03	<0.1	0.10	2.8	<0.1	<0.05	8	<0.5	<0.2
CG-I28	Soil	0.007	0.05	<0.1	0.08	1.7	<0.1	<0.05	6	<0.5	<0.2
CG-I29	Soil	0.008	0.04	<0.1	0.09	1.2	<0.1	<0.05	6	<0.5	<0.2
CG-I30	Soil	0.010	0.06	<0.1	0.05	2.1	<0.1	<0.05	7	<0.5	<0.2
CG-I31	Soil	0.008	0.06	0.1	0.08	3.0	<0.1	<0.05	9	<0.5	<0.2
CG-I32	Soil	0.008	0.05	<0.1	0.09	2.4	<0.1	<0.05	7	<0.5	<0.2
CG-I33	Soil	0.007	0.03	<0.1	0.18	2.4	<0.1	<0.05	7	0.6	<0.2
CG-I34	Soil	0.009	0.06	<0.1	0.06	1.8	<0.1	<0.05	6	<0.5	<0.2
CG-I35	Soil	0.010	0.05	<0.1	0.06	2.6	<0.1	<0.05	9	0.6	<0.2
CG-I36	Soil	0.013	0.07	<0.1	0.06	4.0	0.1	<0.05	6	<0.5	<0.2
CG-I37	Soil	0.006	0.07	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
CG-I38	Soil	0.006	0.06	0.1	0.04	1.8	<0.1	<0.05	9	0.6	<0.2
CG-I39	Soil	0.005	0.06	<0.1	0.05	2.1	<0.1	<0.05	8	0.7	<0.2
CG-I40	Soil	0.008	0.05	0.1	0.07	5.0	<0.1	<0.05	12	<0.5	<0.2
CG-I41	Soil	0.007	0.04	0.1	0.10	3.5	<0.1	<0.05	15	<0.5	<0.2
CG-I42	Soil	0.008	0.03	0.1	0.06	3.2	<0.1	<0.05	9	<0.5	<0.2
CG-I43	Soil	0.006	0.03	<0.1	0.08	3.8	<0.1	<0.05	6	<0.5	<0.2



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Project: COLE
 Report Date: November 02, 2012

Page: 10 of 10

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D			
				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	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				1	1	3	1	0.3	1	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-I44	Soil			2	10	<3	37	<0.3	2	4	171	3.61	9	<2	<2	5	<0.5	<3	<3	81	0.04	0.062	5	
CG-A45	Soil			<1	6	<3	61	<0.3	9	7	296	2.75	7	<2	<2	12	<0.5	<3	<3	62	0.12	0.041	8	
CG-B45	Soil			<1	5	<3	39	<0.3	3	5	733	1.89	4	<2	<2	14	<0.5	<3	<3	51	0.13	0.024	6	
CG-C45	Soil			<1	28	<3	16	1.1	2	1	61	0.62	2	<2	<2	17	<0.5	<3	<3	10	0.18	0.176	21	
CG-D45	Soil			2	17	11	81	<0.3	4	7	449	3.78	39	<2	<2	7	<0.5	<3	<3	77	0.05	0.040	8	
CG-E45	Soil			3	37	24	204	<0.3	8	18	2905	4.96	70	<2	<2	28	0.7	<3	<3	94	0.45	0.109	13	
CG-I45	Soil			4	10	4	63	<0.3	4	7	311	5.76	11	<2	<2	4	<0.5	<3	<3	121	0.03	0.263	7	
CG-M45	Soil			1	4	3	42	0.6	5	3	319	1.75	2	<2	<2	13	<0.5	<3	<3	49	0.17	0.061	5	
CG-N45	Soil			2	30	6	58	0.5	8	8	353	3.07	9	<2	<2	23	0.5	<3	<3	53	0.21	0.092	27	
CG-B40	Soil			1	20	6	103	0.5	6	7	500	3.54	14	<2	<2	8	<0.5	<3	<3	87	0.07	0.143	6	
CG-B41	Soil			2	15	10	92	<0.3	6	8	337	4.02	31	<2	<2	9	<0.5	<3	<3	79	0.06	0.056	10	
CG-B42	Soil			<1	5	3	17	<0.3	2	2	151	0.99	3	<2	<2	10	<0.5	<3	<3	34	0.08	0.031	27	
CG-B43	Soil			1	6	<3	41	<0.3	4	4	272	3.30	10	<2	<2	8	<0.5	<3	<3	85	0.07	0.087	5	
CG-B44	Soil			1	7	5	44	<0.3	4	4	301	3.15	6	<2	<2	8	<0.5	<3	<3	69	0.09	0.079	6	
CG-C40	Soil			1	16	14	135	<0.3	5	8	1019	3.88	21	<2	<2	10	<0.5	<3	<3	89	0.16	0.134	7	
CG-C41	Soil			2	27	23	96	<0.3	6	6	253	1.91	10	<2	<2	23	<0.5	<3	<3	72	0.27	0.070	12	
CG-C42	Soil			2	16	15	125	<0.3	7	8	434	5.14	37	<2	<2	9	<0.5	<3	<3	102	0.05	0.084	6	
CG-C43	Soil			2	3	7	46	<0.3	1	3	218	2.95	7	<2	<2	29	<0.5	<3	<3	70	0.02	0.096	3	
CG-C44	Soil			2	14	5	51	<0.3	6	6	349	3.82	12	<2	<2	12	<0.5	<3	<3	76	0.11	0.075	7	
CG-D42	Soil			2	36	20	120	0.3	7	13	1846	5.20	40	<2	<2	19	0.6	6	<3	85	0.23	0.152	7	
CG-D43	Soil			2	13	7	127	0.3	5	7	414	5.96	24	<2	<2	8	<0.5	<3	<3	129	0.07	0.270	5	



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Project: COLE
 Report Date: November 02, 2012

Page: 10 of 10

Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1	
CG-I44	Soil	9	0.23	36	0.029	<20	2.07	0.01	0.03	<2	<5	<1	9	<0.05	<5	2.1	13.5	7.3	36	0.4	2.7
CG-A45	Soil	14	0.58	98	0.008	<20	2.16	0.01	0.04	<2	<5	<1	10	<0.05	<5	0.6	8.3	8.4	64	<0.1	10.8
CG-B45	Soil	8	0.29	116	0.023	<20	1.39	0.01	0.03	<2	<5	<1	7	<0.05	<5	0.9	7.6	6.6	41	0.1	4.0
CG-C45	Soil	7	0.04	67	0.005	<20	2.69	0.02	0.03	<2	<5	<1	<5	0.17	<5	0.6	33.3	5.5	16	1.5	2.1
CG-D45	Soil	9	0.36	63	0.007	<20	2.13	0.01	0.04	<2	<5	<1	7	<0.05	<5	2.6	21.1	22.9	81	0.4	4.2
CG-E45	Soil	12	0.66	193	0.012	<20	1.73	0.02	0.10	<2	<5	<1	7	<0.05	10	2.6	43.3	33.8	194	0.1	8.8
CG-I45	Soil	14	0.48	36	0.027	<20	2.54	<0.01	0.04	<2	<5	<1	12	<0.05	<5	4.4	14.4	9.3	60	0.2	4.4
CG-M45	Soil	11	0.20	87	0.019	<20	1.05	0.02	0.06	<2	<5	<1	6	<0.05	<5	1.0	5.5	4.3	37	0.7	2.5
CG-N45	Soil	13	0.33	121	0.036	<20	2.24	0.02	0.06	<2	<5	<1	6	0.05	<5	1.9	32.7	10.6	51	0.5	7.9
CG-B40	Soil	11	0.39	83	0.012	<20	1.92	0.01	0.06	<2	<5	<1	8	<0.05	<5	1.0	22.9	12.3	100	0.6	6.3
CG-B41	Soil	12	0.44	64	0.021	<20	2.75	<0.01	0.04	<2	<5	<1	7	<0.05	<5	1.4	17.8	14.5	86	0.2	7.0
CG-B42	Soil	8	0.19	89	0.010	<20	1.60	0.01	0.02	2	<5	<1	7	<0.05	<5	0.5	6.2	8.1	16	0.3	2.7
CG-B43	Soil	10	0.27	62	0.072	<20	1.43	0.01	0.07	<2	<5	<1	11	<0.05	<5	1.6	8.9	9.0	40	0.3	4.5
CG-B44	Soil	12	0.24	58	0.055	<20	1.76	0.01	0.05	<2	<5	<1	9	<0.05	<5	1.4	9.5	7.8	44	0.2	4.2
CG-C40	Soil	11	0.32	96	0.016	<20	2.06	<0.01	0.08	<2	<5	<1	7	<0.05	5	1.3	20.7	18.3	145	0.2	6.0
CG-C41	Soil	10	0.56	99	0.013	<20	1.45	0.02	0.07	<2	<5	<1	<5	<0.05	7	1.9	34.6	24.7	103	0.3	7.3
CG-C42	Soil	16	0.48	67	0.018	<20	2.49	<0.01	0.05	<2	<5	<1	8	<0.05	<5	1.8	19.0	16.3	118	0.4	6.8
CG-C43	Soil	5	0.04	37	0.005	<20	1.16	0.01	0.04	<2	<5	<1	5	<0.05	<5	1.9	4.9	7.2	44	0.2	1.7
CG-C44	Soil	12	0.38	71	0.050	<20	1.69	0.01	0.04	<2	<5	<1	6	<0.05	<5	1.8	17.0	8.6	50	0.2	6.8
CG-D42	Soil	11	0.47	114	0.012	<20	1.68	0.02	0.09	<2	<5	<1	<5	0.07	5	1.9	33.9	24.0	115	0.4	7.3
CG-D43	Soil	16	0.37	45	0.025	<20	3.16	<0.01	0.04	<2	<5	<1	10	<0.05	6	1.7	16.8	11.8	120	0.4	5.3



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Project: COLE
 Report Date: November 02, 2012

Page: 10 of 10

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	Analyte	Unit	MDL	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La	1DX15 Cr	1DX15 Mg	1DX15 Ba	1DX15 Ti	1DX15 B	1DX15 Al
				ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
				0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-I44	Soil			4.0	170	3.90	7.1	3.2	1.8	5	<0.1	0.4	0.3	93	0.05	0.058	5	11	0.22	36	0.036	<1	2.07
CG-A45	Soil			7.7	314	2.87	7.4	<0.5	0.3	12	<0.1	0.3	<0.1	69	0.13	0.041	8	16	0.52	97	0.008	<1	2.22
CG-B45	Soil			5.8	813	2.03	3.5	0.8	0.1	15	0.1	0.3	0.1	60	0.14	0.025	6	9	0.29	117	0.028	1	1.62
CG-C45	Soil			1.4	59	0.57	1.6	<0.5	<0.1	16	0.3	0.2	<0.1	11	0.18	0.166	21	9	0.04	66	0.005	3	2.89
CG-D45	Soil			8.0	523	3.99	39.3	<0.5	0.8	7	0.2	1.3	0.1	87	0.05	0.037	8	11	0.37	63	0.006	<1	2.22
CG-E45	Soil			18.1	2993	5.44	66.4	1.9	0.7	27	0.6	2.3	0.1	104	0.44	0.102	13	11	0.63	189	0.012	3	1.65
CG-I45	Soil			7.2	336	6.51	9.0	<0.5	2.9	4	0.2	0.3	0.1	140	0.04	0.269	7	15	0.45	38	0.028	3	2.59
CG-M45	Soil			2.7	294	1.74	1.6	<0.5	0.3	11	<0.1	0.2	<0.1	50	0.15	0.057	5	7	0.18	77	0.016	2	0.97
CG-N45	Soil			7.4	344	2.99	8.6	0.7	0.1	20	0.6	0.5	0.1	55	0.20	0.091	25	14	0.31	111	0.031	2	2.16
CG-B40	Soil			7.2	512	3.74	11.8	3.6	0.7	8	<0.1	0.7	<0.1	91	0.08	0.132	6	12	0.37	83	0.010	3	1.85
CG-B41	Soil			7.6	350	4.10	27.8	<0.5	1.2	8	0.2	0.9	<0.1	84	0.07	0.052	10	12	0.40	63	0.019	2	2.64
CG-B42	Soil			2.4	136	0.84	1.1	1.1	<0.1	9	<0.1	0.2	<0.1	34	0.08	0.028	23	8	0.16	80	0.008	<1	1.50
CG-B43	Soil			4.0	284	3.59	9.0	<0.5	0.4	8	0.2	0.4	0.2	98	0.07	0.085	5	10	0.27	64	0.070	4	1.50
CG-B44	Soil			4.0	314	3.27	6.6	1.6	0.5	9	<0.1	0.4	0.2	79	0.10	0.079	6	13	0.26	62	0.062	2	1.84
CG-C40	Soil			8.2	1161	4.30	22.7	<0.5	1.1	11	0.2	0.9	0.1	103	0.19	0.150	7	12	0.35	109	0.016	2	2.29
CG-C41	Soil			7.2	278	2.13	12.9	7.7	0.7	23	0.3	1.4	0.1	94	0.30	0.079	14	13	0.63	110	0.016	3	1.68
CG-C42	Soil			7.6	431	5.31	36.8	0.6	0.7	9	<0.1	1.2	0.1	112	0.06	0.080	6	18	0.48	69	0.021	1	2.54
CG-C43	Soil			2.7	214	2.93	7.9	<0.5	0.7	33	0.1	0.4	<0.1	77	0.02	0.091	3	5	0.05	39	0.006	2	1.17
CG-C44	Soil			6.3	355	4.01	12.0	<0.5	0.5	12	0.3	0.5	0.1	83	0.12	0.073	7	13	0.38	73	0.054	1	1.74
CG-D42	Soil			13.0	1729	5.45	40.4	<0.5	0.2	17	0.3	7.3	0.1	90	0.20	0.136	7	12	0.47	107	0.010	3	1.59
CG-D43	Soil			7.0	416	6.09	24.9	<0.5	1.2	8	0.1	0.9	0.1	139	0.08	0.261	5	17	0.37	47	0.025	1	3.23



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Project: COLE
Report Date: November 02, 2012

Page: 10 of 10

Part: 4 of 1

CERTIFICATE OF ANALYSIS

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
CG-I44	Soil	0.008	0.03	<0.1	0.07	3.0	<0.1	<0.05	9	<0.5	<0.2
CG-A45	Soil	0.009	0.04	<0.1	0.03	3.1	0.1	<0.05	10	<0.5	<0.2
CG-B45	Soil	0.016	0.04	<0.1	0.02	2.2	<0.1	<0.05	8	<0.5	<0.2
CG-C45	Soil	0.017	0.03	<0.1	0.40	0.8	<0.1	<0.05	3	1.2	<0.2
CG-D45	Soil	0.009	0.03	0.1	0.06	3.7	0.1	<0.05	8	<0.5	<0.2
CG-E45	Soil	0.012	0.09	0.1	0.05	9.3	0.1	<0.05	6	0.6	<0.2
CG-I45	Soil	0.007	0.04	0.1	0.05	4.4	<0.1	<0.05	13	<0.5	<0.2
CG-M45	Soil	0.011	0.05	<0.1	0.12	1.4	<0.1	<0.05	6	<0.5	<0.2
CG-N45	Soil	0.011	0.06	0.1	0.08	2.6	<0.1	<0.05	7	1.0	<0.2
CG-B40	Soil	0.009	0.06	<0.1	0.07	4.5	0.1	<0.05	8	<0.5	<0.2
CG-B41	Soil	0.007	0.04	<0.1	0.04	4.5	<0.1	<0.05	7	<0.5	<0.2
CG-B42	Soil	0.008	0.01	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
CG-B43	Soil	0.008	0.07	0.1	0.06	2.2	<0.1	<0.05	13	<0.5	<0.2
CG-B44	Soil	0.010	0.05	0.1	0.04	2.8	<0.1	<0.05	10	<0.5	<0.2
CG-C40	Soil	0.008	0.09	<0.1	0.06	5.6	0.1	<0.05	8	<0.5	<0.2
CG-C41	Soil	0.019	0.08	<0.1	0.04	8.7	0.2	<0.05	6	<0.5	<0.2
CG-C42	Soil	0.009	0.05	<0.1	0.06	4.7	<0.1	<0.05	9	<0.5	<0.2
CG-C43	Soil	0.007	0.04	<0.1	0.02	2.1	0.1	<0.05	6	<0.5	<0.2
CG-C44	Soil	0.011	0.04	<0.1	0.04	3.3	<0.1	<0.05	7	<0.5	<0.2
CG-D42	Soil	0.015	0.08	0.1	0.07	4.9	0.1	<0.05	6	<0.5	<0.2
CG-D43	Soil	0.010	0.04	<0.1	0.09	5.9	<0.1	<0.05	12	<0.5	<0.2



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Page: 1 of 4

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004303.2

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
Pulp Duplicates																							
CG-G51	Soil			<1	19	6	81	<0.3	6	7	508	3.99	11	<2	<2	8	<0.5	<3	<3	90	0.07	0.185	4
REP CG-G51	QC			<1	18	6	80	<0.3	5	7	498	3.87	11	<2	<2	7	<0.5	<3	<3	87	0.07	0.181	4
CG-C50	Soil			1	29	13	87	0.3	13	16	1101	4.15	15	<2	<2	20	<0.5	<3	<3	83	0.15	0.073	10
REP CG-C50	QC																						
CG-E50	Soil			<1	12	13	69	<0.3	4	5	843	3.81	13	<2	<2	10	<0.5	<3	<3	93	0.15	0.223	6
REP CG-E50	QC																						
CG-M49	Soil			3	27	3	72	<0.3	9	9	824	5.00	15	<2	<2	16	<0.5	<3	<3	113	0.10	0.127	11
REP CG-M49	QC			3	26	11	68	<0.3	9	9	788	4.79	13	<2	<2	16	0.5	<3	<3	106	0.10	0.118	11
CG-P49	Soil			2	5	4	55	<0.3	4	5	306	5.43	6	<2	<2	6	0.5	<3	<3	112	0.07	0.140	5
REP CG-P49	QC																						
CG-A38	Soil			1	15	14	173	<0.3	6	7	322	4.00	25	<2	<2	6	<0.5	<3	<3	80	0.05	0.133	6
REP CG-A38	QC																						
CG-G31	Soil			<1	4	9	21	<0.3	5	4	331	1.38	6	<2	<2	10	<0.5	<3	<3	47	0.09	0.032	5
REP CG-G31	QC			<1	4	8	21	<0.3	5	4	326	1.37	6	<2	<2	9	<0.5	<3	<3	46	0.08	0.031	5
CG-G34	Soil			3	22	11	66	<0.3	12	11	443	2.66	8	<2	<2	20	<0.5	<3	<3	70	0.27	0.089	16
REP CG-G34	QC																						
CG-G39	Soil			2	21	10	59	<0.3	7	8	843	4.16	12	<2	<2	6	<0.5	<3	<3	90	0.04	0.169	5
REP CG-G39	QC																						
CG-N09	Soil			<1	6	5	30	<0.3	5	5	230	1.93	4	<2	<2	7	<0.5	<3	<3	40	0.08	0.038	6
REP CG-N09	QC																						
CG-I07	Soil			<1	10	4	41	<0.3	6	5	209	3.06	5	<2	<2	11	<0.5	<3	<3	57	0.10	0.130	4
REP CG-I07	QC																						
CG-K07	Soil			<1	7	7	31	<0.3	5	4	216	3.48	5	<2	<2	8	<0.5	<3	<3	65	0.06	0.127	4
REP CG-K07	QC			<1	7	7	31	<0.3	5	4	211	3.41	5	<2	<2	7	<0.5	<3	<3	64	0.06	0.126	4
CG-K11	Soil			3	9	10	42	<0.3	9	7	285	1.78	<2	<2	<2	15	<0.5	<3	<3	43	0.18	0.027	10
REP CG-K11	QC																						
CG-O11	Soil			<1	20	10	47	<0.3	9	8	378	3.05	11	<2	<2	16	<0.5	<3	<3	65	0.12	0.055	11
REP CG-O11	QC																						



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Page: 1 of 4

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004303.2

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1	
Pulp Duplicates																					
CG-G51	Soil	13	0.36	50	0.027	<20	2.19	0.01	0.04	<2	<5	<1	8	<0.05	<5	0.7	19.8	7.5	77	0.2	5.8
REP CG-G51	QC	13	0.35	49	0.025	<20	2.12	<0.01	0.04	<2	<5	<1	7	<0.05	<5						
CG-C50	Soil	15	0.72	176	0.014	<20	2.56	0.01	0.08	<2	<5	<1	9	<0.05	<5	1.7	28.3	12.0	80	0.5	11.8
REP CG-C50	QC															1.8	27.9	11.5	79	0.5	11.8
CG-E50	Soil	11	0.22	88	0.040	<20	1.38	0.01	0.06	<2	<5	<1	11	<0.05	<5	0.9	12.7	14.1	60	0.2	3.8
REP CG-E50	QC															0.8	12.7	13.9	64	0.2	3.8
CG-M49	Soil	17	0.41	70	0.039	<20	1.90	0.01	0.04	<2	<5	<1	11	0.08	<5	2.8	29.4	9.9	62	0.3	9.0
REP CG-M49	QC	16	0.39	66	0.038	<20	1.82	0.01	0.04	<2	<5	<1	11	0.07	<5						
CG-P49	Soil	14	0.23	62	0.085	<20	2.04	0.01	0.04	<2	<5	<1	14	<0.05	<5	2.0	7.5	9.9	52	0.2	3.8
REP CG-P49	QC															2.2	7.7	9.6	52	0.2	3.8
CG-A38	Soil	13	0.40	51	0.023	<20	3.27	<0.01	0.04	<2	<5	<1	8	<0.05	6	1.5	17.6	26.1	166	0.3	5.7
REP CG-A38	QC															1.5	17.3	26.4	162	0.3	6.1
CG-G31	Soil	13	0.18	54	0.068	<20	0.86	0.01	0.04	<2	<5	<1	6	<0.05	<5	1.1	5.0	10.1	24	0.3	4.8
REP CG-G31	QC	13	0.18	54	0.068	<20	0.85	0.01	0.04	<2	<5	<1	6	<0.05	<5						
CG-G34	Soil	17	0.72	78	0.016	<20	2.46	0.02	0.06	<2	<5	<1	6	<0.05	<5	3.6	25.2	10.5	67	0.1	12.7
REP CG-G34	QC															3.8	23.6	9.7	62	0.2	11.5
CG-G39	Soil	13	0.36	88	0.006	<20	2.54	<0.01	0.06	<2	<5	<1	7	<0.05	<5	2.1	23.8	8.7	58	0.2	7.3
REP CG-G39	QC															2.5	24.1	8.9	60	0.2	7.4
CG-N09	Soil	11	0.29	41	0.046	<20	2.33	<0.01	0.04	<2	<5	<1	6	<0.05	<5	1.0	8.9	6.0	33	0.3	5.5
REP CG-N09	QC															0.9	8.8	6.0	32	0.3	5.8
CG-I07	Soil	12	0.29	44	0.042	<20	1.68	<0.01	0.04	<2	<5	<1	7	<0.05	<5	0.9	12.3	6.2	45	0.2	5.8
REP CG-I07	QC															0.9	12.3	5.9	43	0.3	5.8
CG-K07	Soil	12	0.29	45	0.066	<20	1.91	<0.01	0.05	<2	<5	<1	11	<0.05	<5	0.9	10.0	8.2	34	0.2	5.2
REP CG-K07	QC	12	0.28	43	0.065	<20	1.86	<0.01	0.05	<2	<5	<1	11	<0.05	<5						
CG-K11	Soil	14	0.51	74	0.037	<20	2.13	0.01	0.06	<2	<5	<1	7	<0.05	<5	2.6	10.0	6.4	38	0.1	8.4
REP CG-K11	QC															2.7	10.6	6.5	41	0.1	8.6
CG-O11	Soil	17	0.48	62	0.087	<20	2.51	0.01	0.08	<2	<5	<1	7	<0.05	5	1.2	22.6	8.8	46	0.3	8.9
REP CG-O11	QC															1.1	22.7	8.7	46	0.3	8.9

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: COLE
Report Date: November 02, 2012

Page: 1 of 4

Part: 3 of 1

QUALITY CONTROL REPORT

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	
Unit	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	
MDL	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01	
Pulp Duplicates																					
CG-G51	Soil	6.4	488	3.89	10.6	<0.5	0.7	9	0.1	0.7	<0.1	88	0.07	0.159	4	13	0.37	45	0.028	<1	2.07
REP CG-G51	QC																				
CG-C50	Soil	13.5	923	4.02	13.5	2.7	0.4	20	0.4	0.8	0.1	79	0.15	0.064	9	16	0.63	160	0.014	<1	2.47
REP CG-C50	QC	12.5	838	4.12	13.4	0.6	0.4	20	0.3	0.9	0.1	79	0.14	0.067	9	16	0.63	158	0.015	1	2.51
CG-E50	Soil	4.4	779	3.52	11.2	<0.5	0.4	10	0.2	0.6	0.2	80	0.14	0.201	6	10	0.22	76	0.039	<1	1.34
REP CG-E50	QC	4.6	788	3.62	11.5	0.5	0.4	10	0.2	0.7	0.2	84	0.14	0.194	6	11	0.22	77	0.042	1	1.30
CG-M49	Soil	8.4	763	5.61	12.2	<0.5	0.1	15	0.1	0.7	<0.1	106	0.09	0.123	11	16	0.39	67	0.037	2	1.74
REP CG-M49	QC																				
CG-P49	Soil	4.7	296	6.47	4.9	0.9	0.8	6	0.2	0.4	0.1	111	0.07	0.139	4	14	0.26	60	0.087	1	2.05
REP CG-P49	QC	4.2	281	6.07	5.4	0.6	0.8	6	<0.1	0.4	0.1	112	0.08	0.138	4	14	0.25	60	0.090	1	2.01
CG-A38	Soil	6.7	304	4.63	21.8	1.2	1.4	6	0.1	0.6	0.1	81	0.06	0.132	6	13	0.42	52	0.029	1	3.16
REP CG-A38	QC	6.6	302	4.54	21.5	1.6	1.4	6	0.1	0.5	0.1	80	0.06	0.132	6	13	0.44	53	0.025	2	3.17
CG-G31	Soil	4.4	324	1.38	6.1	<0.5	0.2	10	<0.1	0.4	0.2	52	0.09	0.032	6	13	0.19	54	0.068	1	0.93
REP CG-G31	QC																				
CG-G34	Soil	11.7	441	2.75	7.8	<0.5	0.5	20	<0.1	0.7	0.1	72	0.26	0.088	15	18	0.71	74	0.021	2	2.46
REP CG-G34	QC	10.8	414	2.60	7.4	117.7	0.5	20	<0.1	0.7	<0.1	72	0.25	0.083	15	17	0.69	72	0.020	<1	2.33
CG-G39	Soil	8.4	791	4.21	11.6	<0.5	0.9	7	<0.1	0.6	<0.1	93	0.04	0.149	5	16	0.34	84	0.007	<1	2.55
REP CG-G39	QC	8.5	809	4.27	11.7	0.9	1.0	7	<0.1	0.6	0.1	95	0.05	0.158	5	15	0.36	84	0.008	<1	2.61
CG-N09	Soil	4.8	259	2.16	4.1	2.1	0.6	9	<0.1	0.3	<0.1	46	0.11	0.043	6	14	0.32	44	0.061	1	2.61
REP CG-N09	QC	4.7	264	2.19	4.4	2.7	0.6	10	<0.1	0.3	<0.1	45	0.11	0.043	7	14	0.34	45	0.059	2	2.69
CG-I07	Soil	4.4	219	3.19	4.6	0.9	0.7	13	<0.1	0.4	<0.1	61	0.12	0.131	4	14	0.30	47	0.052	1	1.79
REP CG-I07	QC	4.4	227	3.15	4.7	0.9	0.7	13	<0.1	0.3	<0.1	64	0.13	0.125	4	14	0.28	48	0.055	<1	1.76
CG-K07	Soil	4.1	243	3.61	5.7	2.0	0.8	10	0.1	0.3	0.2	72	0.08	0.125	5	15	0.30	50	0.078	<1	2.10
REP CG-K07	QC																				
CG-K11	Soil	7.0	289	1.70	3.4	1.4	0.4	17	<0.1	0.3	0.1	42	0.18	0.026	9	14	0.48	72	0.044	<1	2.04
REP CG-K11	QC	7.0	285	1.68	3.3	1.0	0.4	17	<0.1	0.3	<0.1	43	0.19	0.026	9	14	0.48	74	0.042	<1	1.97
CG-O11	Soil	7.0	376	2.98	10.3	1.4	1.5	18	0.1	0.6	0.1	64	0.14	0.052	10	17	0.44	62	0.097	<1	2.39
REP CG-O11	QC	6.8	374	2.92	9.9	2.1	1.5	18	0.2	0.7	0.1	63	0.14	0.056	11	17	0.45	58	0.096	<1	2.47



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Project: COLE
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Page: 1 of 4

Part: 4 of 1

QUALITY CONTROL REPORT

VAN12004303.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates											
CG-G51	Soil	0.008	0.04	0.1	0.06	4.3	<0.1	<0.05	7	<0.5	<0.2
REP CG-G51	QC										
CG-C50	Soil	0.017	0.08	<0.1	0.05	4.7	<0.1	<0.05	8	<0.5	<0.2
REP CG-C50	QC	0.013	0.08	<0.1	0.05	4.2	<0.1	<0.05	8	<0.5	<0.2
CG-E50	Soil	0.013	0.05	<0.1	0.05	2.6	<0.1	<0.05	9	<0.5	<0.2
REP CG-E50	QC	0.008	0.05	<0.1	0.05	2.8	<0.1	<0.05	10	<0.5	<0.2
CG-M49	Soil	0.010	0.04	<0.1	0.04	2.9	<0.1	<0.05	10	<0.5	<0.2
REP CG-M49	QC										
CG-P49	Soil	0.010	0.03	<0.1	0.07	2.7	<0.1	<0.05	14	<0.5	<0.2
REP CG-P49	QC	0.010	0.04	0.1	0.06	2.9	<0.1	<0.05	14	<0.5	<0.2
CG-A38	Soil	0.010	0.04	<0.1	0.10	5.5	<0.1	<0.05	8	<0.5	<0.2
REP CG-A38	QC	0.010	0.04	<0.1	0.08	6.0	<0.1	<0.05	7	<0.5	<0.2
CG-G31	Soil	0.008	0.04	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
REP CG-G31	QC										
CG-G34	Soil	0.015	0.06	0.1	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
REP CG-G34	QC	0.015	0.05	<0.1	0.03	4.5	0.1	<0.05	6	<0.5	<0.2
CG-G39	Soil	0.007	0.06	<0.1	0.06	3.8	<0.1	<0.05	7	<0.5	<0.2
REP CG-G39	QC	0.007	0.06	<0.1	0.06	3.7	<0.1	<0.05	8	<0.5	<0.2
CG-N09	Soil	0.009	0.05	0.1	0.07	3.3	<0.1	<0.05	6	<0.5	<0.2
REP CG-N09	QC	0.010	0.05	0.1	0.07	3.3	<0.1	<0.05	6	0.6	<0.2
CG-I07	Soil	0.008	0.05	0.2	0.08	2.6	<0.1	<0.05	7	<0.5	<0.2
REP CG-I07	QC	0.011	0.05	0.2	0.09	2.9	<0.1	<0.05	7	<0.5	<0.2
CG-K07	Soil	0.008	0.06	0.2	0.05	2.7	<0.1	<0.05	11	<0.5	<0.2
REP CG-K07	QC										
CG-K11	Soil	0.011	0.06	0.1	0.03	3.3	<0.1	<0.05	7	<0.5	<0.2
REP CG-K11	QC	0.011	0.06	0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
CG-O11	Soil	0.010	0.08	0.2	0.05	5.0	<0.1	<0.05	7	0.6	<0.2
REP CG-O11	QC	0.013	0.08	0.1	0.04	5.0	<0.1	<0.05	7	<0.5	<0.2



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Page: 2 of 4

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1D Mo ppm	1D Cu ppm	1D Pb ppm	1D Zn ppm	1D Ag ppm	1D Ni ppm	1D Co ppm	1D Mn ppm	1D Fe %	1D As ppm	1D Au ppm	1D Th ppm	1D Sr ppm	1D Cd ppm	1D Sb ppm	1D Bi ppm	1D V ppm	1D Ca %	1D P %	1D La ppm
		1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
CG-A13	Soil	3	6	6	26	<0.3	2	2	204	3.47	4	<2	<2	7	<0.5	<3	<3	77	0.07	0.033	4
REP CG-A13	QC	3	6	9	26	<0.3	2	2	196	3.42	4	<2	<2	7	<0.5	<3	<3	76	0.07	0.033	4
CG-O48	Soil	2	26	6	45	<0.3	6	5	304	2.84	9	<2	<2	25	<0.5	<3	<3	57	0.26	0.082	15
REP CG-O48	QC																				
CG-D15	Soil	3	7	<3	42	<0.3	4	4	226	2.69	9	<2	<2	9	<0.5	<3	<3	53	0.09	0.043	6
REP CG-D15	QC																				
CG-F15	Soil	1	15	<3	44	<0.3	6	6	295	2.97	9	<2	<2	12	<0.5	<3	<3	60	0.09	0.048	6
REP CG-F15	QC	2	15	<3	44	<0.3	6	6	299	3.03	8	<2	<2	12	<0.5	<3	<3	60	0.09	0.049	6
CG-I30	Soil	1	14	4	41	0.4	5	8	349	2.90	9	<2	<2	11	<0.5	<3	<3	57	0.10	0.053	7
REP CG-I30	QC																				
CG-I35	Soil	1	10	3	54	<0.3	5	5	245	2.70	6	<2	<2	12	<0.5	<3	<3	51	0.10	0.045	7
REP CG-I35	QC																				
CG-I37	Soil	2	26	3	81	<0.3	13	17	1460	4.26	16	<2	<2	6	<0.5	<3	<3	74	0.04	0.096	11
REP CG-I37	QC	2	26	<3	80	<0.3	12	17	1527	4.24	17	<2	<2	7	<0.5	<3	<3	74	0.04	0.096	11
CG-D43	Soil	2	13	7	127	0.3	5	7	414	5.96	24	<2	<2	8	<0.5	<3	<3	129	0.07	0.270	5
REP CG-D43	QC	1	13	10	124	0.3	5	7	414	5.88	25	<2	<2	8	<0.5	<3	<3	127	0.07	0.264	5
Reference Materials																					
STD DS9	Standard	14	110	131	337	1.6	42	8	608	2.42	28	<2	6	75	2.5	5	9	42	0.76	0.089	13
STD DS9	Standard	12	101	131	316	1.7	39	7	558	2.28	27	<2	5	66	2.2	5	8	38	0.69	0.084	10
STD DS9	Standard	12	107	110	335	1.5	39	7	579	2.33	28	<2	5	70	2.5	<3	5	39	0.72	0.085	11
STD DS9	Standard	14	106	119	332	1.6	40	7	586	2.32	29	<2	7	71	2.8	6	6	40	0.73	0.085	12
STD DS9	Standard	12	100	105	315	1.5	37	7	565	2.26	27	<2	6	70	2.3	4	5	38	0.70	0.082	12
STD DS9	Standard	12	98	130	307	1.5	39	8	570	2.24	27	<2	6	69	2.3	5	6	39	0.69	0.084	12
STD DS9	Standard	12	99	121	307	1.5	38	8	561	2.25	26	<2	6	68	2.3	5	7	39	0.68	0.084	12
STD DS9	Standard	12	102	121	325	1.6	38	7	590	2.32	28	<2	6	75	2.4	5	4	39	0.74	0.082	13
STD DS9	Standard																				
STD DS9	Standard																				
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Page: 2 of 4

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1D Cr ppm	1D Mg %	1D Ba ppm	1D Ti %	1D B ppm	1D Al %	1D Na %	1D K %	1D W ppm	1D Ti ppm	1D Hg ppm	Ga ppm	S %	1D Sc ppm	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
CG-A13	Soil	10	0.12	64	0.066	<20	1.47	<0.01	0.04	<2	<5	<1	9	<0.05	<5	2.7	7.9	8.4	27	0.2	2.4
REP CG-A13	QC	10	0.12	63	0.064	<20	1.44	<0.01	0.04	<2	<5	<1	10	<0.05	<5						
CG-O48	Soil	10	0.26	130	0.025	<20	1.67	0.01	0.04	<2	<5	<1	7	0.06	<5	1.2	28.5	8.7	45	0.3	6.7
REP CG-O48	QC															1.4	30.1	8.5	48	0.4	6.9
CG-D15	Soil	11	0.25	56	0.043	<20	2.45	<0.01	0.04	<2	<5	<1	<5	<0.05	<5	2.8	8.9	6.3	40	0.2	4.5
REP CG-D15	QC															3.0	9.2	6.3	41	0.3	4.3
CG-F15	Soil	12	0.42	52	0.083	<20	2.44	<0.01	0.04	<2	<5	<1	<5	<0.05	<5	1.4	17.6	6.5	43	0.2	6.3
REP CG-F15	QC	13	0.43	54	0.083	<20	2.47	<0.01	0.04	<2	<5	<1	<5	<0.05	<5						
CG-I30	Soil	9	0.35	64	0.033	<20	1.50	0.01	0.05	<2	<5	<1	6	<0.05	<5	1.6	21.1	6.9	44	0.5	5.4
REP CG-I30	QC															1.6	20.2	6.8	44	0.5	5.6
CG-I35	Soil	9	0.38	73	0.022	<20	1.90	0.01	0.04	<2	<5	<1	7	<0.05	<5	1.6	13.3	7.1	57	0.2	5.3
REP CG-I35	QC															1.8	13.5	7.1	56	0.2	5.6
CG-I37	Soil	15	0.67	80	0.006	<20	2.21	<0.01	0.06	<2	<5	<1	<5	<0.05	<5	2.2	34.9	7.7	87	<0.1	14.0
REP CG-I37	QC	14	0.66	81	0.006	<20	2.27	<0.01	0.06	<2	<5	<1	5	<0.05	<5						
CG-D43	Soil	16	0.37	45	0.025	<20	3.16	<0.01	0.04	<2	<5	<1	10	<0.05	6	1.7	16.8	11.8	120	0.4	5.3
REP CG-D43	QC	16	0.36	43	0.025	<20	3.13	<0.01	0.04	<2	<5	<1	9	<0.05	5						
Reference Materials																					
STD DS9	Standard	121	0.66	348	0.109	<20	0.99	0.09	0.44	3	<5	<1	5	0.18	<5						
STD DS9	Standard	113	0.62	316	0.095	<20	0.89	0.08	0.41	3	<5	<1	<5	0.17	<5						
STD DS9	Standard	120	0.62	334	0.102	<20	0.92	0.08	0.41	3	<5	<1	<5	0.16	<5						
STD DS9	Standard	123	0.62	324	0.104	<20	0.95	0.09	0.41	2	<5	<1	<5	0.17	<5						
STD DS9	Standard	115	0.60	326	0.103	<20	0.92	0.08	0.40	2	<5	<1	<5	0.16	<5						
STD DS9	Standard	114	0.60	317	0.103	<20	0.93	0.08	0.38	2	<5	<1	<5	0.17	<5						
STD DS9	Standard	113	0.60	317	0.100	<20	0.91	0.08	0.38	2	<5	<1	<5	0.17	<5						
STD DS9	Standard	117	0.63	334	0.111	<20	0.97	0.09	0.41	3	<5	<1	<5	0.16	<5						
STD DS9	Standard															13.5	104.5	126.7	310	1.9	39.1
STD DS9	Standard															13.3	113.1	131.5	332	1.9	41.5
STD DS9	Standard															12.8	104.7	127.0	296	1.6	38.2
STD DS9	Standard															12.2	107.1	126.5	290	1.6	38.1

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Report Date: November 02, 2012

Page: 2 of 4

Part: 3 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
		ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
		0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
CG-A13	Soil	2.0	204	3.30	4.2	1.5	0.7	8	0.1	0.3	0.1	78	0.08	0.031	4	10	0.12	62	0.072	<1	1.39
REP CG-A13	QC																				
CG-O48	Soil	4.9	281	2.96	8.9	1.5	<0.1	24	0.4	0.4	0.1	58	0.25	0.080	15	11	0.26	130	0.026	2	1.62
REP CG-O48	QC	5.2	290	3.06	8.8	1.7	<0.1	26	0.6	0.4	<0.1	60	0.26	0.091	15	11	0.27	132	0.026	<1	1.75
CG-D15	Soil	3.8	208	2.67	6.9	1.9	0.4	10	0.3	0.3	<0.1	54	0.09	0.042	7	11	0.25	55	0.048	1	2.35
REP CG-D15	QC	3.9	209	2.70	7.0	1.9	0.4	10	0.2	0.3	<0.1	56	0.10	0.043	7	12	0.25	53	0.051	1	2.44
CG-F15	Soil	6.0	283	3.16	7.4	1.5	1.1	14	<0.1	0.3	<0.1	65	0.11	0.052	6	13	0.43	57	0.096	<1	2.48
REP CG-F15	QC																				
CG-I30	Soil	9.2	400	3.33	8.8	0.5	0.1	12	0.2	0.3	0.1	67	0.11	0.055	8	13	0.35	69	0.036	1	1.64
REP CG-I30	QC	9.3	385	3.35	9.0	1.8	0.1	12	0.2	0.4	0.1	67	0.12	0.060	8	13	0.36	70	0.037	3	1.63
CG-I35	Soil	5.0	277	2.84	6.4	<0.5	0.1	12	0.2	0.3	0.1	61	0.11	0.051	8	11	0.37	73	0.026	<1	2.06
REP CG-I35	QC	5.3	259	3.02	6.0	<0.5	0.1	12	0.2	0.3	0.1	62	0.11	0.046	8	12	0.36	75	0.026	2	2.01
CG-I37	Soil	19.6	1624	4.92	16.0	<0.5	0.5	7	0.2	0.7	<0.1	92	0.05	0.101	11	19	0.69	86	0.007	1	2.61
REP CG-I37	QC																				
CG-D43	Soil	7.0	416	6.09	24.9	<0.5	1.2	8	0.1	0.9	0.1	139	0.08	0.261	5	17	0.37	47	0.025	1	3.23
REP CG-D43	QC																				
Reference Materials																					
STD DS9	Standard																				
STD DS9	Standard																				
STD DS9	Standard																				
STD DS9	Standard																				
STD DS9	Standard																				
STD DS9	Standard																				
STD DS9	Standard																				
STD DS9	Standard	7.8	611	2.39	25.8	115.0	6.9	88	2.1	6.1	7.5	41	0.76	0.082	15	121	0.64	323	0.113	3	1.00
STD DS9	Standard	7.7	605	2.34	26.4	128.7	6.9	78	2.4	6.0	6.6	40	0.71	0.085	14	120	0.64	329	0.114	3	1.02
STD DS9	Standard	7.5	566	2.29	26.1	108.7	6.8	76	2.4	5.4	6.5	39	0.73	0.084	13	116	0.60	298	0.113	<1	0.89
STD DS9	Standard	7.2	547	2.14	24.5	123.4	6.2	69	2.5	5.6	6.4	38	0.66	0.074	12	112	0.56	295	0.108	2	0.85

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Client: Harsbo Minerals Ltd.
 4758 Victory Street
 Burnaby BC V5J 1S2 Canada

Project: COLE
Report Date: November 02, 2012

Page: 2 of 4

Part: 4 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
CG-A13	Soil	0.006	0.04	0.1	0.08	2.0	<0.1	<0.05	10	<0.5	<0.2
REP CG-A13	QC										
CG-O48	Soil	0.011	0.05	<0.1	0.08	1.7	<0.1	<0.05	7	<0.5	<0.2
REP CG-O48	QC	0.011	0.05	<0.1	0.07	1.5	<0.1	<0.05	7	<0.5	<0.2
CG-D15	Soil	0.009	0.03	0.2	0.13	2.9	<0.1	<0.05	6	0.6	<0.2
REP CG-D15	QC	0.010	0.04	0.1	0.12	2.9	<0.1	<0.05	6	0.7	<0.2
CG-F15	Soil	0.010	0.04	0.1	0.06	4.2	<0.1	<0.05	7	0.5	<0.2
REP CG-F15	QC										
CG-I30	Soil	0.010	0.06	<0.1	0.05	2.1	<0.1	<0.05	7	<0.5	<0.2
REP CG-I30	QC	0.009	0.06	<0.1	0.07	2.2	<0.1	<0.05	7	<0.5	<0.2
CG-I35	Soil	0.010	0.05	<0.1	0.06	2.6	<0.1	<0.05	9	0.6	<0.2
REP CG-I35	QC	0.009	0.05	<0.1	0.05	2.4	<0.1	<0.05	8	<0.5	<0.2
CG-I37	Soil	0.006	0.07	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
REP CG-I37	QC										
CG-D43	Soil	0.010	0.04	<0.1	0.09	5.9	<0.1	<0.05	12	<0.5	<0.2
REP CG-D43	QC										
Reference Materials											
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard										
STD DS9	Standard	0.103	0.43	2.9	0.22	3.0	5.4	0.13	5	5.9	5.0
STD DS9	Standard	0.095	0.41	3.2	0.21	2.8	5.6	0.15	5	5.6	5.6
STD DS9	Standard	0.100	0.43	3.1	0.17	2.8	5.6	0.12	5	5.5	5.4
STD DS9	Standard	0.082	0.37	2.9	0.19	2.4	5.2	0.13	4	4.5	5.2

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Project: COLE
 Report Date: November 02, 2012

Page: 3 of 4

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D		
		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	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1	
STD DS9	Standard																					
STD DS9	Standard																					
STD DS9	Standard																					
STD DS9	Standard																					
STD OREAS45CA	Standard	1	527	21	61	<0.3	261	97	966	17.02	4	<2	7	15	<0.5	<3	<3	221	0.45	0.041	17	
STD OREAS45CA	Standard	1	507	19	58	<0.3	244	95	956	15.81	4	<2	7	15	<0.5	<3	<3	217	0.45	0.039	16	
STD OREAS45CA	Standard	3	488	28	53	<0.3	236	88	898	15.00	<2	<2	5	15	<0.5	<3	<3	202	0.42	0.039	16	
STD OREAS45CA	Standard	2	505	27	58	<0.3	249	91	940	16.57	4	<2	5	15	<0.5	<3	<3	207	0.44	0.041	16	
STD OREAS45CA	Standard	3	479	30	54	<0.3	235	86	900	15.40	3	<2	5	14	<0.5	<3	<3	199	0.42	0.039	16	
STD OREAS45CA	Standard	1	510	19	59	<0.3	268	98	928	16.71	4	<2	7	15	<0.5	<3	<3	223	0.43	0.042	17	
STD OREAS45CA	Standard	1	476	19	54	0.4	243	91	893	16.26	4	<2	7	14	<0.5	<3	<3	208	0.42	0.039	16	
STD OREAS45CA	Standard	3	517	8	57	<0.3	255	89	933	16.23	<2	2	5	15	0.7	<3	<3	207	0.43	0.039	16	
STD OREAS45CA Expected		1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9	
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	0.118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	4	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	
BLK	Blank																					
BLK	Blank																					
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Page: 3 of 4

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1D Cr ppm	1D Mg %	1D Ba ppm	1D Ti %	1D B ppm	1D Al %	1D Na %	1D K %	1D W ppm	1D Ti ppm	1D Hg ppm	Ga ppm	S %	1D Sc ppm	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
STD DS9	Standard															12.0	102.4	105.7	298	1.8	35.8
STD DS9	Standard															12.6	108.2	133.0	310	1.8	40.4
STD DS9	Standard															13.4	108.0	132.4	301	1.9	41.4
STD DS9	Standard															14.0	111.5	132.1	315	1.9	41.9
STD OREAS45CA	Standard	753	0.14	172	0.135	<20	3.80	0.01	0.08	<2	<5	<1	12	<0.05	49						
STD OREAS45CA	Standard	719	0.14	168	0.126	<20	3.47	0.01	0.08	<2	<5	<1	12	<0.05	47						
STD OREAS45CA	Standard	717	0.13	157	0.129	<20	3.37	0.01	0.07	<2	<5	<1	11	<0.05	45						
STD OREAS45CA	Standard	753	0.14	165	0.135	<20	3.73	0.01	0.07	<2	<5	<1	16	<0.05	48						
STD OREAS45CA	Standard	712	0.13	161	0.125	<20	3.41	<0.01	0.07	<2	<5	<1	11	<0.05	46						
STD OREAS45CA	Standard	773	0.14	165	0.141	<20	3.83	0.01	0.08	<2	<5	<1	13	<0.05	50						
STD OREAS45CA	Standard	702	0.13	157	0.133	<20	3.49	0.01	0.07	<2	<5	<1	11	<0.05	46						
STD OREAS45CA	Standard	776	0.14	164	0.146	<20	3.79	0.01	0.07	<2	<5	<1	9	<0.05	48						
STD OREAS45CA Expected		709	0.1358	164	0.128		3.592	0.0075	0.0717		0.07	0.03		0.021							
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	5.3	0.2	4.59	0.1615	2.5	12.84	108	126	317	1.83	40.3
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<5	<1	<5	<0.05	<5						
BLK	Blank															<0.1	0.2	<0.1	<1	<0.1	<0.1
BLK	Blank															<0.1	<0.1	<0.1	<1	<0.1	<0.1
BLK	Blank															<0.1	0.2	<0.1	<1	<0.1	<0.1
BLK	Blank															<0.1	<0.1	<0.1	<1	<0.1	<0.1
BLK	Blank															<0.1	0.4	0.1	<1	<0.1	<0.1
BLK	Blank															<0.1	<0.1	<0.1	<1	<0.1	<0.1
BLK	Blank															<0.1	0.1	<0.1	<1	<0.1	<0.1

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Project: COLE
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Page: 3 of 4

Part: 3 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
		ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
		0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
STD DS9	Standard	7.0	559	2.21	24.2	123.1	5.3	69	1.9	4.7	5.8	40	0.68	0.078	13	107	0.60	288	0.108	3	0.88
STD DS9	Standard	7.3	584	2.33	26.3	116.3	7.0	67	2.4	4.9	6.2	40	0.73	0.091	13	118	0.66	306	0.108	3	0.97
STD DS9	Standard	7.4	606	2.33	25.9	119.2	6.0	66	2.4	5.2	6.1	43	0.71	0.080	12	119	0.61	293	0.100	2	0.92
STD DS9	Standard	8.0	603	2.38	24.1	124.1	6.8	70	2.4	5.2	6.2	48	0.77	0.079	15	128	0.62	311	0.118	3	0.96
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA Expected																					
STD DS9 Expected		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	121	0.6165	295	0.1108		0.9577
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01
BLK	Blank	<0.1	1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	0.02
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01
BLK	Blank	<0.1	1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01

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Page: 3 of 4

Part: 4 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS9	Standard	0.082	0.39	2.9	0.18	2.7	5.3	0.12	5	5.6	4.6
STD DS9	Standard	0.085	0.41	3.2	0.21	2.7	5.7	0.15	5	7.4	4.9
STD DS9	Standard	0.085	0.38	3.5	0.21	2.3	6.0	<0.05	5	4.9	5.4
STD DS9	Standard	0.084	0.40	2.9	0.21	2.8	5.6	0.14	5	5.2	4.9
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA	Standard										
STD OREAS45CA Expected											
STD DS9 Expected		0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Page: 4 of 4

Part: 1 of 1

QUALITY CONTROL REPORT

VAN12004303.2

	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
	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	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
BLK	Blank	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1



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Page: 4 of 4

Part: 2 of 1

QUALITY CONTROL REPORT

VAN12004303.2

	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Ga	S	Sc	Mo	Cu	Pb	Zn	Ag	Ni
	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	1	0.01	1	0.001	20	0.01	0.01	0.01	2	5	1	5	0.05	5	0.1	0.1	0.1	1	0.1	0.1
BLK	Blank														<0.1	<0.1	<0.1	<1	<0.1	<0.1



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Harsbo Minerals Ltd.**

4758 Victory Street

Burnaby BC V5J 1S2 Canada

Project: COLE

Report Date: November 02, 2012

Page: 4 of 4

Part: 3 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
		ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
		0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	1	0.01
BLK	Blank	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01



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 4758 Victory Street
 Burnaby BC V5J 1S2 Canada

Project: COLE
Report Date: November 02, 2012

Page: 4 of 4

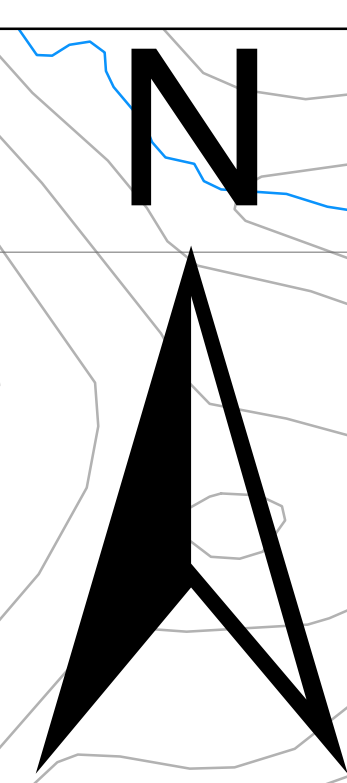
Part: 4 of 1

QUALITY CONTROL REPORT

VAN12004303.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

APPENDIX IV
LARGE-SCALE PROPERTY MAPS



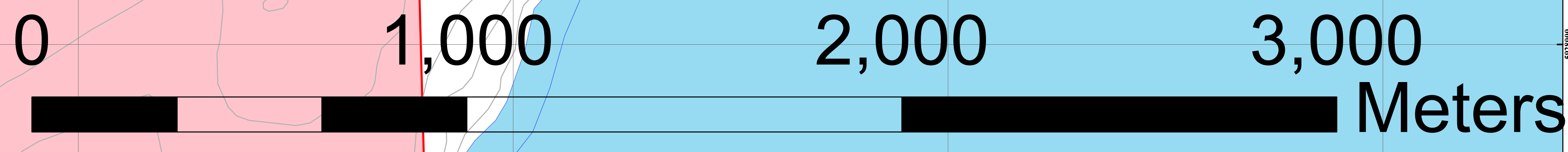
Insert 1

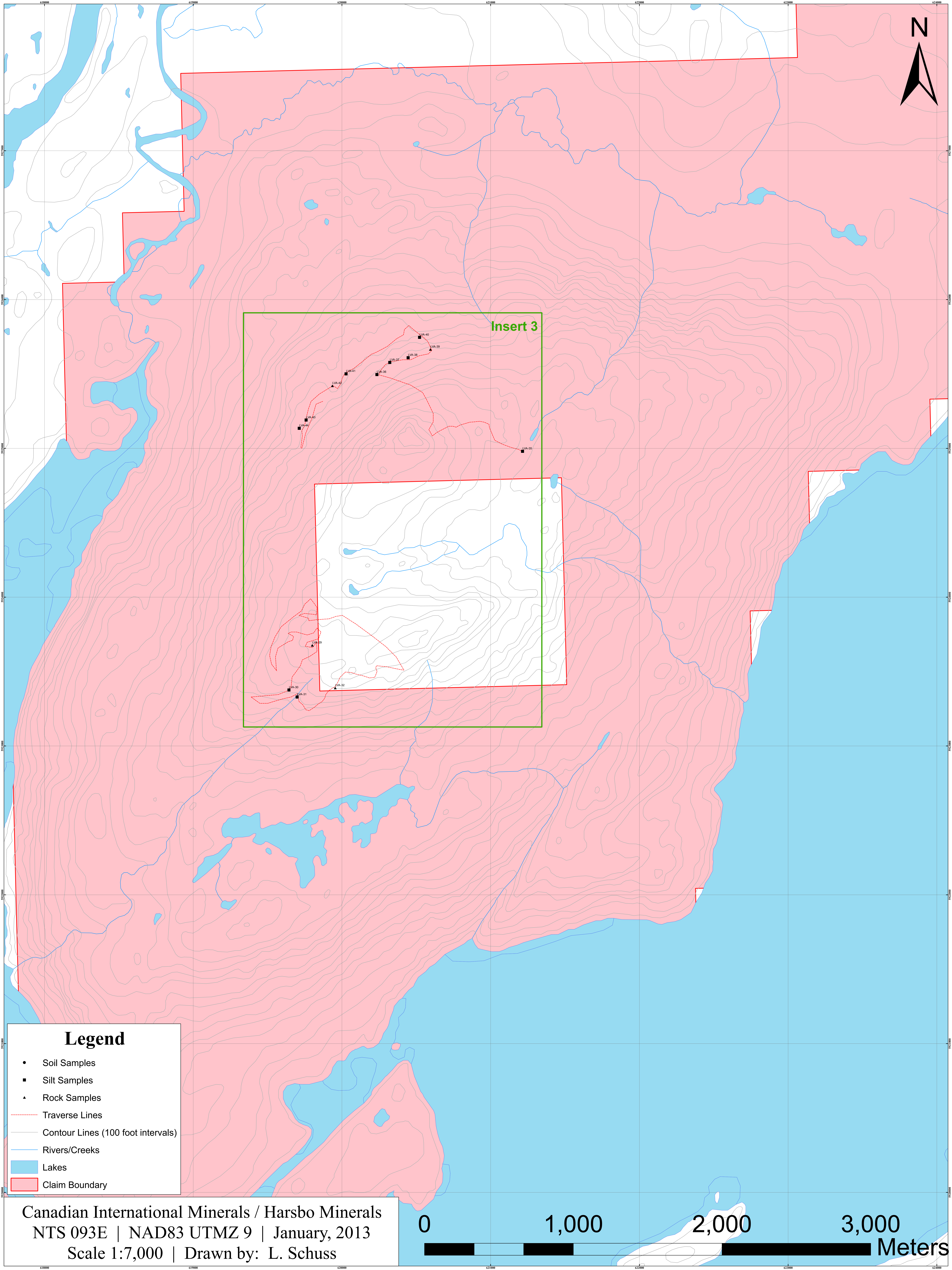
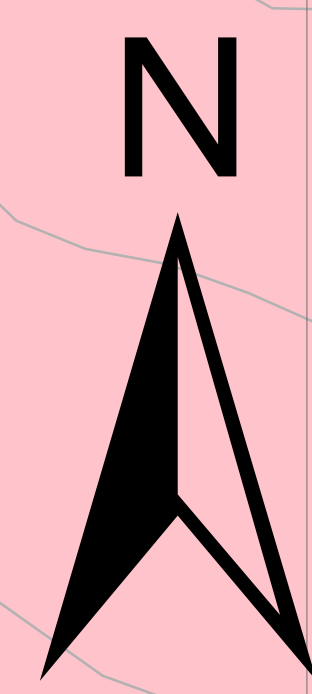
Insert 2

Legend

- Soil Samples
- Silt Samples
- ▲ Rock Samples
- - - Traverse Lines
- Contour Lines (100 foot intervals)
- Rivers/Creeks
- Lakes
- Claim Boundary

Canadian International Minerals / Harsbo Minerals
NTS 093E | NAD83 UTMZ 9 | January, 2013
Scale 1:7,000 | Drawn by: L. Schuss

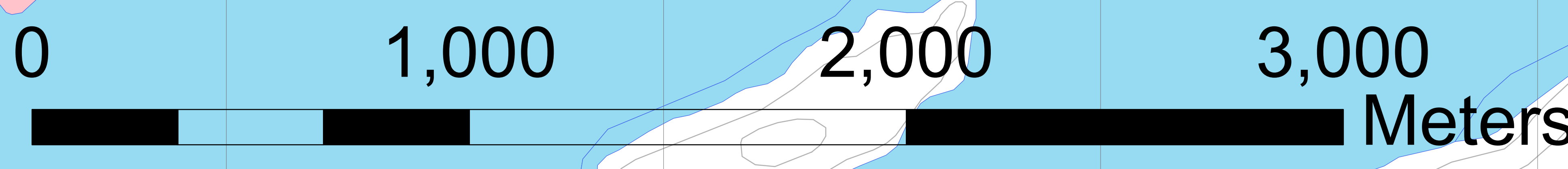




Insert 3

- Legend**
- Soil Samples
 - Silt Samples
 - ▲ Rock Samples
 - Traverse Lines
 - Contour Lines (100 foot intervals)
 - Rivers/Creeks
 - Lakes
 - Claim Boundary

Canadian International Minerals / Harsbo Minerals
NTS 093E | NAD83 UTMZ 9 | January, 2013
Scale 1:7,000 | Drawn by: L. Schuss



Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Laurel Arness / Geologist		9	\$600.00	\$5,400.00	
Luke Schuss / Field Assistant		9	\$300.00	\$2,700.00	
Dylan Anderson / Field Assistant		9	\$300.00	\$2,700.00	
Andrew Gable / Field Assistant		9	\$200.00	\$1,800.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$12,600.00	\$12,600.00
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search			\$0.00	\$0.00	
Database compilation			\$0.00	\$0.00	
Computer modelling			\$0.00	\$0.00	
Reprocessing of data			\$0.00	\$0.00	
General research			\$0.00	\$0.00	
Report preparation		1.0	\$2,340.00	\$2,340.00	
Other (specify)					
				\$2,340.00	\$2,340.00
Airborne Exploration Surveys	Line Kilometres / Enter total invoiced amount				
Aeromagnetics			\$0.00	\$0.00	
Radiometrics			\$0.00	\$0.00	
Electromagnetics			\$0.00	\$0.00	
Gravity			\$0.00	\$0.00	
Digital terrain modelling			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Remote Sensing	Area in Hectares / Enter total invoiced amount or list personnel				
Aerial photography			\$0.00	\$0.00	
LANDSAT			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Ground Exploration Surveys	Area in Hectares/List Personnel				
Geological mapping					
Regional			<i>note: expenditures here</i>		
Reconnaissance			<i>should be captured in Personnel</i>		
Prospect			<i>field expenditures above</i>		
Underground	Define by length and width				
Trenches	Define by length and width			\$0.00	\$0.00
Ground geophysics	Line Kilometres / Enter total amount invoiced list personnel				
Radiometrics					
Magnetics					
Gravity					
Digital terrain modelling					
Electromagnetics	<i>note: expenditures for your crew in the field</i>				
SP/AP/EP	<i>should be captured above in Personnel</i>				
IP	<i>field expenditures above</i>				
AMT/CSAMT					
Resistivity					
Complex resistivity					
Seismic reflection					
Seismic refraction					
Well logging	Define by total length				
Geophysical interpretation					
Petrophysics					
Other (specify)					

					\$0.00	\$0.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal		
Drill (cuttings, core, etc.)			\$0.00	\$0.00		
Stream sediment		18.0	\$27.69	\$498.42		
Soil	<i>note: This is for assays or</i>	261.0	\$27.69	\$7,227.09		
Rock	<i>laboratory costs</i>	10.0	\$27.69	\$276.90		
Water			\$0.00	\$0.00		
Biogeochemistry			\$0.00	\$0.00		
Whole rock			\$0.00	\$0.00		
Petrology			\$0.00	\$0.00		
Other (specify)			\$0.00	\$0.00		
					\$8,002.41	\$8,002.41
Drilling	No. of Holes, Size of Core and Metres	No.	Rate	Subtotal		
Diamond			\$0.00	\$0.00		
Reverse circulation (RC)			\$0.00	\$0.00		
Rotary air blast (RAB)			\$0.00	\$0.00		
Other (specify)			\$0.00	\$0.00		
					\$0.00	\$0.00
Other Operations	Clarify	No.	Rate	Subtotal		
Trenching			\$0.00	\$0.00		
Bulk sampling			\$0.00	\$0.00		
Underground development			\$0.00	\$0.00		
Other (specify)			\$0.00	\$0.00		
					\$0.00	\$0.00
Reclamation	Clarify	No.	Rate	Subtotal		
After drilling			\$0.00	\$0.00		
Monitoring			\$0.00	\$0.00		
Other (specify)			\$0.00	\$0.00		
Transportation		No.	Rate	Subtotal		
Airfare		1.00	\$2,367.75	\$2,367.75		
Taxi			\$0.00	\$0.00		
truck rental		1.00	\$725.00	\$725.00		
kilometers			\$0.00	\$0.00		
ATV			\$0.00	\$0.00		
fuel		1.00	\$367.01	\$367.01		
Helicopter (hours)		1	\$5,256.88	\$5,256.88		
Fuel (litres/hour)			\$0.00	\$0.00		
Other						
					\$8,716.64	\$8,716.64
Accommodation & Food	Rates per day					
Hotel		1.00	\$309.00	\$309.00		
Camp		1.00	\$8,133.38	\$8,133.38		
Meals	day rate or actual costs-specify	1.00	\$199.90	\$199.90		
					\$8,642.28	\$8,642.28
Miscellaneous						
Telephone			\$0.00	\$0.00		
Other (Specify)	Gear	1.00	\$84.55	\$84.55		
					\$84.55	\$84.55
Equipment Rentals						
Field Gear (Specify)			\$0.00	\$0.00		
Other (Specify)	Radios	1.00	\$265.00	\$265.00		
					\$265.00	\$265.00
Freight, rock samples						
					\$0.00	\$0.00

			\$0.00	\$0.00	
				\$0.00	\$0.00
				Subtotal	\$40,650.88
				HST	4850.8
				Total	\$45,501.68



Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT (type of survey(s)): PROSPECTING & GEOCHEMICAL SURVEY

TOTAL COST: \$45,501.68

AUTHOR(S): LAUREL ARNESS, LUKE SCHUSS

SIGNATURE(S): _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): NONE, NO MECHANICAL EQUIPMENT USED

YEAR OF WORK: 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): _____

PROPERTY NAME: COLE PROJECT

CLAIM NAME(S) (on which the work was done): 909629, 909649, 909669, 928223, 928224, 928225, 928226, 928227, 928249
928250, 928329, 928330, 928332, 928350, 928351, 928352, 1010651, 1010691

COMMODITIES SOUGHT: CU, AG, AU, ZN, PB

MINERAL INVENTORY NUMBER(S), IF KNOWN: 093E058, 093E116, 093E115, 093E114, 093E067, 093E032

MINING DIVISION: OMINECA

NTS/BCOS: 093E

LATITUDE: 53 ° 28 '45 " **LONGITUDE:** 127 ° 7 '20 " (at centre of work)

OWNER(S):

1) CANADIAN INTERNATIONAL MINERALS INC

2) _____

MAILING ADDRESS:

#1128-789 WEST PENDER STREET

VANCOUVER, BC, V6C 1H2

OPERATOR(S) (who paid for the work):

1) HARSBO MINERALS LTD

2) _____

MAILING ADDRESS:

4758 VICTORY STREET

BURNABY, BC, V5J 1S2

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

INTERMONTANE TECTONIC BELT COAST PLUTONIC COMPLEX STIKINE TERRANE MIDDLE JURASSIC ANDESITIC
HAZELTON GROUP UPPER CRETACEOUS VOLCANICLASTIC KASALKA GROUP BULKLEY INTRUSIONS TELKWA
FORMATION

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 17991, 14536, 14526, 13079, 13077, 13076
13078, 12597, 11530, 12109, 11929, 09066

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne			
_____	_____	_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil 261	_____	_____	\$7227.09
Silt 18	_____	_____	\$498.42
Rock 10	_____	_____	\$276.90
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area) 26km			\$37499.27
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
		TOTAL COST:	\$45,501.68