Soil Sampling, Mapping and Data Compilation
Assessment Report

ON THE

Whipsaw Creek Property
Similkameen Mining Division
BRITISH COLUMBIA

NTS: 092H7
49°16' N North Latitude
120°45' West Longitude
(centre)

For
Martech Industries Inc.
Suite 1329 – 510 West HastingsStreet
Vancouver, BC,
V6B 1L8

by

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February 16, 2014,

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1. SUMMARY AND CONCLUSIONS

1.1 Property Description and Location

The Whipsaw property consists of a seven mineral tenures and 1 mining lease covering 4,154.95 hectares located in the Similkameen Mining Division of south western British Columbia. The property is located 26 kilometers southwest of Princeton, B.C. and 170 kilometers east of Vancouver. Access is by 25kilometers of logging road along Whipsaw Creek from Highway 3. The property is 16 kilometers west southwest of the Copper Mountain deposit currently in production by Copper Mountain Mining and Mitsubishi Materials Corporation. Martech Industries has controlled the property since 1987 when the current boundaries were established. The Whipsaw property contains mineralization that includes copper, molybdenum, gold, silver, zinc and lead related to the Whipsaw Porphyry stock.

1.2 Project History

After the original staking of gold-bearing, quartz-sulphide vein deposits in 1908, mineral claims covering various parts or the mineralized area have been more or less continually held by numerous owners. Major geochemical stream sediment and soil anomalies containing up to 1.8% copper were discovered in 1959 in two tributaries, Forty-five and Forty-seven Mile creeks, entering Whipsaw Creek from the north

Since 1959, various parts of the area in which the stream sediment anomalies originated were covered by claim groups with separate and unrelated ownerships. In 1987 all the properties were consolidated by Mr. Charles R. Martin, then President of World Wide Minerals Ltd.

1.3 Geology and Mineralization

The Whipsaw property contains mineralization that includes copper, molybdenum, gold, silver, zinc and lead, and is related to the Whipsaw Porphyry stock. The stock intrudes the west-dipping contact between the Upper Triassic Nicola Group volcanics and sediments, with the Jurassic-Cretaceous Eagle Granodiorite. Up to the present, copper, molybdenum and gold mineralization has been found mainly in the Nicola rocks, and appears to be spatially related to the margins of the Whipsaw Porphyry.

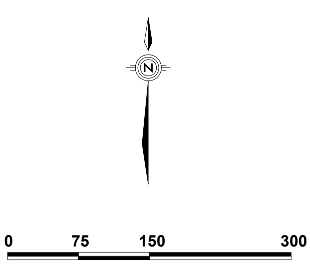
Drilling programs based on geophysical and geochemical surveys correlated with geology, have outlined extensive areas of 0.15-0.35% copper mineralization accompanied by significant amounts of molybdenum. In addition, soil sampling and limited follow-up mapping has indicated widespread gold and silver anomalies through the southern portion of the property.

1.4 2013 Exploration program

The 2013 exploration program consisted of infill grid based soil sampling, geological mapping and digitizing of historical drill locations and results. The soil geochemical grid consisted of 267 samples over an area of 0.4km by 0.8kms. Lines were located 50m apart and samples collected at 25m intervals. All of the historical exploration records are in paper format, and to date, no attempt has been made to capture this data in digital format to enable a comprehensive compilation program to develop additional targets. In addition more historical reports were acquired by Martech during 2013 which indicate that an area of higher grade copper was discovered in trenches by Amax Minerals which has not been followed up. The field work was carried out between September 4, and October 21, 2013. A Total of $25,586.46 was spent on the project prior to the current expiry date.

1.5 Conclusions and Recommendations

Previous work, including drill programs, geophysical and geochemical surveys along with geological mapping, have outlined extensive areas of 0.15-0.35% porphyry style copper mineralization accompanied by significant amounts of molybdenum. In addition previous regional



MARTECH INDUSTRIES INC.			
WHIPSAW PROPERTY Similkameen Mining Division			
Location Map			
Date Apr 17, 2014	*Scale* 1:8,000,000	*Figure*	
Projection UTM Zone 10 - NAD83	*State/Province* BC	2.2	
BCGS	*NTS* 92H02,07		
Author MJD	*File* WhipLoc		

scale soil geochemical surveys have located zones of significantly anomalous base and precious metals dominantly along the southern flank of the porphyry mineralization. The present work has included a grid based soil geochemical survey within the area of higher grade copper mineralization described by a recently acquired 1969 Amax report. This report included assay data from bulldozer trenching programs carried out by Amax. These trench results included 6m (20feet) of 1.0%copper which was previously unknown. The trenching was conducted in the North Prophyry area, and although the locations of the trenches are still visible, they have all slumped such that the geology and bedrock they exposed is no longer visible. All of the drill locations and assay results for this portion of the property have been digitized and compiled to provide a better understanding of the geology and the attitude of the mineralization. The compilation is expected to provide targets for future drill programs.

A program consisting of expansion of the soil geochemical grid and completion of the data compilation is recommended for the Whipsaw property. An additional 500 soil samples to expand the coverage of the known anomalies would represent Phase 1 of the 2014 field program. Concurrent with that field work, the remainder of the historical geochemical, geological and geophysical data should be captured in digital format to complete the compilation. The program is estimated to cost $55,000.00.

2 PROPERTY LOCATION AND DESCRIPTION

2.1 Property location

The Whipsaw property consists of a seven mineral tenures and 1 mining lease covering 4,154.95 hectares located in the Similkameen Mining Division of south western British Columbia. The property is located 26 kilometers southwest of Princeton, B.C. and 170 kilometers east of Vancouver (Figure 1.1). Access is by 25 kilometers of logging road along the north side of Whipsaw Creek from Highway 3. The property is also 16 kilometers west southwest of the Copper Mountain deposit.

2.2 Property Description

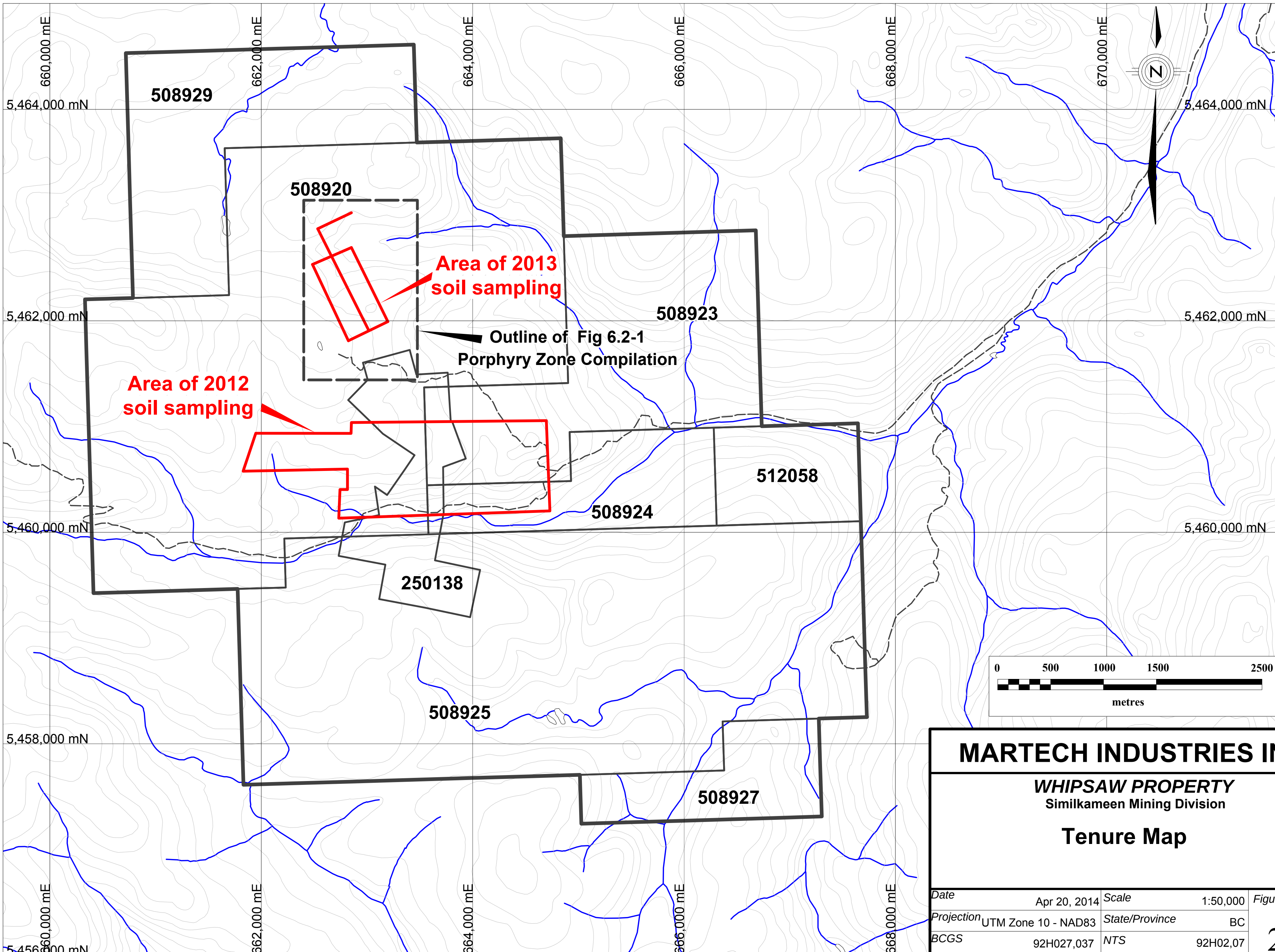
The Whipsaw property consists of eight (8) tenures consisting of one (1) Mineral Lease and seven cell based Mineral claims totalling 4,154.95 hectares (Figure 2.2). The claims are registered in the name of Martech Industries Inc., and have expiry dates as shown in Table 2.2, based on acceptance of the current work. This report details the work carried out in order to complete the required assessment for the seven cell based claims. Annual taxes are required to maintain the Mineral Lease

Table 2.2 – Tenure List

NAME	TENURE NO.		EXPIRY DATE	AREA
Mineral Lease	250138		2015/JAN/13	171.75
	508920		2015/Feb/16	1,390.71
	508923		2015/Feb/16	463.58
	508924		2015/Feb/16	189.69
	508925		2015/Feb/16	1,286.02
	508927		2015/Feb/16	147.61
	508929		2015/Feb/16	379.14
	512058		2015/Feb/16	126.46
Total				**4,154.96**ha

New assessment work requirements were introduced in British Columbia on July 1, 2012. A four tier system of yearly expenditures in now in place for which the details are given below;

$5.00 per hectare for anniversary years 1 and 2



MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY

Similkameen Mining Division

Tenure Map

Date Apr 20, 2014	*Scale* 1:50,000	*Figure*
Projection UTM Zone 10 - NAD83	*State/Province* BC	2.2
BCGS 92H027,037	*NTS* 92H02,07	
Author MJD	*File* WhipClaim	

$10.00 per hectare for anniversary years 3 and 4
$15.00 per hectare for anniversary years 5 and 6
$20.00 per hectare for subsequent anniversary years

To simplify this change in work requirements, all claims are treated as if they are in their first anniversary year. The filing fee has also been eliminated. The new regulations have also changed the "Cash-in-Lieu" payments that may be made if physical work has not been conducted on the mineral titles. The revised payment schedule is as follows;

$10 per hectare for anniversary years 1 and 2;
$20 per hectare for anniversary years 3 and 4;
$30 per hectare for anniversary years 5 and 6; and
$40 per hectare for subsequent anniversary years

The Mineral Lease, Tenure # 250138, incurs an annual tax of $20.00/ha. The remaining tenures total an area of 3,983.21ha which requires an expenditure of $19,916.05 to maintain the claims in anniversary years 1 and 2. For anniversary years 4 and 5, annual expenditures of $39,832.10 will be required. Excess expenditures incurred in any year can be filed up to an amount that moves the expiry date ten years into the future.

3 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

3.1 Accessibility

Access from Vancouver is 160kms via Highway 1 to Hope, then 133kms along Highway 3 to Princeton. Thirteen km southwest of Princeton, a good logging road leaves Highway 3 at Whipsaw Creek and travels southwestward along the north bank of Whipsaw Creek through the property for a distance of 30 kms (Figure 3.1). Numerous logging and mining roads give good access to most parts of the property.

3.2 Climate

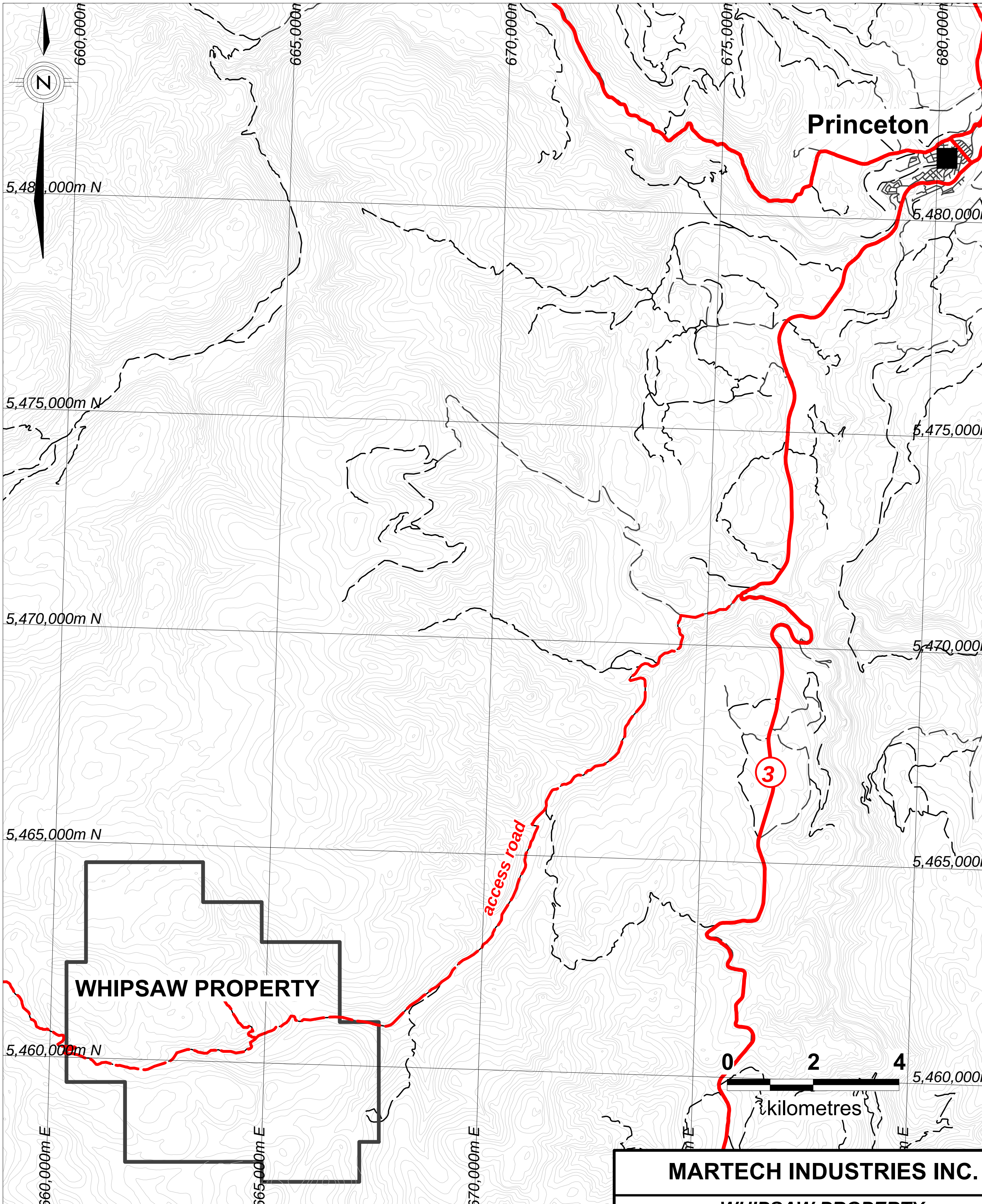
The Whipsaw property enjoys a temperate continental climate with warm summers and cold winters. Snowfall accumulation in this part of the province averages 1.5 meters in depth. Surface exploration work on the Whipsaw property is best carried out between June and late October.

3.3 Infrastructure

Accommodation along with basic supplies, labour and fuel may be sourced in the community of Princeton 26 kilometres to the east. Any specialized material, equipment or manpower requirements would be readily available in the Vancouver, 290 kilometres to the west. Rail lines are also present in Princeton. Power lines follow the route of Highway 3. The recently reopened Copper Mountain Mine is located 17kms to the northeast.

3.4 Physiography and Vegetation

Whipsaw Creek flows southeastward through the middle of the property. The topography within the property is generally moderate, but there are some deeply incised valleys. Elevations range from 1385m to 1660m. The property is covered with large stands of commercial evergreen trees. There is generally little undergrowth but dense brush does occur locally. Extensive logging has been carried out in the area, however there is currently no active logging within the property boundaries. In general outcrop is sparse, but in many areas the overburden is less than one metre deep. Swampy areas occur near the sources of most of the creeks.



Access road

Highway

Roads

MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY

Similkameen Mining Division

Property Access Map

Date	Apr 20, 2014	Scale	1:125,000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	3.1
BCGS		NTS	92H02,07	
Author	MJD	File	Whip13Access	

4 HISTORY

Placer deposits in the Tulameen and Similkameen rivers and their tributaries have been known and worked since the 1860s. In 1885 rich placer deposits of gold and platinum were discovered in Granite Creek near the town of Tulameen. Shortly afterward, gold and platinum placer deposits were discovered in Whipsaw Creek downstream to the east of the present Whipsaw property. Prospecting for related bedrock deposits led to the staking of gold and silver bearing veins in the central part of the current property in 1908.

In 1959, reconnaissance stream sediment sampling by Texas Gulf Sulphur Company discovered major stream sediment Cu-Zn anomalies in 45 Mile and 47 Mile creeks, tributaries entering Whipsaw Creek from the north (Bacon, 1960). These anomalies were determined to be related to the northern and southern contact areas of the Whipsaw Porphyry. Follow-up work outlined soil geochemical, electromagnetic and induced polarization anomalies near the headwaters of 47 Mile Creek (Bacon, 1960 & 1961; Holyk, 1962). This anomalous area was subsequently explored by several companies (Seraphim, 1963; Hall, 1963; Mustard, 1959; Macauley and Paulus, 1971) over the following 2 decades. Also during this period, adjacent properties were acquired and explored by several other companies and individuals. Despite the property boundary constraints to exploration programs, large areas of 0.1-0.3% Cu with accompanying molybdenum were discovered by limited diamond drilling programs while investigating the various geochemical and geophysical anomalies (Heim, 1987).

In 1960-62 soil sampling, geological mapping, EM, Magnetic and I.P. surveys were completed along with 3 diamond drillholes. Moneta Porcupine, Dome, and Tennessee Corp. optioned the property through 1963-64 and carried out additional I.P., soil geochemistry and drilled 2 more holes. In 1968 Amax entered into an agreement under which they completed additional soil sampling, mapping, and trenching. Texas Gulf trenched and drilled 4 holes in 1969 based on the Amax work.

Newmont's interest in the area dates from 1967, when a stream sediment survey indicated a strong anomaly, but as all the ground was staked nothing was done. In 1969 the Whipsaw property was submitted to Newmont who proposed a program of further exploration (Macauley, 1969). No further work was carried out until July 1971, when TGS optioned their ground to Newmont and an I.P survey, geological mapping, and some additional geochemical sampling were completed.

In 1985, World Wide Minerals Ltd. acquired a portion of the property and soil sampled in the area of the BZ trenches to test for precious as well as base metals (Helm, 1985). It was found that the area of the BZ trenches was located within a large Cu-Zn soil anomaly accompanied by anomalous Au, Ag and As values. In 1986, the BZ trenches were cleaned out and resampled, with new rock samples assaying as high as 11.62 g/t Au and 185.1 g/t Ag across 0.61m in a shear zone (Heim 1987).

In 1987, World Wide Minerals Ltd. succeeded in consolidating the current property, and completed reconnaissance soil sampling over the central portion of the area. A total of 5,580 samples were collected and analyzed for Au and, separately, for 31 elements using the inductively coupled plasma (ICP) method. In late 1987 and January 1988 30 diamond drill holes totalling 3,040.1m were completed over part of the BZ zone and on two zones south of Whipsaw Creek (Richardson, 1988b). Also in 1987, World Wide Minerals contracted an airborne magnetometer and very low frequency electromagnetic (VLF-EM) survey over the southern part of the property (Walker, 1987). An intense magnetic anomaly was located over the SE portion of the property, which may indicate the presence of an ultrabasic intrusion.

In 1990, World Wide completed a three hole diamond drilling program immediately north of the Whipsaw Porphyry Stock (Richardson, 1990a and 1990b). In 1990 World Wide began a program of detail geochemical surveying to investigate the anomalous areas south of Whipsaw Creek that were discovered by the extensive 1987 reconnaissance geochemical survey, which was completed in 1992.

In 1991, the northern half of the Whipsaw property was optioned to Phelps Dodge Corporation of Canada, Limited. Their representatives (Fox Geological) conducted diamond drilling and percussion drilling programs in 1991 and an additional small diamond drilling program in 1992 (Fox, 1992; Fox and Goodall, 1992).

In 1995, Martech Industries Inc.acquired the property and drilled seven diamond drill holes to test the copper mineralization around the periphery of the stock, and in 1997 drilled one additional diamond drill note near the south boundary of the stock.

A diamond drilling program was carried out in 2004 by Canfleur Mining to continue the investigation of the copper-molybdenum porphyry mineralization. Diamond Drill Holes W04-11 and W04-12 were drilled to confirm the presence of and to obtain additional samples more representative of the copper-molybdenum mineralization that was tested by earlier diamond drilling along the northern contact of the Whipsaw porphyry. Some of the earlier drill holes were drilled at a time when only “visually interesting” sections of the core were assayed because of the cost of assaying. As a result, data on Mo and Au were incomplete.

In 2009-2010 a soil geochemistry and mapping programme was conducted on behalf of Charles Martins’ Martech Industries focused on the area north of Whipsaw Creek and south of the Whipsaw Porphyry and which included the BZ Zone. Infill sampling was completed at 25m stations along east – west lines 25m from the previous lines. Sufficient locations of the original grid were found to be confident of the location of the new lines. This is an area of limited outcrop so indirect exploration methods are required. Rock samples were collected where available and warranted to add to the geochemical database. Mapping incorporated outcrop, float and the fragments associated with the soil samples. The general tenor of the current sampling matches the historical results very well with a maximum value of 0.28g/t gold, 9.0g/t silver, copper to 854ppm and 26.8ppm moly. A total of 327 soil samples and 13 rock samples were collected and analysed at Acme Analytical in Vancouver, BC for gold and a 31 element ICP package.

In 2011 Corvid Consulting, Princeton, BC, was retained for the purpose of obtaining accurate GPS coordinates for many of the important features on the property, including adits, claim stakes, high grade rock sample locations, trenches, roads, etc. Data were acquired using a Real Time Kinematic (RTK) GPS. These locations were previously only known by the property owner, and will provide geographical reference points necessary to digitize the many maps available for the property.

MCM Consulting (M. Martin and J. Dixon) subsequently completed a small grid based soil sampling program. A total of 148 soil samples were recovered immediately south of the confluence of Whipsaw and Forty Three Mile creeks. Samples were collected from a variably developed “B Horizon”, with sample depths ranging between 10 to 30 cm. Samples were placed into brown paper Kraft bags. All samples recovered were submitted to Acme Analytical Laboratories in Vancouver, BC for processing using Acme’s SS80 preparation and 36 element Group 1DX2 - 15g (ICP) analysis.

During 2012 exploration consisted of infill soil sampling and minor rock sampling which expanded the 2009-2010 work. Two areas were sampled, on the east and west sides of the mineral lease (tenure# 250138) and the BZ zone area, both to the north of the 2009-2010 sampling. The western area covers the area of the Eagle Granodiorite – Nicola volcanics boundary. As well, two reconnaissance soil lines were emplaced and sampled to the west of the historical grids. The 2013 work was carried out on tenures 508920 and 508923.

The new soil sample lines were emplaced starting 25 metres north of the previous lines, with samples collected at 25 metre intervals. Sufficient locations of the original grid were found to be confident of the location of the new lines. A total of 407 soil samples and 20 rock samples were collected and analyzed at Acme Analytical in Vancouver, BC for gold and a 35 element ICP package. The general tenor of the sampling matches the historical results very well. For the 2012 samples the maximum gold value was 2044.5 ppb, for silver 75.6 ppm, copper to 981 ppm and molybdenum to 21.7 ppm.

Within and adjacent to the areas of the soil sampling, rock samples were collected from prospective looking (altered) subcrop and outcrop. A number of historical workings were encountered and sampled as well.

5 GEOLOGICAL SETTING

5.1 Regional Geology

The Whipsaw Creek Property covers the Whipsaw porphyry, an Upper Cretaceous or Tertiary intrusive into Upper Triassic Nicola rocks, on the eastern contact of the Eagle Batholith (Figure 5.1). The Nicola Group is a varied assemblage of volcanic rocks ranging from porphyritic to non-porphyritic dacite to basalt. Along the eastern margin of the Eagle Batholith the Nicola rocks are strongly foliated, parallel the contact, and show an increase of metamorphic grade towards the contact (Anderson, 1971). The Eagle Batholith is a Jurassic to Cretaceous granodiorite that is foliated, parallel to the elongation of the batholith. The Whipsaw porphyry is a feldspar porphyry similar to others that occur 40 kms NNW between Law's Camp and the Independence Camp along the Eagle-Nicola contact.

Most mineral occurrences in the area are related to intrusive bodies cutting Nicola Group rocks. The Ingerbelle-Copper Mountain deposits are the most significant, but in this case the intrusions are nearly the same age as the volcanics (Upper Triassic). Low grade chalcopyrite and molybdenite mineralization is associated with Upper Cretaceous or Tertiary intrusives along the Nicola-Eagle contact, but to date none of these occurrences has proved to be economic.

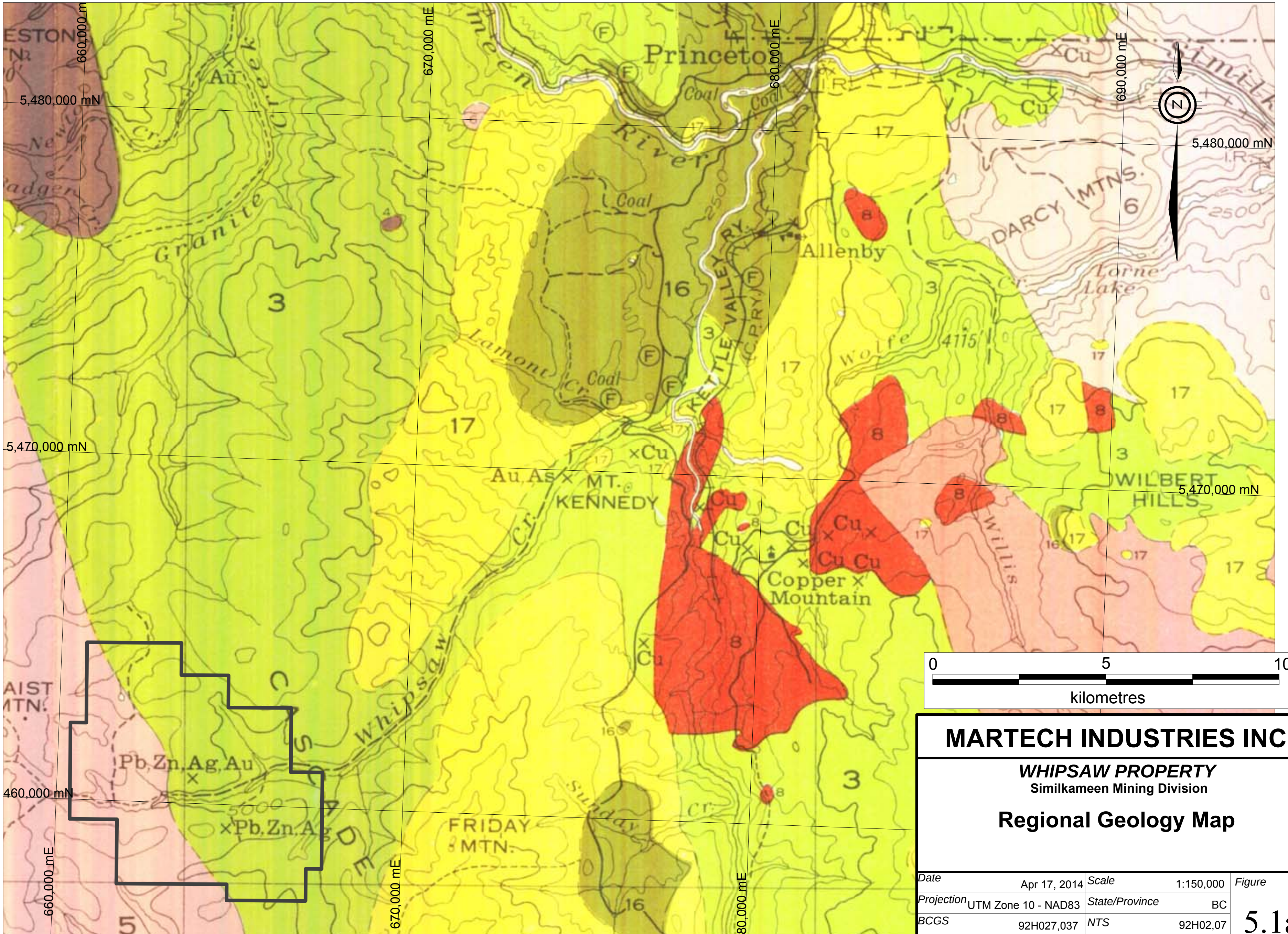
5.2 Property Geology

The bulk of the following information on the property geology is derived from filed work and research studies completed by Paul Richardson during his association with this project.

The Whipsaw properly covers 8 km of the regionally mineralized contact zone between the Upper Triassic Nicola Group and the Eagle Granodiorite (Figure 5.2). In the north-central part of the property, the west-dipping contact zone is intruded by the Whipsaw Porphyry. Dykes of feldspar porphyry extend north and south of the stock near and parallel to the Nicola Group - Eagle Granodiorite contact. The northwest portion of the Whipsaw Porphyry outcrops and has been mapped (Mustard, 1969), however the southeast lobe of the porphyry stock occurs in an area of sparse outcrop and the outline of this part of the stock is based mainly on magnetic and geochemical data.

The Whipsaw Porphyry is the apparent source of a large hydrothermal system with which at least two types of mineral deposits are associated. Porphyry copper-molybdenum-gold mineralization occurs as disseminations and in veinlets within the perimeter of the Whipsaw Porphyry but mostly in Nicola rocks bordering the porphyry. To the south, the porphyry Cu-Mo-Au mineralization decreases and Au-Ag-Cu-Zn mineralization occurs in sulphide-bearing quartz veins and peripheral disseminations. There are localized areas of skarn mineralization in carbonate-bearing horizons just north of Whipsaw Creek near the Nicola - Eagle contact. The skarn zones coincide with the area of the highest soil gold geochemical anomalies on the property but the area has not yet been examined or sampled in detail.

The source of an intense magnetic anomaly in the southeast portion of the property is probably a body of ultrabasic rocks, a number of which occur south of the Tulameen ultramafic intrusive. This is known to contain platinum group elements (PGE). If this interpretation of the magnetic anomaly is correct, the ultramafic body on the Whipsaw property could be the source of the platinum recovered from the placer deposits in Whipsaw Creek, east of the Whipsaw property. A



MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY

Similkameen Mining Division

Regional Geology Map

Date	Apr 17, 2014	Scale	1:150,000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	5.1a
BCGS	92H027,037	NTS	92H02,07	
Author	MJD	File	WhipRegGeo	

MIOCENE OR EARLIER

PRINCETON GROUP

16 | 17

16, *Mainly shale, sandstone, and conglomerate; coal*
17, *Varicoloured andesite and basalt*

CRETACEOUS OR TERTIARY

UPPER CRETACEOUS OR LATER

14,15

14, *OTTER INTRUSIONS: pink and grey granite and granodiorite*
15, *LIGHTNING CREEK INTRUSIONS: grey quartz diorite*

CRETACEOUS

LOWER CRETACEOUS

KINGSVALE GROUP

12a-b,13

12a, *mainly volcanic breccia;* 12b, *mainly andesite and basalt porphyry*
13, *Andesite and basalt porphyry and volcanic breccia*

PASAYTEN GROUP

11

Mainly grit and shale;
11a, *mainly purple lava, tuff, and breccia*

SPENCE BRIDGE GROUP

10

Hard, reddisn andesite and basalt

JURASSIC (?) AND CRETACEOUS

UPPER JURASSIC (?) AND LOWER CRETACEOUS

DEWDNEY CREEK GROUP

9

Tuff, volcanic breccia, grit, argillite; 9a, *mainly conglomerate*

JURASSIC OR LATER

8

COPPER MOUNTAIN INTRUSIONS: syenogabbro, augite diorite, pegmatite

5,6,7

COAST INTRUSIONS: 5, *grey, slightly gneissic granodiorite;* 6, *mainly reddish, coarse-grained, siliceous granite and granodiorite;* 7, *light coloured granodiorite, quartz diorite, and gabbro*

4

Peridotite, pyroxenite, gabbro

TRIASSIC

UPPER TRIASSIC

NICOLA GROUP

3

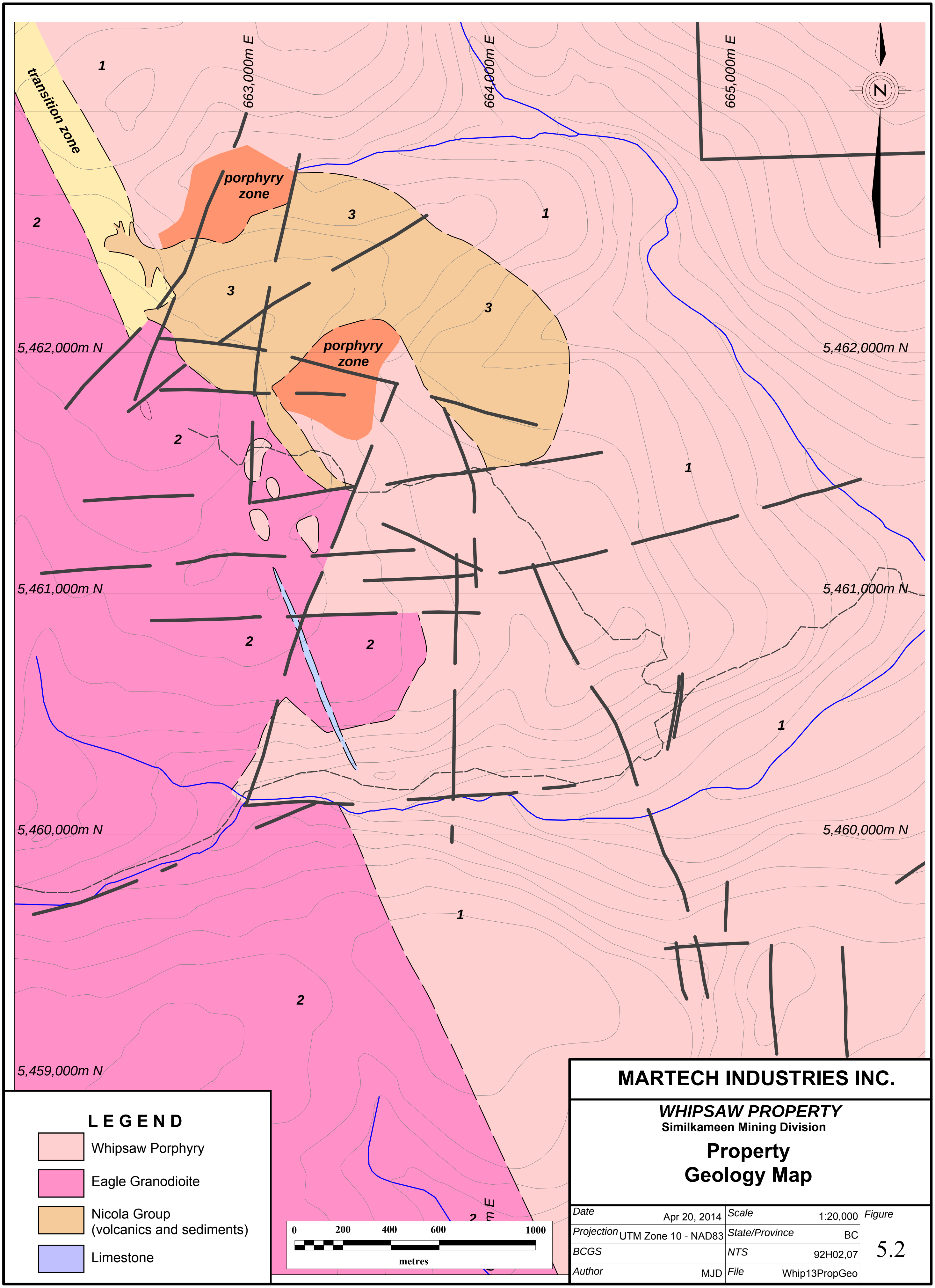
Varicoloured lava; argillite, tuff, limestone; chlorite and sericite schist

MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY
Similkameen Mining Division

Regional Geology Legend

Date Apr 17, 2014	*Scale* na	*Figure*		
Projection UTM Zone 10 - NAD83	*State/Province* BC	5.1b		
BCGS -	*NTS* 92H02,07			
Author MJD	*File* WhipRegGeo			


663,000m E
664,000m E
665,000m E
N
transition zone
porphyry zone
porphyry zone
1
2
3
5,462,000m N
5,461,000m N
5,460,000m N
5,459,000m N
LEGEND
Whipsaw Porphyry
Eagle Granodioite
Nicola Group (volcanics and sediments)
Limestone
0 200 400 600 1000
metres
MARTECH INDUSTRIES INC.
WHIPSAW PROPERTY
Similkameen Mining Division
Property Geology Map
Date Apr 20, 2014
Scale 1:20,000
Figure 5.2
Projection UTM Zone 10 - NAD83
State/Province BC
BCGS
NTS 92H02,07
Author MJD
File Whip13PropGeo

second possible source of the PGE-bearing placer deposits in the creek is the mineralization associated with the Whipsaw Porphyry. At nearby Copper Mountain, PGE's have been reported to be associated with the copper-gold mineralization around the perimeter of the Copper Mountain Stock. A third possible source of the placer platinum in Whipsaw Creek is the Tertiary sediments in which platinum and gold were probably "parked" during and after the intense Early Tertiary erosion of the Tulameen ultrabasic rocks.

<u>Nicola Group</u>
The Nicola Group is composed of dark green to light grey, banded, schistose rocks that were originally andesitic volcanics. They are composed of 50% plagioclase and 50% amphibole which is often altered to chlorite. The rocks are strongly foliated with foliation striking at an azimuth of 150°-160° and dipping moderately to steeply to the west. Minor magnetite is disseminated throughout the Nicola rocks but appears to be concentrated cowards the contact of the Whipsaw porphyry.

<u>Eagle Batholith</u>
The Eagle Batholith is considered to be part of the Coast Range intrusives. It is a light grey, coarse grained biotite granodiorite, composed of plagioclase, potassium feldspar, quartz, and biotite.

<u>Whipsaw Porphyry</u>
The Whipsaw porphyry is located along the contact of the Nicola Group and the Eagle Batholith. The porphyry is multiphase with the different phases being defined by the amounts of biotite and/or quartz present. These mineralogical phases were originally mapped by Mustard (1968), but have subsequently been combined under the term Whipsaw porphyry. An intrusive breccia believed to be related to the Whipsaw porphyry has also been mapped.

The Whipsaw is a feldspar porphyry composed of euhedral plagioclase phenocrysts (1-3 mm), various percentages up to 10% of hornblende phenocrysts (1-2 mm), and sometimes anhedral quartz (1-2 mm). The matrix varies from 60% to 80%, is fine grained and composed of plagioclase and mafics. Accessory minerals usually present—although not always—are hematite, magnetite, epidote, chalcopyrite, and up to 2% pyrite.

Portions of the margin of the porphyry and an area 300m east of the NE comer of the porphyry are brecciated. Fragments of Nicola rock and Eagle granodiorite occur in a feldspar porphyry matrix. Fragments are from 2mm to 8cm in size. Eagle fragments predominate along the west margin of the porphyry while Nicola fragments predominate to the east. The isolated area of breccia to the east of the porphyry may indicate the continuation of the porphyry.

The porphyry intrudes the Nicola rocks parallel to the foliation on the southern contact, whereas on the northern contact the porphyry cuts the foliation. The northern contact between Whipsaw porphyry and Nicola volcanic is exposed in a trench and in a diamond drill hole (69-W-1). From this information the northern contact of the porphyry is interpreted to dip at approximately 45° north. Geophysical data confirms that the northern contact of the Whipsaw porphyry crosscuts the trend of the foliation.

MINERALIZTION

In the north-central part of the property, the Whipsaw Porphyry, a crescent shaped intrusion 1500 metres by 600 metres in size intrudes Nicola Group volcanics and volcaniclastics. Disseminated and veinlet style porphyry copper-molybdenum mineralization occurs within the contact zone of the Whipsaw Porphyry, primarily within Nicola rocks bordering the intrusion. Exploration to date has been successful in locating two areas of mineralization associated with the intrusion contact, the North Zone and the South Zone. Anomalous soil and silt geochemistry and widespread early drill holes suggest the possibility of a third zone on the west contact of the intrusive.

Mineralization in the Whipsaw porphyry and associated breccia consists of disseminated pyrite and chalcopyrite, occurring mainly near the margins of the intrusive. Chalcopyrite and molybdenite also occur with pyrite and quartz in fractures within the Eagle granodiorite.

6 EXPLORATION

6.1 Soil Geochemical Survey

The 2013 – 2014 soil geochemical survey consisted of 267 samples covering an area of 400m by 800m within the North Porphyry Zone. This is the region of the property containing the Amax trenches, including Trench 5 which contained a 6m (20ft) chip sample of 1.0% copper. Grid lines were established on a northeasterly orientation at a 50m line separation. Samples were collected at 25m intervals along the 17 lines that comprise the grid.

Copper values for the samples ranged from 5ppm to 7262ppm with an average of 443ppm (Figure 6.1-1). A total of 14 samples contained greater than 1523ppm which represents the 95^{th} percentile of the results received for copper. Anomalous copper values clustered in the northern and southwestern portions of the grid. The northern zone contains the majority of the high values. In the northern anomalous zone the high copper values are spatially related to a northerly trending creek which likely represents a structural feature, possibly associated with the Whipsaw Porphyry contact zone. Exposure is quite limited in this area with extensive boggy areas. Previous drilling has shown these swampy areas to be quite shallow. The Amax Trench 5 is located in the northeast corner of the grid area, but contamination from the trenches is not believed to be a significant factor in the geochemistry as the spoil piles adjacent to the trenches are quite restricted in area.

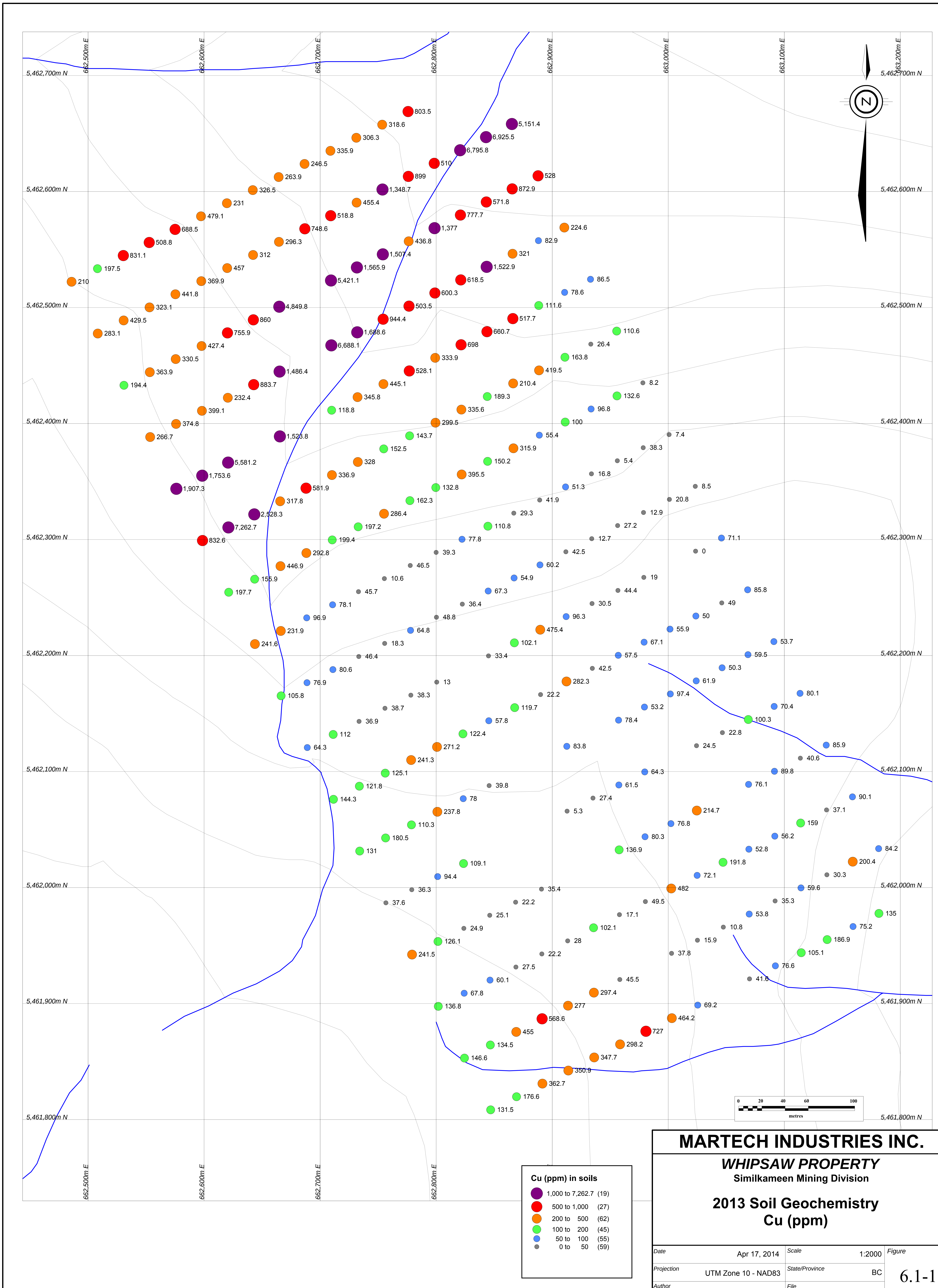
Moly values from the grid sampling ranged from 0.4ppm to 141ppm, with an average of 12ppm (Figure 6.1-2). As with the copper values 14 samples contained greater than 44ppm which represents the 95^{th} percentile value for moly. Only 2 of the 14 samples were anomalous in both elements. The distribution of anomalous moly values however is the same as the copper, indicating that one mineralizing event was responsible for both elements. This is consistent with the historical records of a copper-moly porphyry system related to the Whipsaw Porphyry.

Precious metal (gold and silver) values show little correlation with the copper and moly mineralization. Gold values range from 0 to 529ppb, with silver between 0 and 2.5ppm. The distribution of gold and silver is also quite erratic and does not show the clustering which is very evident in the base metal values.

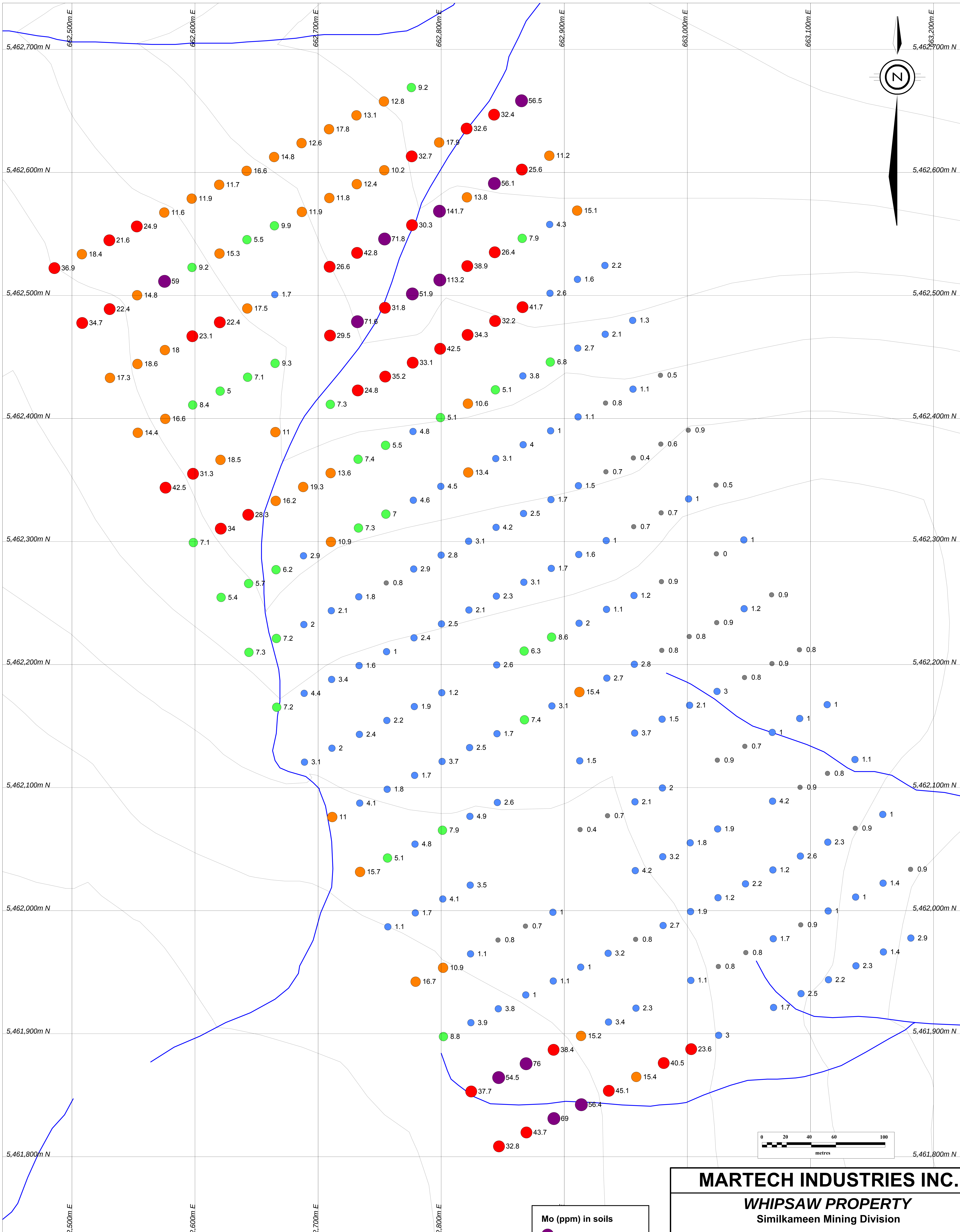
6.2 Data Compilation

The process of digitizing the Whipsaw database was started during this year’s work program. The drill data for the porphyry area of the property was selected as this covers the area of Amax Trench #5 and the additional grid soil sampling that was carried out during 2013. Elan Data Makers Ltd. were contracted to take the original paper drill logs and assay data and convert that information to a digital database. A total of 47 drill logs, 35 diamond and 12 percussion, were included in this contract along with all associated assay intervals.

This information was then combined with the TRIM maps of the area to produce an accurate plan map of the known drilling and geochemical surveys within the porphyry area. Historical plan maps of the trenching and geology of the area were digitized and compiled with the drill locations to create a compilation map (Figure 6.2-1) of all of the known data for this portion of the Whipsaw property. A long section through the porphyry area was then created (Figure 6.2-2) to aid in evaluating the areas that have been drilled and to develop additional targets for future drill programs.



5,462,700m N
5,462,600m N
5,462,500m N
5,462,400m N
5,462,300m N
5,462,200m N
5,462,100m N
5,462,000m N
5,461,900m N
5,461,800m N
662,500m E
662,600m E
662,700m E
662,800m E
662,900m E
663,000m E
663,100m E
663,200m E
N
0 20 40 60 100
metres
Cu (ppm) in soils
1,000 to 7,262.7 (19)
500 to 1,000 (27)
200 to 500 (62)
100 to 200 (45)
50 to 100 (55)
0 to 50 (59)
MARTECH INDUSTRIES INC.
WHIPSAW PROPERTY
Similkameen Mining Division
2013 Soil Geochemistry
Cu (ppm)
Date Apr 17, 2014
Scale 1:2000
Figure 6.1-1
Projection UTM Zone 10 - NAD83
State/Province BC
Author MJD
File WhipSoils



Mo (ppm) in soils

50 to 1,000,000		(12)
20 to	50	(36)
10 to	20	(41)
5 to	10	(30)
1 to	5	(115)
0 to	1	(33)

MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY

Similkameen Mining Division

2013 Soil Geochemistry
Mo (ppm)

Date	Apr 17, 2014	Scale	1:2000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	6.1-2
Author	MJD	File	WhipSoils	

MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY

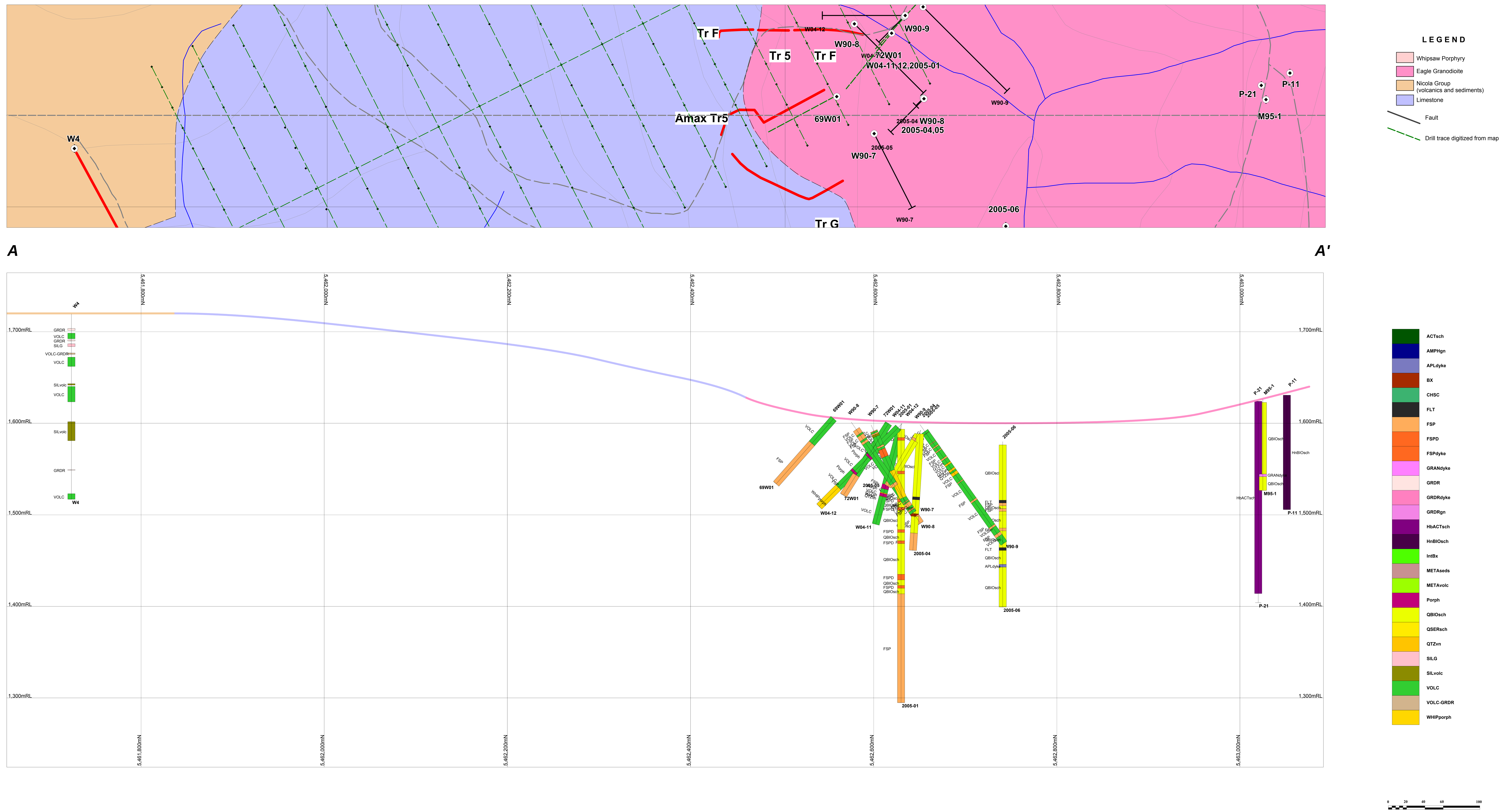
Similkameen Mining Division

Porphyry Area Compilation Map

Date	Apr 18, 2014	Scale	1:2000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	6.2-1
Author	MJD	File	Whip13comp	

LEGEND

- Whipsaw Porphyry
- Eagle Granodiorite
- Nicola Group (volcanics and sediments)
- Limestone
- Fault
- Drill trace digitized from map
- Soil grid
- Drill hole



MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY

Similkameen Mining Division

Porphyry Area Long Section

Date	Apr 20, 2014	*Scale*	1:2000	*Figure* 6.2-2
Projection	UTM Zone 10 - NAD83	*State/Province*	BC	
Author	MJD	*File*	Whip13ddhLong	

7 INTERPRETATIONS AND CONCLUSIONS

The area covered by the infill soil sampling was selected after the acquisition of the Amax report indicating 6.3m (20ft) of 1.0% copper in trench #5. This area was not covered by the earlier property wide reconnaissance soil survey as it was not part of the Whipsaw property at the time.

The zone covered by the survey incorporates a portion of the property that has seen little previous work, with most of the historical drilling occurring to the north or south of this grid. The results of the soil sampling and data compilation indicate that only the northern edge of the northern copper and moly soil anomaly has been tested by historical drilling. This anomaly remains open to the west, north and east. The strongest portion of the anomaly is untested.

The southern anomaly occupies the southwest corner of the grid and remains open to the west and south. Historical drilling in this area has been concentrated to the southeast of the soil anomaly. There are no drill holes within the current anomaly, and the nearest trench (Amax Trench #8) is 100m to the southeast.

8 RECOMMENDATIONS AND BUDGET

As a result of the work completed during the program described herein, a program consisting of expansion of the soil geochemical grid and completion of the data compilation is recommended for the Whipsaw property. An additional 500 soil samples to expand the coverage of the known anomalies would represent Phase 1 of the 2014 field program. Concurrent with that field work, the remainder of the historical geochemical, geological and geophysical data should be captured in digital format to complete the compilation. The program is estimated to cost $55,000.00.

8.1 Cost Estimate

A budget of $55,000 is required to support the recommended first stage work program as outlined in Table 18.1 below:

Table 8.1 – Recommended First Stage Exploration Program Budget

Whipsaw Recommended Budget		
Item	**Description**	**Amount**
Data Compilation		$20,000
Soil Geochemical Survey	Sample Collection	$ 5,000
Assays	500 samples@$20/sample	$10,000
Support	$75/day with 6 people, 30 days	$ 4,000
Draftingl	Digitizing	$10,000
Field Supplies	flagging, pickets, consumables	$ 2,000
Transportation	truck rental & fuel	$ 2,000
Report Preparation		$ 2,000
Sub-Total		$55,000
Contingency	@10%	$ 5,500
	Total Recommended Budget	**$55,500**

Signed ~~and sealed~~ by

Jim Chapman, P.Geo.

Dated February 16, 2014

9 REFERENCES

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10 CERTIFICATE of AUTHOR

Jim Chapman
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Telephone: 778-228-2676
jchapman@pendergroup.ca

I, Jim Chapman, P.Geo. do hereby certify that:

1. I am currently employed as a Consulting Geologist by:
   Martech Industries Inc.
   Suite 1329 – 510 West Hastings Street
   Vancouver, BC, V6B 1L8

2. I graduated with a B.Sc. in Geology from the University of British Columbia in 1976.

3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Licence # 19871.

4. I have worked as an exploration geologist since graduation from university. I supervised the exploration work carried out in 2013 as described in this report.

5. I am the author of the Assessment Report titled Soil Sampling, Mapping and Data Compilation Assessment Report, Similkameen Mining Division, BRITISH COLUMBIA, February 16, 2014.

6. I have no personal interest, direct or indirect, in the Martech Industries Inc. or in the Whipsaw Creek property, nor do I expect to receive such interest.

Jim Chapman, P.Geo.

Dated February 16, 2014

11 SCHEDULE OF DISBURSEMENTS

Date	Description	Supplies	Personnel	Support	Total Cost
09/03/2013	Gas				$ 70.69
09/04/2013	Gas				$ 55.75
	Meals				$ 59.41
	Vehicle Rental				$ 60.00
09/05/2013	Meals				$ 30.40
	Accomodation				$ 135.60
	Meals				$ 37.28
	Gas				$ 46.03
	Vehicle Rental				$ 60.00
09/12/2013	Soil Survey, 9/12/13 - 9/20/13	$ 1,101.22	$ 4,250.00	$ 1,970.09	$ 7,321.31
	M. Martin, I. Grant,				
	Assays - Acme Labs				$ 5,190.60
	Core Storage				$ 1,036.00
10/18/2013	Gas				$ 55.00
	Meals				$ 8.17
	Gas				$ 31.75
	Meals				$ 40.19
	Vehicle Rental				$ 60.00
10/21/2013	Tolls				$ 21.20
10/25/2013	Copies				$ 76.16
10/31/2013	Copies				$ 23.84
12/30/2013	Drafting - Moonraker Multimedia				$ 1,614.38
12/31/2013	Consulting J. Chapman, P.Geo				$ 4,400.00
1/20/2014	Elan Data Makers				$ 3,971.73
1/31/2014	Elan Data Makers				$ 55.97
02/10/2014	Drafting - Moonraker Multimedia				$ 1,125.00
Total					**$ 25,586.46**

Appendix 1

GEOCHEMICAL CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. Final Report

Client: Martech Industries Inc.

File Created: 8-Oct-13

Job Number: VAN13003803

Number of Samples: 98

Project: MARTECH 2013

Shipment ID:

P.O. Number:

Received: 20-Sep-13

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Sample	Type																		
L32N 0+00S	Soil	14.8	263.9	3.6	51	0.3	35.3	14.4	186	3.93	5.7	2.9	0.9	18	<0.1	<0.1	0.3	106	0.11
L32N 0+50S	Soil	11.9	748.6	5.7	115	0.5	38.5	18.3	254	4.23	10.2	4.2	0.4	19	0.2	<0.1	0.5	110	0.22
L32N 0+100S	Soil	26.6	5421.1	2.8	54	0.9	9.4	11.7	21	0.88	7.7	2.1	<0.1	40	0.3	<0.1	0.3	48	0.48
L32N 0+150S	Soil	71.6	1688.6	5.7	237	0.6	34.7	14.2	333	6.28	6.7	8.4	0.7	51	0.3	<0.1	0.4	223	0.51
L32N 0+200S	Soil	35.2	445.1	14.5	178	0.4	34.3	38.7	600	7.75	10.1	11.5	1.1	62	0.6	<0.1	1.8	115	0.55
L32N 0+250S	Soil	4.8	143.7	6	94	0.3	15.2	8.6	124	2.6	4	1.1	0.6	17	0.4	<0.1	0.3	70	0.14
L32N 0+300S	Soil	4.5	132.8	5.9	124	0.1	31.9	12.6	212	3.07	4.1	1.8	0.8	21	0.3	<0.1	0.2	84	0.15
L32N 0+350S	Soil	3.1	77.8	5	79	0.1	20.3	9.1	150	2.73	3.9	1	1.3	16	0.2	<0.1	0.3	71	0.08
L32N 0+400S	Soil	2.3	67.3	4	59	0.2	18.8	9.8	145	2.87	3.3	0.9	1.1	22	<0.1	<0.1	0.3	69	0.1
L32N 0+450S	Soil	6.3	102.1	7.4	70	0.4	23.6	12.3	239	3.87	6.7	6.8	1.6	47	<0.1	0.2	0.5	67	0.27
L32N 0+500S	Soil	3.1	22.2	5.1	35	<0.1	7.6	5.1	72	2.08	2.2	0.9	0.8	7	<0.1	<0.1	0.2	51	0.06
L32N 0+550S	Soil	1.5	83.8	6.5	55	0.2	7.3	4.6	138	2.32	4.3	529.8	1.3	7	0.1	0.1	0.3	48	0.05
L32N 0+600S	Soil	0.7	27.4	4.8	48	0.3	11.7	16	425	2.8	4.6	3.1	0.6	26	<0.1	<0.1	0.6	57	0.54
L32N 0+650S	Soil	4.2	136.9	5.3	93	0.2	29.7	14.4	224	3.71	8.2	4.3	1.3	16	0.1	0.1	0.5	89	0.13
L32N 0+700S	Soil	2.7	49.5	5.2	134	0.4	14.2	9.2	192	2.72	4.3	1.4	0.8	12	0.1	<0.1	0.4	66	0.12
L32N 0+750S	Soil	1.1	37.8	6.3	37	0.2	7.8	6.1	97	2.38	5.9	1.1	1.8	6	<0.1	<0.1	0.7	42	0.06
L32N 0+800S	Soil	3	69.2	7.6	73	0.3	14.9	8.9	143	3.14	10.3	4	1.6	10	<0.1	0.2	0.7	62	0.08
L00S +200W	Soil	36.9	210	4.5	43	1.4	11.8	4.8	103	4.76	3	3.3	1.4	20	<0.1	0.1	0.4	124	0.06
L00S +175W	Soil	18.4	197.5	3.7	36	1.2	10.5	4.2	94	4.42	2.7	3.6	0.9	18	<0.1	<0.1	0.3	124	0.07

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L00S +150W	Soil	21.6	831.1	3.5	39	0.9	9.7	4.8	113	4.25	2.9	3	0.9	19	<0.1	<0.1	0.3	119	0.07
L00S +125W	Soil	24.9	508.8	4.2	45	0.8	13.3	5.8	141	4.42	3.1	1.3	0.9	30	<0.1	<0.1	0.3	126	0.1
L00S +100W	Soil	11.6	688.5	5.9	59	0.7	19.3	9.1	158	4.14	8	5.3	0.9	15	0.1	<0.1	0.3	111	0.07
L00S +75W	Soil	11.9	479.1	4.7	61	0.5	36.4	18	198	3.84	6.4	6.6	1.1	16	<0.1	<0.1	0.3	106	0.1
L00S +50W	Soil	11.7	231	4.3	56	0.8	32.2	12.2	181	4.04	8	2	0.8	10	<0.1	<0.1	0.4	106	0.1
L00S +25W	Soil	16.6	326.5	3.7	53	0.5	31.1	12.7	183	4.31	6.8	141.8	1	19	<0.1	<0.1	0.3	114	0.12
L0+00S +25E	Soil	12.6	246.5	4	47	0.4	29.2	12.4	159	4.05	5.4	2.1	0.9	15	<0.1	<0.1	0.3	104	0.1
L00S +50E	Soil	17.8	335.9	4.1	58	0.4	31.7	13.4	190	4.23	5.2	2.8	1	14	<0.1	<0.1	0.3	111	0.09
L00S +75E	Soil	13.1	306.3	4.8	59	0.5	35.8	14.4	206	4.25	7.8	3.2	0.9	14	0.1	0.1	0.4	103	0.1
L00S +100E	Soil	12.8	318.6	4.1	68	0.6	41.9	19.2	213	4.38	7.1	1.3	1.1	15	<0.1	<0.1	0.3	117	0.11
L00S +125E	Soil	9.2	803.5	3.8	32	0.9	14.6	7	113	2.35	2.7	1.8	0.1	11	<0.1	<0.1	0.2	60	0.11
L50S +200W	Soil	34.7	283.1	4.6	62	1.2	19.6	8.5	160	5.18	4.3	2.6	1.2	26	0.1	<0.1	0.3	136	0.09
L50S +175W	Soil	22.4	429.5	4.4	61	0.5	28.7	12.4	193	4.46	5.7	3.1	1	51	<0.1	<0.1	0.3	131	0.11
L50S +150W	Soil	14.8	323.1	5.5	59	0.3	27.9	14.4	190	3.8	8.1	1.8	0.8	15	<0.1	<0.1	0.6	106	0.12
L50S +125W	Soil	59	441.8	2.4	73	1.2	15.3	6.8	189	6.81	3.9	12.6	0.7	108	0.1	<0.1	0.5	202	0.3
L50S +100W	Soil	9.2	369.9	5.7	67	0.6	26.4	14.6	174	3.7	9.5	3	0.7	11	0.1	<0.1	0.5	90	0.09
L50S +75W	Soil	15.3	457	5.8	68	0.7	25.7	11.3	154	3.99	8.5	2.6	0.8	14	0.1	<0.1	0.5	106	0.11
L50S +50W	Soil	5.5	312	6.7	97	<0.1	40.8	23.8	795	4.06	11.7	4.4	0.5	15	0.1	0.1	0.5	94	0.17
L50S +25W	Soil	9.9	296.3	5.3	91	0.6	35.2	16.7	203	3.81	10.9	20.1	0.5	13	0.3	<0.1	0.5	96	0.14
L50S +25E	Soil	11.8	518.8	5.5	79	0.6	32.9	15.8	202	3.91	12	1.9	0.8	14	0.1	<0.1	0.5	93	0.15
L50S +50E	Soil	12.4	455.4	4.2	64	1.3	31.1	13	181	3.61	5.8	1.6	0.6	15	0.2	<0.1	0.3	88	0.15
L50S +75E	Soil	10.2	1348.7	4	63	1.6	22	16.7	260	3.34	5	2.7	0.2	11	<0.1	<0.1	0.3	65	0.1
L50S +100E	Soil	32.7	899	3.1	97	0.7	32.3	16	385	5.04	4.2	9.5	0.8	60	0.2	<0.1	0.2	161	0.27
L50S +125E	Soil	17.9	510	4	71	0.5	29.8	14.6	168	3.45	4	1.6	0.7	20	<0.1	<0.1	0.2	109	0.09
L50S +150E	Soil	32.6	6795.8	3.9	181	0.7	24.1	19	230	3.94	5.4	7.1	0.4	23	0.1	<0.1	0.4	147	0.27
L50S +175E	Soil	32.4	6925.5	4.3	145	0.8	24.6	28.8	193	2.73	5.4	9.4	0.3	32	0.2	<0.1	0.4	110	0.33
L50S +200E	Soil	56.5	5151.4	4.2	218	1.7	22.3	44.9	580	6.2	8.2	21.7	0.5	37	0.3	<0.1	0.4	190	0.49
L100S +200W	Soil	17.3	194.4	5	43	1	13.1	6	114	3.86	4.6	2.9	1.1	14	<0.1	<0.1	0.3	108	0.06
L100S +175W	Soil	18.6	363.9	6.1	67	0.6	32.1	15.7	231	4.7	10.4	13.7	0.9	18	<0.1	<0.1	0.4	129	0.12
L100S +150W	Soil	18	330.5	4.9	69	0.9	25.6	14.8	187	4.08	9.5	3	0.7	15	0.2	<0.1	0.4	111	0.11

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L100S +125W	Soil	23.1	427.4	6.5	65	0.8	26.3	13.5	211	4.7	10	4.5	0.9	27	<0.1	<0.1	0.6	118	0.09
L100S +100W	Soil	22.4	755.9	6.4	94	0.9	32.6	14.4	193	4.61	13.7	7.5	0.7	17	0.2	<0.1	0.6	115	0.13
L100S +75W	Soil	17.5	860	5.2	105	1.9	26.6	11.2	152	4.34	10.1	5.7	0.9	11	0.2	<0.1	0.5	106	0.09
L100S +50W	Soil	1.7	4849.8	2.6	9	1.1	3.8	2.7	8	0.21	<0.5	<0.5	<0.1	21	0.3	<0.1	<0.1	3	0.26
L100S +25E	Soil	42.8	1565.9	4.9	97	1	15.8	7.5	151	3.7	3.8	6.8	0.4	25	<0.1	<0.1	0.4	124	0.15
L100S +50E	Soil	71.8	1507.4	4.8	111	2.4	15.9	11.8	278	6.75	12.2	27.3	0.9	54	0.1	<0.1	0.3	195	0.16
L100S +75E	Soil	30.3	436.8	4.6	66	0.8	27.7	12.7	183	4.41	7.1	4.2	1.2	39	<0.1	<0.1	0.2	139	0.09
L100S +100E	Soil	141.7	1377	4.7	186	0.8	36.5	8.4	401	6.59	21.2	16.5	1	56	<0.1	<0.1	0.4	235	0.16
L100S +125E	Soil	13.8	777.7	3.6	76	1.1	59.8	24.4	306	4.44	4.8	2.8	1.3	66	0.1	<0.1	0.1	133	0.13
L100S +150E	Soil	56.1	571.8	2.7	78	0.5	40.6	9.5	236	5.21	3.7	1.9	0.9	116	0.2	<0.1	0.2	204	0.46
L100S +175E	Soil	25.6	872.9	3.8	96	0.6	54.5	23.5	253	4.26	3.6	1.5	1	65	0.2	<0.1	0.3	131	0.31
L100S +200E	Soil	11.2	528	3.2	98	0.2	51.6	21.7	574	3.98	4	0.9	0.9	46	0.4	<0.1	0.2	111	0.47
L150S +200W	Soil	14.4	266.7	5	50	0.6	21.2	11.6	150	3.85	7.2	1.2	0.9	14	<0.1	<0.1	0.3	104	0.09
L150S +175W	Soil	16.6	374.8	6.6	70	0.7	28.1	14.6	207	4.41	9.5	2.5	1.2	20	<0.1	0.1	0.4	110	0.12
L150S +150W	Soil	8.4	399.1	4.2	65	0.8	33.1	16.8	194	3.85	8.3	2.3	0.9	14	0.1	<0.1	0.4	100	0.12
L150S +125W	Soil	5	232.4	5	74	0.7	29.9	13.7	179	3.3	7.4	3.9	0.8	13	0.2	<0.1	0.4	88	0.11
L150S +100W	Soil	7.1	883.7	5.3	82	0.5	27	12.7	196	3.74	8.2	3.8	0.8	13	0.1	<0.1	0.4	98	0.13
L150S +75W	Soil	9.3	1486.4	5.8	120	0.9	29.1	15.9	315	3.88	7.2	3.1	0.5	15	0.1	<0.1	0.4	94	0.18
L150S +25W	Soil	29.5	6688.1	3.4	68	1.8	22.1	41	494	2.57	6.3	4.7	0.2	31	0.2	<0.1	0.3	61	0.34
L150S +25E	Soil	31.8	944.4	4.9	597	0.6	37.7	18.6	337	5.29	7.8	6.1	1	56	0.6	<0.1	0.3	158	0.47
L150S +50E	Soil	51.9	503.5	12	160	1.1	20.3	9.5	151	5.52	7.4	1.8	0.9	34	0.2	<0.1	0.3	163	0.12
L150S +75E	Soil	113.2	600.3	4.7	79	0.9	17.6	4.7	176	6.27	2.9	6.9	1	25	<0.1	<0.1	0.3	222	0.1
L150S +100E	Soil	38.9	618.5	4.9	84	1.2	28.4	11.3	197	4.83	4.6	6.6	1	35	0.2	<0.1	0.3	158	0.13
L150S +125E	Soil	26.4	1522.9	5.5	435	1.1	31.5	19.8	254	4.26	5.4	7.6	0.8	35	0.6	<0.1	0.3	153	0.49
L150S +150E	Soil	7.9	321	3.6	76	0.6	56.2	22	304	4.04	7.3	2.6	0.9	23	0.2	<0.1	0.1	105	0.23
L150S +175E	Soil	4.3	82.9	4.5	56	0.2	15.7	7.1	109	2.26	2.2	<0.5	0.8	8	0.1	<0.1	0.2	58	0.09
L150S +200E	Soil	15.1	224.6	4.1	202	0.2	56.1	20.5	395	3.59	2.5	1.2	1.1	40	0.6	<0.1	0.1	101	0.4
L200S +200W	Soil	42.5	1907.3	4.9	42	2.1	13	6.8	120	3.47	6.8	2.4	1.1	10	<0.1	<0.1	0.3	74	0.11
L200S +175W	Soil	31.3	1753.6	5	37	2	12.7	6.6	120	3.15	3.8	2	0.9	11	<0.1	<0.1	0.2	66	0.11
L200S +150W	Soil	18.5	5581.2	3.6	24	1.8	7	7.7	113	1.31	3.2	1.6	0.1	21	0.1	<0.1	0.1	31	0.24

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L200S +100W	Soil	11	1523.8	5.3	53	0.4	10.8	4.6	87	1.98	2.6	<0.5	0.3	22	0.2	<0.1	0.2	52	0.27
L200S +50W	Soil	7.3	118.8	4.7	49	0.5	9.6	5.2	78	2.3	2.6	<0.5	0.7	8	0.2	<0.1	0.2	64	0.07
L200S +25W	Soil	24.8	345.8	6.7	100	1.1	30.3	13.3	173	4.35	9.8	3.6	1.1	22	0.1	<0.1	0.3	135	0.12
L250S +200W	Soil	7.1	832.6	3.6	56	1.1	15.9	8.2	123	3.02	5.1	2.7	1.2	9	<0.1	<0.1	0.2	75	0.11
L250S +175W	Soil	34	7262.7	5	34	1.9	10.9	57.5	838	1.85	6	3.1	0.6	14	1	<0.1	0.2	33	0.13
L250S +150W	Soil	28.3	2528.3	8.1	158	0.5	37.9	23.2	340	4.28	10.3	4	0.8	43	0.4	<0.1	0.4	85	0.56
L250S +125W	Soil	16.2	317.8	5.1	87	1.5	17.9	11.3	128	3.32	5.1	4.2	0.7	18	0.2	<0.1	0.2	91	0.24
L250S +100W	Soil	19.3	581.9	5.1	104	0.8	32.4	17.5	203	4.08	7.3	3.4	1.3	18	0.2	<0.1	0.3	122	0.16
L250S +75W	Soil	13.6	336.9	5.2	94	0.8	21.9	11.4	141	3.41	5.4	1.9	0.9	13	0.2	<0.1	0.3	99	0.11
L250S +50W	Soil	7.4	328	4.8	101	0.7	31.8	16.3	206	3.74	6.9	2.6	0.7	13	0.2	0.1	0.3	100	0.13
L250S +25W	Soil	5.5	152.5	5.1	67	0.4	18	9.6	157	2.88	4.9	1.3	0.5	10	0.3	0.1	0.3	76	0.09
L250S 0+25E	Soil	5.1	299.5	7	180	0.3	35.1	21.4	214	3.92	9.2	3.6	0.8	17	0.4	<0.1	0.4	88	0.15
L250S +50E	Soil	10.6	335.6	6.6	226	0.4	22.1	18.1	147	3.71	10.9	0.8	0.6	15	0.7	0.1	0.5	81	0.14
L250S +75E	Soil	5.1	189.3	7.2	90	0.4	21.6	18.5	151	3.06	6.9	1.8	0.8	13	0.3	<0.1	0.3	79	0.11
L250S +100E	Soil	3.8	210.4	17.8	338	0.3	55.3	30.5	372	4.59	12.6	6.3	1.1	21	0.6	0.1	0.6	106	0.17
L250S +125E	Soil	6.8	419.5	13.5	90	0.6	28.2	14.4	164	2.96	3.1	3.4	0.9	21	0.2	<0.1	0.3	81	0.1
L250S +150E	Soil	2.7	163.8	4.6	71	0.3	42.6	15.2	239	3.7	4	1.4	0.9	31	0.1	<0.1	0.3	100	0.15
L250S +175E	Soil	2.1	26.4	7.6	72	0.7	7.8	4.4	94	2.54	2.2	0.9	1.2	32	0.3	<0.1	0.2	55	0.07
L250S +200E	Soil	1.3	110.6	3.7	68	0.3	34.5	14.8	202	2.98	2.8	1.6	0.9	25	0.1	<0.1	0.3	79	0.12
Pulp Duplicates																			
L250S 0+25E	Soil	5.1	299.5	7	180	0.3	35.1	21.4	214	3.92	9.2	3.6	0.8	17	0.4	<0.1	0.4	88	0.15
L250S 0+25E	REP	5	295.3	7.7	180	0.2	34.4	21.9	205	3.86	9.9	3.6	0.9	18	0.4	0.1	0.4	90	0.16
L50S +125W	Soil	59	441.8	2.4	73	1.2	15.3	6.8	189	6.81	3.9	12.6	0.7	108	0.1	<0.1	0.5	202	0.3
L50S +125W	REP	61.2	433.8	2.4	75	1.3	15.5	6.5	184	6.69	3.2	12.4	0.7	106	<0.1	<0.1	0.5	194	0.29
L150S +50E	Soil	51.9	503.5	12	160	1.1	20.3	9.5	151	5.52	7.4	1.8	0.9	34	0.2	<0.1	0.3	163	0.12
L150S +50E	REP	49.6	495.8	11.8	151	1.2	18.2	9.1	150	5.33	6.9	3.2	0.9	33	0.3	<0.1	0.3	156	0.12
Reference Materials																			
STD DS9	STD	15	110.2	119.3	310	1.9	40.8	8.2	560	2.29	25.9	117.2	5.8	67	2.4	4.8	5.8	42	0.67
STD OREAS45EA	STD	1.4	682.9	12.1	28	0.3	347.5	49.7	372	23.31	9.8	52.8	8.7	3	<0.1	0.2	0.2	295	0.04
STD DS9	STD	14.1	112.3	116.4	323	1.9	44.5	8	629	2.44	24.9	112	6.2	69	2.8	4.6	6.2	45	0.72

STD OREAS45EA	STD	1.4	687.1	12.2	30	0.3	386.5	51.2	415	25.17	10.7	62.8	8.5	3	<0.1	0.1	0.2	311	0.04
STD DS9	STD	12.1	100.9	109.4	307	2.1	39.5	7.4	576	2.36	26.7	130.8	5.1	64	2.2	3.9	5.9	40	0.72
STD OREAS45EA	STD	1.3	628.8	11.3	26	0.3	336.8	45.9	374	23.43	9.5	66.4	8.2	3	<0.1	0.2	0.2	282	0.03
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Sample																		
L32N 0+00S	0.072	4	86	1.25	105	0.116	<20	2.87	0.01	0.09	0.4	0.03	7	<0.1	<0.05	7	0.6	<0.2
L32N 0+50S	0.06	6	66	1.14	84	0.096	<20	2.91	0.011	0.07	0.3	0.03	6.7	<0.1	<0.05	9	0.7	0.4
L32N 0+100S	0.056	9	13	0.05	48	0.017	<20	0.95	0.013	0.02	0.2	0.1	0.9	<0.1	0.89	2	4.9	0.3
L32N 0+150S	0.044	9	94	2.32	160	0.218	<20	3.35	0.024	0.52	0.3	<0.01	17.7	0.2	0.1	11	1.5	0.4
L32N 0+200S	0.142	14	65	1.53	93	0.084	<20	2.98	0.01	0.13	0.6	0.02	7.1	0.1	<0.05	11	1.5	1.4
L32N 0+250S	0.091	3	37	0.47	62	0.088	<20	2.77	0.012	0.03	0.3	0.04	3.1	<0.1	<0.05	8	<0.5	0.2
L32N 0+300S	0.044	3	66	1.07	75	0.087	<20	2.81	0.008	0.03	0.2	0.02	4.2	<0.1	<0.05	8	<0.5	0.2
L32N 0+350S	0.079	5	44	0.6	51	0.111	<20	3.27	0.009	0.03	0.2	0.05	3.3	<0.1	<0.05	9	<0.5	<0.2
L32N 0+400S	0.081	3	42	0.61	59	0.092	<20	2.78	0.009	0.03	0.2	0.04	2.8	<0.1	<0.05	9	<0.5	<0.2
L32N 0+450S	0.123	6	29	0.63	106	0.125	<20	4.67	0.013	0.04	0.2	0.06	2.8	<0.1	<0.05	11	<0.5	0.3
L32N 0+500S	0.055	4	13	0.19	37	0.096	<20	2.24	0.011	0.02	<0.1	0.02	1.6	<0.1	<0.05	9	<0.5	0.3
L32N 0+550S	0.143	5	13	0.21	43	0.11	<20	3.8	0.012	0.03	0.2	0.06	2.1	<0.1	<0.05	10	<0.5	<0.2
L32N 0+600S	0.093	11	22	0.7	261	0.043	<20	2.67	0.012	0.05	<0.1	0.02	2.3	<0.1	<0.05	12	<0.5	0.5
L32N 0+650S	0.084	6	54	1.08	93	0.089	<20	3.07	0.007	0.06	<0.1	0.04	4.6	<0.1	<0.05	9	0.6	0.4
L32N 0+700S	0.06	4	25	0.41	96	0.09	<20	2.49	0.01	0.04	0.1	0.04	2.4	<0.1	<0.05	8	<0.5	0.5
L32N 0+750S	0.075	5	11	0.13	65	0.099	<20	3.64	0.016	0.03	0.2	0.06	1.9	0.1	<0.05	8	<0.5	0.5
L32N 0+800S	0.078	5	21	0.32	89	0.1	<20	3.5	0.01	0.05	0.2	0.03	2.9	0.2	<0.05	9	<0.5	0.3
L00S +200W	0.081	6	32	0.81	114	0.17	<20	3.75	0.015	0.12	0.6	0.06	9	<0.1	0.09	11	1	0.3
L00S +175W	0.072	4	25	0.58	83	0.165	<20	2.8	0.012	0.08	0.4	0.03	6.1	<0.1	<0.05	10	<0.5	<0.2

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L00S +150W	0.095	7	27	0.56	90	0.152	<20	3.19	0.016	0.11	0.4	0.03	6	<0.1	0.1	9	1.1	<0.2
L00S +125W	0.099	6	33	0.83	129	0.154	<20	3.23	0.015	0.1	0.3	0.05	6.8	<0.1	0.09	10	0.8	<0.2
L00S +100W	0.138	6	49	0.87	92	0.117	<20	3.71	0.008	0.11	0.4	0.06	7.7	<0.1	0.07	9	1.3	0.2
L00S +75W	0.078	5	71	1.21	102	0.131	<20	3.59	0.01	0.09	0.4	0.03	7.9	<0.1	<0.05	8	<0.5	0.2
L00S +50W	0.099	3	86	0.92	72	0.121	<20	2.63	0.009	0.07	0.3	0.03	5.3	<0.1	<0.05	9	0.9	<0.2
L00S +25W	0.074	5	77	1.09	119	0.132	<20	3.29	0.011	0.08	0.4	0.03	7.5	<0.1	<0.05	8	0.5	<0.2
L0+00S +25E	0.072	4	66	0.92	82	0.122	<20	2.8	0.009	0.06	0.3	0.03	6.5	<0.1	<0.05	8	0.7	<0.2
L00S +50E	0.081	4	70	1.13	93	0.116	<20	2.99	0.007	0.07	0.6	0.04	7.2	<0.1	<0.05	8	0.9	<0.2
L00S +75E	0.076	4	81	1.15	88	0.108	<20	2.98	0.008	0.06	0.4	0.07	6.9	<0.1	<0.05	8	0.6	<0.2
L00S +100E	0.072	4	87	1.28	97	0.132	<20	3.43	0.009	0.07	0.2	0.03	7.8	<0.1	<0.05	9	<0.5	<0.2
L00S +125E	0.036	4	38	0.44	19	0.072	<20	1.65	0.011	0.03	0.1	0.03	2.4	0.1	<0.05	7	0.8	<0.2
L50S +200W	0.082	6	45	1.03	133	0.176	<20	3.79	0.01	0.12	0.3	0.02	9.3	<0.1	0.07	11	0.6	<0.2
L50S +175W	0.057	5	74	1.36	160	0.133	<20	3.4	0.011	0.17	0.3	0.02	9.4	<0.1	0.09	9	0.8	0.3
L50S +150W	0.075	4	57	1.11	101	0.105	<20	2.92	0.009	0.07	0.2	0.02	6.5	<0.1	<0.05	8	<0.5	0.5
L50S +125W	0.078	6	37	1.61	146	0.223	<20	3.01	0.039	0.66	0.4	<0.01	15.1	0.2	0.69	11	1.1	0.4
L50S +100W	0.059	4	53	0.82	69	0.098	<20	2.43	0.007	0.05	0.3	0.04	5.4	<0.1	<0.05	8	<0.5	0.5
L50S +75W	0.067	4	54	0.9	90	0.115	<20	2.93	0.009	0.06	0.3	0.05	6.4	<0.1	<0.05	9	<0.5	0.3
L50S +50W	0.038	4	90	1.54	81	0.056	<20	2.1	0.005	0.12	<0.1	<0.01	6.7	<0.1	<0.05	5	0.5	0.5
L50S +25W	0.052	4	63	1.04	74	0.082	<20	2.83	0.009	0.07	0.5	0.03	5.8	<0.1	<0.05	8	<0.5	0.5
L50S +25E	0.053	3	60	1	96	0.092	<20	2.89	0.009	0.06	0.3	0.05	6.1	<0.1	<0.05	8	<0.5	0.3
L50S +50E	0.05	4	64	1.08	74	0.095	<20	2.63	0.01	0.05	0.2	0.04	5.7	<0.1	<0.05	8	0.6	<0.2
L50S +75E	0.075	6	39	0.59	46	0.07	<20	2.26	0.01	0.04	0.2	0.05	3.5	<0.1	<0.05	7	0.8	0.2
L50S +100E	0.058	6	75	1.72	251	0.142	<20	2.8	0.022	0.66	0.6	0.01	14.5	0.2	0.41	8	0.6	0.3
L50S +125E	0.054	3	68	1.09	88	0.109	<20	2.3	0.009	0.1	0.2	0.05	5.9	<0.1	<0.05	8	<0.5	<0.2
L50S +150E	0.074	16	54	1.55	146	0.147	<20	3.12	0.02	0.26	0.2	0.03	13.4	0.2	<0.05	8	0.7	0.2
L50S +175E	0.094	19	52	1.21	129	0.097	<20	3.36	0.021	0.16	0.9	0.04	8.8	0.2	0.37	6	1.6	0.4
L50S +200E	0.068	7	50	1.49	146	0.165	<20	2.65	0.034	0.45	0.3	0.04	15.9	0.2	0.07	9	1.9	0.3
L100S +200W	0.065	4	33	0.71	88	0.155	<20	3.07	0.012	0.07	0.3	0.05	7.6	<0.1	<0.05	10	0.5	<0.2
L100S +175W	0.058	4	75	1.4	156	0.117	<20	3.16	0.008	0.13	0.3	0.03	9.6	<0.1	<0.05	8	0.6	0.4
L100S +150W	0.073	4	58	0.96	126	0.11	<20	2.94	0.01	0.09	0.3	0.05	7.3	<0.1	<0.05	8	<0.5	0.3

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L100S +125W	0.082	5	61	1.09	148	0.122	<20	3.09	0.012	0.16	0.4	0.04	8.6	<0.1	0.05	8	0.6	0.4
L100S +100W	0.062	5	63	1.16	137	0.098	<20	2.95	0.009	0.09	0.3	0.02	8	<0.1	<0.05	8	0.9	0.6
L100S +75W	0.066	7	55	0.92	55	0.102	<20	4.1	0.01	0.06	0.4	0.05	6.9	<0.1	<0.05	8	1.3	0.5
L100S +50W	0.066	28	3	0.02	31	0.005	<20	1.9	0.009	<0.01	<0.1	0.06	0.7	<0.1	0.15	<1	3.8	<0.2
L100S +25E	0.102	6	50	1.14	151	0.128	<20	2.77	0.016	0.12	0.3	0.1	8.1	<0.1	<0.05	9	2	0.4
L100S +50E	0.04	4	72	1.57	266	0.188	<20	3.32	0.035	0.79	0.4	0.02	20.4	0.2	0.47	10	2.4	0.2
L100S +75E	0.066	7	67	1.2	181	0.141	<20	3.39	0.014	0.16	0.4	0.04	9.3	<0.1	0.14	9	<0.5	<0.2
L100S +100E	0.067	6	135	2.3	266	0.229	<20	4.08	0.023	1.03	0.3	0.02	23.3	0.4	0.32	12	2.4	0.3
L100S +125E	0.048	7	125	1.95	194	0.14	<20	4.15	0.02	0.16	<0.1	0.03	9.4	<0.1	0.18	9	0.5	<0.2
L100S +150E	0.052	5	153	2.3	256	0.218	<20	3.64	0.018	0.74	0.2	0.01	18.3	0.3	0.29	10	1.2	0.3
L100S +175E	0.085	6	102	1.64	173	0.121	<20	3.66	0.014	0.14	0.2	0.02	9.2	<0.1	0.1	8	0.9	<0.2
L100S +200E	0.058	6	108	1.74	114	0.101	<20	2.76	0.012	0.12	<0.1	0.02	7.7	<0.1	<0.05	7	0.5	<0.2
L150S +200W	0.059	4	51	0.83	76	0.127	<20	2.94	0.011	0.06	0.3	0.04	6.2	<0.1	<0.05	9	0.7	0.2
L150S +175W	0.088	6	57	1.07	118	0.119	<20	3.6	0.009	0.07	0.3	0.04	7.7	<0.1	<0.05	8	<0.5	0.3
L150S +150W	0.085	5	64	1.1	87	0.09	<20	3.05	0.009	0.06	0.4	0.03	6.7	<0.1	<0.05	7	<0.5	<0.2
L150S +125W	0.059	4	56	0.94	69	0.085	<20	2.42	0.009	0.05	0.2	0.04	5.1	<0.1	<0.05	7	<0.5	0.3
L150S +100W	0.073	4	58	0.98	40	0.088	<20	2.55	0.011	0.06	0.2	0.03	5.8	<0.1	<0.05	7	<0.5	0.3
L150S +75W	0.073	5	55	0.89	45	0.095	<20	2.29	0.011	0.06	0.2	0.02	4.8	<0.1	<0.05	9	0.6	0.3
L150S +25W	0.129	32	41	0.75	78	0.054	<20	4.21	0.015	0.09	0.1	0.05	4.9	<0.1	0.05	5	1.2	<0.2
L150S +25E	0.034	10	73	1.71	157	0.149	<20	3.13	0.032	0.22	0.3	0.03	13.7	<0.1	0.1	9	1.4	0.3
L150S +50E	0.053	4	69	1.16	177	0.168	<20	3.08	0.017	0.22	0.3	0.03	11.9	<0.1	0.16	11	0.8	<0.2
L150S +75E	0.053	4	132	1.95	208	0.253	<20	3.63	0.021	0.59	0.4	0.02	18.4	0.2	0.26	11	1.2	<0.2
L150S +100E	0.058	5	79	1.48	200	0.174	<20	3.63	0.016	0.36	0.3	0.04	13.4	0.1	0.2	10	0.9	<0.2
L150S +125E	0.06	6	67	1.53	111	0.169	<20	3.16	0.02	0.15	0.2	0.01	11.5	<0.1	<0.05	9	<0.5	<0.2
L150S +150E	0.057	5	113	1.72	101	0.098	<20	3.12	0.009	0.06	<0.1	0.03	5.9	<0.1	<0.05	7	0.7	<0.2
L150S +175E	0.09	3	36	0.46	46	0.091	<20	2.26	0.015	0.03	0.2	0.06	2.5	<0.1	<0.05	7	<0.5	<0.2
L150S +200E	0.032	6	106	1.96	117	0.108	<20	3.42	0.01	0.05	<0.1	0.02	4.9	<0.1	<0.05	7	0.5	<0.2
L200S +200W	0.261	12	33	0.59	38	0.089	<20	4.31	0.01	0.05	0.3	0.04	7.4	<0.1	<0.05	8	1.1	<0.2
L200S +175W	0.109	9	30	0.54	39	0.099	<20	2.55	0.013	0.04	0.2	0.02	4.8	0.1	<0.05	8	0.5	<0.2
L200S +150W	0.086	27	15	0.22	29	0.052	<20	2.62	0.017	0.02	0.2	0.04	1.9	<0.1	<0.05	5	1.8	<0.2

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L200S +100W	0.025	5	21	0.31	38	0.111	<20	1.18	0.018	0.02	0.1	0.01	2	<0.1	<0.05	7	0.8	<0.2
L200S +50W	0.038	3	25	0.3	40	0.101	<20	2.3	0.014	0.03	0.2	0.04	2.6	<0.1	<0.05	8	0.6	<0.2
L200S +25W	0.058	5	81	1.3	113	0.152	<20	3.74	0.014	0.09	0.4	0.04	9.4	<0.1	<0.05	10	1	<0.2
L250S +200W	0.085	5	31	0.71	56	0.068	<20	2.6	0.01	0.05	0.1	0.04	4.5	<0.1	<0.05	9	<0.5	<0.2
L250S +175W	0.145	70	13	0.23	43	0.085	<20	5.1	0.016	0.04	0.1	0.03	3.8	0.1	0.06	6	1.5	<0.2
L250S +150W	0.039	11	52	0.71	118	0.138	<20	3.02	0.019	0.07	0.2	0.03	5	<0.1	<0.05	10	2.2	<0.2
L250S +125W	0.044	8	43	0.7	51	0.113	<20	2.68	0.015	0.05	0.1	0.06	5.2	<0.1	<0.05	9	0.9	<0.2
L250S +100W	0.042	7	69	1.34	129	0.13	<20	3.55	0.012	0.08	0.2	0.03	8.4	<0.1	<0.05	8	0.8	<0.2
L250S +75W	0.057	4	53	0.86	72	0.112	<20	2.68	0.012	0.06	0.3	0.04	5.8	<0.1	<0.05	8	0.7	<0.2
L250S +50W	0.095	4	67	1.07	67	0.088	<20	2.9	0.01	0.04	0.2	0.05	5.7	<0.1	<0.05	8	<0.5	0.2
L250S +25W	0.065	3	43	0.6	56	0.08	<20	2.35	0.01	0.03	0.2	0.05	3.4	<0.1	<0.05	8	0.5	<0.2
L250S 0+25E	0.069	4	70	1.06	82	0.076	<20	3.43	0.008	0.05	0.3	0.03	5.3	<0.1	<0.05	8	0.9	0.2
L250S +50E	0.046	4	45	0.69	87	0.05	<20	2.21	0.007	0.04	0.2	0.02	4.1	<0.1	<0.05	8	0.6	<0.2
L250S +75E	0.049	4	49	0.76	63	0.085	<20	2.56	0.013	0.03	0.2	0.04	3.8	<0.1	<0.05	8	0.5	0.3
L250S +100E	0.04	6	112	1.76	106	0.09	<20	3.78	0.008	0.05	0.2	0.04	6.2	<0.1	<0.05	8	0.7	0.4
L250S +125E	0.071	3	62	0.91	76	0.09	<20	2.95	0.011	0.03	0.2	0.03	4	<0.1	<0.05	8	<0.5	<0.2
L250S +150E	0.081	4	104	1.47	90	0.093	<20	2.88	0.008	0.05	0.2	0.02	5.2	<0.1	<0.05	9	<0.5	<0.2
L250S +175E	0.191	3	19	0.19	61	0.109	<20	3.6	0.015	0.04	0.3	0.06	1.7	<0.1	<0.05	11	0.6	<0.2
L250S +200E	0.066	4	79	1.17	70	0.08	<20	2.59	0.01	0.05	0.1	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
Pulp Duplicates																		
L250S 0+25E	0.069	4	70	1.06	82	0.076	<20	3.43	0.008	0.05	0.3	0.03	5.3	<0.1	<0.05	8	0.9	0.2
L250S 0+25E	0.074	5	68	1.12	89	0.074	<20	3.61	0.009	0.05	0.3	0.03	5.4	<0.1	<0.05	8	0.6	<0.2
L50S +125W	0.078	6	37	1.61	146	0.223	<20	3.01	0.039	0.66	0.4	<0.01	15.1	0.2	0.69	11	1.1	0.4
L50S +125W	0.073	4	35	1.61	141	0.221	<20	3.12	0.038	0.65	0.4	<0.01	15.1	0.2	0.66	10	1.4	0.3
L150S +50E	0.053	4	69	1.16	177	0.168	<20	3.08	0.017	0.22	0.3	0.03	11.9	<0.1	0.16	11	0.8	<0.2
L150S +50E	0.054	4	67	1.12	182	0.166	<20	3.07	0.017	0.22	0.3	0.02	12	<0.1	0.16	10	0.5	<0.2
Reference Materials																		
STD DS9	0.078	12	122	0.61	324	0.102	<20	0.93	0.081	0.37	2.6	0.23	2.2	5.6	0.13	4	6	5.5
STD OREAS45EA	0.026	6	934	0.09	137	0.08	<20	3.09	0.018	0.05	<0.1	<0.01	73	<0.1	<0.05	11	1	<0.2
STD DS9	0.091	14	128	0.66	341	0.116	<20	1.02	0.089	0.42	2.6	0.23	2.4	5.6	0.16	5	5.5	5.7

STD OREAS45EA	0.027	6	964	0.09	138	0.092	<20	3.27	0.016	0.05	<0.1	0.01	79.6	<0.1	<0.05	12	1.8	<0.2
STD DS9	0.081	12	116	0.61	329	0.105	<20	0.95	0.083	0.41	2.6	0.21	2.3	5.4	0.17	4	4.9	5.2
STD OREAS45EA	0.026	6	862	0.08	132	0.08	<20	2.8	0.016	0.05	<0.1	0.02	71.3	<0.1	<0.05	11	0.9	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

ACME ANALYTICAL LABORATORIES LTD. Final Report
Client: Martech Industries Inc.
File Created: 8-Oct-13
Job Number: VAN13003890
Number of Samples: 169
Project: Whipsaw
Shipment ID:
P.O. Number:
Received: 25-Sep-13

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Sample	Type																		
L8S 0+100W	Soil	45.1	347.7	5.8	66	1.3	8.5	4.6	134	4.73	7.1	3	1	15	<0.1	0.3	0.5	171	0.08
L8S 0+75W	Soil	15.4	298.2	6.3	44	0.8	8.6	5.2	121	2.83	5.8	3.9	0.9	10	<0.1	0.2	0.5	85	0.07
L8S 0+50W	Soil	40.5	727	5.5	77	0.9	28.1	12.8	221	3.9	8.7	3	0.8	14	0.1	0.1	0.3	141	0.15
L200S +25E	Soil	33.1	528.1	8.7	154	0.7	36	17	216	5.99	14.7	2.6	1.4	20	0.3	0.1	0.6	137	0.16
L200S +50E	Soil	42.5	333.9	11.8	73	1.6	21.5	8.6	199	4.81	6.9	1.7	0.9	37	0.2	<0.1	0.4	131	0.12
L200S +75E	Soil	34.3	698	5.9	462	1.4	32.9	14	369	6.21	6.8	5.9	1.6	48	0.4	<0.1	0.3	244	0.44
L200S +100E	Soil	32.2	660.7	6	126	1.4	21.7	14.2	181	4.02	6.3	5.2	1.3	19	0.4	<0.1	0.3	132	0.19
L200S +125E	Soil	41.7	517.7	7	138	0.9	29.4	14.1	246	3.83	5.4	1.5	0.8	20	0.3	<0.1	0.6	81	0.17
L200S +150E	Soil	2.6	111.6	6.7	158	0.2	33.1	12.5	199	2.93	3.5	<0.5	1	18	0.4	<0.1	0.4	72	0.14
L200S +175E	Soil	1.6	78.6	5.1	141	0.2	35.8	15.5	197	3.05	2.8	<0.5	1	13	0.4	<0.1	0.2	76	0.11
L200S +200E	Soil	2.2	86.5	6.4	90	0.5	17.2	8.3	147	3.26	3.1	<0.5	1	21	0.6	<0.1	0.2	64	0.11
L300S +200W	Soil	5.4	197.7	6.2	45	0.5	16.4	7.5	116	2.71	4.1	<0.5	1	14	<0.1	<0.1	0.3	79	0.1
L300S +175W	Soil	5.7	155.9	6.2	50	0.6	18.6	8.8	133	2.78	3.8	<0.5	1.1	14	0.1	<0.1	0.2	74	0.08
L300S +150W	Soil	6.2	446.9	6.5	296	0.4	24.6	13.7	272	2.68	4.4	<0.5	0.9	20	0.2	<0.1	0.3	63	0.24
L300S +125W	Soil	2.9	292.8	6.5	151	0.4	28.3	16.8	324	2.83	3.3	<0.5	0.7	29	0.2	<0.1	0.3	74	0.32
L300S +100W	Soil	10.9	199.4	7.1	119	0.4	14.6	8.3	124	3.16	4.1	0.6	0.9	12	0.3	<0.1	0.4	73	0.08
L300S +75W	Soil	7.3	197.2	6.2	126	0.2	18.4	9	149	2.8	4.9	0.8	1	16	0.2	<0.1	0.3	77	0.1
L300S +50W	Soil	7	286.4	7	194	0.5	26.2	13.5	369	2.88	3.9	<0.5	0.8	32	0.6	<0.1	0.3	81	0.39
L300S +25W	Soil	4.6	162.3	6.8	82	0.4	19.7	9.2	141	2.59	4.3	1.1	0.9	19	0.3	<0.1	0.3	69	0.13

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L300S +25E	Soil	13.4	395.5	8.7	480	0.1	35.5	17.5	224	3.58	7.9	0.8	1.2	37	0.4	<0.1	0.4	81	0.24
L300S +50E	Soil	3.1	150.2	6	137	0.3	30.5	15.1	251	3.89	13.7	2.7	0.9	16	0.3	0.1	0.3	84	0.12
L300S +75E	Soil	4	315.9	4.9	150	0.3	42.6	17.4	255	3.46	5.4	<0.5	1	26	0.4	<0.1	0.4	87	0.15
L300S +100E	Soil	1	55.4	5.9	66	0.2	13.6	9.4	176	2.02	3.2	<0.5	0.4	76	0.1	<0.1	0.3	53	0.42
L300S +125E	Soil	1.1	100	4	158	0.2	33.5	13.7	223	3.04	2.8	1.6	0.9	75	0.2	<0.1	0.3	78	0.19
L300S +150E	Soil	0.8	96.8	4.1	56	<0.1	31.8	13.9	261	2.79	2.2	<0.5	0.9	72	0.1	<0.1	0.3	74	0.24
L300S +175E	Soil	1.1	132.6	5	51	<0.1	29.1	13.3	208	3.05	3.2	1.1	1.3	70	<0.1	<0.1	0.4	72	0.16
L300S +200E	Soil	0.5	8.2	4	15	0.2	2.3	1.8	64	1.28	0.9	<0.5	0.4	13	<0.1	<0.1	0.1	35	0.06
L350S +200W	Soil	7.3	241.6	5.5	47	0.7	16.1	7.1	125	2.56	7.3	<0.5	0.9	16	<0.1	<0.1	0.2	69	0.1
L350S +175W	Soil	7.2	231.9	5.2	44	0.5	12	6.7	109	2.59	8.9	<0.5	0.6	14	<0.1	<0.1	0.3	56	0.09
L350S +150W	Soil	2	96.9	10.2	45	0.2	12.3	5.8	138	2.14	3.5	<0.5	0.4	16	0.2	<0.1	0.3	56	0.11
L350S +125W	Soil	2.1	78.1	7.9	60	0.4	12.3	6.8	98	2.62	4.2	<0.5	0.8	15	0.2	<0.1	0.4	56	0.11
L350S +100W	Soil	1.8	45.7	7.8	46	0.1	12.4	6.8	127	2.71	6.7	1.3	1	11	<0.1	<0.1	0.3	59	0.08
L350S +75W	Soil	0.8	10.6	5.1	14	0.2	2.2	1.2	37	0.96	1.4	<0.5	0.4	5	<0.1	<0.1	0.1	31	0.04
L350S +50W	Soil	2.9	46.5	5.5	46	0.2	12.1	6.7	117	2.64	2.6	<0.5	1.1	19	0.1	<0.1	0.2	57	0.08
L350S +25W	Soil	2.8	39.3	5.7	39	0.2	10.9	5.4	102	2.12	2.9	<0.5	0.7	14	<0.1	<0.1	0.3	54	0.06
L350S +25E	Soil	4.2	110.8	6.9	189	0.2	10	7.7	264	2.02	1.9	<0.5	1	26	0.3	<0.1	0.2	40	0.27
L350S +50E	Soil	2.5	29.3	5.9	49	0.1	9.3	4.6	89	2.35	2.6	0.7	0.9	14	0.2	<0.1	0.3	60	0.07
L350S +75E	Soil	1.7	41.9	4.7	124	0.3	7.8	5.1	159	2.08	3.1	13	0.7	13	0.4	<0.1	0.3	47	0.06
L350S +100E	Soil	1.5	51.3	5.1	62	0.1	10.2	5.2	95	2.16	3.7	3	1.4	12	0.3	<0.1	0.3	48	0.05
L350S +125E	Soil	0.7	16.8	5.6	29	<0.1	8.1	4.4	69	2.03	1.7	<0.5	0.9	25	<0.1	<0.1	0.3	51	0.07
L350S +150E	Soil	0.4	5.4	6.1	17	<0.1	1.9	2.5	137	1.4	1.6	1.2	0.9	9	<0.1	<0.1	0.1	40	0.04
L350S +175E	Soil	0.6	38.3	5.4	37	<0.1	19.7	10.2	157	2.44	2.5	0.9	0.8	15	<0.1	0.1	0.5	65	0.09
L350S +200E	Soil	0.9	7.4	7	19	0.1	3.7	3	51	1.73	1	1.6	0.8	9	<0.1	<0.1	0.4	37	0.09
L400S +200W	Soil	7.2	105.8	5.9	34	0.2	11.8	5.8	118	2.29	3.7	1.1	0.7	15	<0.1	<0.1	0.2	62	0.08
L400S +175W	Soil	4.4	76.9	5.7	43	0.3	13.2	7.1	246	2.3	3.4	1.3	0.6	20	<0.1	<0.1	0.2	56	0.13
L400S +150W	Soil	3.4	80.6	6.6	42	0.3	13.2	6.5	134	2.15	3	<0.5	0.5	15	<0.1	<0.1	0.2	50	0.13
L400S +125W	Soil	1.6	46.4	6	50	0.1	16.7	7.3	136	2.19	2.8	0.6	0.8	13	<0.1	<0.1	0.2	54	0.09
L400S +100W	Soil	1	18.3	5.2	22	0.1	3.7	2.2	50	1.51	1.6	1.4	0.5	9	<0.1	<0.1	0.2	39	0.07
L400S +75W	Soil	2.4	64.8	5.2	39	0.1	13.3	7.6	142	2.36	3.7	1	0.9	12	<0.1	0.1	0.3	54	0.06

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L400S +50W	Soil	2.5	48.8	6.1	38	0.2	13.8	6.8	122	2.11	2.5	0.8	0.9	15	<0.1	<0.1	0.4	55	0.07
L400S +25W	Soil	2.1	36.4	5.8	34	0.1	9.6	4.9	121	1.87	2.3	<0.5	0.6	17	<0.1	0.1	0.3	48	0.07
L400S +25E	Soil	3.1	54.9	5.8	78	0.1	11.3	5.5	103	2.32	2.9	5.4	1.5	17	0.2	0.1	0.3	54	0.06
L400S +50E	Soil	1.7	60.2	5.6	84	<0.1	18.5	9.2	162	2.51	3.7	1.2	1.4	19	0.2	0.1	0.3	63	0.08
L400S +75E	Soil	1.6	42.5	7.3	107	0.1	13.7	7.5	284	2.74	3.4	1.7	1.3	16	0.3	0.1	0.4	67	0.09
L400S +100E	Soil	1	12.7	6.9	26	<0.1	2.4	1.9	50	2.12	2.6	<0.5	1.8	6	0.1	0.1	0.2	51	0.03
L400S +125E	Soil	0.7	27.2	5.9	26	0.2	9.1	4.8	92	1.78	1.7	0.9	0.9	15	<0.1	<0.1	0.2	43	0.07
L400S +150E	Soil	0.7	12.9	5.9	17	<0.1	5.9	3.8	84	1.8	1.9	<0.5	1.1	6	<0.1	<0.1	0.2	44	0.04
L400S +175E	Soil	1	20.8	7.2	24	0.2	6.8	4.2	80	2.36	3	3.1	1.7	9	<0.1	0.1	0.3	49	0.07
L400S +200E	Soil	0.5	8.5	6.4	22	0.1	5	3.6	103	2.11	1.8	3.8	0.6	5	<0.1	<0.1	0.5	56	0.04
L450S +200W	Soil	3.1	64.3	5.3	39	0.3	14.3	7.5	133	2.41	3.9	1.1	0.7	11	<0.1	0.1	0.2	59	0.07
L450S +175W	Soil	2	112	8.1	38	0.3	14.6	9.5	130	1.65	1.8	1.6	0.4	20	<0.1	<0.1	0.2	35	0.2
L450S +150W	Soil	2.4	36.9	6.3	30	0.2	10.4	4.9	95	1.92	2.7	<0.5	0.4	13	<0.1	<0.1	0.2	46	0.06
L450S +125W	Soil	2.2	38.7	5.3	29	<0.1	9.4	4.9	106	1.88	2.3	<0.5	0.5	14	<0.1	<0.1	0.2	47	0.07
L450S +100W	Soil	1.9	38.3	4.7	30	<0.1	8.1	4.5	107	2.04	2.1	0.6	0.4	11	<0.1	<0.1	0.3	50	0.07
L450S +75W	Soil	1.2	13	7	28	0.2	4.2	3.2	186	1.87	2	<0.5	0.9	7	<0.1	0.1	0.3	41	0.06
L450S +25W	Soil	2.6	33.4	8.1	41	0.1	10.8	5.1	148	2.95	6.3	3	1.6	28	<0.1	0.2	0.4	53	0.07
L450S +25E	Soil	8.6	475.4	6.6	258	0.2	23.8	12.9	226	3.03	4.6	3.4	1	46	0.2	0.1	0.9	58	0.36
L450S +50E	Soil	2	96.3	4.3	84	0.1	32.5	13.5	184	2.58	4	1.4	1	16	0.2	<0.1	0.6	60	0.11
L450S +75E	Soil	1.1	30.5	6.3	56	<0.1	13	7.2	137	2.42	4.6	1	1.6	11	0.1	0.1	0.7	51	0.07
L450S +100E	Soil	1.2	44.4	5.6	72	<0.1	16.7	8.2	160	2.32	3.4	2.5	1.3	11	<0.1	0.1	0.4	56	0.07
L450S +125E	Soil	0.9	19	6.2	37	<0.1	10.3	6.5	225	2.01	2.2	0.8	0.9	10	<0.1	0.1	0.3	49	0.08
L450S +175E	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.
L450S +200E	Soil	1	71.1	6.1	55	0.1	26.6	12.3	287	2.89	4.8	6.1	1.6	12	0.1	0.1	0.6	65	0.11
L500S +200W	Soil	11	144.3	5.7	45	0.3	14.5	6.9	160	3.08	3.9	0.6	0.8	16	<0.1	<0.1	0.3	76	0.11
L500S +175W	Soil	4.1	121.8	6.6	38	0.4	8.3	4	129	2.09	2.8	3	0.4	9	0.1	<0.1	0.3	50	0.06
L500S +150W	Soil	1.8	125.1	6.1	29	0.2	7.7	3.6	76	1.81	2.3	1.8	0.5	12	0.1	<0.1	0.3	44	0.06
L500S +125W	Soil	1.7	241.3	8.1	57	0.2	24.2	11.5	255	1.97	2.1	1.1	0.8	25	0.1	<0.1	0.4	40	0.21
L500S +100W	Soil	3.7	271.2	8	70	0.4	24.6	13.2	419	2.23	3	2.4	0.3	38	<0.1	<0.1	0.5	47	0.38
L500S +75W	Soil	2.5	122.4	4.8	60	0.1	29	13.4	228	3.04	6.9	0.8	0.8	14	<0.1	<0.1	0.6	75	0.12

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L500S +50W	Soil	1.7	57.8	8.2	47	0.3	13.7	7.5	206	2.42	5.2	2.3	0.7	14	<0.1	<0.1	0.4	57	0.09
L500S +25W	Soil	7.4	119.7	6.4	59	0.3	14.8	9.3	161	2.82	5.3	4.9	1.1	13	0.1	0.1	0.5	62	0.09
L500S +25E	Soil	15.4	282.3	11.5	68	0.5	10.3	7.3	150	3.65	11.9	9	1.2	17	<0.1	0.3	1	75	0.11
L500S +50E	Soil	2.7	42.5	5.7	103	0.2	8.4	5	139	1.53	2.4	8.4	0.4	19	0.3	<0.1	0.5	38	0.2
L500S +75E	Soil	2.8	57.5	5.4	169	0.3	25.3	11.5	218	2.81	8.4	3.3	0.6	16	0.6	<0.1	0.7	61	0.11
L500S +100E	Soil	0.8	67.1	6	129	0.3	31.3	10.9	254	2.78	11	3.9	0.5	15	0.2	<0.1	1	56	0.12
L500S +125E	Soil	0.8	55.9	4.8	70	0.3	28	12	236	2.53	5.8	3.2	0.7	16	0.1	<0.1	0.5	58	0.14
L500S +150E	Soil	0.9	50	5.6	95	0.5	29.3	13.4	322	2.68	5.1	4.3	0.7	13	0.2	<0.1	0.5	60	0.1
L500S +175E	Soil	1.2	49	7.3	61	0.1	20.8	12.3	574	3.2	7.5	6.3	0.8	10	0.1	<0.1	0.8	71	0.07
L500S +200E	Soil	0.9	85.8	6.1	57	0.2	32.1	13.5	304	3.02	7.8	4.4	1.1	12	<0.1	0.1	0.7	67	0.09
L550S +200W	Soil	15.7	131	6.7	29	0.4	7.2	3.4	110	2.93	4.2	2.3	0.6	14	0.1	<0.1	0.5	62	0.06
L550S +175W	Soil	5.1	180.5	5.5	40	0.3	13	5.7	132	2.42	4	<0.5	0.8	8	<0.1	<0.1	0.3	57	0.07
L550S +150W	Soil	4.8	110.3	5.8	49	0.2	19.4	9	160	2.82	3.9	<0.5	1.2	11	<0.1	0.1	0.5	64	0.08
L550S +125W	Soil	7.9	237.8	5.9	68	0.3	23.9	8	171	2.57	3.9	<0.5	0.8	16	<0.1	<0.1	0.5	61	0.13
L550S +100W	Soil	4.9	78	5.5	44	0.2	12.2	6.3	116	2.48	3.6	<0.5	0.6	13	<0.1	0.1	0.3	58	0.08
L550S +75W	Soil	2.6	39.8	5.2	30	0.2	7.5	3.5	89	1.92	2.8	<0.5	0.3	10	0.1	<0.1	0.3	44	0.06
L550S +50E	Soil	3.7	78.4	6	77	0.2	16.6	9.3	174	2.83	5.6	0.8	0.6	14	<0.1	0.1	0.4	69	0.15
L550S +75E	Soil	1.5	53.2	6.2	54	0.2	15	8	196	2.45	4.5	1.5	0.7	12	0.3	<0.1	0.5	58	0.13
L550S +100E	Soil	2.1	97.4	9.4	520	0.8	18.8	9.6	563	2.79	4.9	1.2	1	25	0.5	0.1	1	56	0.33
L550S +125E	Soil	3	61.9	9	549	1.5	10.8	5.8	133	2.87	5.6	16.7	1.4	18	2.2	0.1	0.7	51	0.16
L550S +150E	Soil	0.8	50.3	4.9	82	0.2	18.2	9.4	216	2.43	5.4	2.9	0.8	12	0.4	0.1	0.6	57	0.12
L550S +175E	Soil	0.9	59.5	5.3	58	0.2	25.4	11.8	234	2.85	5.3	<0.5	0.9	16	0.1	<0.1	0.7	66	0.14
L550S +200E	Soil	0.8	53.7	3.6	47	0.1	25.6	11.7	274	2.57	5.9	8.8	0.6	20	<0.1	<0.1	0.6	60	0.23
L600S +200W	Soil	1.1	37.6	7.2	13	0.7	2.7	1.9	60	2.26	2.7	0.5	1.3	5	0.3	0.1	1.1	33	0.03
L600S +175W	Soil	1.7	36.3	6.6	14	0.4	2.4	1.6	45	1.58	1.8	<0.5	0.5	5	0.1	<0.1	0.7	34	0.04
L600S +150W	Soil	4.1	94.4	5.9	35	0.2	7.6	3.5	90	1.79	2.5	<0.5	0.4	6	<0.1	<0.1	0.4	41	0.04
L600S +125W	Soil	3.5	109.1	5.1	35	0.4	6.7	3.5	73	1.55	2.1	<0.5	0.2	16	0.1	<0.1	0.3	33	0.11
L600S +25W	Soil	0.4	5.3	5.2	20	<0.1	3.4	2.5	136	1.41	1.9	<0.5	0.4	6	<0.1	<0.1	0.4	31	0.04
L600S +25E	Soil	2.1	61.5	5.9	79	0.2	11.7	7.5	138	2.49	4.8	<0.5	0.9	9	0.1	0.1	0.5	54	0.07
L600S +50E	Soil	2	64.3	5.7	88	0.3	12.7	7.6	158	2.45	4.3	3.8	0.6	15	0.3	<0.1	0.5	54	0.17

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L600S +100E	Soil	0.9	24.5	5.3	110	0.5	13.9	7.5	217	2.06	3.6	3	0.7	13	0.4	<0.1	0.4	52	0.12
L600S +125E	Soil	0.7	22.8	5.5	62	0.2	9.9	5.7	169	2.04	4.4	2.5	0.6	8	0.2	<0.1	0.4	46	0.09
L600S +150E	Soil	1	100.3	5.4	55	0.1	33.5	13.5	221	2.94	7.7	10.5	1.1	14	<0.1	<0.1	0.8	71	0.15
L600S +175E	Soil	1	70.4	6.1	56	0.2	28.3	12.2	242	2.98	6.7	5.1	1	12	<0.1	<0.1	0.6	71	0.12
L600S +200E	Soil	1	80.1	4.5	72	0.2	34.3	16	304	3.21	6.8	4.4	0.9	16	<0.1	<0.1	0.6	78	0.15
L650S +200W	Soil	16.7	241.5	5.8	31	0.6	6.9	3.4	99	2.37	3.8	2.1	0.8	9	<0.1	0.1	0.2	59	0.06
L650S +175W	Soil	10.9	126.1	5.2	32	0.5	5.6	3.1	91	2.27	4	0.8	0.7	11	<0.1	0.1	0.3	60	0.05
L650S +150W	Soil	1.1	24.9	6	29	0.2	5.2	3.1	104	1.75	2.6	0.7	0.5	6	0.1	<0.1	0.3	42	0.05
L650S +125W	Soil	0.8	25.1	5.3	46	0.1	8.5	5.1	119	1.99	3.2	0.9	0.8	9	0.2	0.1	0.4	44	0.06
L650S +100W	Soil	0.7	22.2	5.2	43	<0.1	10.2	5.3	118	2.11	3.7	2.2	0.8	8	<0.1	<0.1	0.4	51	0.06
L650S +75W	Soil	1	35.4	5.6	55	0.2	17.2	9.2	201	2.46	5.6	<0.5	0.7	10	<0.1	<0.1	0.5	59	0.08
L650S +25E	Soil	3.2	80.3	6.1	70	0.2	16.9	9.6	216	2.88	6.2	<0.5	1.1	11	<0.1	0.1	0.4	63	0.1
L650S +50E	Soil	1.8	76.8	6.2	59	0.3	16.7	9.8	161	2.64	7.9	3.6	1.3	9	0.1	<0.1	0.5	58	0.08
L650S +75E	Soil	1.9	214.7	6.3	35	0.5	8.6	7	141	3.33	5.4	11.9	2	12	<0.1	0.2	2.4	49	0.07
L650S +125E	Soil	4.2	76.1	7.5	96	0.2	18.3	11.4	219	3.57	15	11.1	0.9	30	0.5	<0.1	1.7	60	0.14
L650S +150E	Soil	0.9	89.8	6.3	80	0.2	27.5	13.6	367	3.3	7.4	3.8	1	21	0.1	<0.1	0.9	71	0.22
L650S +175E	Soil	0.8	40.6	6.1	58	0.3	17.7	9.4	208	2.46	4.4	3.5	0.9	10	<0.1	<0.1	0.6	56	0.1
L650S +200E	Soil	1.1	85.9	7.4	83	0.2	28.7	14.1	432	3.2	8.6	4.2	1.2	15	<0.1	<0.1	0.7	70	0.15
L700S 0+200W	Soil	8.8	136.8	5.6	43	0.4	8.4	5.5	117	2.31	4	1.1	0.8	7	0.1	<0.1	0.5	51	0.05
L700S 0+175W	Soil	3.9	67.8	5	28	0.5	6.8	4.3	103	1.95	4.1	2.4	0.3	7	<0.1	<0.1	0.6	45	0.05
L700S 0+150W	Soil	3.8	60.1	6.4	31	0.3	5.7	3.5	99	2.12	2.9	6.4	1.2	7	<0.1	0.1	0.5	52	0.05
L700S 0+125W	Soil	1	27.5	5.7	40	0.1	8.9	5.4	120	2.14	4.2	1.7	1.2	7	<0.1	<0.1	0.4	50	0.06
L700S 0+100W	Soil	1.1	22.2	5.9	40	0.1	10.2	6	148	2.06	3.1	2.9	0.6	8	<0.1	<0.1	0.4	48	0.07
L700S 0+75W	Soil	1	28	5.7	46	0.2	11.6	7.6	241	2.42	3.7	0.9	0.8	10	<0.1	<0.1	0.5	56	0.09
L700S 0+50W	Soil	3.2	102.1	7.3	55	0.3	14.4	8.6	232	2.76	5.6	3.5	1.1	13	<0.1	<0.1	0.7	66	0.12
L700S 0+25W	Soil	0.8	17.1	5.9	30	<0.1	4.1	2.9	100	1.91	1.7	0.6	0.8	6	<0.1	0.1	0.2	48	0.06
L700S 0+25E	Soil	1.9	482	9.3	60	0.6	16.1	8.5	283	2.92	7.5	15.4	1.5	18	<0.1	<0.1	0.8	55	0.21
L700S 0+50E	Soil	1.2	72.1	5.4	46	0.7	6	5.4	120	2.18	6.6	1.2	0.9	9	<0.1	<0.1	0.8	49	0.1
L700S 0+75E	Soil	2.2	191.8	8.8	71	0.6	11.9	6.8	128	2.66	6.6	3.2	1.9	13	<0.1	0.1	0.7	48	0.13
L700S 0+100E	Soil	1.2	52.8	9.4	54	0.4	7.9	6.1	165	2.63	3.6	1.7	1.6	11	0.1	0.2	0.7	49	0.08

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
L700S 0+125E	Soil	2.6	56.2	15.4	84	0.3	9.9	8.9	180	3.21	26.3	21.5	1.7	11	0.1	0.2	2	54	0.1
L700S 0+150E	Soil	2.3	159	8.6	1283	0.6	21.3	12.6	1459	2.63	4.8	6.2	0.9	37	4.9	<0.1	0.9	48	0.52
L700S 0+175E	Soil	0.9	37.1	6.1	80	0.4	15.3	9.4	261	2.33	4.2	1.6	0.9	12	0.2	<0.1	0.4	53	0.12
L700S 0+200E	Soil	1	90.1	8.6	94	0.5	25.4	12.9	273	3.28	7.9	15.8	1.4	18	<0.1	0.1	1.2	73	0.16
L750S 0+200W	Soil	37.7	146.6	5.6	42	1.2	4.2	2.8	137	3.49	3.1	0.9	0.8	14	<0.1	<0.1	0.3	89	0.1
L750S 0+175W	Soil	54.5	134.5	5.7	40	1.2	5.7	2.7	94	4.07	3.9	0.7	0.9	10	<0.1	0.1	0.3	121	0.06
L750S 0+150W	Soil	76	455	5	60	1.3	7.2	4.2	165	5.72	4.2	9	0.6	17	0.2	<0.1	0.6	192	0.12
L750S 0+125W	Soil	38.4	568.6	5.3	68	2.5	10.8	6.7	203	5.08	3.7	13.5	0.8	15	<0.1	0.1	0.7	191	0.09
L750S 0+100W	Soil	15.2	277	5.5	33	0.8	4.4	3.9	101	2.1	2.2	3.3	0.8	7	0.1	0.1	0.3	57	0.05
L750S 0+75W	Soil	3.4	297.4	6.3	31	0.3	5.5	3.6	153	1.85	2.5	1.3	0.9	11	<0.1	0.1	0.3	46	0.12
L750S 0+50W	Soil	2.3	45.5	6.1	41	0.5	6.2	4	123	1.79	2.3	<0.5	0.8	11	0.1	0.1	0.3	43	0.07
L750S 0+25E	Soil	0.8	15.9	5.2	29	0.3	3.2	2.8	80	1.57	1.6	1.6	0.6	5	<0.1	<0.1	0.3	40	0.05
L750S 0+50E	Soil	0.8	10.8	5.1	32	0.3	3.5	3.5	120	1.85	3.5	1.3	0.3	5	<0.1	<0.1	0.7	45	0.05
L750S 0+75E	Soil	1.7	53.8	7.5	60	0.5	7.7	5.2	203	1.77	4.1	2.1	0.5	16	0.2	<0.1	0.6	38	0.23
L750S 0+100E	Soil	0.9	35.3	5.8	70	0.3	5.5	4.1	223	1.73	2.2	2.3	0.3	17	0.2	<0.1	0.4	42	0.26
L750S 0+125E	Soil	1	59.6	7.8	100	0.3	13.8	9.3	232	2.9	7.6	3.7	0.8	13	0.2	<0.1	0.8	62	0.11
L750S 0+150E	Soil	1	30.3	5.5	116	0.5	6.4	5.5	151	1.83	4.3	2.5	0.3	12	0.3	<0.1	0.5	44	0.12
L750S 0+175E	Soil	1.4	200.4	6.6	719	0.6	25.1	13.2	580	2.95	4.9	15.7	1.2	33	2	<0.1	0.7	62	0.45
L750S 0+200E	Soil	0.9	84.2	7.3	207	0.3	21.5	13.2	381	3.16	6.4	7.7	0.8	25	0.3	<0.1	0.6	72	0.27
L800S 0+200W	Soil	32.8	131.5	6.6	40	0.5	5.7	3.5	166	4.04	4.8	<0.5	0.7	13	<0.1	0.1	0.4	128	0.1
L800S 0+175W	Soil	43.7	176.6	5.8	42	1.1	7.9	4.5	118	3.51	5.9	4.1	0.8	15	<0.1	0.1	0.5	106	0.09
L800S 0+150W	Soil	69	362.7	5.5	55	1.2	8.4	5.3	139	5.4	5.9	8.8	1.2	14	<0.1	<0.1	0.8	165	0.08
L800S 0+125W	Soil	56.4	350.9	4.9	65	0.9	7.4	4.8	164	5	4.3	4.9	0.8	12	<0.1	<0.1	0.4	175	0.12
L800S 0+25W	Soil	23.6	464.2	6.4	71	0.8	16.9	10.7	172	3.35	6.7	3.2	0.9	11	<0.1	<0.1	0.4	105	0.09
L800S 0+50E	Soil	1.7	41.6	6.2	68	0.3	10.2	7.4	213	2.28	4.1	1.8	0.8	10	0.1	0.1	0.6	51	0.09
L800S 0+75E	Soil	2.5	76.6	6.1	75	0.3	14.9	9.5	221	2.4	5.8	2.8	0.6	12	<0.1	<0.1	0.6	57	0.1
L800S 0+100E	Soil	2.2	105.1	6.7	86	0.6	17.5	11	312	2.75	7.1	7.1	0.9	14	0.2	<0.1	0.6	63	0.13
L800S 0+125E	Soil	2.3	186.9	7.2	95	0.4	20.1	11.8	345	2.98	5.6	3.3	0.6	29	0.1	<0.1	0.6	65	0.39
L800S 0+150E	Soil	1.4	75.2	8.8	65	0.2	11.2	6.4	245	1.87	4.3	1.9	0.3	32	0.2	0.1	0.6	40	0.52
L800S 0+175E	Soil	2.9	135	7.2	69	0.4	19.8	9.4	182	2.95	8.5	2.8	0.5	23	0.3	<0.1	0.6	65	0.27

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																			
L450S +125W	Soil	2.2	38.7	5.3	29	<0.1	9.4	4.9	106	1.88	2.3	<0.5	0.5	14	<0.1	<0.1	0.2	47	0.07
L450S +125W	REP	2.3	38.5	5.3	30	<0.1	9.6	5.3	113	1.9	2.5	1.6	0.6	13	<0.1	<0.1	0.2	48	0.07
L550S +150E	Soil	0.8	50.3	4.9	82	0.2	18.2	9.4	216	2.43	5.4	2.9	0.8	12	0.4	0.1	0.6	57	0.12
L550S +150E	REP	0.9	50.2	5.4	86	0.2	19.6	9.9	210	2.39	4.8	6.9	0.8	12	0.3	<0.1	0.5	55	0.12
L350S +75W	Soil	0.8	10.6	5.1	14	0.2	2.2	1.2	37	0.96	1.4	<0.5	0.4	5	<0.1	<0.1	0.1	31	0.04
L350S +75W	REP	0.9	10.5	4.8	14	0.2	1.9	1.4	39	0.94	1.2	<0.5	0.4	5	<0.1	<0.1	0.1	31	0.05
L700S 0+25E	Soil	1.9	482	9.3	60	0.6	16.1	8.5	283	2.92	7.5	15.4	1.5	18	<0.1	<0.1	0.8	55	0.21
L700S 0+25E	REP	1.9	482.7	9.1	58	0.7	16.5	8.4	265	2.78	6.9	8.6	1.4	17	<0.1	<0.1	0.7	54	0.19
L800S 0+175E	Soil	2.9	135	7.2	69	0.4	19.8	9.4	182	2.95	8.5	2.8	0.5	23	0.3	<0.1	0.6	65	0.27
L800S 0+175E	REP	3	128.5	7.3	64	0.4	19.4	9.6	175	2.75	8.2	2.2	0.5	23	0.2	0.1	0.6	64	0.26
Reference Materials																			
STD DS9	STD	11.2	108.2	129.6	297	1.8	42.7	7.5	547	2.16	24.1	98.3	6.4	64	2.1	5.8	6	42	0.63
STD OREAS45EA	STD	1.2	599.4	13.2	27	0.2	304.1	43.2	340	20.74	8.2	45.7	10.3	3	<0.1	0.2	0.3	252	0.03
STD DS9	STD	13.9	109.7	131.9	313	1.8	41.9	7.9	636	2.37	24.1	104.5	6.7	77	2.3	4.8	6.7	42	0.68
STD OREAS45EA	STD	1.3	613.7	13.9	28	0.3	334.3	48.1	410	22.86	8.1	52.5	9.9	4	<0.1	0.2	0.2	279	0.04
STD DS9	STD	12.8	105.5	131.8	302	1.6	38.3	7.3	535	2.22	25.9	105.3	6.3	64	2.2	4.2	6	41	0.68
STD OREAS45EA	STD	1.4	629.2	14.4	29	0.2	338.2	51.1	373	24.47	9.3	64.9	10.3	4	<0.1	0.1	0.2	285	0.04
STD DS9	STD	12.1	98.7	133.5	306	1.9	38.1	6.9	553	2.17	25.2	108.4	6.4	63	2.5	4.4	5.4	40	0.71
STD OREAS45EA	STD	1.4	625.1	13.4	28	0.2	334.3	48	358	22.92	9.7	48.6	9.9	3	<0.1	0.2	0.2	276	0.03
STD DS9	STD	13	109.9	132.2	330	1.9	39.6	7.5	604	2.4	26.4	99.1	6.8	67	2.3	4.4	5.7	43	0.74
STD OREAS45EA	STD	1.4	638.4	14.4	31	0.3	334.3	49.3	380	23.58	9.8	50.1	10.4	4	<0.1	0.1	0.2	267	0.03
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	BLK	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Sample																		
L8S 0+100W	0.069	5	23	0.96	124	0.208	<20	2.93	0.015	0.14	0.3	0.03	9.6	0.1	<0.05	11	<0.5	0.3
L8S 0+75W	0.092	5	20	0.47	77	0.127	<20	2.4	0.014	0.05	0.2	0.04	4.3	<0.1	<0.05	8	<0.5	0.3
L8S 0+50W	0.057	4	104	1.53	132	0.168	<20	3.27	0.012	0.13	<0.1	0.04	11.3	0.1	<0.05	10	<0.5	0.3
L200S +25E	0.062	5	97	1.48	143	0.134	<20	3.82	0.014	0.11	0.6	0.04	10	<0.1	<0.05	9	1.2	0.7
L200S +50E	0.066	6	64	1.11	185	0.145	<20	2.89	0.02	0.22	0.3	0.04	8.5	<0.1	0.16	9	0.9	<0.2
L200S +75E	0.042	18	122	2.48	279	0.257	<20	3.6	0.025	0.45	0.3	<0.01	19.9	0.1	<0.05	12	0.8	0.3
L200S +100E	0.071	6	50	1.06	101	0.159	<20	3.13	0.021	0.08	0.3	0.02	9.5	<0.1	<0.05	9	0.6	0.3
L200S +125E	0.125	4	60	0.89	85	0.081	<20	3.47	0.015	0.06	0.4	0.05	4.3	<0.1	<0.05	10	0.6	0.5
L200S +150E	0.076	4	76	0.95	78	0.088	<20	2.98	0.012	0.04	0.1	0.05	4	<0.1	<0.05	8	<0.5	<0.2
L200S +175E	0.065	3	78	1.07	83	0.108	<20	2.89	0.01	0.04	0.1	0.05	4.5	<0.1	<0.05	8	<0.5	<0.2
L200S +200E	0.149	3	44	0.47	78	0.118	<20	3.67	0.014	0.03	0.3	0.08	2.4	<0.1	<0.05	12	<0.5	<0.2
L300S +200W	0.047	3	38	0.59	70	0.105	<20	2.19	0.014	0.04	0.2	0.04	3.6	<0.1	<0.05	8	<0.5	<0.2
L300S +175W	0.056	4	39	0.64	84	0.098	<20	2.48	0.015	0.04	<0.1	0.04	3.9	<0.1	<0.05	8	<0.5	<0.2
L300S +150W	0.056	4	39	0.65	74	0.107	<20	2.22	0.02	0.03	0.2	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
L300S +125W	0.044	5	50	0.95	74	0.096	<20	2.18	0.018	0.04	0.1	0.03	3.8	<0.1	<0.05	8	<0.5	<0.2
L300S +100W	0.069	3	37	0.58	51	0.103	<20	2.28	0.014	0.03	0.3	0.05	3.7	<0.1	<0.05	9	<0.5	<0.2
L300S +75W	0.055	3	41	0.66	47	0.108	<20	2.53	0.015	0.03	0.3	0.04	3.8	<0.1	<0.05	8	<0.5	0.2
L300S +50W	0.048	6	51	0.8	66	0.111	<20	2.47	0.017	0.04	0.2	0.05	4.5	<0.1	<0.05	9	<0.5	<0.2
L300S +25W	0.061	3	48	0.66	77	0.087	<20	2.16	0.012	0.04	0.3	0.06	3.6	<0.1	<0.05	7	<0.5	<0.2

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L300S +25E	0.025	9	68	0.89	118	0.076	<20	2.65	0.012	0.05	0.3	0.02	4.6	<0.1	<0.05	7	<0.5	0.2
L300S +50E	0.098	4	61	1.03	74	0.07	<20	2.92	0.011	0.03	0.2	0.05	4.1	<0.1	<0.05	9	<0.5	0.2
L300S +75E	0.049	4	88	1.33	99	0.097	<20	3.76	0.011	0.05	0.4	0.04	4.9	<0.1	<0.05	7	<0.5	0.2
L300S +100E	0.06	4	25	0.85	146	0.018	<20	3.01	0.014	0.07	0.2	0.02	2.2	<0.1	<0.05	13	<0.5	<0.2
L300S +125E	0.055	3	76	1.14	118	0.083	<20	2.85	0.011	0.05	0.2	0.04	4	<0.1	<0.05	9	<0.5	0.2
L300S +150E	0.053	4	72	1.27	154	0.044	<20	3.02	0.01	0.05	<0.1	0.03	4	<0.1	<0.05	9	<0.5	<0.2
L300S +175E	0.069	4	58	1.02	115	0.087	<20	2.71	0.011	0.05	0.1	0.03	3.7	<0.1	<0.05	9	<0.5	<0.2
L300S +200E	0.071	2	6	0.06	27	0.087	<20	1.42	0.019	0.02	<0.1	0.04	0.8	<0.1	<0.05	7	<0.5	<0.2
L350S +200W	0.05	4	35	0.64	82	0.081	<20	2.19	0.011	0.04	0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
L350S +175W	0.054	5	27	0.44	59	0.059	<20	1.77	0.011	0.03	0.2	0.03	2.5	<0.1	<0.05	8	<0.5	<0.2
L350S +150W	0.054	3	29	0.44	57	0.068	<20	1.58	0.012	0.03	0.2	0.04	2.1	<0.1	<0.05	7	<0.5	<0.2
L350S +125W	0.062	5	30	0.42	53	0.065	<20	2.15	0.013	0.02	0.8	0.05	2.4	<0.1	<0.05	7	<0.5	<0.2
L350S +100W	0.091	4	27	0.41	48	0.09	<20	2.53	0.015	0.02	0.3	0.06	2.6	<0.1	<0.05	8	<0.5	0.2
L350S +75W	0.052	1	7	0.06	21	0.07	<20	0.85	0.013	0.02	<0.1	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
L350S +50W	0.1	3	28	0.48	47	0.085	<20	3.11	0.012	0.03	0.2	0.06	2.5	<0.1	<0.05	10	<0.5	<0.2
L350S +25W	0.056	3	26	0.38	43	0.089	<20	2	0.013	0.02	0.2	0.04	2.1	<0.1	<0.05	8	<0.5	<0.2
L350S +25E	0.07	7	17	0.26	44	0.116	<20	2.55	0.029	0.02	0.8	0.04	1.8	<0.1	<0.05	8	<0.5	<0.2
L350S +50E	0.056	3	20	0.29	52	0.082	<20	1.76	0.009	0.02	0.2	0.03	1.7	<0.1	<0.05	9	<0.5	<0.2
L350S +75E	0.073	5	18	0.27	47	0.063	<20	2.03	0.009	0.02	0.1	0.05	1.4	<0.1	<0.05	7	0.5	0.2
L350S +100E	0.096	4	26	0.33	32	0.082	<20	3.4	0.009	0.02	0.3	0.05	1.9	<0.1	<0.05	8	<0.5	<0.2
L350S +125E	0.09	2	19	0.26	44	0.095	<20	2.27	0.01	0.02	0.2	0.03	1.3	<0.1	<0.05	8	<0.5	<0.2
L350S +150E	0.159	1	6	0.05	36	0.092	<20	2.1	0.01	0.01	<0.1	0.05	0.8	<0.1	<0.05	8	<0.5	<0.2
L350S +175E	0.095	4	41	0.65	77	0.032	<20	1.66	0.005	0.03	0.1	0.02	2	<0.1	<0.05	7	<0.5	0.3
L350S +200E	0.047	4	7	0.09	71	0.045	<20	1.36	0.009	0.02	0.1	0.03	0.8	<0.1	<0.05	8	<0.5	<0.2
L400S +200W	0.053	3	25	0.42	57	0.082	<20	1.8	0.008	0.03	0.2	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
L400S +175W	0.07	3	28	0.44	69	0.068	<20	1.63	0.009	0.02	0.2	0.02	2	<0.1	<0.05	7	<0.5	<0.2
L400S +150W	0.072	4	25	0.43	52	0.075	<20	1.77	0.01	0.03	0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
L400S +125W	0.114	3	37	0.6	49	0.062	<20	1.93	0.009	0.03	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
L400S +100W	0.065	2	13	0.12	41	0.077	<20	1.3	0.011	0.01	<0.1	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
L400S +75W	0.066	4	29	0.43	48	0.071	<20	1.97	0.009	0.02	0.2	0.03	2	<0.1	<0.05	7	<0.5	<0.2

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L400S +50W	0.063	3	30	0.44	55	0.08	<20	2.03	0.011	0.02	0.2	0.03	2	<0.1	<0.05	7	<0.5	<0.2
L400S +25W	0.069	2	22	0.28	46	0.074	<20	1.62	0.008	0.02	0.2	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
L400S +25E	0.088	3	27	0.35	44	0.093	<20	3.01	0.01	0.02	0.2	0.04	2	<0.1	<0.05	8	<0.5	<0.2
L400S +50E	0.092	4	40	0.58	64	0.072	<20	2.37	0.008	0.03	0.2	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
L400S +75E	0.096	4	31	0.45	46	0.101	<20	2.66	0.011	0.03	0.2	0.04	2.1	<0.1	<0.05	10	<0.5	<0.2
L400S +100E	0.092	3	9	0.05	25	0.124	<20	3.84	0.013	0.01	0.1	0.06	1.3	<0.1	<0.05	10	<0.5	<0.2
L400S +125E	0.056	4	18	0.28	54	0.083	<20	1.94	0.013	0.02	0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
L400S +150E	0.054	3	13	0.15	37	0.079	<20	1.96	0.012	0.02	0.1	0.03	1.4	<0.1	<0.05	8	<0.5	<0.2
L400S +175E	0.081	5	15	0.17	48	0.094	<20	3.05	0.013	0.02	0.2	0.04	1.8	<0.1	<0.05	10	<0.5	<0.2
L400S +200E	0.033	4	11	0.15	48	0.063	<20	1.37	0.011	0.02	<0.1	0.02	1.1	<0.1	<0.05	9	<0.5	0.3
L450S +200W	0.051	4	31	0.48	46	0.078	<20	2.33	0.01	0.03	0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
L450S +175W	0.048	8	13	0.21	45	0.095	<20	1.78	0.017	0.02	0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
L450S +150W	0.064	3	23	0.34	48	0.067	<20	1.64	0.009	0.02	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
L450S +125W	0.091	3	23	0.32	46	0.068	<20	1.8	0.009	0.02	0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
L450S +100W	0.061	3	19	0.26	52	0.077	<20	1.61	0.011	0.02	0.2	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
L450S +75W	0.087	4	7	0.09	59	0.1	<20	2.14	0.014	0.02	0.1	0.05	1.1	<0.1	<0.05	7	<0.5	<0.2
L450S +25W	0.152	5	19	0.32	63	0.099	<20	2.97	0.011	0.03	0.2	0.06	2.1	<0.1	<0.05	8	<0.5	<0.2
L450S +25E	0.04	10	41	0.67	128	0.081	<20	2.81	0.012	0.04	0.2	0.02	3	<0.1	<0.05	7	0.5	0.8
L450S +50E	0.051	3	71	0.8	55	0.075	<20	2.37	0.008	0.04	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	0.4
L450S +75E	0.088	4	25	0.39	50	0.085	<20	3.57	0.01	0.02	0.3	0.03	2.1	<0.1	<0.05	7	<0.5	0.4
L450S +100E	0.07	6	30	0.49	70	0.068	<20	2.29	0.01	0.03	0.2	0.06	2.1	<0.1	<0.05	7	<0.5	0.2
L450S +125E	0.075	3	20	0.36	76	0.067	<20	2.03	0.009	0.02	0.4	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2
L450S +175E	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.
L450S +200E	0.052	6	50	0.82	102	0.06	<20	2.78	0.009	0.05	<0.1	0.05	3.5	<0.1	<0.05	6	<0.5	0.4
L500S +200W	0.075	4	30	0.67	81	0.107	<20	2.17	0.012	0.04	0.2	0.04	4.2	<0.1	<0.05	8	<0.5	0.3
L500S +175W	0.063	3	14	0.25	42	0.088	<20	1.89	0.014	0.02	0.1	0.05	2.2	<0.1	<0.05	8	0.6	<0.2
L500S +150W	0.066	3	14	0.21	45	0.075	<20	1.66	0.015	0.03	<0.1	0.06	2	<0.1	<0.05	8	1.5	<0.2
L500S +125W	0.058	12	15	0.25	68	0.12	<20	1.76	0.022	0.03	<0.1	0.04	2.4	<0.1	<0.05	9	0.7	0.3
L500S +100W	0.045	32	20	0.34	132	0.085	<20	1.76	0.021	0.04	0.2	0.04	2.3	<0.1	<0.05	8	1.4	0.2
L500S +75W	0.064	5	57	0.94	68	0.061	<20	2.48	0.009	0.05	0.1	0.04	4.4	<0.1	<0.05	6	1	0.5

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L500S +50W	0.085	4	30	0.48	76	0.071	<20	1.88	0.01	0.03	0.2	0.06	2.7	<0.1	<0.05	7	0.7	0.3
L500S +25W	0.073	5	27	0.47	55	0.087	<20	2.76	0.014	0.03	<0.1	0.05	3.5	<0.1	<0.05	8	0.6	<0.2
L500S +25E	0.059	4	18	0.8	94	0.083	<20	3.05	0.01	0.05	0.1	0.06	3	<0.1	<0.05	16	<0.5	0.5
L500S +50E	0.033	4	17	0.28	49	0.071	<20	1.16	0.017	0.03	<0.1	0.04	1.5	<0.1	<0.05	7	0.7	0.2
L500S +75E	0.049	5	48	0.85	77	0.033	<20	1.83	0.007	0.04	<0.1	0.03	3	0.2	<0.05	5	<0.5	0.4
L500S +100E	0.063	5	60	0.97	73	0.026	<20	1.86	0.007	0.05	<0.1	0.05	3.3	<0.1	<0.05	5	0.6	0.5
L500S +125E	0.056	5	55	0.92	89	0.038	<20	2.06	0.007	0.06	<0.1	0.05	3.1	<0.1	<0.05	5	<0.5	0.5
L500S +150E	0.077	4	46	0.85	113	0.065	<20	2.5	0.012	0.06	<0.1	0.04	3	<0.1	<0.05	7	<0.5	0.4
L500S +175E	0.081	5	40	0.72	48	0.047	<20	1.96	0.008	0.05	0.1	0.03	3.4	0.1	<0.05	7	0.8	0.6
L500S +200E	0.058	6	64	0.98	68	0.062	<20	2.67	0.008	0.05	<0.1	0.05	3.6	<0.1	<0.05	6	<0.5	0.6
L550S +200W	0.066	5	16	0.43	76	0.101	<20	2.3	0.015	0.06	0.2	0.04	3.6	<0.1	<0.05	9	0.8	0.3
L550S +175W	0.096	3	25	0.46	54	0.079	<20	1.84	0.01	0.03	0.1	0.04	2.9	<0.1	<0.05	7	0.6	<0.2
L550S +150W	0.074	6	37	0.64	87	0.087	<20	2.41	0.011	0.03	0.1	0.03	4.1	<0.1	<0.05	8	<0.5	<0.2
L550S +125W	0.062	7	29	0.5	74	0.087	<20	1.99	0.015	0.03	0.1	0.04	3	<0.1	<0.05	7	<0.5	0.2
L550S +100W	0.04	5	24	0.4	78	0.054	<20	1.6	0.011	0.03	<0.1	0.05	2.2	<0.1	<0.05	9	0.9	<0.2
L550S +75W	0.102	3	17	0.28	44	0.053	<20	1.55	0.01	0.04	0.1	0.07	1.4	<0.1	<0.05	6	<0.5	<0.2
L550S +50E	0.081	4	31	0.65	100	0.076	<20	2.29	0.011	0.05	0.1	0.04	2.9	<0.1	<0.05	8	0.9	<0.2
L550S +75E	0.069	3	28	0.5	73	0.068	<20	1.83	0.012	0.04	0.1	0.07	2.6	<0.1	<0.05	7	<0.5	0.3
L550S +100E	0.062	15	25	0.47	255	0.102	<20	2.71	0.021	0.04	<0.1	0.05	3	0.1	<0.05	10	<0.5	0.4
L550S +125E	0.112	9	20	0.29	87	0.131	<20	4.25	0.014	0.04	0.2	0.09	3.2	<0.1	<0.05	12	1.1	0.4
L550S +150E	0.051	4	38	0.63	68	0.052	<20	2.03	0.007	0.04	0.1	0.02	3	<0.1	<0.05	6	<0.5	<0.2
L550S +175E	0.038	5	48	0.88	123	0.051	<20	2.29	0.008	0.04	<0.1	0.02	3.6	<0.1	<0.05	7	0.6	0.5
L550S +200E	0.04	5	50	1.02	112	0.034	<20	1.73	0.007	0.05	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	0.4
L600S +200W	0.105	4	6	0.07	24	0.088	<20	3.62	0.014	0.02	0.2	0.07	2	<0.1	<0.05	9	<0.5	0.5
L600S +175W	0.063	3	6	0.08	25	0.081	<20	1.61	0.013	0.02	0.1	0.07	1.6	<0.1	<0.05	8	<0.5	<0.2
L600S +150W	0.064	4	14	0.25	39	0.076	<20	1.8	0.012	0.02	0.2	0.05	1.9	<0.1	<0.05	7	<0.5	0.4
L600S +125W	0.047	5	10	0.18	74	0.042	<20	0.98	0.009	0.06	<0.1	0.04	1.1	<0.1	<0.05	6	<0.5	0.2
L600S +25W	0.037	3	5	0.08	55	0.023	<20	1.24	0.008	0.02	0.1	0.06	1.2	<0.1	<0.05	7	<0.5	0.3
L600S +25E	0.072	4	24	0.46	63	0.079	<20	2.48	0.012	0.03	0.2	0.06	3	<0.1	<0.05	8	<0.5	0.3
L600S +50E	0.08	5	26	0.45	91	0.063	<20	1.81	0.01	0.03	0.1	0.04	2.6	<0.1	<0.05	7	0.6	0.3

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L600S +100E	0.063	3	28	0.39	67	0.067	<20	2	0.009	0.04	<0.1	0.04	2	<0.1	<0.05	6	<0.5	0.3
L600S +125E	0.11	3	20	0.3	52	0.067	<20	2.18	0.01	0.03	0.1	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2
L600S +150E	0.042	7	62	1.09	106	0.05	<20	2.61	0.007	0.05	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	0.7
L600S +175E	0.07	6	56	0.84	77	0.064	<20	2.83	0.008	0.05	<0.1	0.03	3.7	<0.1	<0.05	7	<0.5	0.5
L600S +200E	0.042	5	68	1.25	109	0.065	<20	2.39	0.006	0.07	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	0.3
L650S +200W	0.08	3	16	0.34	49	0.099	<20	2.37	0.012	0.03	0.2	0.05	3.5	<0.1	<0.05	7	<0.5	<0.2
L650S +175W	0.076	3	14	0.33	58	0.099	<20	2.28	0.012	0.03	0.2	0.06	3.2	<0.1	<0.05	8	<0.5	<0.2
L650S +150W	0.078	3	11	0.17	39	0.082	<20	1.92	0.012	0.02	<0.1	0.05	1.5	<0.1	<0.05	7	<0.5	<0.2
L650S +125W	0.06	3	16	0.31	54	0.07	<20	1.8	0.013	0.03	0.2	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
L650S +100W	0.064	3	22	0.35	46	0.071	<20	1.98	0.011	0.03	0.1	0.04	2.1	<0.1	<0.05	7	<0.5	0.2
L650S +75W	0.051	4	36	0.63	69	0.052	<20	1.9	0.008	0.04	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	0.3
L650S +25E	0.133	4	31	0.63	80	0.085	<20	3.1	0.01	0.04	0.3	0.07	3.1	<0.1	<0.05	8	<0.5	0.2
L650S +50E	0.052	5	33	0.55	67	0.073	<20	2.21	0.009	0.04	<0.1	0.04	3.1	<0.1	<0.05	7	<0.5	0.3
L650S +75E	0.112	7	10	0.27	78	0.058	<20	3.49	0.011	0.03	0.2	0.07	2.8	<0.1	<0.05	10	<0.5	2.1
L650S +125E	0.075	5	35	0.81	106	0.039	<20	2.47	0.012	0.05	0.1	0.06	2.9	<0.1	<0.05	7	<0.5	1.2
L650S +150E	0.042	7	50	0.91	201	0.053	<20	2.71	0.008	0.06	<0.1	0.02	3.9	<0.1	<0.05	7	<0.5	0.5
L650S +175E	0.049	4	29	0.49	122	0.065	<20	2.23	0.012	0.04	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	0.4
L650S +200E	0.084	7	49	0.91	130	0.057	<20	2.84	0.009	0.06	<0.1	0.05	4	<0.1	<0.05	7	<0.5	0.5
L700S 0+200W	0.073	4	19	0.4	45	0.079	<20	2.09	0.011	0.03	0.2	0.05	2.9	<0.1	<0.05	7	<0.5	0.3
L700S 0+175W	0.066	4	15	0.27	44	0.052	<20	1.69	0.01	0.02	0.1	0.05	1.6	<0.1	<0.05	6	<0.5	0.4
L700S 0+150W	0.06	3	12	0.22	44	0.101	<20	2.43	0.015	0.02	0.1	0.04	2	<0.1	<0.05	8	<0.5	<0.2
L700S 0+125W	0.079	4	19	0.33	43	0.078	<20	2.2	0.013	0.03	<0.1	0.05	2.2	<0.1	<0.05	7	<0.5	0.2
L700S 0+100W	0.069	3	21	0.36	67	0.057	<20	1.8	0.011	0.03	<0.1	0.07	1.7	<0.1	<0.05	6	<0.5	<0.2
L700S 0+75W	0.072	3	23	0.43	75	0.07	<20	1.88	0.011	0.03	0.1	0.04	2	<0.1	<0.05	7	<0.5	0.2
L700S 0+50W	0.073	7	28	0.52	77	0.092	<20	2.42	0.013	0.04	0.2	0.04	3.3	<0.1	<0.05	8	0.6	0.6
L700S 0+25W	0.099	2	8	0.14	32	0.099	<20	1.64	0.015	0.02	0.1	0.03	1.2	<0.1	<0.05	8	<0.5	<0.2
L700S 0+25E	0.066	20	21	0.4	147	0.111	<20	2.73	0.02	0.04	0.1	0.06	3.3	0.1	<0.05	8	<0.5	0.4
L700S 0+50E	0.057	5	8	0.11	59	0.076	<20	1.58	0.016	0.02	0.1	0.02	1.9	<0.1	<0.05	6	<0.5	0.4
L700S 0+75E	0.074	17	11	0.18	68	0.112	<20	3.11	0.017	0.04	0.1	0.05	2.6	0.1	<0.05	9	<0.5	0.3
L700S 0+100E	0.119	4	10	0.2	89	0.114	<20	3.04	0.015	0.03	0.2	0.09	1.9	<0.1	<0.05	9	<0.5	0.3

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L700S 0+125E	0.081	8	10	0.16	146	0.043	<20	3.11	0.014	0.05	0.2	0.08	2.5	0.2	<0.05	7	<0.5	1.3
L700S 0+150E	0.112	30	20	0.31	186	0.065	<20	3.35	0.023	0.04	<0.1	0.07	3.9	0.1	<0.05	6	0.5	0.5
L700S 0+175E	0.081	4	28	0.49	109	0.058	<20	2.1	0.012	0.04	<0.1	0.04	2.6	<0.1	<0.05	7	<0.5	0.3
L700S 0+200E	0.074	6	47	0.88	139	0.076	<20	2.94	0.011	0.07	<0.1	0.06	4.2	<0.1	<0.05	7	<0.5	0.6
L750S 0+200W	0.056	3	11	0.54	76	0.155	<20	2.53	0.017	0.06	0.2	0.04	5.5	<0.1	<0.05	9	<0.5	<0.2
L750S 0+175W	0.055	3	12	0.54	68	0.169	<20	2.45	0.016	0.07	0.2	0.04	5.6	<0.1	<0.05	9	0.9	0.3
L750S 0+150W	0.055	3	17	1.3	86	0.215	<20	3.34	0.015	0.14	0.4	0.04	12.4	<0.1	<0.05	12	1.5	0.4
L750S 0+125W	0.06	4	23	1.39	114	0.239	<20	3.15	0.015	0.16	0.3	0.03	12.6	0.1	<0.05	11	0.6	0.7
L750S 0+100W	0.073	3	10	0.27	41	0.092	<20	1.88	0.014	0.03	0.1	0.05	2.4	<0.1	<0.05	8	<0.5	<0.2
L750S 0+75W	0.08	3	11	0.2	52	0.091	<20	2.14	0.014	0.03	0.2	0.06	1.8	<0.1	<0.05	7	<0.5	<0.2
L750S 0+50W	0.086	3	12	0.22	58	0.086	<20	1.96	0.018	0.03	0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
L750S 0+25E	0.047	2	6	0.07	49	0.057	<20	1.24	0.012	0.02	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
L750S 0+50E	0.034	3	6	0.05	67	0.032	<20	1.02	0.01	0.02	<0.1	0.04	0.8	<0.1	<0.05	6	<0.5	0.3
L750S 0+75E	0.043	7	13	0.22	122	0.029	<20	1.33	0.013	0.05	0.1	0.05	1.3	<0.1	<0.05	5	<0.5	0.5
L750S 0+100E	0.046	5	10	0.17	98	0.045	<20	1.01	0.011	0.03	<0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
L750S 0+125E	0.088	4	26	0.5	100	0.06	<20	1.85	0.009	0.04	<0.1	0.02	2.1	<0.1	<0.05	8	<0.5	0.6
L750S 0+150E	0.031	5	11	0.18	79	0.031	<20	1.16	0.011	0.03	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	0.3
L750S 0+175E	0.036	49	42	0.91	233	0.038	<20	2.06	0.015	0.05	<0.1	0.02	6.6	0.1	<0.05	5	<0.5	0.4
L750S 0+200E	0.035	9	40	0.72	222	0.046	<20	2.35	0.015	0.05	<0.1	0.02	3.8	<0.1	<0.05	7	0.5	0.5
L800S 0+200W	0.066	3	12	0.6	82	0.166	<20	2.18	0.015	0.1	0.3	0.04	6.1	<0.1	<0.05	10	0.6	0.2
L800S 0+175W	0.058	3	18	0.62	85	0.132	<20	2.4	0.015	0.07	0.2	0.03	4.8	<0.1	<0.05	9	<0.5	0.6
L800S 0+150W	0.082	5	17	0.91	112	0.206	<20	3.27	0.014	0.13	0.3	0.04	9	0.1	<0.05	11	0.6	0.5
L800S 0+125W	0.068	3	15	1.12	87	0.225	<20	3.11	0.017	0.1	0.4	0.05	11.1	0.1	<0.05	11	0.7	<0.2
L800S 0+25W	0.064	4	37	0.86	101	0.124	<20	2.57	0.012	0.06	0.1	0.03	6.5	<0.1	<0.05	9	<0.5	<0.2
L800S 0+50E	0.052	3	18	0.34	81	0.066	<20	1.64	0.013	0.03	0.1	0.05	1.9	<0.1	<0.05	7	<0.5	0.3
L800S 0+75E	0.061	4	29	0.51	90	0.05	<20	1.67	0.009	0.04	<0.1	0.05	2.3	<0.1	<0.05	6	<0.5	0.3
L800S 0+100E	0.053	5	34	0.63	120	0.052	<20	2.01	0.01	0.05	<0.1	0.03	3.2	<0.1	<0.05	7	<0.5	0.3
L800S 0+125E	0.034	15	37	0.63	193	0.053	<20	2.23	0.014	0.05	<0.1	0.02	3.5	<0.1	<0.05	7	<0.5	0.5
L800S 0+150E	0.047	7	19	0.36	133	0.029	<20	1.28	0.008	0.04	0.2	0.09	1.7	<0.1	<0.05	5	<0.5	0.4
L800S 0+175E	0.033	5	33	0.55	135	0.048	<20	2.07	0.01	0.05	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	0.4

	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
L450S +125W	0.091	3	23	0.32	46	0.068	<20	1.8	0.009	0.02	0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
L450S +125W	0.092	3	23	0.35	45	0.073	<20	1.89	0.01	0.02	0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
L550S +150E	0.051	4	38	0.63	68	0.052	<20	2.03	0.007	0.04	0.1	0.02	3	<0.1	<0.05	6	<0.5	<0.2
L550S +150E	0.044	4	38	0.63	67	0.048	<20	2.01	0.009	0.04	<0.1	0.05	3	<0.1	<0.05	6	<0.5	0.4
L350S +75W	0.052	1	7	0.06	21	0.07	<20	0.85	0.013	0.02	<0.1	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
L350S +75W	0.049	1	7	0.06	20	0.069	<20	0.82	0.014	0.02	<0.1	0.04	0.7	<0.1	<0.05	5	<0.5	<0.2
L700S 0+25E	0.066	20	21	0.4	147	0.111	<20	2.73	0.02	0.04	0.1	0.06	3.3	0.1	<0.05	8	<0.5	0.4
L700S 0+25E	0.057	19	21	0.39	137	0.106	<20	2.48	0.02	0.03	0.1	0.04	3.1	0.1	<0.05	8	<0.5	0.6
L800S 0+175E	0.033	5	33	0.55	135	0.048	<20	2.07	0.01	0.05	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	0.4
L800S 0+175E	0.033	5	35	0.54	132	0.047	<20	2.08	0.009	0.05	0.1	0.02	2.8	<0.1	<0.05	7	<0.5	0.4
Reference Materials																		
STD DS9	0.085	11	113	0.58	283	0.103	<20	0.88	0.069	0.37	2.7	0.21	2.1	5.3	0.12	4	4.8	4.7
STD OREAS45E/	0.025	6	713	0.08	126	0.081	<20	2.47	0.016	0.04	<0.1	0.01	66.2	<0.1	<0.05	10	0.7	<0.2
STD DS9	0.083	13	118	0.69	312	0.11	<20	0.96	0.084	0.38	2.6	0.22	2.5	5.3	0.17	4	7.1	6
STD OREAS45E/	0.027	6	764	0.1	136	0.082	<20	2.66	0.022	0.05	<0.1	0.01	73.2	<0.1	<0.05	12	1	0.2
STD DS9	0.084	12	114	0.62	323	0.107	<20	0.92	0.084	0.39	3	0.2	2.2	5.3	0.13	4	5.2	4.4
STD OREAS45E/	0.025	7	811	0.09	149	0.089	<20	2.73	0.022	0.05	<0.1	<0.01	73.7	<0.1	<0.05	13	0.7	<0.2
STD DS9	0.078	13	113	0.62	328	0.103	<20	0.9	0.084	0.39	2.4	0.23	2.4	5.4	0.11	4	4.2	5.5
STD OREAS45E/	0.026	7	802	0.09	145	0.089	<20	2.9	0.019	0.05	<0.1	0.01	73	<0.1	<0.05	12	0.9	<0.2
STD DS9	0.087	13	119	0.6	334	0.111	<20	0.94	0.081	0.42	2.5	0.23	2.3	5.4	0.14	5	5.3	5.3
STD OREAS45E/	0.029	7	802	0.09	147	0.087	<20	2.85	0.019	0.05	<0.1	<0.01	76.6	<0.1	<0.05	12	0.7	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2