EXPLORATION REPORT

ON

MMI SOIL GEOCHEMISTRY SURVEY

WITHIN THE

ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA

KAMLOOPS MINING DIVISION, BRITISH COLUMBIA

LOCATED: 15 km east of the village of Lytton
50° 14' North Latitude, and 121° 23' West Longitude
NTS: 92I/03, 06

WRITTEN FOR: **SITKA HOLDINGS LTD.**
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SUMMARY

MMI (mobile metal ion) soil sampling was carried out on the Ashton Copper Prospect during the explorations season of 2012. The survey was an extension of work done in 2006, 2007 and 2009. The grid is located approximately 19 km east of the village of Lytton and approximately 45 km northwest of the city of Merritt within the Kamloops Mining Division of B.C.

The main purpose of exploration on this property is to locate sulphide mineralization in the style of a porphyry copper deposit. Hydrothermal gold mineralization may also exist on the property and thus this is also an exploration target.

The 2012 MMI survey consisted of 41 samples along 2 lines (3900N & 4000N) over 1,950 meters. These were bagged and sent to SGS Laboratories in Toronto, Ontario for analysis where they were tested for 53 elements. The results for nine of these, namely, silver, arsenic, gold, cobalt, copper, molybdenum, nickel, lead, and zinc were divided by their respected mean background values to obtain a value called a response ratio. Stacked histograms were then made of the response ratios as well as plan maps.

CONCLUSIONS

The results reveal a copper anomaly within the northern part of the grid suggesting the possibility of copper mineralization occurring within this area and to the north. A zinc anomalous area occurs to the immediate south which is a typical signature of a porphyry copper deposit. Gold anomalies also occur to the south which could be reflecting hydrothermal gold mineralization which is also typical of copper porphyry deposits.

RECOMMENDATIONS

The MMI sampling should be continued to the north of the grid area and this should be followed by IP and resistivity surveying...

EXPLORATION REPORT

ON

MMI SOIL GEOCHEMISTRY SURVEY

WITHIN THE

ASHTON GOLD PROSPECT

NICOAMEN, LYTTON AREA

KAMLOOPS MINING DIVISION, BRITISH COLUMBIA

INTRODUCTION AND GENERAL REMARKS

This report discusses survey procedure, compilation of data, interpretation methods, and the results of MMI soil sampling carried out on the Ashton Copper which is located to due east of Lytton, BC, and is owned by Sitka Holdings Ltd.

The exploration work was carried out by a Geotronics Consulting Inc. crew of two men, supervised by the writer, during the period of November 17th to 21st, 2012. The amount of work carried out was as follows:

The main purpose of exploration on this property is to locate sulphide mineralization in the style of a porphyry copper deposit. Hydrothermal gold mineralization may also exist on the property and thus this is also an exploration target.

The purpose of the MMI soil sampling is to look for mineralization directly. MMI stands for mobile metal ions and describes ions, which have moved in the weathering zone and that are weakly or loosely attached to surface soil particles. MMI, which requires special sampling and testing techniques, are particularly useful in responding to mineralization at depth probably in excess of 700 meters. It also is not affected by glacial till, while standard soil sample techniques are. MMI is characterized in having a high signal to noise ratio and therefore can provide accurate drill targets. However, it may also move along fault lines and therefore could show the causative source to be laterally moved from where it actually is.

Sections of this report are taken from Peter Read's 2011 report (ARIS #32,430).

PROPERTY AND OWNERSHIP

The Ashton Copper Prospect is comprised of 7 mineral claims covering a total area of 1,429 hectares as described as follows and as shown on fig. 3.

Tenure Number	Type	Claim Name	Good Until	Area (ha)
369944	Mineral	REBECCA 2	20160817	375
537356	Mineral		20150817	186.014
537357	Mineral		20150817	227.281
537358	Mineral		20150817	144.62
537359	Mineral		20150817	413.333
537360	Mineral		20150817	62
598590	Mineral	FINAL 1	20170817	20.6701

Total Area: 1428.9181 ha

The property is owned by Sitka Holdings Ltd. of Vancouver, British Columbia.

LOCATION AND ACCESS

In southern British Columbia, the Ashton Copper Prospect lies approximately 170 km in a direct line northeast from Vancouver. It is about 19 km south of Spences Bridge on the left bank of the Thompson River where the river turns sharply from south-flowing to a west course towards Lytton at the confluence of the Thompson and Fraser rivers. The property adjoins and lies directly south of the Nicomen #1 Indian Reservation, which straddles the mouth of Nicoamen River, and extends to or slightly beyond the height of land near the southern boundary of the property.

The northern boundary of the property lays a few hundred metres south of the Trans Canada Highway and the mainline of the Canadian Pacific Railway. Near the mouth of the Nicoamen River, an unmaintained, gravel forestry access road, twists uphill to the south, bisects the property and provides access to branch roads that range from drive able to walk able with difficulty. This road system provides ready access to the areas of geochemical and geophysical anomalies.

PHYSIOGRAPHY

The claims cover an area of moderate to steep topographical relief. The central and western part of the claims are traversed by a multiple switchback road that climbs the east side of the Thompson River canyon rising from the canyon bottom at 700 feet (213m) elevation to a saddle between two peaks at 3,500 feet (1,070 m) elevation within a distance of 2 miles (3.2 km). This represents an average mountain slope of about 25%. Locally the relief is moderate to steep, yet relatively accessible on old logging roads by foot from the main switchback road. Off-road travel requires extra exertion to negotiate the steep slopes. The steeper slopes are covered with scree and/or talus. Depth of overburden in the 1993 drilled area ranged between 10 feet to 27 feet in the area of Porphyry 1 between Lines 4600 North and 5100 North and west of Station 300 East. Northwesterly from that area, at Line 5300 North, Station 400 East depth of overburden is 130 feet.

The area of interest is part of the Cascade Mountains which are separated from the Coast Mountains to the west by the Fraser River. The Thompson River meets the Fraser River at Lytton about 8 miles (13 km) west from the property.

The Cascade Mountains are lower and less rugged than the Coast Mountains and generally consist of rolling and rounded summits, which is the case at the higher elevations on this property.

Generally, southern and western exposures on the property tend to be more open and easier to traverse, whereas northern and eastern slopes, and ravines, are much more heavily wooded. The area of interest on the property is a combination of westerly and northerly facing slopes that in places are open and in places are difficult to negotiate. Where old growth logging has occurred new growth is represented by denser deciduous trees and in places dense underbrush makes it difficult to traverse.

Conifer species in the area include Douglas Fir, Balsam, Spruce, and Lodgepole Pine.

Outcrop is generally lacking throughout the area of interest, so trenching is required to access the bedrock for mapping and sampling. Exposed outcrop over the entire property is estimated at not more than 10% of the surface area.

Overburden found in the percussion drill hole program of 1993 ranged in depth from 10 feet to 130 feet.

PREVIOUS WORK

The first recorded exploration work in part of the area now occupied by the Ashton Copper Prospect was a soil geochemical survey for copper by Burgoyne (1969). It outlined a large area of anomalous copper in soils. Antal (1969) extended the copper soil geochemical survey area, reported on four trenches, apparently did some geological mapping and concluded that the area had the potential for hosting a large low-grade copper deposit at depth. W. F. Filipek and Associates of Alberta were believed to be the claim owners.

In 1989 and 1990, Ashton (1990) carried out a very low frequency electromagnetic VLF-EM survey over the northern half of the copper anomaly area outlined by Burgoyne and Antal between lines 5000N and 6400N. This work outlined a prominent north-striking magnetic anomaly between lines 5300N and 5700N with a maximum amplitude response of 5,600 gammas above background. The half-space dimension of this anomaly is about 500 m north-south by 200 m east-west. The claim owner was now Sylvia Apchkrum.

In 1992 Kingston Resources Ltd. optioned the property from the recorded owner S.E. Apchkrum and Smith (1993a; 1993b) carried out geochemical sampling and a limited mapping program to confirm the copper anomaly discovered by Burgoyne. In addition, they sampled areas farther to the west and southwest of the original anomalous area enlarging it but leaving it open to the north. Kingston Resources then used an induction polarization survey over part of the copper anomaly focused on the altered diorite (Smith, 1993b). As a result of discovering a significant induced polarization chargeability anomaly coinciding with the copper anomaly and altered diorite, the company undertook a seven-hole reverse circulation drilling program totaling 816 m.

In 1999, a deep-probe IP survey showed a very strong conductivity anomaly at 120 m depth below the coincident VLF-EM and copper-in-soil anomalies. The conductor was estimated to be about 100 m thick and dip about 40°E (**). The claims were owned by Sylvia Apchkrum and J. M. Ashton.

Magnetic surveying in 2001 extended the 1990 survey further to the south to cover the northern half of the 1999 IP chargeability anomaly. This survey showed anomalous magnetic results of various widths trending north.

In 2004 a second reconnaissance deep-probe IP survey similar to the 1999 survey was completed in an east to west direction across the 4,000 gamma magnetic anomaly. This line was 425 m north and parallel to the 1999 deep-probe east-west IP line. The results showed significant chargeability anomalies (indicating disseminated sulphides) on both sides of the magnetic anomaly extending to a penetration depth of 420 m. The claims were held by record by J. M. Ashton.

In 2006, arsenic in-soils geochemical data from the 1993 soil survey were plotted. Arsenic anomalies were found adjoining the copper-vanadium anomaly to the south. Follow up prospecting in this area along with rock sampling showed anomalous gold pathfinder elements Te, Hg, As, Sb, Se and Ag. These results led to a multi-element Mobile Metal Ion (MMI) geochemical survey over two lines to the south of the 1992 copper-vanadium anomaly.

In 2007 an additional three lines of MMI sampling extended the MMI surveying a further 300 m to the south from the 2006 survey. As for the 2006 survey, samples were taken every 50 m along east-west survey lines of 1.4 km in length with 100 m line spacing for a total of five lines sampled. The total area covered in the combined 2006 and 2007 MMI surveys was 560,000 m^2. The target element was gold. The areal extent of anomalous MMI gold was found to be 450,000 m^2 in two large anomalies. The central area of each contains anomalous arsenic. As of 2007, all of the claims were held by record by Sitka Holdings Ltd.

In 2009, additional total field magnetic surveying provided further coverage of the area of interest to the south. A small amount of self-potential surveying was also completed.

GEOLOGY

a) Regional

As described by S.W. Smith, Geologist, in his 1993 Assessment Work Report, the property straddles the boundary between the older Upper Triassic Mount Lytton Complex on the west side and the younger Middle to Upper Cretaceous Spences Bridge Group on the east.

The oldest rocks which are part of the Mount Lytton Complex occupy the area to the west of the property and may underly the property to some extent. These are layered quartz-feldspathic orthogneisses, mafic to dioritic volcanics, and metasediments. Monger (2001) states that the Mount Lytton Complex in this area is overlain stratigraphically by, and elsewhere faulted against continental arc and intraplate volcanics of the 104 Ma Spences Bridge Group. According to Gale (1992) in a personal communication with Monger, Monger believes the limy rocks on the property are part of the Mount Lytton Complex and whether they are part of this oldest unit or are somewhat younger is still to be determined.

The Mount Lytton Complex has been interpreted by Monger to be part of the roots of the Late Triassic Nicola arc. The complex is fault bounded, on the west by the Fraser River fault system, and on the east by normal faults along the Thompson River. The Mount Lytton Pluton that is part of the complex has been age-dated at 212 ± Ma (Parrish and Monger, 1992), which is very close to some dates reported from the central Guichon Batholith, which is located about 40 km to the northeast and contains the world-class Highland Valley ore bodies. Parrish and Monger interpret the Mount Lytton Complex and Guichon Batholith bodies to be part of the Upper Triassic magmatic arc complex that characterizes Quesnellia terrane, but state that they were probably emplaced at different structural levels, as suggested by their contrasting settings.

Monger speculates that the major structures that form the Guichon Batholith and the Mount Lytton Complex are related to early Mesozoic subduction/arc activity; those in the Guichon Batholith having formed in the upper part of the upper plate and those in the Mount Lytton Complex having formed in the lower part of the upper plate.

Gale (1993) believed the most interesting feature of the regional geology is the pronounced east-west structural grain of the Triassic rocks east of Lytton which appears to be abruptly terminated at its eastern end by one or more north-south faults along and parallel to the Thompson River. It is at the junction of these two strong structures that the Ashton Project is located. He also states that the series of north-south faults along the Thompson River are parallel to and probably similar in age to those along the Fraser River which are thought to be Early Tertiary in age.

Middle and Upper Cretaceous Spences Bridge Group rocks appear to unconformably overly rocks of the older Mount Lytton complex comprised of limy volcanics and limy sediments on the east side of the property. Here the Spences Bridge Group consists of an unaltered upper reddish coloured andesitic volcanic and may include locally felsic and mafic flows and pyroclastics along with sandstone, shale and conglomerate beds. A major fault passes through the Spences Bridge Group on the east central part of the property and/or may represent the boundary between the Mount Lytton Complex and the Spences Bridge Group.

However exploration work conducted on the property from 1994 through to 1999, and in 2004, indicates that the property geology, a component of the regional picture, appears to be distinctively different from its contiguous neighbours, the Mount Lytton Complex to the west and the Spences Bridge Group to the east yet similar to the rocks to the north of the property across the Thompson River which were mapped by Brown (1981) as layered quartzo-feldspathic rocks in contact with weakly foliated plutonic zones ranging from tonalite through to diorite to gabbro.

This similarity was noted by Reid (1995) as a result of his thin section studies of rock chips recovered from a drilling part of the intrusive complex on the property. Reid concluded that rock types similar to those that Brown identified north of the property also underlie the property.

Monger shows the rocks mapped by Brown to the north of the property as younger granodiorite-quartz monzonite intrusions of the Mount Lytton Batholith

Thin section work by Reid (1995) shows that the intrusive rocks on the property are similar to those identified by Brown north of the property. The intrusive complex may share some similarities to both the dioritic and amphibolitic intrusions in the Mount Lytton Batholith and to the tonalite intrusions found associated with the younger granodiorite-quartz monzonite intrusions to the northwest of the property across the Thompson River.

b) Property

The most recent regional geological mapping is that of Monger and McMillian (1989) which shows the property lies at the northeast corner of the Triassic to Jurassic Mount Lytton Complex where the Late Cretaceous volcanic and sedimentary rocks of the Spences Bridge Group nonconformably overlie the complex. On the property, the units of the complex and overlying rocks are described in order of decreasing age.

(a) Marble and Skarn (unit Is)

Marble and skarn form a few road cuts along the forestry access road near the pass at 1080 m and a precipitous cliff forming peak 1191m near the southern edge of the property. An old trench north-northwest of peak 1191m exposes a north-trending sliver of marble. Skarn also occurs in the following reverse circulation holes: RCA93-1 at 390-430', RCA93-4 at 80-100', RCA93-5 at 120¬150' and 340-400' (Read, 1999).

Typically the unit consists of light grey weathering, white crystalline (1-2 mm) marble. Here and there streaks of red-brown andradite garnet and pale green diopside develop giving rise to a skarn. The thin-sectioned rock chips from the reverse-circulation holes indicate that wollastonite and tremolite-actinolite are part of the skarn assemblages.

The few bedding measurements strike northwesterly and are subvertical in dip. Only the bedding in the northernmost outcrop strikes north and dips steeply to the west. This attitude is consistent with the geophysical anomalies, which lie in an overburden covered area to the north.

The age and correlation of the unit are unknown, but it may be part of the Nicola Group of Middle and Late Triassic. In view of the metamorphism of the rocks, a correlation with Lower Jurassic limestone of the Ashcroft Formation of post-Guichon Batholith age is less likely. Rocks of both units outcrop in Venables Creek about 30 km north of the property.

(b) Hornblende/Pyroxene Diorite/Gabbro (unit TiJd)

In the southwest corner of the property, road cuts expose this unit where it is free of felsite dikes and alteration. Elsewhere on the property, it outcrops on along a few of the old logging roads and trenches to the west of the forestry access road in the southern half of the property.

Where fresh, the rocks are medium-grained (2 to 4 mm) hornblende and/or pyroxene diorite or gabbro. Some of the pyroxene gabbro has up to 5% accompanying biotite. Although not seen in outcrop, the reverse-circulation holes indicate that pyroxenite and hornblendite are also present (Read, 1999). Where altered, the mafic minerals are chloritized with tremolite-actinolite developed and the plagioclase is epidotized and converted to albite. In one thin-sectioned sample, tourmaline forms 20% of the rock (Read, 2000). The unit is usually altered close to the forestry access road where it is felsite-diked.

Although these rocks are not radiometrically dated in the area, they are cut southwest of here by granodiorite with a zircon U-Pb age 212 ± 1 Ma (Parrish and Monger, 1992), which is similar to the Guichon Batholith. The presence of intruded marbles, probably correlative to the Nicola Group, imply that these intrusions can be no older than Middle to Late Triassic.

(c) Felsite (unit RJf)

West of the forestry access road, a few old logging road cuts expose felsite. The rocks are light grey to cream and aphanitic. Also included is a quartz-eye felsite porphyry dike.

The age of the unit is uncertain and could range from Early Jurassic to as late as Middle to Late Cretaceous, if they represent feeders to the flows of the Spences Bridge Group.

(d) Spences Bridge Group - Pimainus Formation (UKSB)

Where the forestry access road zigzags uphill to the south, the road cuts in the upper half, before the pass, expose andesite and dacite flows. Cliffs extend eastward and span Nicoamen River valley to the eastern edge of the property. Near the southern edge of the property, flows cap at least one high point.

The flows are amygdaloidal with quartz, calcite, prehnite and zeolites forming the amygdules. The grey to brown flows are aphyric to plagiophyric and locally show platy jointing. The flows forming the cap are aphanitic and nonamygdaloidal andesite and dacite.

On the property, the platy jointing attitudes show that the rocks of the Spences Bridge Group dip gently to the northeast consistent with the trace of the unexposed contact of the Spences Bridge Group against the underlying rocks. This contact is exposed to within 5 m on the right bank of Nicoamen River a few hundred metres upstream from the TransCanada Highway where it shows no signs of faulting (station AC6b). The most likely interpretation of the nature of the contact between the Spences Bridge Group and the underlying rocks is that it represents an unconformity or nonconformity with significant paleo-relief, rather than the faulted boundary shown by Monger and McMillian (1989).

MMI SOIL SAMPLING

(a) Sampling Procedure

41 samples along 2 lines (3900N & 4000N) over 1,950 meters

The MMI survey consisted of 41 samples over 2 lines (3900N & 4000N) covering 1,950 meters. The line spacing was 50 meters and the sample spacing was 50 meters. The 2012 work was an extension of work carried out in 2006, 2007, and 2009. The total previous work consisted of 134 samples over 5 lines (4100N to 4500N) with a line spacing of 100 meters and a sample spacing of 50 meters. The previous surveys covered 6,750 meters.

The survey line was emplaced while the sampling was being carried out by blazing trees and by blaze orange flagging. Each sample spot was marked by a 60 cm wooden picket with an aluminum tag stapled to it and the grid coordinates marked thereon.

The sampling procedure was to first remove the organic material from the sample site (A_0 layer) and then dig a pit over 25 cm deep with a shovel. Sample material was then scraped from the sides of the pit over the measured depth interval of 10 centimeters to 25 centimeters. About 250 grams of sample material was collected and then placed into a plastic Zip-loc sandwich bag with the sample location marked thereon. The 111 samples were then packaged and sent to SGS Minerals located at 1885 Leslie Street, Toronto, Ontario. (This is only one of two labs in the world that do MMI analysis, the other being in Perth, Australia where the MMI method was developed.)

(b) Analytical Methods

At SGS Minerals, the testing procedure begins with weighing 50 grams of the sample into a plastic vial fitted with a screw cap. Next is added 50 ml of the MMI-M solution to the sample, which is then placed in trays and put into a shaker for 20 minutes. (The MMI-M solution is a neutral mixture of reagents that are used to detach loosely bound ions of any of the 46 elements from the soil substrate and formulated to keep the ions in solution.) These are allowed to sit overnight and subsequently centrifuged for 10 minutes. The solution is then diluted 20 times for a total dilution factor of 200 times and then transferred into plastic test tubes, which are then analyzed on ICP-MS instruments.

Results from the instruments for the 46 elements are processed automatically, loaded into the LIMS (laboratory information management system which is computer software used by laboratories) where the quality control parameters are checked before final reporting.

(c) Compilation of Data

Nine elements, or metals, were chosen out of the 46 reported on, these were silver, arsenic, gold, cobalt, copper, molybdenum, nickel, lead, and zinc. The mean background value was calculated for each of the nine metals and this number was then divided into the reported value for that metal to obtain a figure called the response ratio.

The mean background values for the nine main elements are as follows:

Ag	As	Au	Co	Cu	Mo	Ni	Pb	Zn
8.8	5	0.05	13.7	562.3	2.5	20.6	8.6	74.5

Fourteen stacked histograms were then made of the response ratios for each of the nine metals as shown on figures H1A to H7B. Further, plan maps were made for each metal as shown on figures GC-1 to GC-9.

DISCUSSION OF RESULTS

The results reveal a copper anomaly within the northern part of the grid suggesting the possibility of copper mineralization occurring within this area and to the north. A zinc anomalous area occurs to the immediate south which is a typical signature of a porphyry copper deposit. Gold anomalies also occur to the south which could be reflecting hydrothermal gold mineralization which is also typical of copper porphyry deposits.

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GEOPHYSICIST'S CERTIFICATE

I, DAVID G. MARK, of the City of Surrey, in the Province of British Columbia, do hereby certify that:

I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

I am a Consulting Geophysicist of Geotronics Consulting Inc., with offices at 6204 – 125th Street, Surrey, British Columbia.

I further certify that:

1. I am a graduate of the University of British Columbia (1968) and hold a B.Sc. degree in Geophysics.
2. I have been practicing my profession for the past 42 years, and have been active in the mining industry for the past 45 years.
3. This report is compiled from data obtained from MMI soil sampling surveys carried out by a crew of Geotronics Consulting a line within the Ashton Copper Prospect during the exploration season of 2012.
4. I do not own any part of this property nor do I expect to receive any interest as a result of writing this report.

David G. Mark, P.Geo. January 13th, 2014
Geophysicist

AFFIDAVIT OF EXPENSES

MMI soil sample surveying along with grid emplacement was carried out over the Ashton Copper Prospect, located 15 km east of the village of Lytton, B.C, during the exploration season of 2012 to the value of the following:

MOB/DEMOB:(at cost)		
Crew wages	700.00	
Truck rental and gas	350.00	
Room and board	205.00	
TOTAL	1,255.00	1,255.00
FIELD:		
MMI Sampling and Grid Emplacement,		
2-man crew 3 days @ $1,200/day	3,750.00	
Shipping costs	65.00	
TOTAL	3,815.00	3,815.00
LABORATORY:		
Testing of 41 samples @ $40/sample	1,640.00	1,640.00
DATA REDUCTION and REPORT:		
Senior Geophysicist, 16 hr @ $75/hr	1,200.00	
Geophysical technician, 20 hr @ $50/hr	1,000.00	
Report compilation, photocopying, etc	50.00	
TOTAL	2,250.00	2,250.00
GRAND TOTAL		8,960.00

Respectfully submitted,
Geotronics Consulting Inc.

David G. Mark, P.Geo,
Geophysicist

January 14th, 2014

APPENDIX –GEOCHEMISTRY DATA

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu	Dy
DETECTION			1	1	10	0.1	10	1	10	10	5	5	100	10	1
UNITS			PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
-700	4100N	700W	10		0.5	0.05		0.5			6	14		1500	
-650	4100N	650W	14		0.5	0.05		0.5			22	15		1110	
-600	4100N	600W	10		0.5	0.05		0.5			5	7		1400	
-550	4100N	550W	10		0.5	0.05		0.5			7	8		1180	
-500	4100N	500W	7		0.5	0.05		0.5			61	37		850	
-450	4100N	450W	9		0.5	0.05		0.5			51	39		290	
-400	4100N	400W	9		0.5	0.05		0.5			59	18		370	
-350	4100N	350W	11		0.5	0.05		0.5			44	23		260	
-300	4100N	300W	6		0.5	0.05		0.5			37	23		230	
-250	4100N	250W	15		0.5	0.05		0.5			14	11		330	
-200	4100N	200W	17		0.5	0.3		0.5			27	43		2150	
-150	4100N	150W	17		10	0.2		0.5			29	17		1440	
-100	4100N	100W	13		0.5	1.3		0.5			21	24		1000	
-50	4100N	50W	56		0.5	0.8		0.5			13	21		660	
0	4100N	0	28		10	1.2		0.5			82	94		990	
50	4100N	50E	27		0.5	0.9		0.5			76	111		650	
100	4100N	100E	60		10	2.2		0.5			22	27		930	
150	4100N	150E	5		0.5	0.1		0.5			238	21		620	
200	4100N	200E	10		10	0.2		0.5			124	93		1000	
250	4100N	250E	8		0.5	0.05		0.5			65	39		560	
300	4100N	300E	53		30	1.7		0.5			2.5	26		630	
350	4100N	350E	10		30	0.7		0.5			2.5	165		1190	
400	4100N	400E	25		40	0.5		0.5			2.5	35		670	
450	4100N	450E	58		70	1.8		0.5			2.5	128		3870	
500	4100N	500E	22		30	0.9		0.5			2.5	568		21800	
550	4100N	550E	68		70	1.5		0.5			2.5	59		2220	
600	4100N	600E													
650	4100N	650E	26		0.5	0.3		0.5			2.5	12		630	
700	4100N	700E	40		40	3.1		0.5			8	67		3180	
-700	4200N	700W	11		0.5	0.05		0.5			26	49		1180	
-650	4200N	650W													
-600	4200N	600W	18		0.5	0.1		0.5			37	36		1460	
-550	4200N	550W	7		0.5	0.05		0.5			98	31		1040	
-500	4200N	500W	11		0.5	0.05		0.5			49	15		840	
-450	4200N	450W	6		0.5	0.05		0.5			98	13		330	
-400	4200N	400W	28		0.5	0.4		0.5			54	37		2050	
-350	4200N	350W	7		10	0.05		0.5			12	15		1530	
-300	4200N	300W	29		20	1.6		0.5			24	36		4100	
-250	4200N	250W	24		110	0.8		0.5			5	22		2530	
-200	4200N	200W	36		210	1.1		0.5			5	61		3190	
-150	4200N	150W	21		160	0.5		0.5			2.5	82		2640	
-100	4200N	100W	43		100	2.6		0.5			2.5	143		3140	
-50	4200N	50W	69		250	3.4		0.5			2.5	78		2960	
0	4200N	0	54		10	1.2		0.5			13	71		3070	
50	4200N	50E	21		0.5	0.3		0.5			42	95		1880	
100	4200N	100E	72		20	1.9		0.5			18	118		1920	
150	4200N	150E	11		0.5	0.05		0.5			22	34		490	
200	4200N	200E	18		0.5	0.05		0.5			62	96		1110	

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd
DETECTION			0.5	0.5	1	1	1	5	1	5	0.5	1	5	10	1
UNITS			PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
-700	4100N	700W								2.5			33	0.5	
-650	4100N	650W								2.5			44	20	
-600	4100N	600W								2.5			22	10	
-550	4100N	550W								2.5			57	10	
-500	4100N	500W								2.5			213	20	
-450	4100N	450W								2.5			390	10	
-400	4100N	400W								2.5			371	10	
-350	4100N	350W								2.5			477	0.5	
-300	4100N	300W								2.5			367	0.5	
-250	4100N	250W								2.5			384	0.5	
-200	4100N	200W								2.5			292	30	
-150	4100N	150W								7			80	10	
-100	4100N	100W								2.5			102	10	
-50	4100N	50W								2.5			59	30	
0	4100N	0								8			378	20	
50	4100N	50E								8			93	20	
100	4100N	100E								5			53	100	
150	4100N	150E								2.5			117	60	
200	4100N	200E								2.5			260	100	
250	4100N	250E								2.5			68	40	
300	4100N	300E								2.5			50	30	
350	4100N	350E								12			54	10	
400	4100N	400E								9			114	0.5	
450	4100N	450E								16			158	310	
500	4100N	500E								15			127	20	
550	4100N	550E								7			56	1250	
600	4100N	600E													
650	4100N	650E								2.5			39	10	
700	4100N	700E								20			187	20	
-700	4200N	700W								2.5			55	20	
-650	4200N	650W													
-600	4200N	600W								2.5			265	30	
-550	4200N	550W								2.5			239	20	
-500	4200N	500W								2.5			206	20	
-450	4200N	450W								2.5			267	10	
-400	4200N	400W								2.5			571	0.5	
-350	4200N	350W								2.5			224	20	
-300	4200N	300W								2.5			201	30	
-250	4200N	250W								2.5			75	10	
-200	4200N	200W								2.5			66	0.5	
-150	4200N	150W								6			85	10	
-100	4200N	100W								6			78	70	
-50	4200N	50W								2.5			123	10	
0	4200N	0								2.5			13	40	
50	4200N	50E								2.5			16	50	
100	4200N	100E								2.5			31	30	
150	4200N	150E								2.5			12	150	
200	4200N	200E								2.5			149	60	

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
DETECTION			1	5	1	5	1	1	10	1	1	10	0.5	3	0.5
UNITS			PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
-700	4100N	700W													
-650	4100N	650W													
-600	4100N	600W													
-550	4100N	550W													
-500	4100N	500W													
-450	4100N	450W													
-400	4100N	400W													
-350	4100N	350W													
-300	4100N	300W													
-250	4100N	250W													
-200	4100N	200W													
-150	4100N	150W													
-100	4100N	100W													
-50	4100N	50W													
0	4100N	0													
50	4100N	50E													
100	4100N	100E													
150	4100N	150E													
200	4100N	200E													
250	4100N	250E													
300	4100N	300E													
350	4100N	350E													
400	4100N	400E													
450	4100N	450E													
500	4100N	500E													
550	4100N	550E													
600	4100N	600E													
650	4100N	650E													
700	4100N	700E													
-700	4200N	700W													
-650	4200N	650W													
-600	4200N	600W													
-550	4200N	550W													
-500	4200N	500W													
-450	4200N	450W													
-400	4200N	400W													
-350	4200N	350W													
-300	4200N	300W													
-250	4200N	250W													
-200	4200N	200W													
-150	4200N	150W													
-100	4200N	100W													
-50	4200N	50W													
0	4200N	0													
50	4200N	50E													
100	4200N	100E													
150	4200N	150E													
200	4200N	200E													

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			U	W	Y	Yb	Zn	Zr
DETECTION			1	1	5	1	20	5
UNITS			PPB	PPB	PPB	PPB	PPB	PPB
-700	4100N	700W	5	0.5			50	
-650	4100N	650W	4	0.5			250	
-600	4100N	600W	1	0.5			80	
-550	4100N	550W	5	0.5			240	
-500	4100N	500W	3	0.5			180	
-450	4100N	450W	3	0.5			230	
-400	4100N	400W	5	0.5			110	
-350	4100N	350W	8	0.5			60	
-300	4100N	300W	5	0.5			90	
-250	4100N	250W	7	0.5			70	
-200	4100N	200W	3	0.5			200	
-150	4100N	150W	4	0.5			970	
-100	4100N	100W	3	0.5			480	
-50	4100N	50W	2	0.5			7110	
0	4100N	0	7	0.5			1020	
50	4100N	50E	3	0.5			290	
100	4100N	100E	4	0.5			210	
150	4100N	150E	7	0.5			780	
200	4100N	200E	13	0.5			4170	
250	4100N	250E	6	0.5			200	
300	4100N	300E	4	0.5			220	
350	4100N	350E	5	0.5			60	
400	4100N	400E	6	0.5			760	
450	4100N	450E	6	0.5			1930	
500	4100N	500E	18	0.5			430	
550	4100N	550E	7	0.5			1090	
600	4100N	600E						
650	4100N	650E	4	0.5			940	
700	4100N	700E	7	0.5			300	
-700	4200N	700W	6	0.5			80	
-650	4200N	650W						
-600	4200N	600W	7	1			200	
-550	4200N	550W	9	1			100	
-500	4200N	500W	5	0.5			230	
-450	4200N	450W	11	0.5			190	
-400	4200N	400W	15	0.5			40	
-350	4200N	350W	8	0.5			320	
-300	4200N	300W	6	0.5			180	
-250	4200N	250W	5	0.5			1020	
-200	4200N	200W	3	0.5			1220	
-150	4200N	150W	2	0.5			1850	
-100	4200N	100W	5	0.5			2260	
-50	4200N	50W	10	0.5			690	
0	4200N	0	3	0.5			700	
50	4200N	50E	4	0.5			200	
100	4200N	100E	4	0.5			170	
150	4200N	150E	3	0.5			130	
200	4200N	200E	7	0.5			1860	

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu	Dy
DETECTION			1	1	10	0.1	10	1	10	10	5	5	100	10	1
UNITS			PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
250	4200N	250E	28		0.5	1.1		0.5			50	92		1290	
300	4200N	300E	49		20	1.9		0.5			65	128		2150	
350	4200N	350E	31		30	1.6		0.5			2.5	101		3480	
400	4200N	400E	28		160	0.8		0.5			7	105		3060	
450	4200N	450E	15		50	0.4		0.5			2.5	87		2010	
500	4200N	500E	42		70	0.9		0.5			2.5	78		3460	
550	4200N	550E	21		120	1.6		0.5			2.5	427		2980	
600	4200N	600E	50		50	4.5		0.5			12	181		7720	
650	4200N	650E													
700	4200N	700E	19		20	0.1		0.5			9	53		2020	
-700	4300N	700W	9		0.5	1		0.5			143	15		550	
-650	4300N	650W	11		0.5	0.05		0.5			6	11		1130	
-600	4300N	600W	20		0.5	0.5		0.5			67	47		2710	
-550	4300N	550W	17		0.5	0.05		0.5			15	7		320	
-500	4300N	500W	14		0.5	0.05		0.5			98	25		700	
-450	4300N	450W	38		0.5	1.6		0.5			61	287		6820	
-400	4300N	400W	9		0.5	0.05		0.5			52	8		1600	
-350	4300N	350W	22		10	0.3		0.5			62	94		4960	
-300	4300N	300W	9		50	0.1		0.5			2.5	8		410	
-250	4300N	250W	26		80	1.9		0.5			18	10		1510	
-200	4300N	200W	82		10	3.9		0.5			2.5	55		580	
-150	4300N	150W	11		10	0.05		0.5			24	36		1380	
-100	4300N	100W	36		40	0.1		0.5			6	18		2580	
-50	4300N	50W	17		30	0.05		0.5			12	37		1710	
0	4300N	0	25		20	0.05		0.5			31	14		1130	
50	4300N	50E	35		20	0.05		0.5			25	19		2340	
100	4300N	100E	42		0.5	0.2		0.5			13	54		1900	
150	4300N	150E	32		20	0.2		0.5			37	111		2910	
200	4300N	200E	30		40	0.2		0.5			53	49		1960	
250	4300N	250E	20		20	0.2		0.5			74	40		1390	
300	4300N	300E	25		40	3.2		0.5			25	87		900	
350	4300N	350E	198		220	34.2		0.5			2.5	239		2970	
400	4300N	400E	10		60	0.2		0.5			20	18		1600	
450	4300N	450E	31		30	2.4		0.5			2.5	169		2300	
500	4300N	500E	34		250	1.7		0.5			2.5	97		3190	
550	4300N	550E	15		50	0.05		0.5			22	25		1950	
600	4300N	600E	16		70	0.3		0.5			43	37		3050	
650	4300N	650E	28		20	0.2		0.5			6	25		1050	
700	4300N	700E	41		40	0.05		0.5			2.5	34		1550	
-450	4400N	450W	43	2	5	1.6	1040	0.5	840	0.5	9	81	0.5	4090	57
-400	4400N	400W	29	25	30	1	240	0.5	500	50	17	21	0.5	2050	14
-350	4400N	350W	33	13	20	0.05	530	0.5	680	40	31	36	0.5	1490	31
-300	4400N	300W	41	12	40	0.4	200	0.5	750	20	16	66	0.5	2450	22
-250	4400N	250W	20	21	10	0.1	1390	0.5	850	0.5	85	37	0.5	1650	50
-200	4400N	200W													
-150	4400N	150W	92	15	50	1.6	120	0.5	930	110	2.5	132	0.5	8380	4
-100	4400N	100W	12	36	140	1.7	190	0.5	1000	30	8	234	0.5	7060	15

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd
DETECTION			0.5	0.5	1	1	1	5	1	5	0.5	1	5	10	1
UNITS			PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
250	4200N	250E								2.5			157	140	
300	4200N	300E								12			143	2530	
350	4200N	350E								24			114	100	
400	4200N	400E								10			174	20	
450	4200N	450E								13			111	70	
500	4200N	500E								12			125	170	
550	4200N	550E								67			335	100	
600	4200N	600E								6			343	140	
650	4200N	650E													
700	4200N	700E								12			62	0.5	
-700	4300N	700W								2.5			236	20	
-650	4300N	650W								2.5			43	0.5	
-600	4300N	600W								2.5			329	30	
-550	4300N	550W								2.5			117	20	
-500	4300N	500W								2.5			196	20	
-450	4300N	450W								2.5			286	20	
-400	4300N	400W								2.5			364	30	
-350	4300N	350W								2.5			322	20	
-300	4300N	300W								5			78	40	
-250	4300N	250W								10			75	30	
-200	4300N	200W								2.5			112	30	
-150	4300N	150W								2.5			66	0.5	
-100	4300N	100W								2.5			21	0.5	
-50	4300N	50W								2.5			46	60	
0	4300N	0								2.5			13	160	
50	4300N	50E								2.5			24	140	
100	4300N	100E								5			14	40	
150	4300N	150E								2.5			40	90	
200	4300N	200E								2.5			56	80	
250	4300N	250E								2.5			141	60	
300	4300N	300E								11			141	20	
350	4300N	350E								15			234	0.5	
400	4300N	400E								8			89	60	
450	4300N	450E								10			93	0.5	
500	4300N	500E								15			189	0.5	
550	4300N	550E								5			77	100	
600	4300N	600E								6			126	310	
650	4300N	650E								9			74	420	
700	4300N	700E								35			57	80	
-450	4400N	450W	45.8	7.1	3	48	11	2.5	141	2.5	<0.5	37	119	30	0.5
-400	4400N	400W	9.1	3.2	23	15	9	2.5	18	2.5	<0.5	24	20	60	0.5
-350	4400N	350W	20.4	6.1	14	31	14	2.5	47	2.5	<0.5	44	30	90	0.5
-300	4400N	300W	16.4	4.1	7	21	3	2.5	70	6	<0.5	22	44	140	0.5
-250	4400N	250W	36.3	9.2	13	51	42	2.5	72	6	<0.5	100	73	130	0.5
-200	4400N	200W													
-150	4400N	150W	3.2	1.1	8	5	0.5	2.5	19	10	<0.5	2	43	330	0.5
-100	4400N	100W	10.5	3.3	13	13	2	2.5	32	15	<0.5	12	74	70	0.5

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ANALYTE			Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
DETECTION			1	5	1	5	1	1	10	1	1	10	0.5	3	0.5
UNITS			PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
250	4200N	250E													
300	4200N	300E													
350	4200N	350E													
400	4200N	400E													
450	4200N	450E													
500	4200N	500E													
550	4200N	550E													
600	4200N	600E													
650	4200N	650E													
700	4200N	700E													
-700	4300N	700W													
-650	4300N	650W													
-600	4300N	600W													
-550	4300N	550W													
-500	4300N	500W													
-450	4300N	450W													
-400	4300N	400W													
-350	4300N	350W													
-300	4300N	300W													
-250	4300N	250W													
-200	4300N	200W													
-150	4300N	150W													
-100	4300N	100W													
-50	4300N	50W													
0	4300N	0													
50	4300N	50E													
100	4300N	100E													
150	4300N	150E													
200	4300N	200E													
250	4300N	250E													
300	4300N	300E													
350	4300N	350E													
400	4300N	400E													
450	4300N	450E													
500	4300N	500E													
550	4300N	550E													
600	4300N	600E													
650	4300N	650E													
700	4300N	700E													
-450	4400N	450W	6	5	0.5	8	18	0.5	5310	0.5	7	0.5	0.5	<3	<0.5
-400	4400N	400W	5	44	0.5	21	9	0.5	1090	0.5	2	0.5	1.4	37	<0.5
-350	4400N	350W	8	26	0.5	18	17	0.5	1990	0.5	4	0.5	2.4	17	<0.5
-300	4400N	300W	4	14	0.5	9	11	0.5	2070	0.5	3	0.5	0.7	4	<0.5
-250	4400N	250W	19	19	0.5	27	31	0.5	4070	0.5	6	0.5	3.8	8	<0.5
-200	4400N	200W													
-150	4400N	150W	0.5	14	0.5	10	2	0.5	1390	0.5	0.5	0.5	<0.5	8	<0.5
-100	4400N	100W	2	23	0.5	16	6	0.5	1240	0.5	2	0.5	<0.5	12	0.6

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ANALYTE			U	W	Y	Yb	Zn	Zr
DETECTION			1	1	5	1	20	5
UNITS			PPB	PPB	PPB	PPB	PPB	PPB
250	4200N	250E	7	0.5			5390	
300	4200N	300E	7	0.5			2360	
350	4200N	350E	3	0.5			2490	
400	4200N	400E	4	0.5			2190	
450	4200N	450E	6	0.5			1580	
500	4200N	500E	5	0.5			2270	
550	4200N	550E	5	0.5			2540	
600	4200N	600E	6	0.5			2490	
650	4200N	650E						
700	4200N	700E	7	0.5			90	
-700	4300N	700W	13	0.5			90	
-650	4300N	650W	2	0.5			80	
-600	4300N	600W	6	0.5			230	
-550	4300N	550W	3	0.5			510	
-500	4300N	500W	6	0.5			90	
-450	4300N	450W	6	0.5			120	
-400	4300N	400W	2	0.5			2690	
-350	4300N	350W	15	0.5			190	
-300	4300N	300W	4	0.5			900	
-250	4300N	250W	3	0.5			210	
-200	4300N	200W	7	0.5			70	
-150	4300N	150W	2	0.5			310	
-100	4300N	100W	2	0.5			1500	
-50	4300N	50W	3	0.5			980	
0	4300N	0	4	0.5			680	
50	4300N	50E	3	0.5			380	
100	4300N	100E	5	0.5			760	
150	4300N	150E	10	0.5			2140	
200	4300N	200E	12	0.5			660	
250	4300N	250E	6	0.5			770	
300	4300N	300E	2	0.5			240	
350	4300N	350E	3	0.5			50	
400	4300N	400E	1	0.5			350	
450	4300N	450E	1	0.5			140	
500	4300N	500E	1	0.5			150	
550	4300N	550E	5	0.5			800	
600	4300N	600E	8	0.5			2530	
650	4300N	650E	6	0.5			1740	
700	4300N	700E	8	0.5			2470	
-450	4400N	450W	6	0.5	227	39	200	5
-400	4400N	400W	6	0.5	71	8	470	40
-350	4400N	350W	7	0.5	160	19	840	43
-300	4400N	300W	3	0.5	118	15	150	22
-250	4400N	250W	11	1	212	31	230	33
-200	4400N	200W						
-150	4400N	150W	2	0.5	26	3	2270	26
-100	4400N	100W	4	0.5	82	10	230	30

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ANALYTE			Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu	Dy
DETECTION			1	1	10	0.1	10	1	10	10	5	5	100	10	1
UNITS			PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
-50	4400N	50W	16	27	40	0.3	110	0.5	420	50	10	16	0.5	2210	4
0	4400N	0	44	40	20	0.4	270	0.5	520	20	17	92	0.5	2930	13
50	4400N	50E	62	20	10	0.4	470	0.5	640	40	49	125	0.5	4440	23
100	4400N	100E	53	37	5	0.6	400	0.5	700	0.5	18	122	0.5	1960	19
150	4400N	150E	72	88	5	0.5	450	0.5	390	30	29	178	0.5	2260	27
200	4400N	200E	54	48	5	0.6	980	0.5	640	20	37	82	0.5	1710	38
300	4400N	250E													
300	4400N	300E	41	3	20	0.6	210	0.5	960	20	7	40	0.5	1070	16
350	4400N	350E	23	7	50	0.4	160	0.5	940	50	10	73	0.5	1360	5
400	4400N	400E	25	17	40	0.6	210	0.5	720	80	33	114	0.5	2540	31
450	4400N	450E	39	45	40	0.2	210	0.5	630	80	9	44	0.5	3200	7
500	4400N	500E	55	14	30	0.4	370	0.5	820	20	9	249	0.5	6850	11
550	4400N	550E	17	33	5	0.9	380	0.5	790	0.5	30	94	0.5	4230	29
600	4400N	600E	28	19	20	1.1	680	0.5	1080	30	25	156	0.5	3080	20
650	4400N	650E	29	19	5	0.2	820	0.5	580	10	65	89	0.5	5290	25
700	4400N	700E	30	14	10	0.2	1060	0.5	720	30	56	104	0.5	5790	27
-700	4500N	700W	20	3	5	0.6	510	0.5	830	0.5	2.5	50	0.5	1700	21
-650	4500N	650W	22	26	5	0.4	380	0.5	710	10	5	31	0.5	4950	9
-600	4500N	600W	15	4	5	0.3	670	0.5	830	0.5	12	49	0.5	3040	13
-550	4500N	550W	20	3	5	0.7	420	0.5	800	0.5	23	65	0.5	2250	49
-500	4500N	500W													
-450	4500N	450W	22	2	10	0.1	570	0.5	800	10	18	28	0.5	1050	42
-400	4500N	400W	29	16	40	0.2	280	0.5	730	20	18	37	0.5	2990	48
-350	4500N	350W	55	18	10	1.3	130	0.5	570	40	22	181	0.5	3360	30
-300	4500N	300W	47	23	20	0.4	300	0.5	650	0.5	19	38	0.5	3980	40
-250	4500N	250W	41	15	40	0.6	240	0.5	800	20	2.5	74	0.5	2070	5
-200	4500N	200W	70	11	10	0.5	380	0.5	630	20	20	178	0.5	4120	13
-150	4500N	150W	17	52	30	0.05	320	0.5	390	20	34	29	0.5	1690	16
-100	4500N	100W	41	17	5	0.8	1130	0.5	660	40	41	389	0.5	8640	22
-50	4500N	50W	34	17	20	0.5	400	0.5	690	40	34	57	0.5	2920	62
0	4500N	0	30	14	30	0.7	160	0.5	680	70	2.5	43	0.5	6320	3
50	4500N	50E	65	52	50	3.5	180	0.5	500	0.5	12	111	0.5	3270	14
100	4500N	100E	61	51	30	3.4	250	0.5	400	10	20	165	0.5	14900	10
150	4500N	150E	34	24	5	0.2	1410	0.5	730	20	19	185	0.5	3430	29
200	4500N	200E	56	3	5	1.5	550	0.5	780	0.5	12	192	0.5	11100	30
250	4500N	250E	46	39	5	1.5	680	0.5	620	0.5	28	142	0.5	7380	25
300	4500N	300E	55	8	5	0.5	410	0.5	770	0.5	48	115	0.5	9280	27
350	4500N	350E	32	31	5	0.2	460	0.5	580	0.5	27	140	0.5	4870	15
400	4500N	400E	94	23	30	1	230	0.5	870	20	7	43	0.5	12300	13
450	4500N	450E	11	88	20	0.05	190	0.5	290	0.5	38	21	0.5	280	11
500	4500N	500E	12	64	5	0.05	330	0.5	330	10	20	30	0.5	620	9
550	4500N	550E	45	10	40	1.3	400	0.5	920	30	2.5	263	0.5	7980	6
600	4500N	600E	11	18	20	0.05	940	0.5	750	20	81	57	0.5	1230	54
650	4500N	650E	15	9	20	0.1	1040	0.5	840	20	38	89	0.5	2820	39
700	4500N	700E	22	14	5	0.05	1150	0.5	650	60	38	72	0.5	2530	36
-250	4400N	250W-A	66	11	230	1.7	180	0.5	1120	10	2.5	202	0.5	4820	9
-450	4400N	450W-A	29	2	5	1.1	1070	0.5	790	20	11	128	0.5	2080	65

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ANALYTE			Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd
DETECTION			0.5	0.5	1	1	1	5	1	5	0.5	1	5	10	1
UNITS			PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
-50	4400N	50W	2.4	1.2	15	6	7	2.5	15	5	<0.5	14	13	70	0.5
0	4400N	0	9.3	3.2	12	14	7	2.5	35	8	<0.5	21	11	40	0.5
50	4400N	50E	15.9	5.1	13	26	22	2.5	64	2.5	<0.5	51	16	70	0.5
100	4400N	100E	12.5	5.1	8	20	7	2.5	51	2.5	<0.5	27	12	30	0.5
150	4400N	150E	23.1	4.4	24	21	12	2.5	38	2.5	<0.5	32	14	100	0.5
200	4400N	200E	28.3	7	14	35	23	2.5	57	2.5	<0.5	57	13	120	0.5
300	4400N	250E													
300	4400N	300E	14.1	2	5	13	3	2.5	111	10	<0.5	14	91	40	0.5
350	4400N	350E	3.7	1.3	7	6	0.5	2.5	94	39	<0.5	7	126	80	0.5
400	4400N	400E	24.7	5.5	15	30	18	6	109	11	<0.5	45	73	70	0.5
450	4400N	450E	5.6	1.6	17	7	4	2.5	48	11	<0.5	9	20	60	0.5
500	4400N	500E	9.5	1.7	9	9	5	2.5	94	8	<0.5	11	94	150	0.5
550	4400N	550E	21.5	5.9	21	30	16	12	53	2.5	<0.5	48	17	30	0.5
600	4400N	600E	14	3.8	12	20	9	2.5	49	6	<0.5	28	98	110	0.5
650	4400N	650E	17.3	7.1	14	28	27	2.5	56	6	<0.5	58	10	30	0.5
700	4400N	700E	20.2	6.4	13	30	26	2.5	88	2.5	<0.5	57	17	40	0.5
-700	4500N	700W	17	2.8	3	17	2	2.5	119	2.5	<0.5	13	66	20	0.5
-650	4500N	650W	7.4	1.8	7	8	4	2.5	78	2.5	<0.5	11	52	30	0.5
-600	4500N	600W	9.6	2.4	5	10	5	2.5	87	2.5	<0.5	13	33	20	0.5
-550	4500N	550W	39.8	7.4	4	42	15	2.5	92	5	<0.5	52	114	40	0.5
-500	4500N	500W													
-450	4500N	450W	30.7	6.4	4	41	14	2.5	161	2.5	<0.5	51	112	30	0.5
-400	4500N	400W	34.2	8.3	14	44	7	2.5	44	7	<0.5	44	27	40	0.5
-350	4500N	350W	24.9	4.1	5	23	1	2.5	49	9	<0.5	18	52	30	0.5
-300	4500N	300W	27.3	7.5	14	38	11	2.5	29	8	<0.5	44	24	90	0.5
-250	4500N	250W	4	0.6	7	4	0.5	2.5	16	2.5	<0.5	0.5	30	100	0.5
-200	4500N	200W	8.7	3.4	8	14	7	2.5	72	8	<0.5	21	16	60	0.5
-150	4500N	150W	11.5	4.3	28	17	16	2.5	31	7	<0.5	34	11	60	0.5
-100	4500N	100W	17	4.6	9	24	23	2.5	66	20	<0.5	45	18	1000	0.5
-50	4500N	50W	47.5	8.1	9	56	17	6	103	17	<0.5	64	32	360	0.5
0	4500N	0	2.3	1	9	3	0.5	2.5	8	5	<0.5	0.5	16	20	0.5
50	4500N	50E	9.8	4.5	7	14	5	2.5	13	2.5	<0.5	16	7	40	0.5
100	4500N	100E	6.7	2.9	11	11	10	2.5	21	2.5	<0.5	20	7	30	0.5
150	4500N	150E	25.8	3.5	8	22	11	2.5	58	7	<0.5	27	29	130	0.5
200	4500N	200E	28.9	3.6	6	20	5	2.5	88	2.5	<0.5	17	48	20	0.5
250	4500N	250E	17.8	5.5	14	26	19	2.5	77	2.5	<0.5	49	24	60	0.5
300	4500N	300E	17	8.5	8	37	28	2.5	105	2.5	<0.5	82	28	20	0.5
350	4500N	350E	9.5	4.3	15	17	10	2.5	55	2.5	<0.5	32	12	30	0.5
400	4500N	400E	9.5	2.9	16	13	4	2.5	53	7	<0.5	16	29	50	0.5
450	4500N	450E	7.8	2.3	31	11	14	2.5	18	2.5	<0.5	29	15	130	0.5
500	4500N	500E	6.5	1.8	15	9	8	2.5	29	2.5	<0.5	17	6	100	0.5
550	4500N	550E	4.7	0.9	8	5	0.5	2.5	78	7	<0.5	4	76	20	0.5
600	4500N	600E	33.7	11.2	19	56	31	6	84	6	<0.5	99	142	50	0.5
650	4500N	650E	29.3	5.5	9	33	12	2.5	70	7	<0.5	45	104	30	0.5
700	4500N	700E	31.2	4.3	10	25	14	2.5	47	2.5	<0.5	34	200	60	0.5
-250	4400N	250W-A	7.3	1.6	10	8	0.5	2.5	49	11	<0.5	6	102	30	0.5
-450	4400N	450W-A	61.1	6.6	3	46	9	2.5	131	2.5	<0.5	31	149	40	0.5

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ANALYTE			Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
DETECTION			1	5	1	5	1	1	10	1	1	10	0.5	3	0.5
UNITS			PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
-50	4400N	50W	4	26	0.5	5	4	0.5	770	0.5	0.5	0.5	1.4	46	<0.5
0	4400N	0	4	24	0.5	20	8	0.5	1710	0.5	2	0.5	1.4	22	<0.5
50	4400N	50E	10	10	0.5	23	15	0.5	3670	0.5	3	0.5	4.7	14	<0.5
100	4400N	100E	5	13	0.5	21	11	0.5	3610	0.5	3	0.5	0.9	12	<0.5
150	4400N	150E	7	62	0.5	63	12	0.5	1690	0.5	3	0.5	1.7	19	<0.5
200	4400N	200E	11	60	0.5	55	21	0.5	2250	0.5	5	0.5	2.4	17	<0.5
300	4400N	250E													
300	4400N	300E	3	16	0.5	7	6	0.5	1900	0.5	2	0.5	1.9	<3	<0.5
350	4400N	350E	2	76	0.5	6	4	0.5	1460	0.5	0.5	0.5	1.9	13	<0.5
400	4400N	400E	8	16	0.5	32	16	0.5	2130	0.5	4	0.5	4.5	16	<0.5
450	4400N	450E	2	35	0.5	19	4	0.5	1560	0.5	0.5	0.5	0.9	22	<0.5
500	4400N	500E	3	9	0.5	14	4	0.5	4390	0.5	1	0.5	1.2	6	<0.5
550	4400N	550E	9	8	0.5	65	16	0.5	5660	0.5	4	0.5	1.5	16	<0.5
600	4400N	600E	5	26	0.5	15	11	0.5	2370	0.5	3	0.5	2.5	12	<0.5
650	4400N	650E	11	45	0.5	50	17	0.5	5930	0.5	3	0.5	3.1	13	<0.5
700	4400N	700E	11	20	0.5	39	17	0.5	6250	0.5	4	0.5	3.2	9	<0.5
-700	4500N	700W	3	7	0.5	5	7	0.5	3880	0.5	2	0.5	1	3	<0.5
-650	4500N	650W	3	47	0.5	9	5	0.5	2150	0.5	1	0.5	1.2	7	<0.5
-600	4500N	600W	3	7	0.5	11	5	0.5	6060	0.5	1	0.5	1.7	<3	<0.5
-550	4500N	550W	9	16	0.5	6	21	0.5	2940	0.5	6	0.5	3	<3	<0.5
-500	4500N	500W													
-450	4500N	450W	8	5	0.5	8	20	0.5	3260	0.5	5	0.5	1.1	<3	<0.5
-400	4500N	400W	7	23	0.5	38	22	0.5	1270	0.5	6	0.5	0.6	8	<0.5
-350	4500N	350W	3	13	0.5	14	11	0.5	1800	0.5	3	0.5	0.6	<3	<0.5
-300	4500N	300W	7	50	0.5	39	20	0.5	950	0.5	5	0.5	1.3	12	<0.5
-250	4500N	250W	0.5	39	0.5	5	1	0.5	2130	0.5	0.5	0.5	<0.5	7	<0.5
-200	4500N	200W	4	11	0.5	14	8	0.5	2890	0.5	2	0.5	1.5	11	<0.5
-150	4500N	150W	7	48	0.5	34	11	0.5	1300	0.5	2	0.5	2.4	32	<0.5
-100	4500N	100W	9	43	0.5	21	14	0.5	8320	0.5	3	0.5	1.4	7	<0.5
-50	4500N	50W	10	16	0.5	8	27	0.5	2640	0.5	8	0.5	4.4	15	<0.5
0	4500N	0	0.5	18	1	8	1	0.5	770	0.5	0.5	0.5	<0.5	8	<0.5
50	4500N	50E	3	20	0.5	20	7	0.5	1170	0.5	2	0.5	0.7	13	<0.5
100	4500N	100E	4	30	1	20	7	0.5	1030	0.5	1	0.5	1.2	14	<0.5
150	4500N	150E	6	35	0.5	30	10	0.5	4520	0.5	3	0.5	0.9	4	<0.5
200	4500N	200E	3	19	0.5	38	8	0.5	3370	0.5	3	0.5	0.7	<3	<0.5
250	4500N	250E	9	31	0.5	59	16	0.5	3110	0.5	3	0.5	1.9	16	<0.5
300	4500N	300E	14	11	0.5	35	25	0.5	4470	0.5	4	0.5	2.3	6	<0.5
350	4500N	350E	6	43	0.5	53	12	0.5	2670	0.5	2	0.5	1.6	14	<0.5
400	4500N	400E	3	26	0.5	25	7	0.5	1510	0.5	2	0.5	0.6	17	<0.5
450	4500N	450E	6	45	0.5	40	8	0.5	690	0.5	1	0.5	1.9	69	<0.5
500	4500N	500E	4	52	0.5	34	6	0.5	660	0.5	1	0.5	1.1	19	<0.5
550	4500N	550E	1	37	0.5	17	3	0.5	2440	0.5	0.5	0.5	<0.5	7	<0.5
600	4500N	600E	18	41	0.5	29	36	0.5	1950	0.5	7	0.5	3.6	24	<0.5
650	4500N	650E	8	26	0.5	16	17	0.5	2580	0.5	5	0.5	1.2	5	<0.5
700	4500N	700E	7	52	0.5	38	13	0.5	2370	0.5	4	0.5	1.4	3	<0.5
-250	4400N	250W-A	1	10	2	13	4	0.5	2260	0.5	1	0.5	0.5	10	<0.5
-450	4400N	450W-A	5	17	0.5	9	16	0.5	5000	0.5	7	0.5	0.7	<3	<0.5

ASHTON COPPER
2006 and 2007 MMI DATA

ANALYTE			U	W	Y	Yb	Zn	Zr
DETECTION			1	1	5	1	20	5
UNITS			PPB	PPB	PPB	PPB	PPB	PPB
-50	4400N	50W	6	0.5	20	2	1740	40
0	4400N	0	10	0.5	68	8	190	37
50	4400N	50E	5	0.5	118	14	730	35
100	4400N	100E	4	0.5	93	11	60	32
150	4400N	150E	6	1	154	22	150	48
200	4400N	200E	12	0.5	201	26	120	58
300	4400N	250E						
300	4400N	300E	8	0.5	73	14	360	8
350	4400N	350E	4	0.5	27	4	830	26
400	4400N	400E	6	0.5	170	25	4410	33
450	4400N	450E	4	0.5	39	5	680	32
500	4400N	500E	4	0.5	63	9	420	20
550	4400N	550E	3	0.5	146	21	90	32
600	4400N	600E	7	0.5	102	13	510	34
650	4400N	650E	8	0.5	121	14	230	42
700	4400N	700E	6	1	129	18	390	29
-700	4500N	700W	4	0.5	83	15	140	6
-650	4500N	650W	2	0.5	41	7	100	12
-600	4500N	600W	2	0.5	45	10	110	8
-550	4500N	550W	4	1	186	38	260	10
-500	4500N	500W						
-450	4500N	450W	14	0.5	176	27	60	15
-400	4500N	400W	3	0.5	263	32	210	30
-350	4500N	350W	3	0.5	145	25	270	12
-300	4500N	300W	7	0.5	218	24	90	36
-250	4500N	250W	3	0.5	23	4	1500	26
-200	4500N	200W	6	0.5	71	8	750	32
-150	4500N	150W	5	0.5	85	10	70	41
-100	4500N	100W	10	0.5	115	16	3320	31
-50	4500N	50W	5	0.5	342	47	810	35
0	4500N	0	1	0.5	18	2	640	30
50	4500N	50E	4	0.5	81	8	30	32
100	4500N	100E	6	0.5	52	6	60	36
150	4500N	150E	7	0.5	129	25	710	25
200	4500N	200E	3	0.5	136	31	150	11
250	4500N	250E	9	0.5	125	15	120	55
300	4500N	300E	6	0.5	129	14	110	33
350	4500N	350E	4	0.5	70	8	50	38
400	4500N	400E	3	0.5	77	9	140	33
450	4500N	450E	4	0.5	55	7	80	50
500	4500N	500E	3	0.5	45	6	70	36
550	4500N	550E	5	0.5	27	5	200	11
600	4500N	600E	4	0.5	227	30	800	38
650	4500N	650E	8	0.5	155	28	370	22
700	4500N	700E	4	0.5	134	32	2700	28
-250	4400N	250W-A	3	0.5	43	7	190	26
-450	4400N	450W-A	6	0.5	244	57	320	2.5

ASHTON COPPER
2012 MMI DATA

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Fe
DETECTION	1	1	10	0.1	10	1	10	1	5	5	0.5	10	1	0.5	0.5	1
UNITS	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
L3900N 500E	33	14	40	0.4	660	<1	900	54	8	20	<0.5	2650	10	5.5	2.3	10
L3900N 450E	14	16	30	0.2	1170	<1	760	71	143	138	<0.5	1370	39	22.3	6.5	10
L3900N 400E	14	5	60	<0.1	1010	<1	630	101	55	133	<0.5	1610	9	5	2.4	16
L3900N 350E	10	22	10	0.1	1550	<1	680	9	144	144	<0.5	1170	22	12.6	8.2	20
L3900N 300E	19	18	<10	0.2	1050	<1	620	4	22	12	<0.5	380	6	2.7	3.6	9
L3900N 250E	18	9	<10	0.2	860	<1	770	28	8	16	<0.5	990	4	2.3	1.4	7
L3900N 200E	16	13	20	0.3	890	<1	750	18	26	44	<0.5	2080	10	5.8	3.1	10
L3900N 150E	17	11	30	0.3	630	<1	630	9	18	26	<0.5	1340	10	5.2	3.8	8
L3900N 100E	16	15	20	0.4	460	<1	740	17	9	12	<0.5	3870	9	5.4	2	13
L3900N 50E	8	25	<10	<0.1	470	<1	720	4	75	8	<0.5	350	15	7.9	3.6	16
L3900N BLO	5	18	<10	<0.1	260	<1	800	3	37	6	<0.5	960	9	6.1	2	17
L3900N 500W	7	17	<10	0.1	1030	<1	1020	3	<5	37	<0.5	1400	4	2.4	1.2	8
L3900N 450W	10	19	<10	0.2	3010	<1	870	4	85	54	0.6	1260	37	20	10.1	11
L3900N 400W	9	27	<10	<0.1	1980	<1	960	9	113	20	<0.5	470	51	27	12	11
L3900N 350W	10	11	<10	<0.1	1090	<1	620	6	101	220	<0.5	920	23	11.9	6	12
L3900N 300W	9	32	<10	<0.1	980	<1	700	3	97	22	<0.5	500	17	9.9	4.1	18
L3900N 250W	21	27	<10	<0.1	980	<1	840	5	126	15	<0.5	480	29	15.4	10	13
L3900N 200W	8	68	<10	<0.1	900	<1	730	6	104	68	<0.5	290	13	7.8	2.9	29
L3900N 150W	7	69	<10	<0.1	560	<1	280	5	80	175	<0.5	690	9	5.2	2.1	73
L3900N 100W	7	12	<10	<0.1	750	<1	600	3	132	63	<0.5	600	36	19.5	8.5	11
L3900N 50W	10	16	<10	<0.1	740	<1	650	2	151	30	<0.5	820	29	15	7.9	12
L4000N 435E	19	21	30	0.4	980	<1	930	194	71	183	1	1470	30	18.1	5	11
L4000N 400E	19	31	20	0.2	1170	<1	840	71	95	57	<0.5	1340	40	24.1	7.5	17
L4000N 350E	13	17	10	0.2	1130	<1	790	24	51	50	<0.5	1420	21	11.5	5.4	12
L4000N 300E	30	12	<10	0.8	630	<1	990	3	7	12	<0.5	820	4	2.1	1.9	6
L4000N 250E	22	8	10	0.2	1130	<1	800	12	11	21	<0.5	1280	7	3.8	2.1	9
L4000N 200E	20	11	10	<0.1	430	<1	490	8	19	25	<0.5	600	38	22.9	6.2	10
L4000N 150E	168	6	130	2.1	640	<1	930	42	<5	27	<0.5	1670	6	4	1.1	7
L4000N 100E	29	12	20	1.7	1120	<1	880	18	26	17	<0.5	1280	30	17.7	7.1	8
L4000N 50E	52	9	<10	1.3	270	<1	490	15	31	51	1.1	880	15	9.8	3.3	8
L4000N BLO	8	14	20	0.2	1100	<1	560	14	38	18	<0.5	1790	31	19	8.3	11
L4000N 500W	5	17	<10	<0.1	1040	<1	780	14	<5	8	<0.5	760	<1	0.6	<0.5	8
L4000N 450W	13	28	<10	0.1	3560	<1	1030	8	75	15	<0.5	650	30	16.7	6.7	15
L4000N 400W	9	29	<10	<0.1	640	<1	800	6	11	9	<0.5	980	5	2.2	1.6	10
L4000N 350W	16	16	<10	<0.1	1270	<1	1090	5	40	16	<0.5	720	23	12.6	6.3	8
L4000N 300W	10	14	<10	<0.1	810	<1	840	8	102	43	<0.5	540	53	29.9	13.7	6
L4000N 250W	8	20	<10	<0.1	770	<1	910	3	63	16	<0.5	340	20	10.9	6.2	8
L4000N 200W	17	19	<10	0.2	610	<1	760	3	31	10	<0.5	820	36	20.1	6.8	8
L4000N 150W	10	12	<10	<0.1	660	<1	630	3	34	10	<0.5	650	20	11	3.6	9
L4000N 100W	9	18	<10	<0.1	730	<1	680	4	88	12	<0.5	620	32	16.8	7.6	11
L4000N 50W	31	8	<10	1	2490	<1	780	5	5	24	<0.5	890	10	6.7	2.4	7

ASHTON COPPER
2012 MMI DATA

ANALYTE	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd
DETECTION	1	1	1	0.5	0.1	1	5	1	10	5	0.5	1	5	0.1	10	1
UNITS	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb
L3900N 500E	<1	11	<1	<0.5	11.7	7	<5	85	1300	11	0.6	22	175	1.4	50	<1
L3900N 450E	<1	44	<1	<0.5	9.3	46	<5	133	8730	20	0.5	103	626	0.6	110	<1
L3900N 400E	<1	12	<1	<0.5	16.2	20	<5	96	19000	52	1.4	46	553	1.1	30	<1
L3900N 350E	<1	33	<1	<0.5	12.3	54	<5	112	5850	7	<0.5	121	81	0.9	30	<1
L3900N 300E	<1	10	<1	<0.5	35.2	17	<5	70	470	<5	<0.5	42	30	1.9	30	<1
L3900N 250E	<1	6	<1	<0.5	23.9	5	<5	49	1230	<5	<0.5	17	54	0.9	20	<1
L3900N 200E	<1	13	<1	<0.5	25.8	11	<5	119	2460	8	<0.5	34	105	1.6	20	<1
L3900N 150E	<1	15	<1	<0.5	72	15	<5	134	890	9	<0.5	43	88	1	20	<1
L3900N 100E	<1	9	<1	<0.5	100	8	<5	129	570	25	<0.5	22	171	1.6	<10	<1
L3900N 50E	<1	21	<1	<0.5	57.3	42	<5	192	670	<5	0.5	76	145	2.3	20	<1
L3900N BLO	<1	12	<1	<0.5	14.7	31	<5	247	500	<5	<0.5	47	199	2.1	<10	<1
L3900N 500W	<1	3	<1	<0.5	15.9	1	<5	205	1220	<5	<0.5	5	93	0.3	<10	<1
L3900N 450W	<1	46	<1	<0.5	48.6	43	<5	186	1420	<5	<0.5	106	342	0.4	10	<1
L3900N 400W	<1	62	<1	<0.5	99.7	57	<5	210	1810	5	<0.5	150	1040	1.9	30	<1
L3900N 350W	<1	30	<1	<0.5	11.8	46	<5	212	10100	7	<0.5	103	941	1	<10	<1
L3900N 300W	<1	22	<1	<0.5	17.3	42	<5	134	450	<5	<0.5	77	99	1.5	20	<1
L3900N 250W	<1	41	<1	<0.5	44.2	91	<5	264	650	<5	0.7	161	529	2.1	20	<1
L3900N 200W	<1	13	<1	<0.5	108	24	<5	179	1040	<5	<0.5	36	578	1.7	20	<1
L3900N 150W	1	9	<1	<0.5	53.4	22	<5	79	19500	13	1.3	37	544	3	10	<1
L3900N 100W	<1	46	<1	<0.5	21.6	65	<5	262	2250	<5	<0.5	150	559	1.2	<10	<1
L3900N 50W	<1	40	<1	<0.5	22.8	87	<5	244	1800	<5	0.6	153	547	1.4	10	<1
L4000N 435E	<1	30	<1	<0.5	13.2	27	<5	130	12100	6	<0.5	63	486	1.1	200	<1
L4000N 400E	<1	43	<1	<0.5	49	40	<5	115	6720	<5	<0.5	94	369	1.4	130	<1
L4000N 350E	<1	27	<1	<0.5	48.6	25	<5	80	1830	11	<0.5	71	174	0.9	30	<1
L4000N 300E	<1	7	<1	<0.5	20	8	<5	154	440	<5	<0.5	20	87	0.7	10	<1
L4000N 250E	<1	9	<1	<0.5	39.9	9	<5	120	940	7	<0.5	25	64	1.2	20	<1
L4000N 200E	<1	41	<1	<0.5	46.1	6	<5	139	1690	15	<0.5	36	171	0.3	20	<1
L4000N 150E	<1	7	<1	<0.5	48.6	3	13	230	820	38	<0.5	10	491	1.1	130	<1
L4000N 100E	<1	35	<1	<0.5	34.3	18	<5	146	2120	6	<0.5	69	74	0.8	20	<1
L4000N 50E	<1	15	<1	<0.5	35.2	5	<5	85	5830	9	<0.5	20	86	0.2	20	<1
L4000N BLO	<1	36	<1	<0.5	130	24	<5	112	2470	10	<0.5	80	139	0.8	10	<1
L4000N 500W	<1	1	<1	<0.5	134	1	<5	93	1830	<5	<0.5	3	89	2.6	20	<1
L4000N 450W	<1	35	<1	<0.5	171	30	<5	164	1960	6	<0.5	85	645	1.4	50	<1
L4000N 400W	<1	6	<1	<0.5	81.6	7	<5	151	1190	<5	<0.5	18	164	3.4	20	<1
L4000N 350W	<1	31	<1	<0.5	19.6	27	<5	285	740	<5	<0.5	74	372	1.5	20	<1
L4000N 300W	<1	65	<1	<0.5	6.9	56	<5	269	2040	<5	<0.5	153	952	1	20	<1
L4000N 250W	<1	29	<1	<0.5	9.1	53	<5	265	500	<5	0.6	98	256	2.1	10	<1
L4000N 200W	<1	44	<1	<0.5	62.9	35	<5	316	530	<5	<0.5	102	768	2.1	10	<1
L4000N 150W	<1	26	<1	<0.5	18.6	35	<5	309	420	<5	<0.5	82	669	2.3	<10	<1
L4000N 100W	<1	43	<1	<0.5	65.3	75	<5	241	810	<5	<0.5	134	699	2.1	20	<1
L4000N 50W	<1	10	<1	<0.5	19.9	2	<5	92	1610	8	<0.5	10	95	0.2	10	<1

ASHTON COPPER
2012 MMI DATA

ANALYTE	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
DETECTION	1	1	5	1	5	1	1	10	1	1	10	0.5	3	0.5	1	1	5
UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L3900N 500E	4	<1	13	<1	8	7	<1	3700	<1	2	<10	1.2	6	<0.5	19	<1	64
L3900N 450E	19	<1	12	<1	26	30	<1	2720	<1	7	<10	11.2	8	<0.5	29	<1	208
L3900N 400E	8	<1	29	<1	10	11	<1	2390	<1	2	<10	7.1	14	<0.5	35	<1	57
L3900N 350E	23	<1	15	<1	12	28	<1	5800	<1	4	<10	10	10	<0.5	18	<1	143
L3900N 300E	7	<1	7	<1	<5	9	<1	7540	<1	1	<10	3.6	26	<0.5	10	<1	36
L3900N 250E	3	<1	28	<1	<5	5	<1	4140	<1	<1	<10	1.2	5	<0.5	17	<1	27
L3900N 200E	6	<1	12	<1	7	10	<1	4970	<1	2	<10	2.3	8	<0.5	14	<1	62
L3900N 150E	7	<1	21	<1	8	11	<1	4300	<1	2	<10	2.6	13	<0.5	15	<1	60
L3900N 100E	4	<1	31	<1	15	7	<1	3970	<1	1	<10	1	7	<0.5	11	<1	46
L3900N 50E	15	<1	66	<1	17	18	<1	7500	<1	3	<10	6.6	9	<0.5	12	<1	95
L3900N BLO	10	<1	11	<1	11	10	<1	5130	<1	2	<10	5.1	9	<0.5	9	<1	69
L3900N 500W	<1	<1	<5	<1	8	2	<1	4250	<1	<1	<10	1.3	<3	<0.5	5	<1	20
L3900N 450W	18	<1	<5	<1	20	33	<1	3510	<1	6	<10	11	<3	<0.5	10	<1	246
L3900N 400W	27	<1	95	<1	20	45	<1	5850	<1	9	<10	6.7	9	<0.5	14	<1	304
L3900N 350W	20	<1	16	<1	16	25	<1	4640	<1	4	<10	5.5	11	<0.5	15	<1	132
L3900N 300W	15	<1	9	<1	14	18	<1	7210	<1	3	<10	5.3	15	<0.5	5	<1	109
L3900N 250W	32	<1	12	<1	17	35	<1	7380	<1	5	<10	5.8	9	<0.5	20	<1	190
L3900N 200W	8	<1	52	<1	62	9	<1	5730	<1	2	<10	6.2	14	<0.5	7	<1	77
L3900N 150W	8	<1	82	<1	80	8	<1	2020	<1	1	<10	9.4	139	<0.5	6	<1	52
L3900N 100W	28	<1	51	<1	18	37	<1	5330	<1	6	<10	6.6	7	<0.5	16	<1	204
L3900N 50W	30	<1	54	<1	17	35	<1	5830	<1	5	<10	15	8	<0.5	22	<1	169
L4000N 435E	11	<1	21	<1	24	20	<1	3520	<1	5	<10	5.6	11	<0.5	20	<1	190
L4000N 400E	17	<1	37	<1	28	29	<1	4220	<1	6	<10	6.8	9	<0.5	14	<1	263
L4000N 350E	12	<1	30	<1	11	20	<1	5050	<1	4	<10	4.3	5	<0.5	22	<1	132
L4000N 300E	3	<1	10	<1	8	5	<1	8330	<1	<1	<10	1.1	<3	<0.5	12	<1	27
L4000N 250E	4	<1	14	<1	7	6	<1	4660	<1	1	<10	1.3	4	<0.5	15	<1	44
L4000N 200E	5	<1	37	<1	23	20	<1	1750	<1	6	<10	5.9	26	<0.5	22	<1	213
L4000N 150E	2	<1	13	<1	8	4	<1	3290	<1	1	<10	0.5	<3	<0.5	38	<1	46
L4000N 100E	11	<1	17	<1	12	23	<1	2450	<1	5	<10	2.5	<3	<0.5	10	<1	188
L4000N 50E	3	<1	23	<1	9	8	<1	1190	<1	2	<10	1.9	<3	<0.5	4	<1	111
L4000N BLO	13	<1	81	<1	17	26	<1	1810	<1	5	<10	4.9	<3	<0.5	13	<1	214
L4000N 500W	<1	<1	34	<1	<5	<1	<1	3110	<1	<1	<10	0.6	6	<0.5	2	<1	7
L4000N 450W	15	<1	39	<1	13	26	<1	9190	<1	5	<10	10.7	<3	<0.5	17	<1	178
L4000N 400W	3	<1	44	<1	5	5	<1	3480	<1	<1	<10	1.2	8	<0.5	5	<1	30
L4000N 350W	13	<1	27	<1	15	22	<1	5560	<1	4	<10	2.3	4	<0.5	10	<1	141
L4000N 300W	27	<1	14	<1	14	46	<1	6210	<1	9	<10	8.6	<3	<0.5	21	<1	322
L4000N 250W	19	<1	6	<1	17	23	<1	7480	<1	4	<10	4.1	7	<0.5	17	<1	126
L4000N 200W	18	<1	37	<1	20	29	<1	4600	<1	6	<10	3.1	3	<0.5	24	<1	231
L4000N 150W	15	<1	14	<1	10	20	<1	4280	<1	3	<10	2.6	6	<0.5	9	<1	128
L4000N 100W	27	<1	103	<1	18	34	<1	5190	<1	6	<10	9.4	7	<0.5	19	<1	201
L4000N 50W	1	<1	11	<1	12	5	<1	1740	<1	1	<10	1.6	<3	<0.5	6	<1	69

ANALYTE	Yb	Zn	Zr
DETECTION	1	20	5
UNITS	ppb	ppb	ppb
L3900N 500E	4	870	9
L3900N 450E	16	1490	38
L3900N 400E	4	1150	32
L3900N 350E	9	140	20
L3900N 300E	2	110	7
L3900N 250E	2	310	5
L3900N 200E	4	220	9
L3900N 150E	4	90	8
L3900N 100E	4	270	14
L3900N 50E	6	290	18
L3900N BLO	6	70	7
L3900N 500W	2	20	5
L3900N 450W	14	200	21
L3900N 400W	20	390	31
L3900N 350W	8	40	42
L3900N 300W	8	100	18
L3900N 250W	11	200	17
L3900N 200W	6	280	40
L3900N 150W	4	760	72
L3900N 100W	14	50	36
L3900N 50W	11	110	36
L4000N 435E	14	4700	21
L4000N 400E	19	3160	28
L4000N 350E	8	1320	23
L4000N 300E	2	<20	<5
L4000N 250E	3	190	9
L4000N 200E	19	60	28
L4000N 150E	3	570	<5
L4000N 100E	14	170	<5
L4000N 50E	8	130	<5
L4000N BLO	15	180	7
L4000N 500W	<1	220	<5
L4000N 450W	12	340	21
L4000N 400W	2	160	<5
L4000N 350W	8	200	13
L4000N 300W	19	100	24
L4000N 250W	7	110	14
L4000N 200W	14	80	31
L4000N 150W	8	70	23
L4000N 100W	12	150	23
L4000N 50W	6	70	<5

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ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

BC LOCATION MAP

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I/03 92I/06	Nov '13	1

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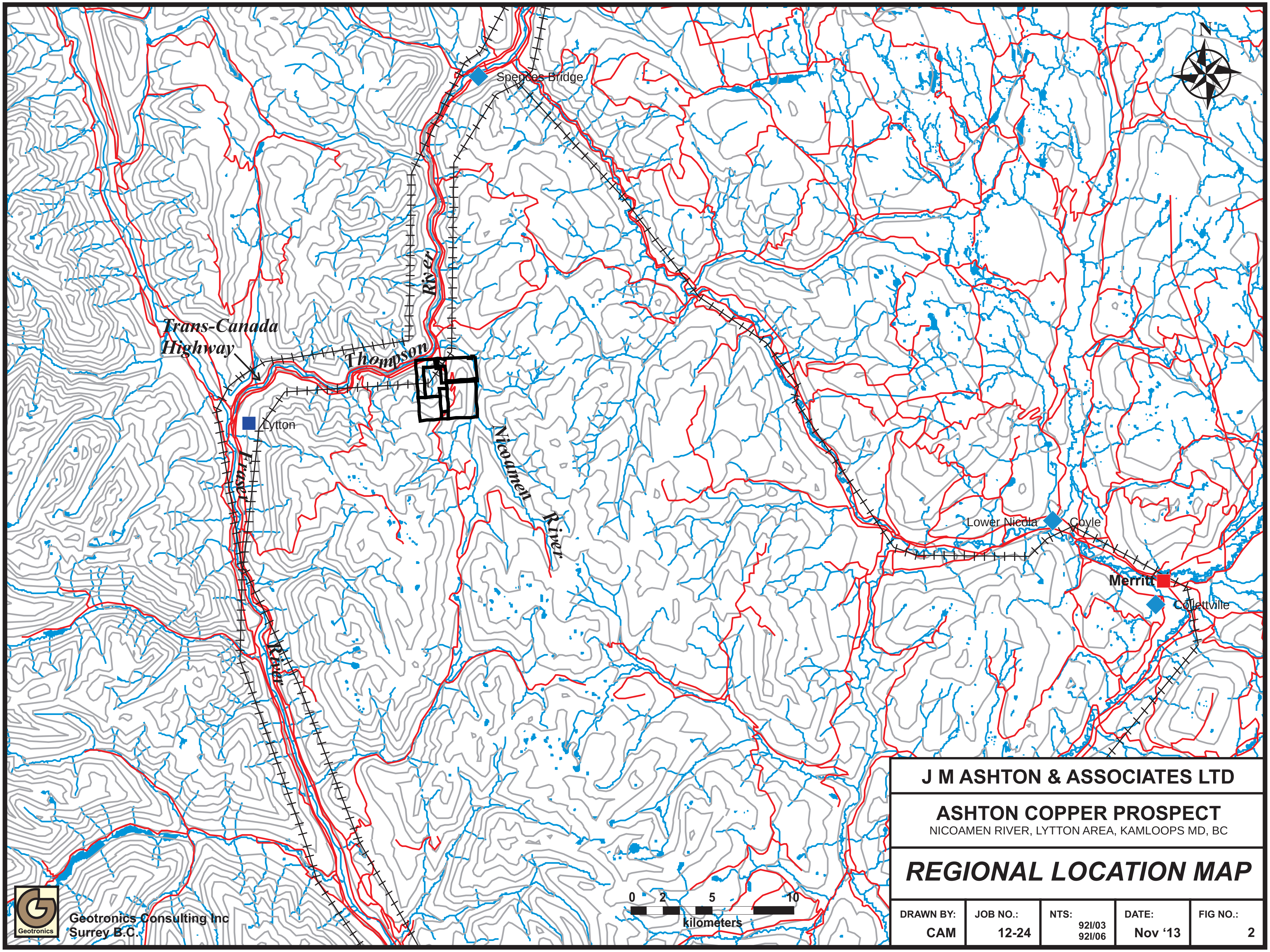


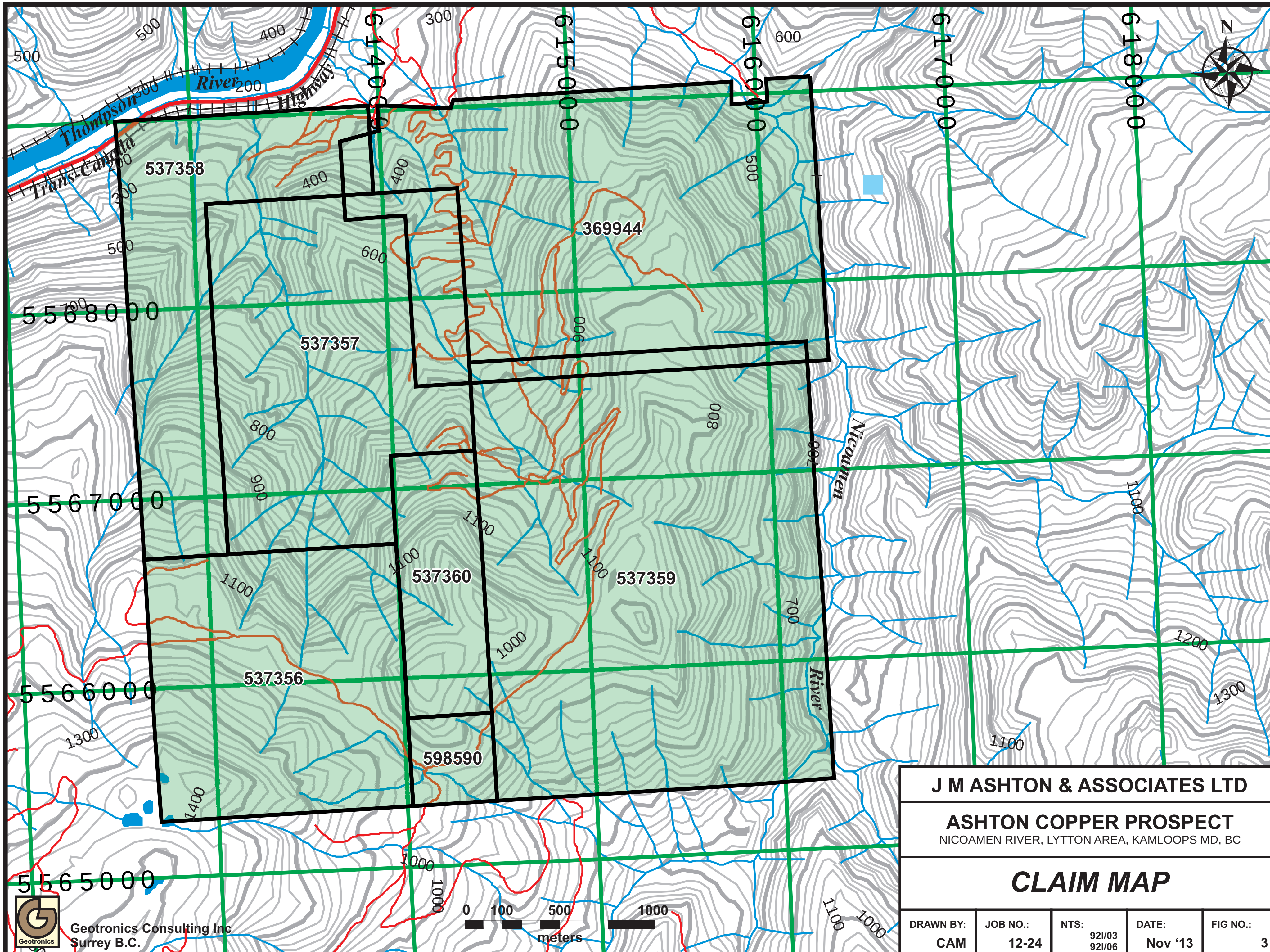
J M ASHTON & ASSOCIATES LTD

ASHTON COPPER PROSPECT

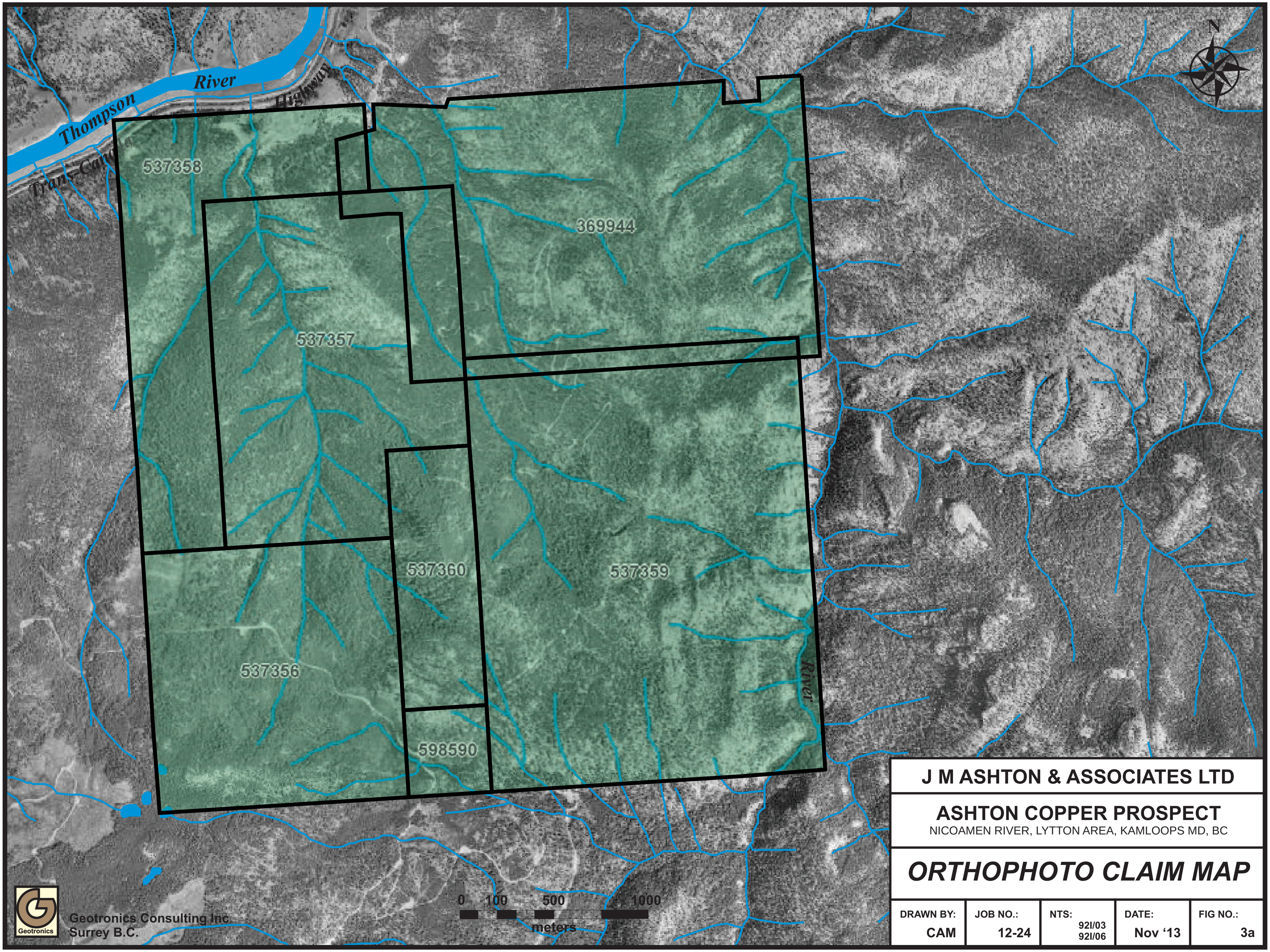
NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

REGIONAL LOCATION MAP

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I/03 92I/06	Nov '13	2



J M ASHTON & ASSOCIATES LTD
ASHTON COPPER PROSPECT
NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC
CLAIM MAP
DRAWN BY: CAM
JOB NO.: 12-24
NTS: 92I/03 92I/06
DATE: Nov '13
FIG NO.: 3
Geotronics Consulting Inc
Surrey B.C.
Geotronics
0 100 500 1000
meters
N
537358
537357
369944
537360
537359
537356
598590
Thompson River
Trans-Canada Highway
Nicoamen River
614000
615000
616000
617000
618000
5568000
5567000
5566000
5565000



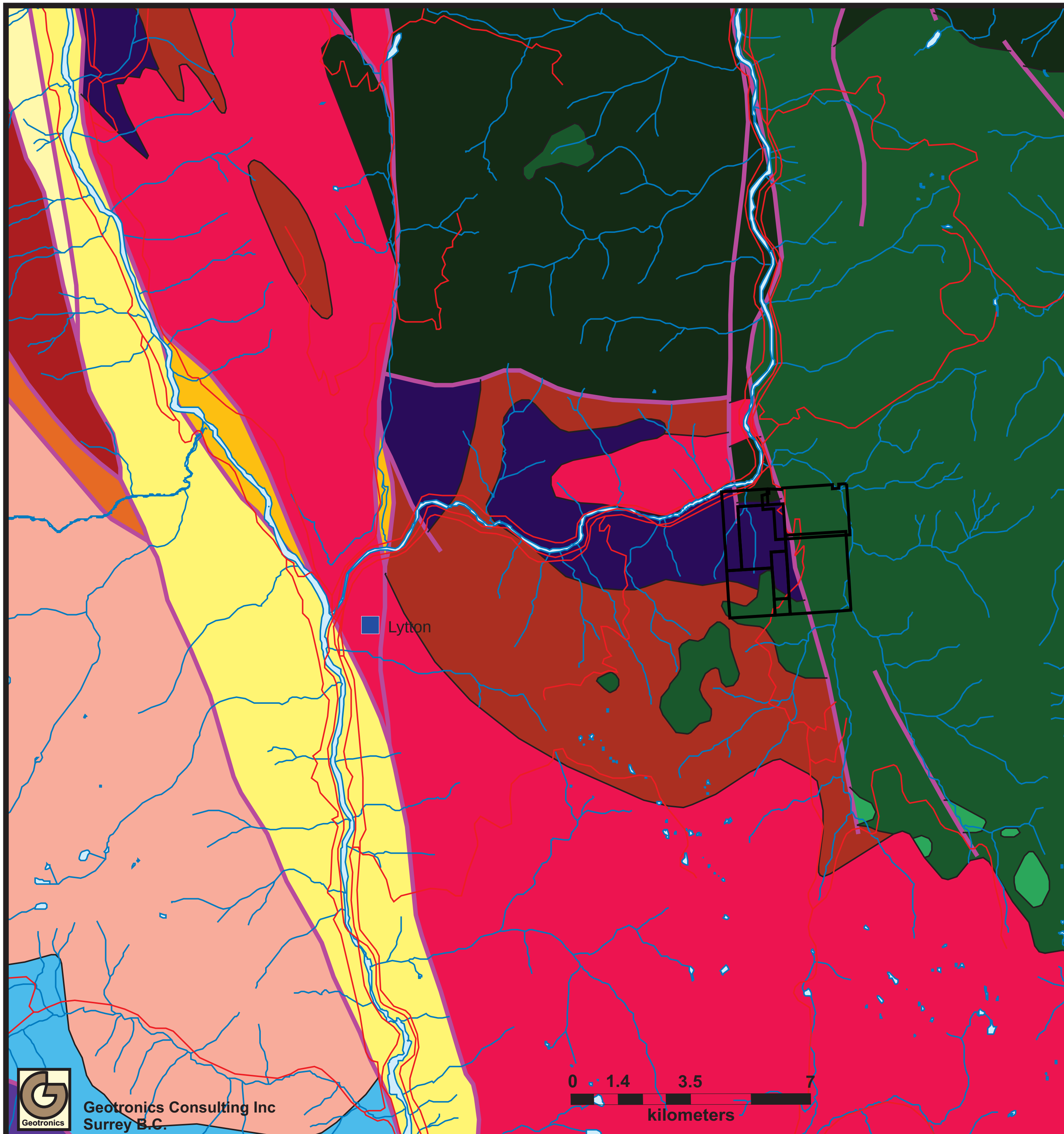
J M ASHTON & ASSOCIATES LTD

ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

ORTHOPHOTO CLAIM MAP

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I/03 92I/06	Nov '13	3a



J M ASHTON & ASSOCIATES LTD				
ASHTON COPPER PROSPECT NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC				
GEOLOGY MAP				
DRAWN BY: CAM	JOB NO.: 12-24	NTS: 92I/03 92I/06	DATE: Nov '13	FIG NO.: 4

BRIDGE RIVER COMPLEX Mississippian to Middle Jurassic
serpentinite ultramafic rocks (MmJBus)

BRIDGE RIVER COMPLEX Mississippian to Middle Jurassic
marine sedimentary and volcanic rocks (MmJBsv)

MOUNT LYTTON COMPLEX Permian to Triassic
lower amphibolite/kyanite grade metamorphic rocks (PTrMml)

MOUNT LYTTON COMPLEX Permian to Triassic
dioritic intrusive rocks (PTrMdr)

MOUNT LYTTON COMPLEX Permian to Triassic
granodioritic intrusive rocks (PTrMgd)

NICOLA GROUP - WESTERN VOLCANIC FACIES Upper Triassic
undivided volcanic rocks (uTrNW)

GUICHON CREEK BATHOLITH - BORDER PHASE Late Triassic to Early Jurassic
quartz dioritic intrusive rocks (LTrJGBo)

GUICHON CREEK BATHOLITH - HIGHLAND VALLEY PHASE Late Triassic to Early Jurassic
granodioritic intrusive rocks (LTrJGH)

JACKASS MOUNTAIN GROUP Lower Cretaceous
undivided sedimentary rocks (lKJ)

SPENCES BRIDGE GROUP - PIMAINUS FORMATION Lower Cretaceous
andesitic volcanic rocks (lKSBPva)

SPENCES BRIDGE GROUP - SPIUS CREEK FORMATION Lower Cretaceous
andesitic volcanic rocks (lKSBSva)

UNNAMED Cretaceous
undivided sedimentary rocks (Ks)

UNNAMED Late Cretaceous to Paleogene
quartz monzonitic intrusive rocks (LKTqm)

UNNAMED Late Cretaceous to Paleogene
granodioritic intrusive rocks (LKTgd)

KAMLOOPS GROUP Eocene
undivided volcanic rocks (EKav)

PRINCETON GROUP Eocene
undivided sedimentary rocks (EPr)

UNNAMED Eocene
granodioritic intrusive rocks (Egd)

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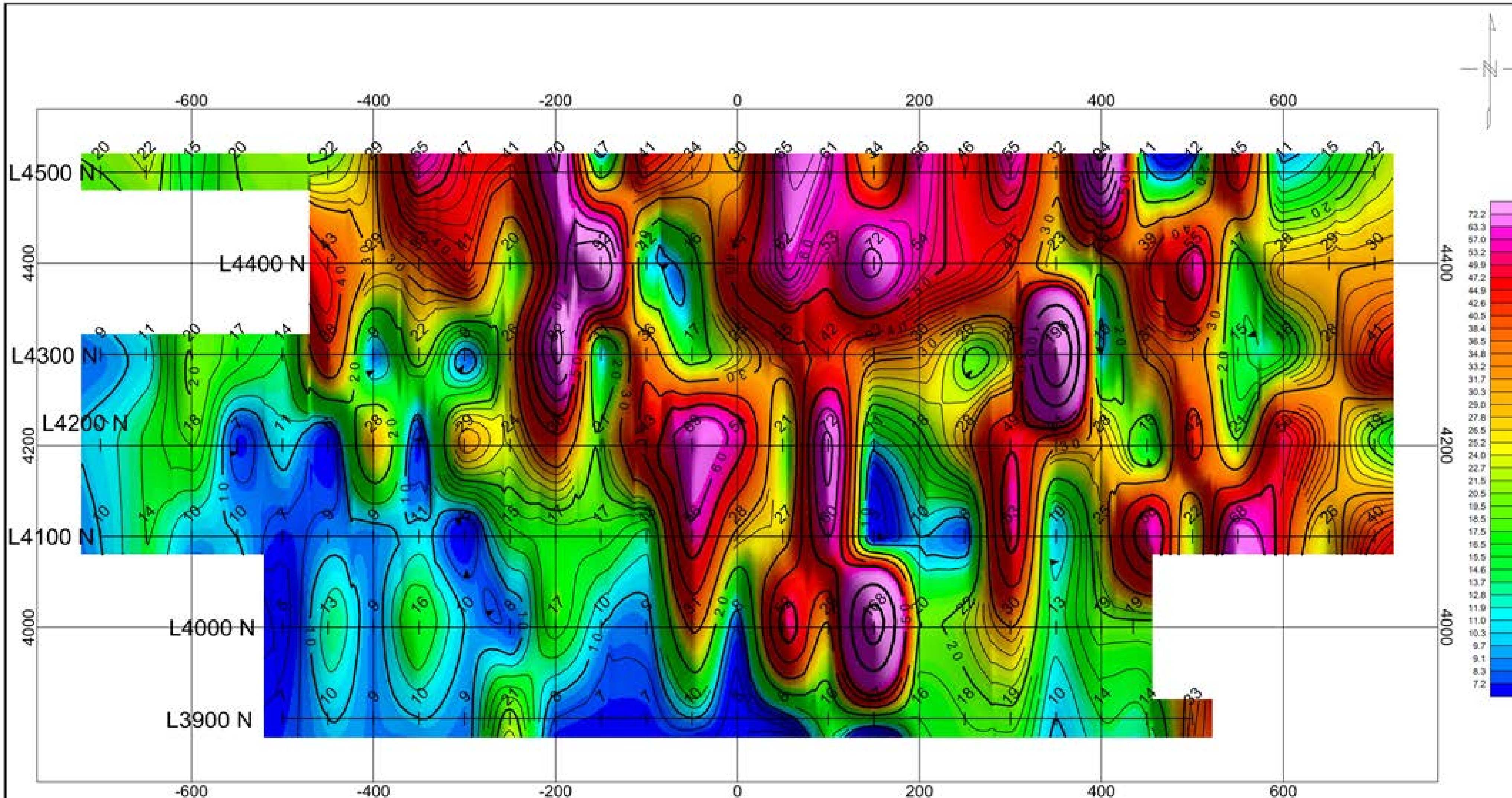
NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

GEOLOGY LEGEND

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I/03 92I/06	Nov ‘13	4a



Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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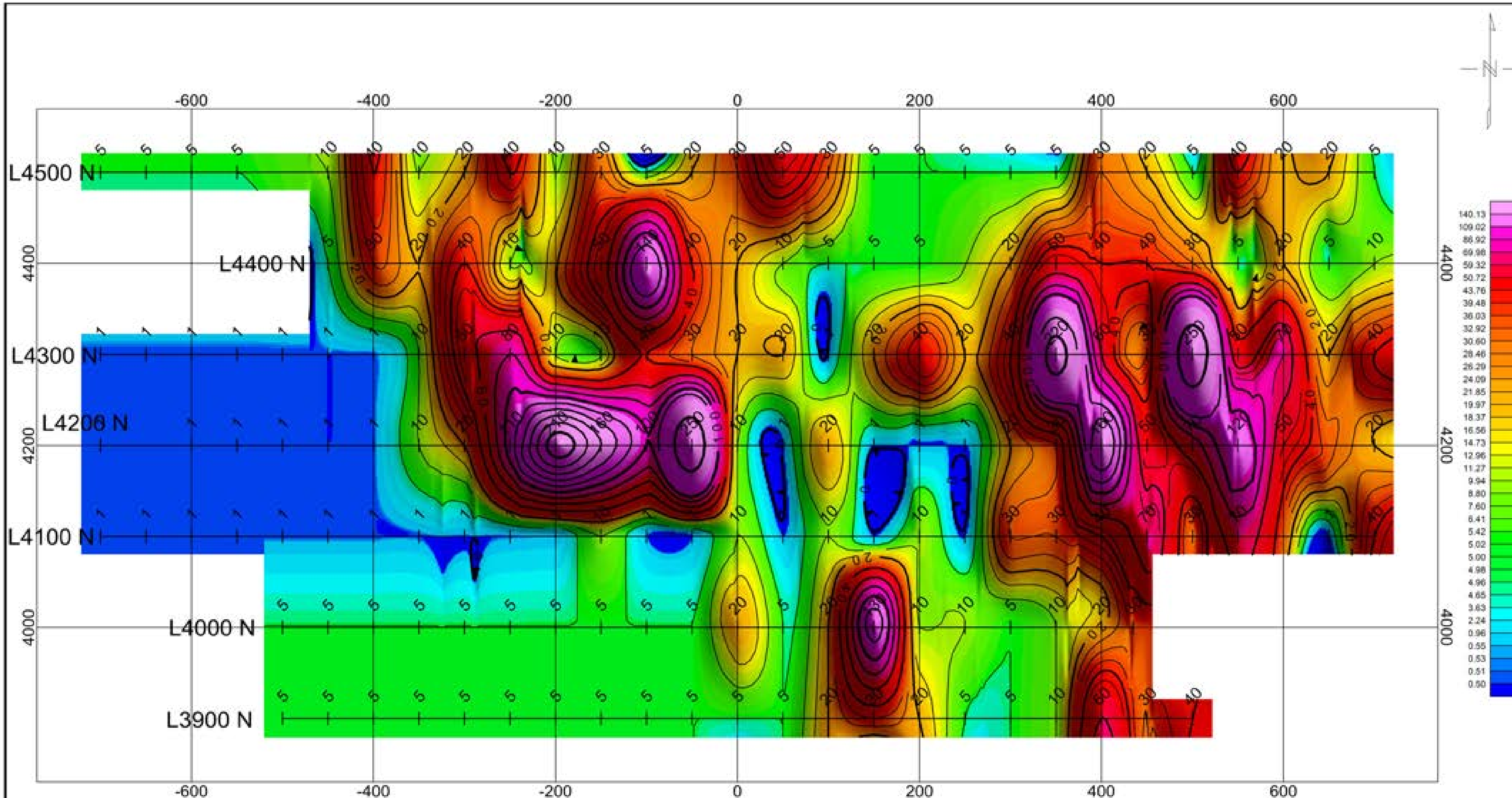
ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

SILVER (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-1



Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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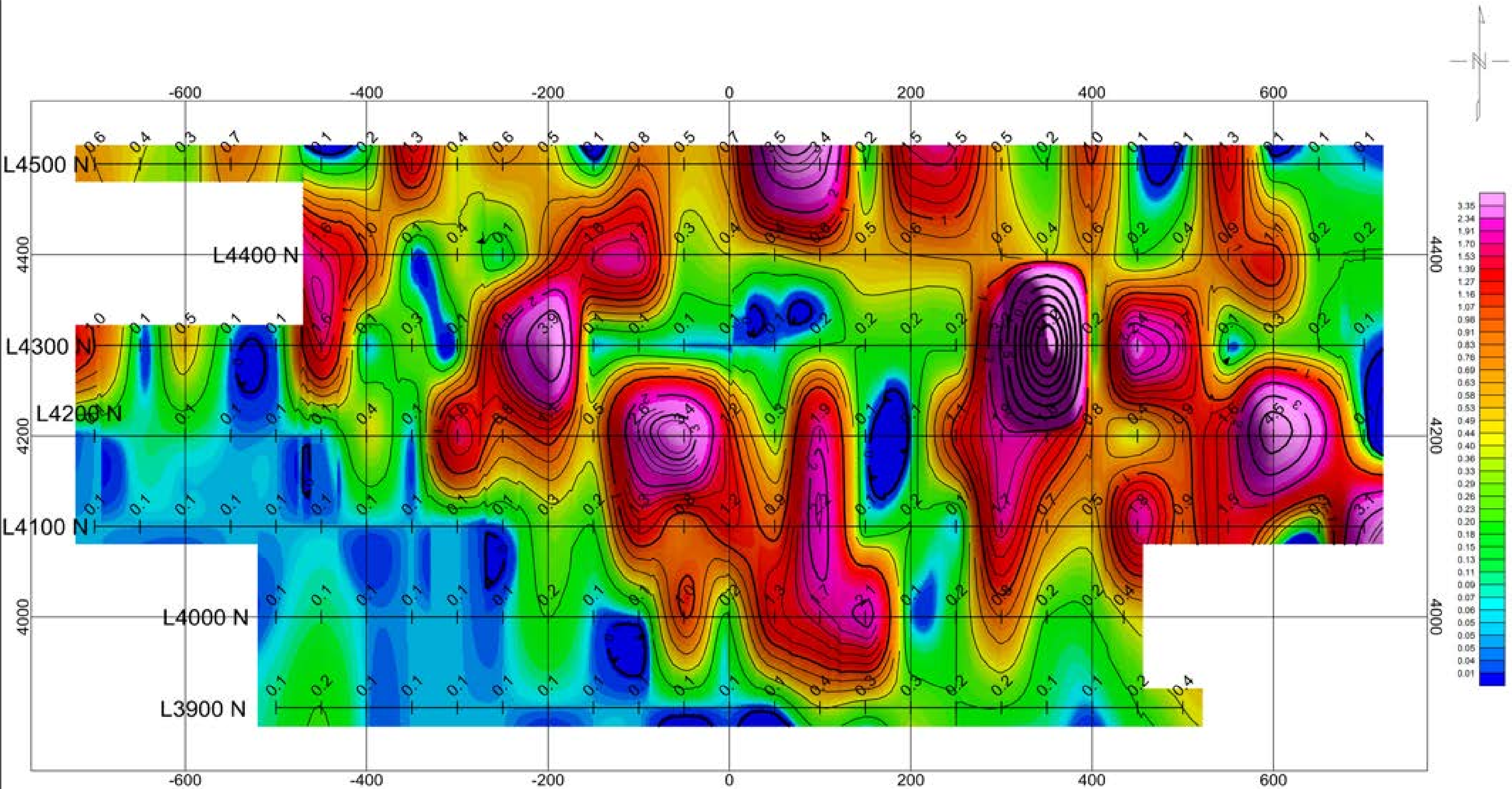
MMI SOIL GEOCHEMISTRY SURVEY *CONTOUR PLAN* ***ARSENIC (ppb)***				
DRAWN BY: CAM	JOB NO.: 12-24	NTS: 92I3W, 6W	DATE: MAY '13	FIG NO.: GC-2



Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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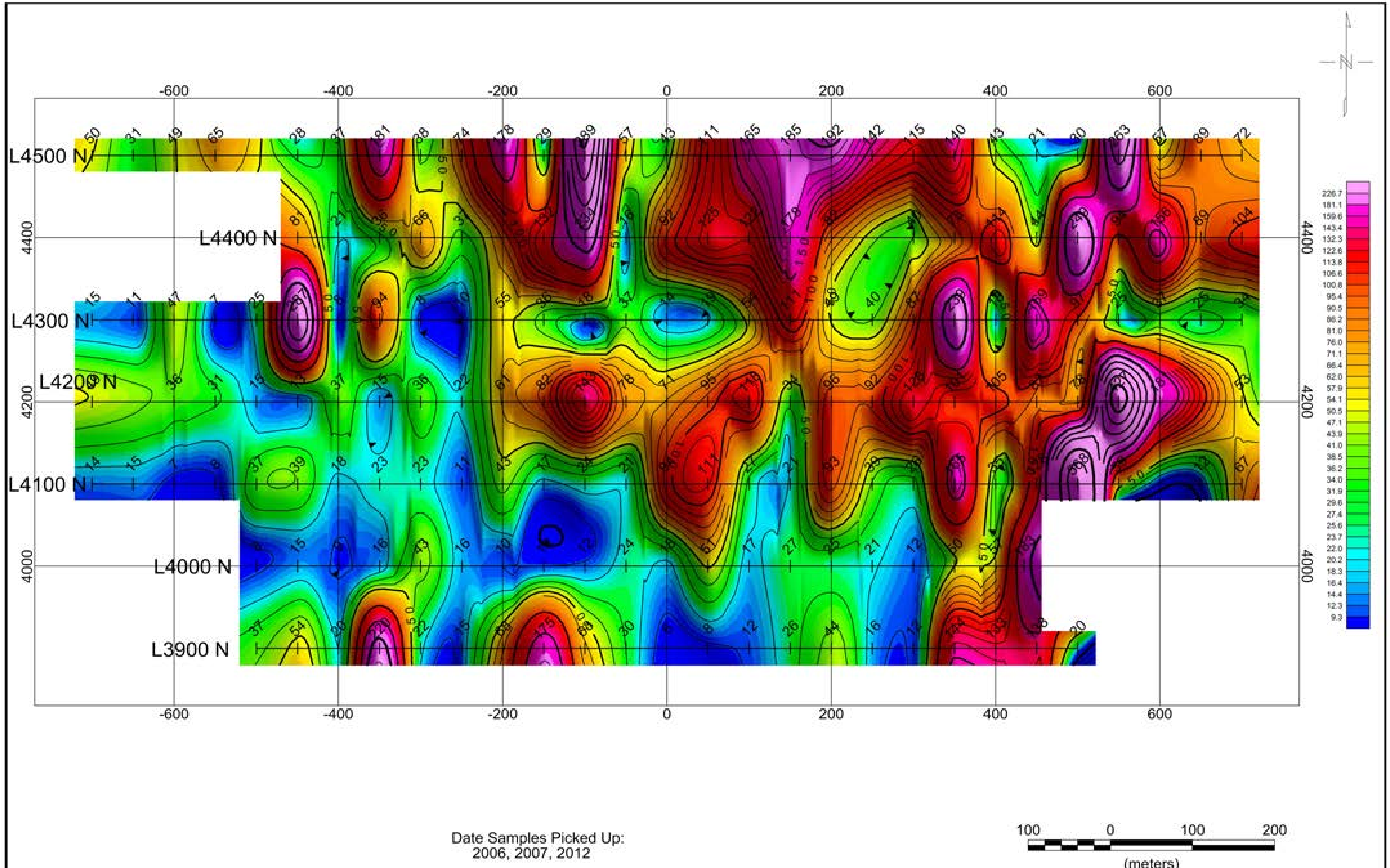
ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

GOLD (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-3



Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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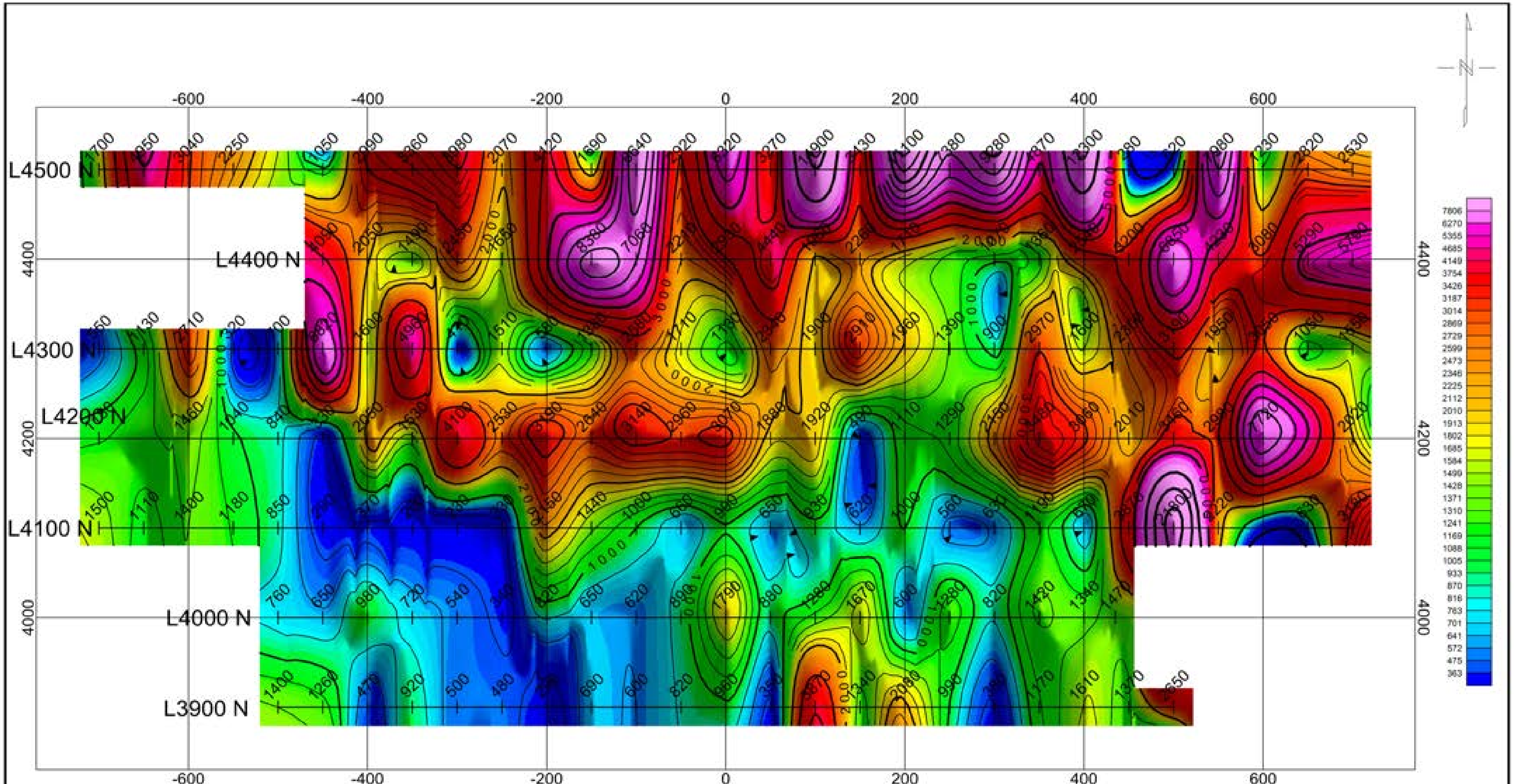
ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

COBALT (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-4



100 0 100 200

(meters)

Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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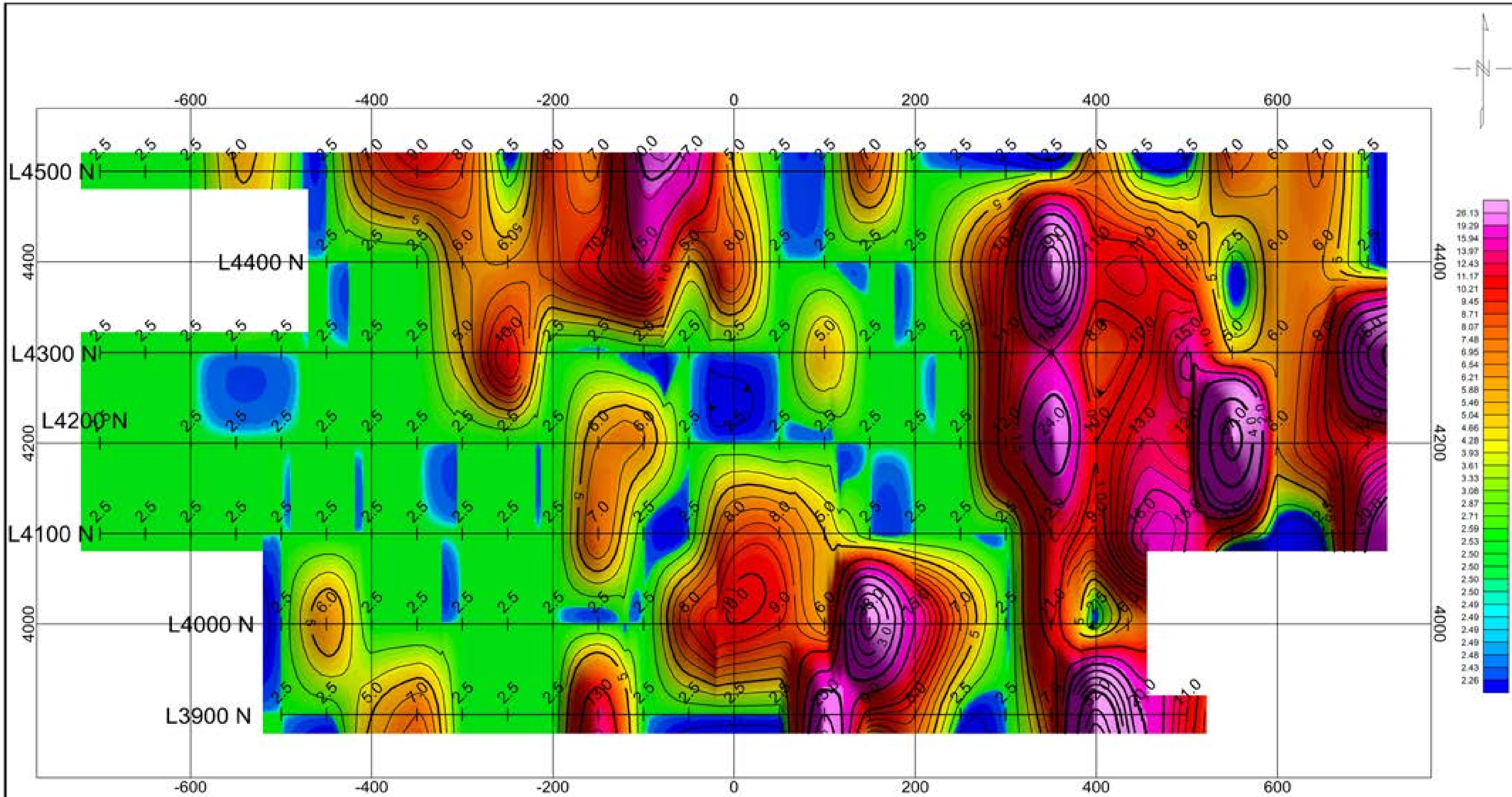
ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

COPPER (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-5



100 0 100 200

(meters)

Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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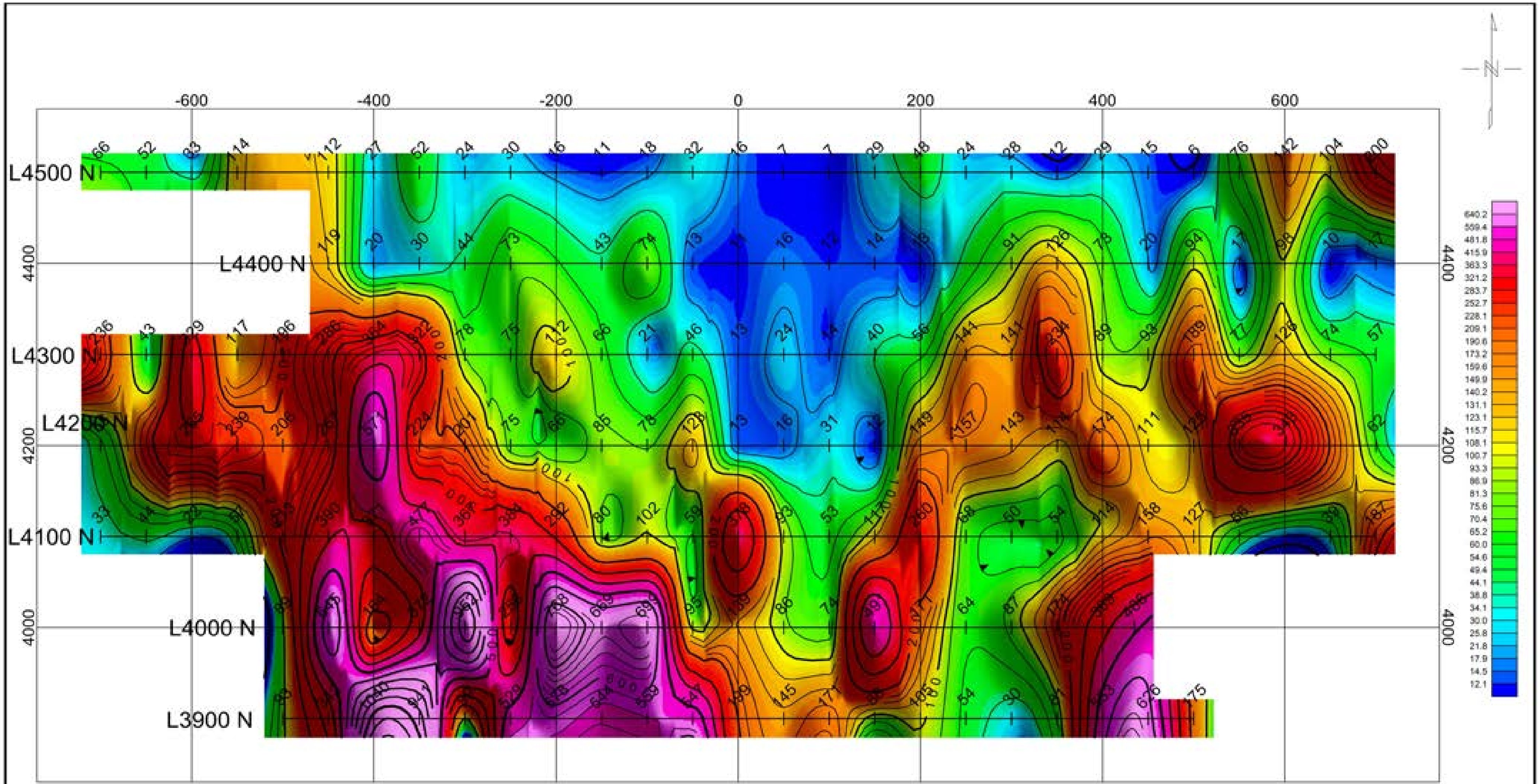
NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

MOLYBDENUM (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-6



100 0 100 200
(meters)

Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

NICKEL (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-7

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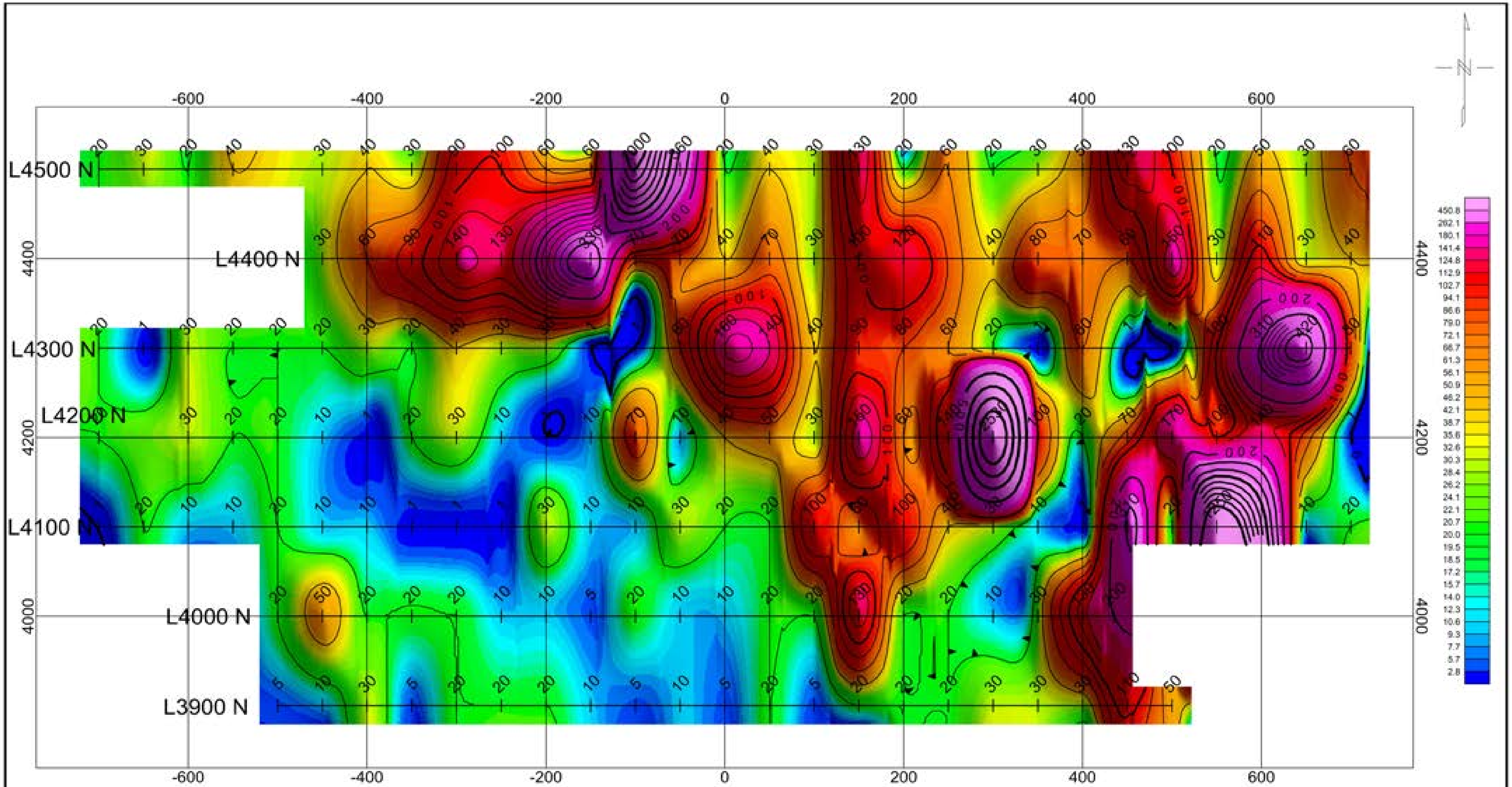

Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

100 0 100 200
(meters)

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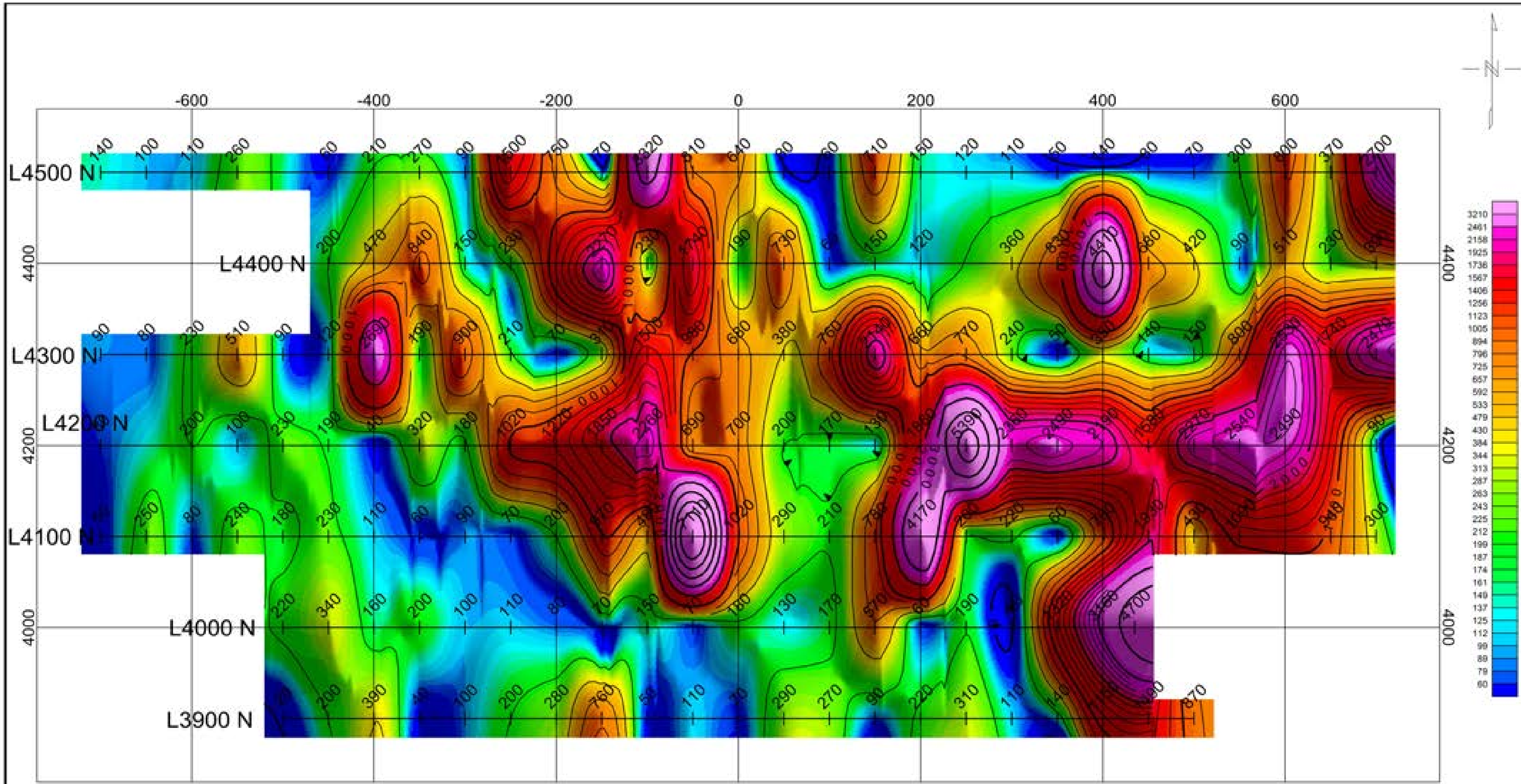
ASHTON COPPER PROSPECT

NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC

MMI SOIL GEOCHEMISTRY SURVEY
CONTOUR PLAN

LEAD (ppb)

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	12-24	92I3W, 6W	MAY '13	GC-8



100 0 100 200

(meters)

Date Samples Picked Up:
2006, 2007, 2012

Soils Tested By:
SGS Laboratories, Toronto, Ontario

Units:
parts per billion (ppb)

Survey Grid Base:
UTM, NAD 83, Zone 10

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ASHTON COPPER PROSPECT NICOAMEN RIVER, LYTTON AREA, KAMLOOPS MD, BC				
MMI SOIL GEOCHEMISTRY SURVEY *CONTOUR PLAN* ***ZINC (ppb)***				
DRAWN BY: CAM	JOB NO.: 12-24	NTS: 92I3W, 6W	DATE: MAY '13	FIG NO.: GC-9