YMIP Grant **12-019**

A Summary Technical Report on the **McQ Project**
A Focussed Regional Module, Hard Rock Type

A Geochemical/Geological Report

Two claim blocks staked under this grant:

20 claims
McQ 1-10, 13-22; YE71541-YE71550, YE71553-YE71562
Centre at 371,780E; 7,052,070N; UTM NAD83 Zone 8
NTS Map Sheet 115P12

and

18 claims **CAVU** 1-18; YE71565-YE71582
Centre at 370,500E; 7,051,000N; UTM NAD83 Zone 8
NTS Map Sheet 115P12

Grant awarded to Jeff Mieras
Work performed by Gordon Richards & Jeff Mieras
Report written by Gordon Richards

January 15, 2013

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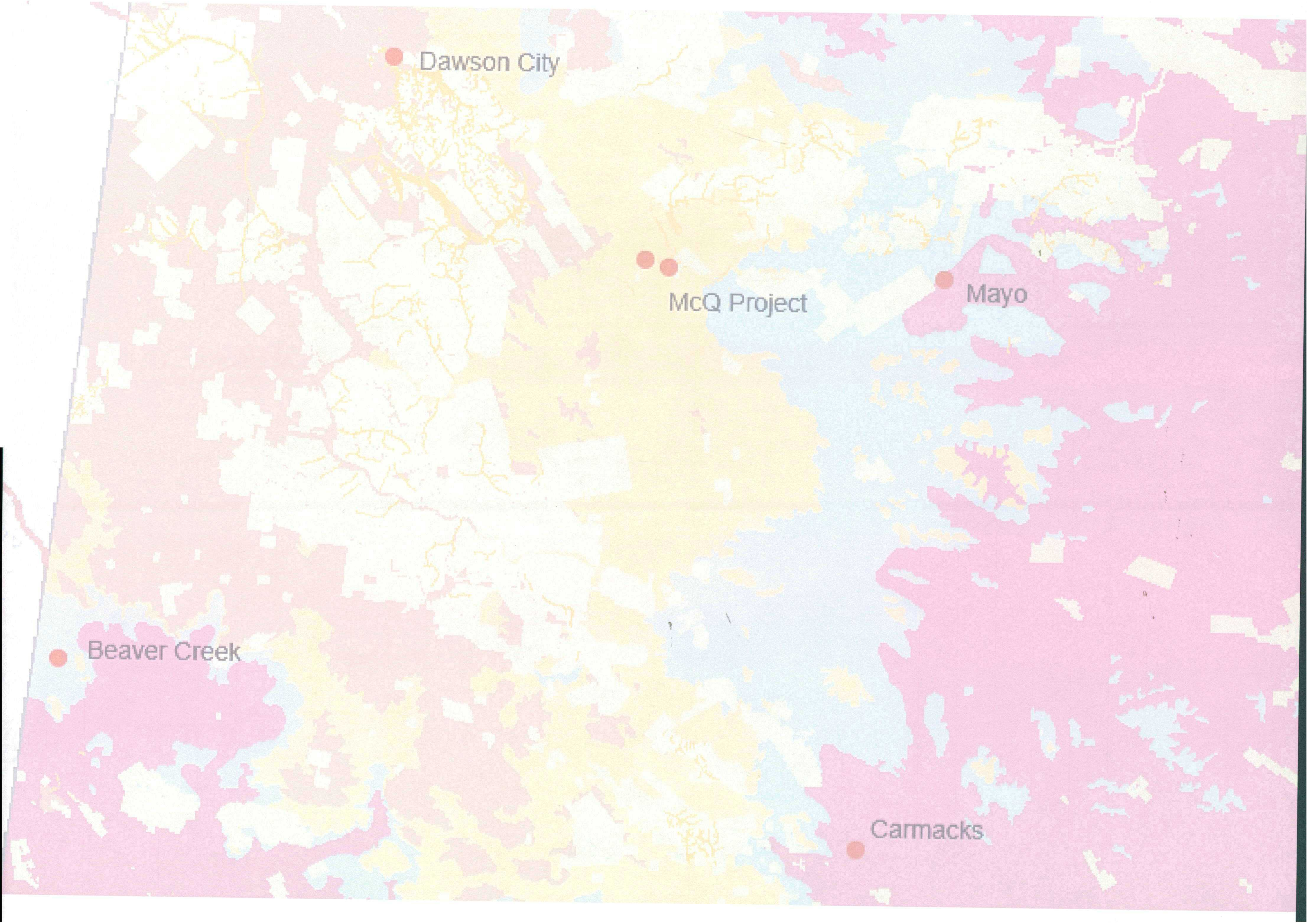
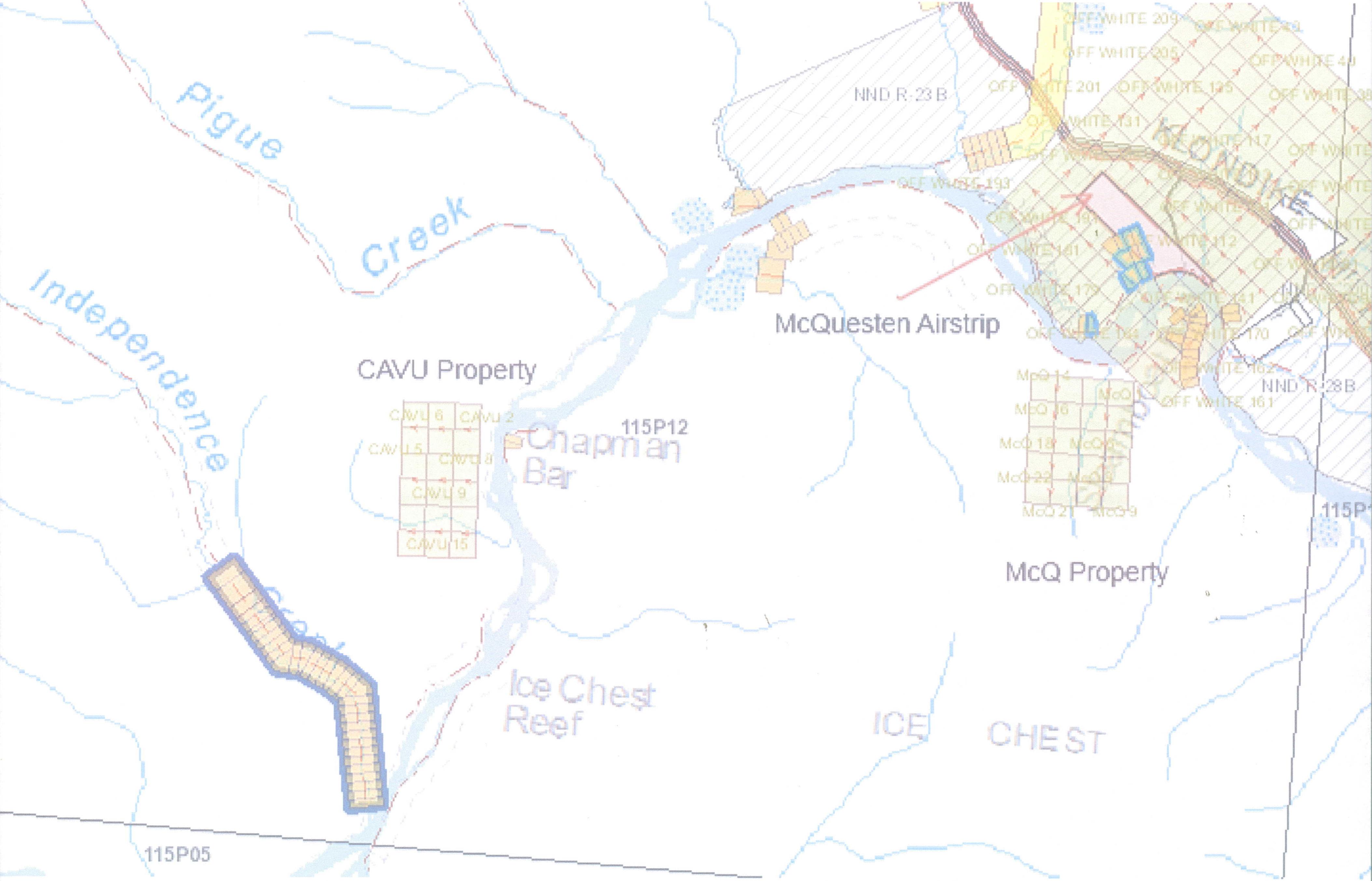


Dawson City
McQ Project
Mayo
Beaver Creek
Carmacks



Pigue Creek
Independence
NND R-23 B
OFF WHITE 209
OFF WHITE 205
OFF WHITE 201
OFF WHITE 193
McQuesten Airstrip
CAVU Property
CAVU 6
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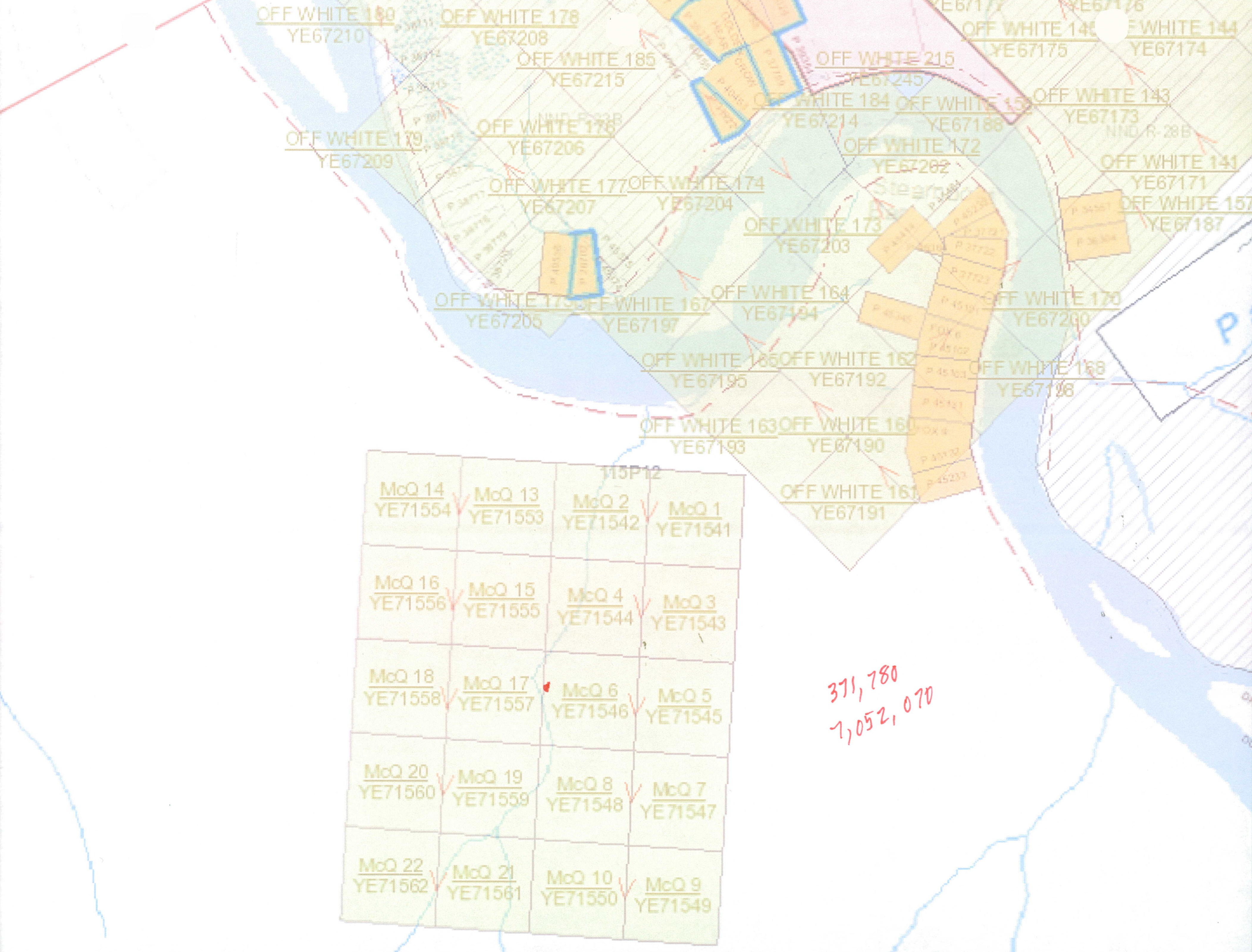
Chapman Bar
NND R-28B
McQ 14
McQ 18
McQ 22
McQ 21
McQ 9
McQ Property
Ice Chest Reef
ICE CHEST
115P05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McQ 4
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McQ 8
YE71548
McQ 7
YE71547
McQ 22
YE71562
McQ 21
YE71561
McQ 10
YE71550
McQ 9
YE71549
371,780
7,052,070

	Table 1. MMI Response Ratios. McQ 2012																									
	gold pathfinders							porphyry			alteration					mafic				rare earth elements						
ID	Ag	As	Au	Ba	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
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M400	5	1	3	2	1	1	5	4	1	1	1	2	3	1	1	3	4	6	2	5	5	6	7	7	6	7
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M402	8	1	2	2	1	1	7	3	1	1	1	8	4	2	1	4	4	3	1	1	1	2	1	2	2	2
M403	12	1	5	2	4	0	5	11	4	4	2	29	5	1	1	6	5	7	1	1	1	1	1	1	1	1
M404	8	1	3	2	1	4	5	2	3	1	1	9	4	2	1	4	4	2	1	4	4	5	4	5	5	6
M405	5	1	6	3	1	1	1	3	1	1	0	5	5	1	1	5	3	1	1	2	1	1	1	2	2	2
M406	3	12	5	1	8	3	4	2	2	1	4	15	1	2	1	1	2	3	64	13	17	20	14	18	13	15
M407	1	4	0	1	2	1	2	1	0	1	3	1	2	4	4	1	1	0	33	1	1	0	1	0	0	0
M408	1	10	0	1	2	2	3	1	2	4	7	4	1	13	12	1	1	1	89	2	2	1	1	1	1	1

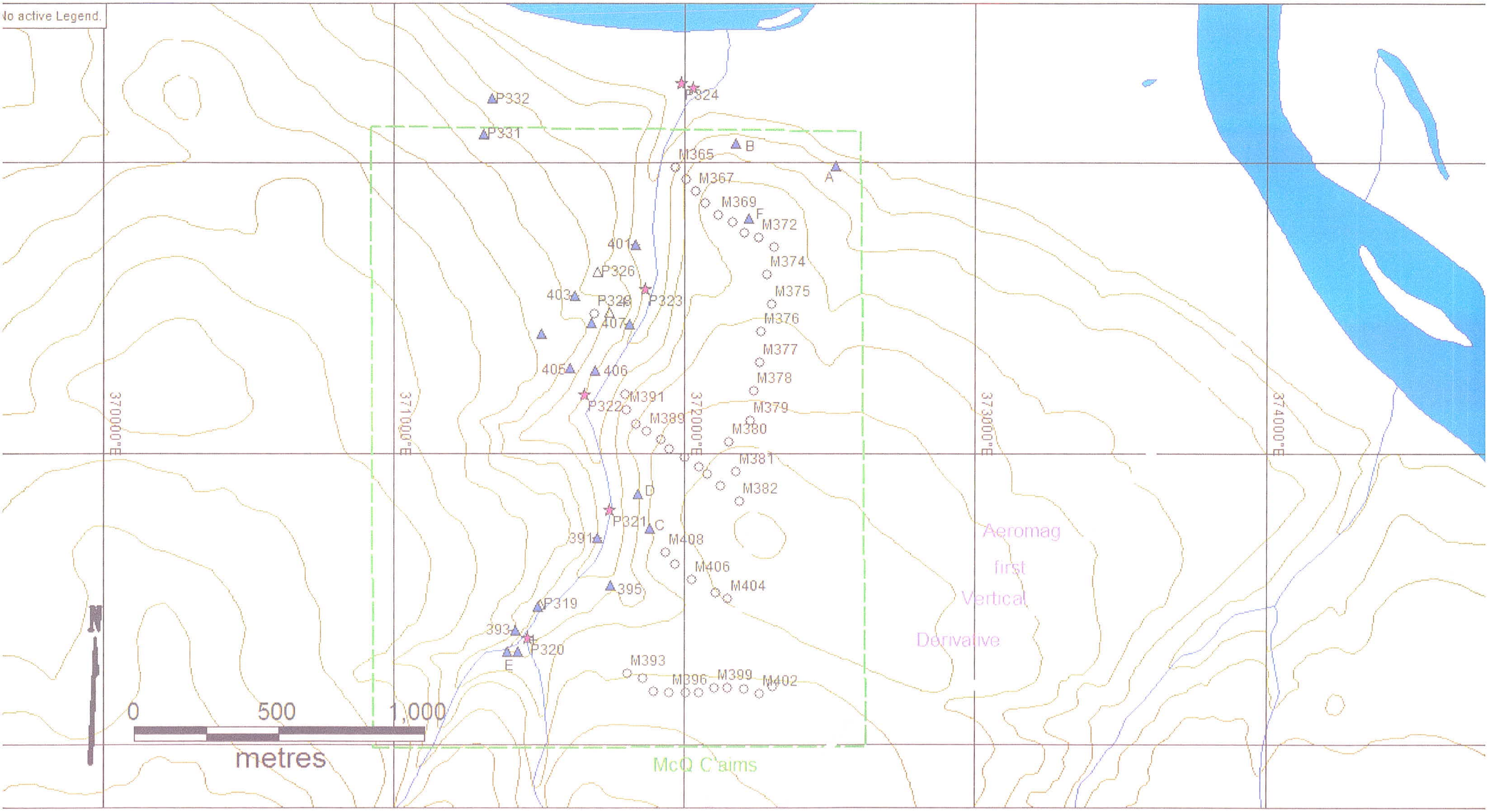
ID	Ag	As	Au	Ba	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
P328	1	4	1	1	1	6	4	1	3	1	3	2	1	3	5	2	3	4	31	7	6	6	11	5	5	6

	Table 2. Rock Sample Descriptions. McQ 2012.
ID	**Description.**
P319	Much angular float on steep hillside with low 10 cm spaced limonite fractures.
	Mafics altered to chlorite. No fracture chlorite.
W of P320	Outcrop leuco granodiorite with fresh mafics.
E (SW of P320)	Outcrop granodiorite unaltered except for low frac limonite and frac chlorite.
	Rare specs of chalcopyrite(?). Traces pyite.
P395	granodiorite with very minor fracture chlorite - limonite
C (E of P321)	Outcrops high on hillside of leucogranodiorite with chloritized mafics locally.
	Mostly coarse grained granodiorite.
D (200 m N)	coarse grained leuco granodiorite with chloritized mafics. No frac chlorite.
A	coarse grained unaltered granodiorite.
B	Dark green angular aphanitic boulders (subcrop).
F	Unaltered coarse grained granodiorite.
P331	Leuco med grained granodiorite with <1% hornblende with fracture chlorite on
	few faces. 5% epidote spotted throughout.
P332	Like P331. Both have micro fractures with chlorite on surfaces.
200 m N P 326	Outcrops along west bank of creek unaltered hbd gd with 5-10% hbd.
P 326	Angular pieces of crackled gd with lim and Mn. Almost a bxia texture.
	Mafics altered to ?? Unknown
P327	Similar to P326. Other larger boulders here are angular with weak crackle-fracting
	Mafics partially altered to chlorite. All leuco gd with 3% mafics.
100 m E of P328	angular float andesite tuff with very weak fracturing and very weak lim.
P328	Angular granodiorite with frac epidote, no limonite.
P329 (405)	Angular float leuco gd with 50% hbd altered to chlorite.
	Limonite fractures very common with 2-5 cm spacing.
406	several pieces of unaltered gd and andesite.
200 m of (405)	float unaltered pink gd with minor chloritization of hbd and biotite. Some andes.
ALL Silts	All float at silt sample sites was of fresh to weakly chloritized granodiorite with
	many pieces of more rounded exotic boulders probably glaicially transported.
	No limonite fractures or chlorite fractures.

Table 3. Stream Sediment Geochemical Results. McQ 2012.

ID	83_E	83_N	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
P320	371464	7051365	0.5	10.8	6.4	35	0.05	12.2	7.1	275	1.42	4.1	3.8	4.1	19	0.1	0.2	0.05	27	0.37
P321	371746	7051808	0.6	12.6	5.1	41	0.05	13.3	7.6	248	1.49	3.8	1.3	2.5	21	0.2	0.2	0.05	28	0.45
P322	371657	7052206	0.6	11.9	6.4	40	0.05	12.6	7.2	249	1.5	4.1	2.3	3.2	22	0.1	0.3	0.05	30	0.41
P323	371867	7052569	0.5	12.8	5.9	42	0.05	14.6	7.4	251	1.55	4	2	3.1	22	0.1	0.3	0.05	31	0.41
P324	371988	7053274	0.5	13.2	6.1	45	0.05	14.1	7.7	300	1.59	4	2.2	3.9	24	0.1	0.3	0.05	29	0.45
P325	372031	7053257	0.6	13.1	6.2	43	0.05	14.3	7.3	273	1.52	4.1	4.6	3.5	24	0.2	0.4	0.05	31	0.43
P330	352790	6978470	0.8	13.8	7.2	44	0.05	15.2	7.4	271	1.6	4.4	0.9	3.5	25	0.1	0.3	0.05	33	0.46

ID	83_E	83_N	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
P320	371464	7051365	0.1	15	18	0	147	0.04	2	0.8	0.01	0	0.3	0	2	0.1	0	3	0	0.1
P321	371746	7051808	0.1	13	21	0	138	0.03	2	0.9	0.01	0	0.1	0	2	0.1	0	3	1	0.1
P322	371657	7052206	0.1	14	21	0	165	0.04	2	0.9	0.01	0	0.3	0	2	0.1	0	3	0	0.1
P323	371867	7052569	0.1	14	21	0	168	0.04	2	0.9	0.01	0	0.2	0	2	0.1	0	3	0	0.1
P324	371988	7053274	0.1	14	23	0	166	0.04	2	0.9	0.01	0	0.2	0	3	0.1	0	3	0	0.1
P325	372031	7053257	0.1	14	22	0	160	0.04	2	0.9	0.01	0	0.3	0	3	0.1	0	3	0	0.1
P330	352790	6978470	0.1	15	23	0	177	0.04	2	0.9	0.01	0	0.2	0	3	0.1	0	3	0	0.1



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P332
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P324
B
A
M365
M367
M369
F
M372
401
M374
P326
403
P323
M375
P328
407
M376
M377
405
406
M378
M391
P322
M379
M389
370000°E
371000°E
372000°E
373000°E
374000°E
M380
M381
D
M382
P321
C
391
M408
Aeromag
first
Vertical
Derivative
M406
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E
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0
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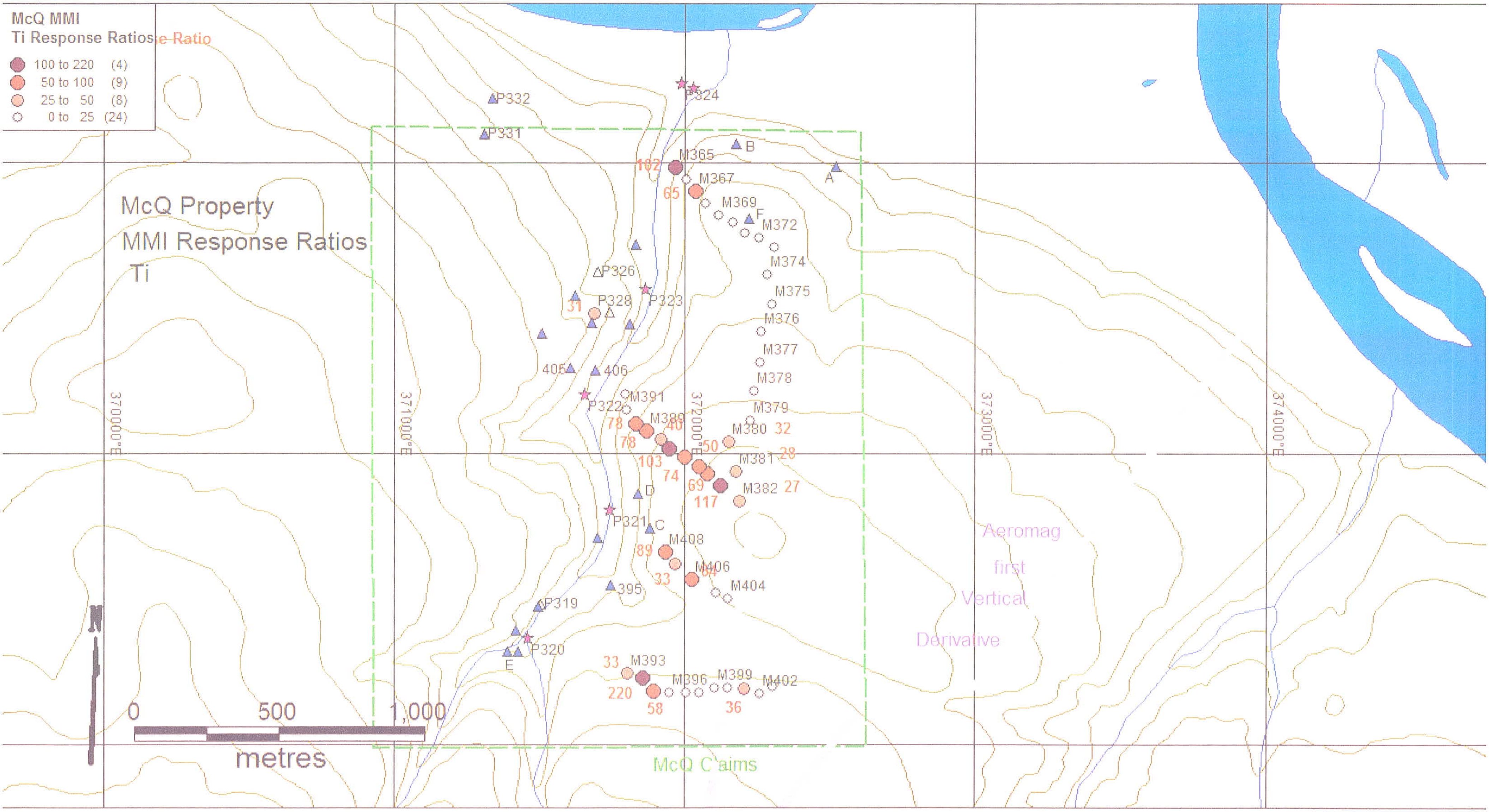
1,000
metres
N
McQ Claims


McQ MMI
Ti Response Ratios
100 to 220 (4)
50 to 100 (9)
25 to 50 (8)
0 to 25 (24)
McQ Property
MMI Response Ratios
Ti
370000°E
371000°E
372000°E
373000°E
374000°E
P332
P331
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M365
M367
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74
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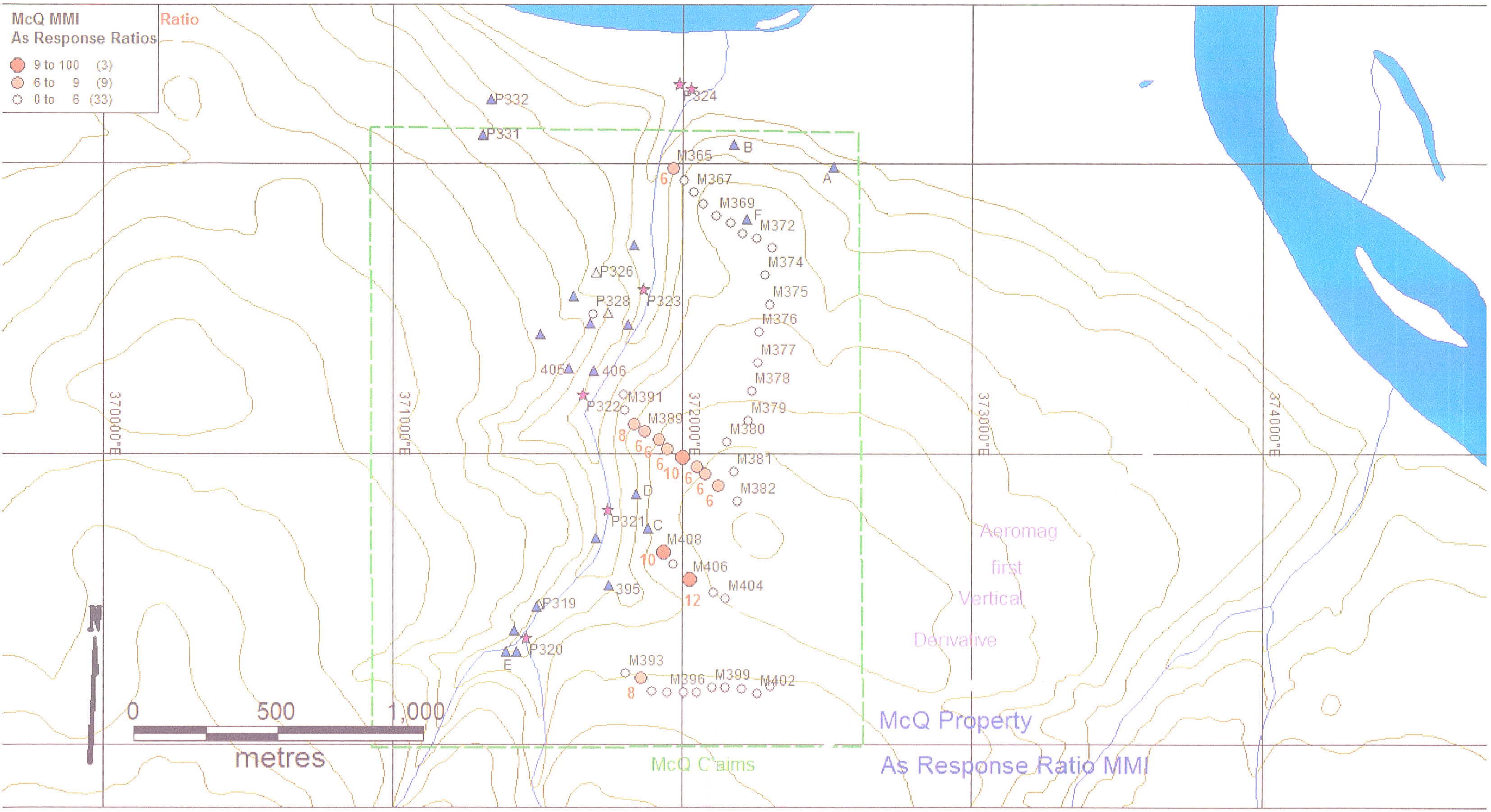
Aeromag
first
Vertical
Derivative
0
500
1,000
metres
McQ Claims


McQ MMI
As Response Ratios
Ratio
9 to 100 (3)
6 to 9 (9)
0 to 6 (33)
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370000"E
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Vertical
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0
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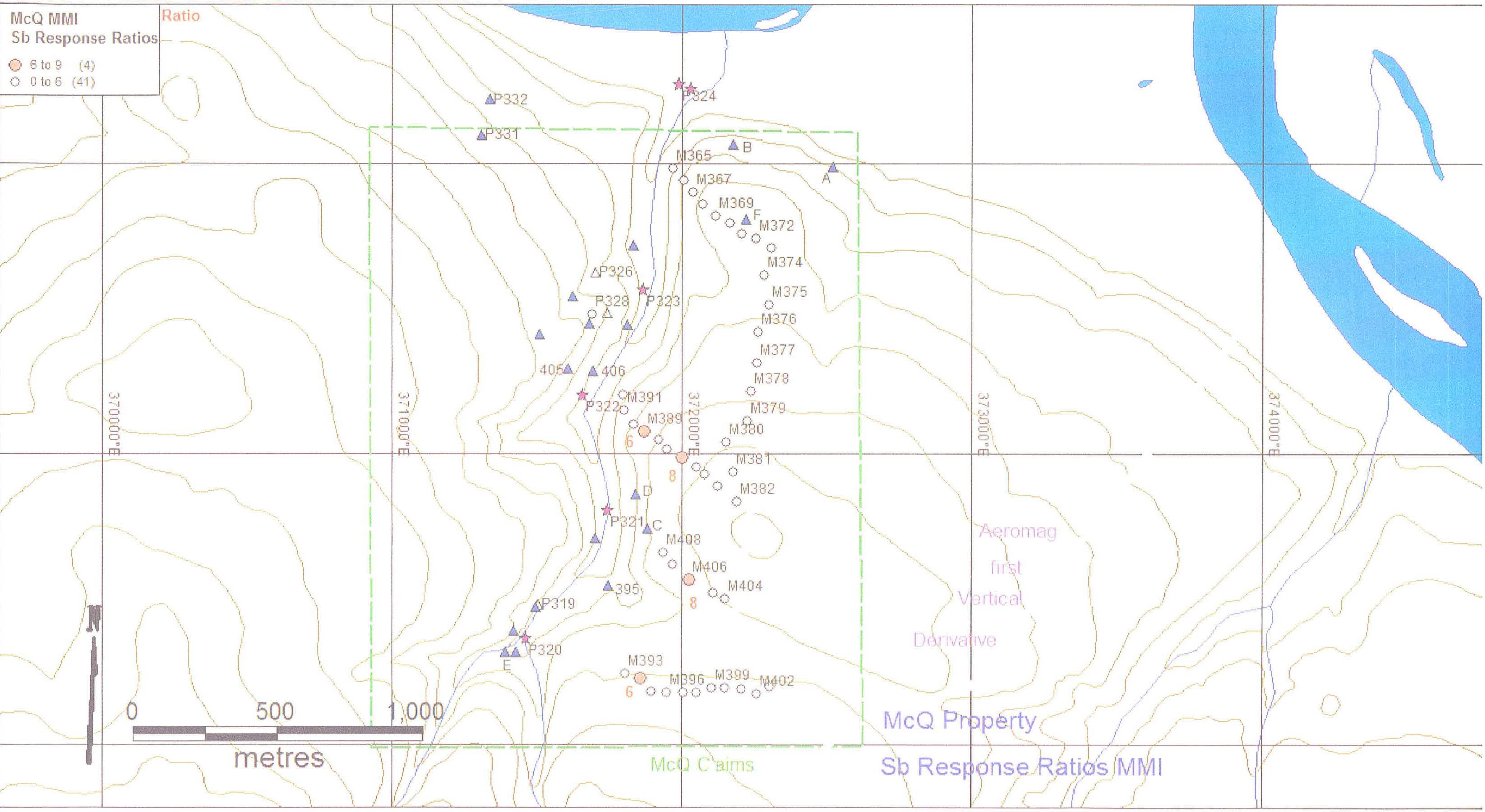
metres
McQ Claims
McQ Property
As Response Ratio MMI


McQ MMI
Sb Response Ratios
Ratio
6 to 9 (4)
0 to 6 (41)
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C
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M404
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P319
P320
E
M393
6
M396
M399
M402
370000°E
371000°E
372000°E
373000°E
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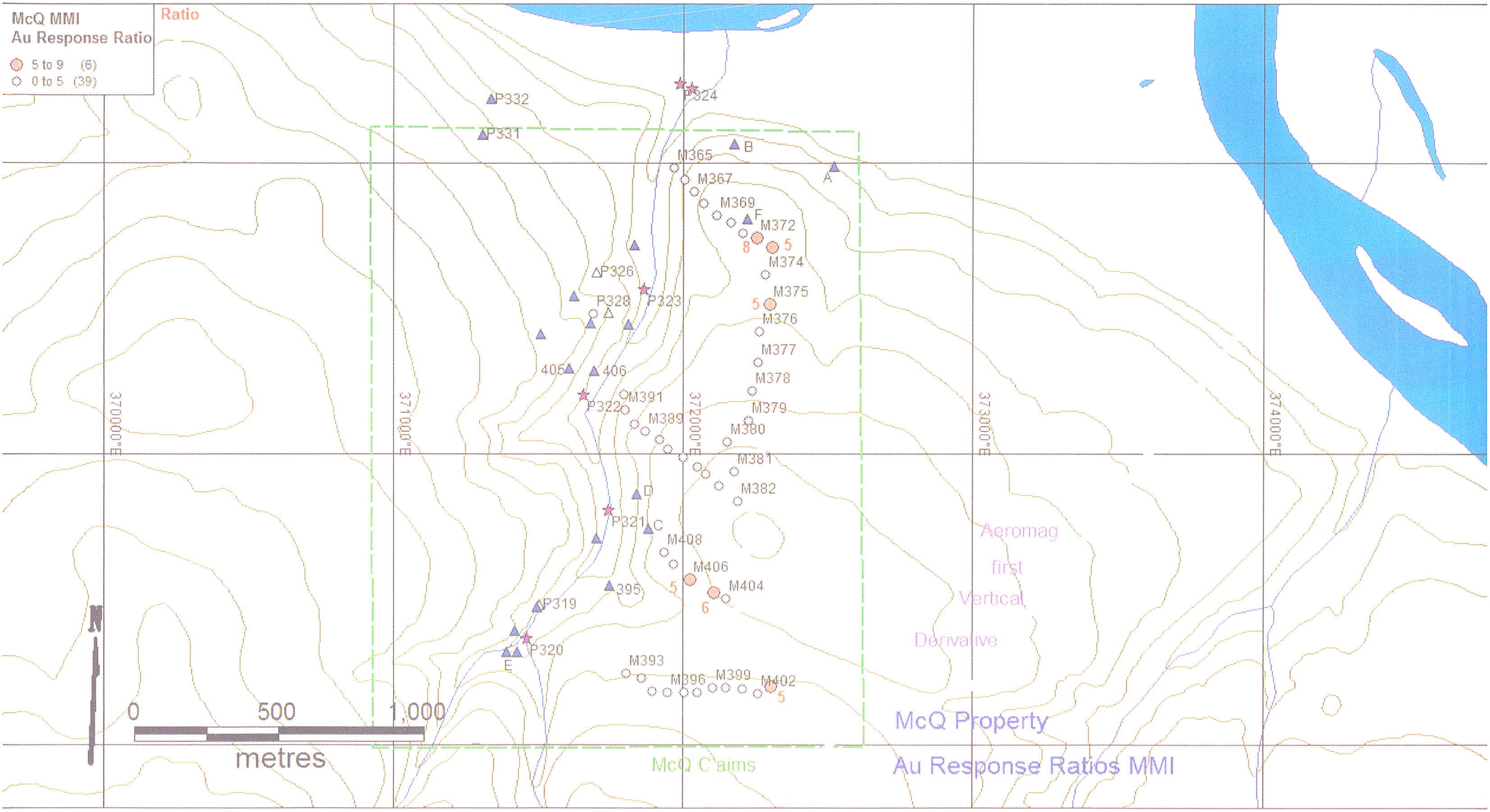
Aeromag
first
Vertical
Derivative
N
0
500
1,000
metres
McQ Property
McQ Claims
Sb Response Ratios MMI


McQ MMI
Au Response Ratio
Ratio
5 to 9 (6)
0 to 5 (39)
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metres
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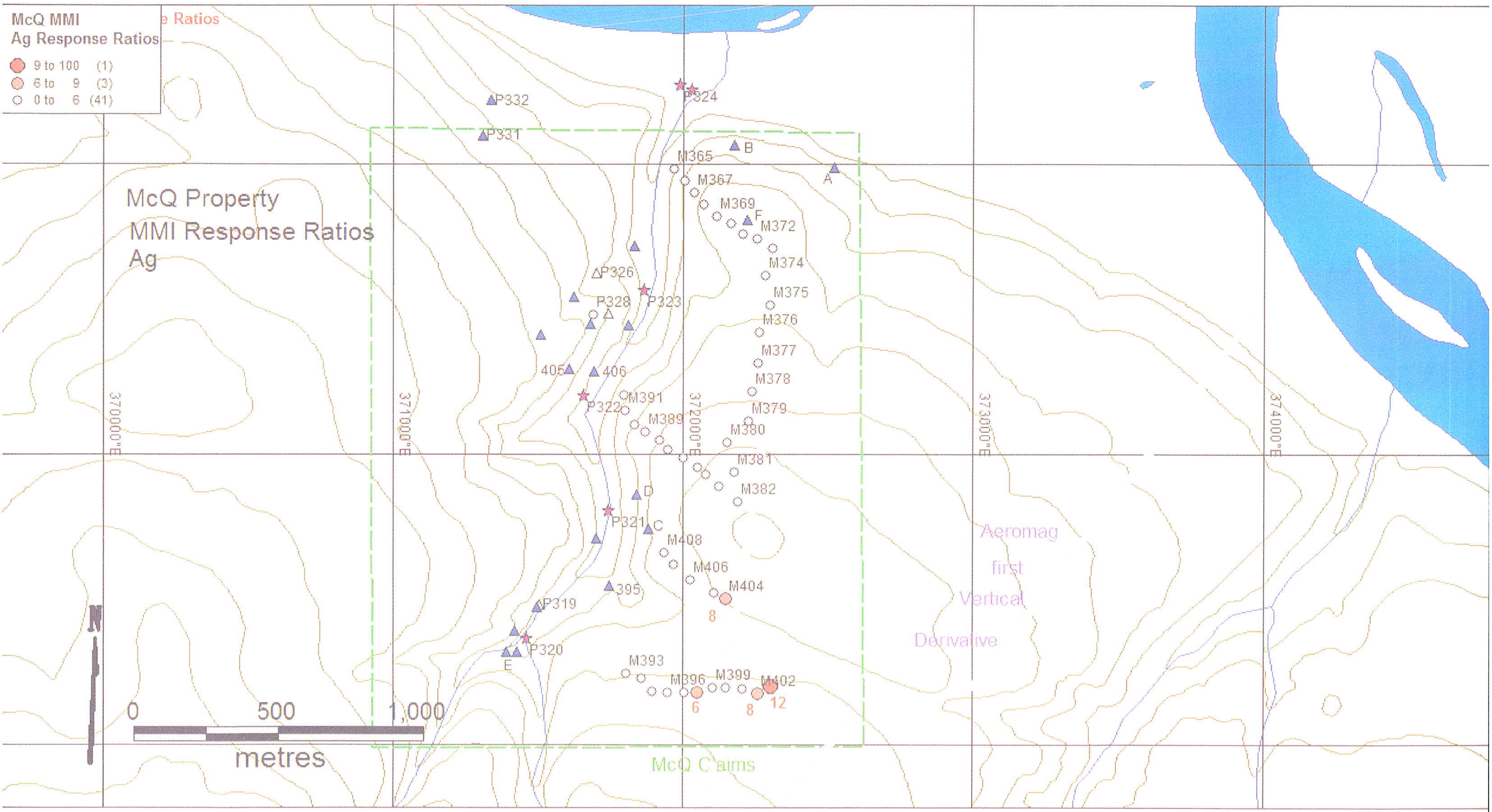
McQ Claims
Aeromag
first
Vertical
Derivative
McQ Property
Au Response Ratios MMI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6 to 9 (3)
0 to 6 (41)
McQ Property
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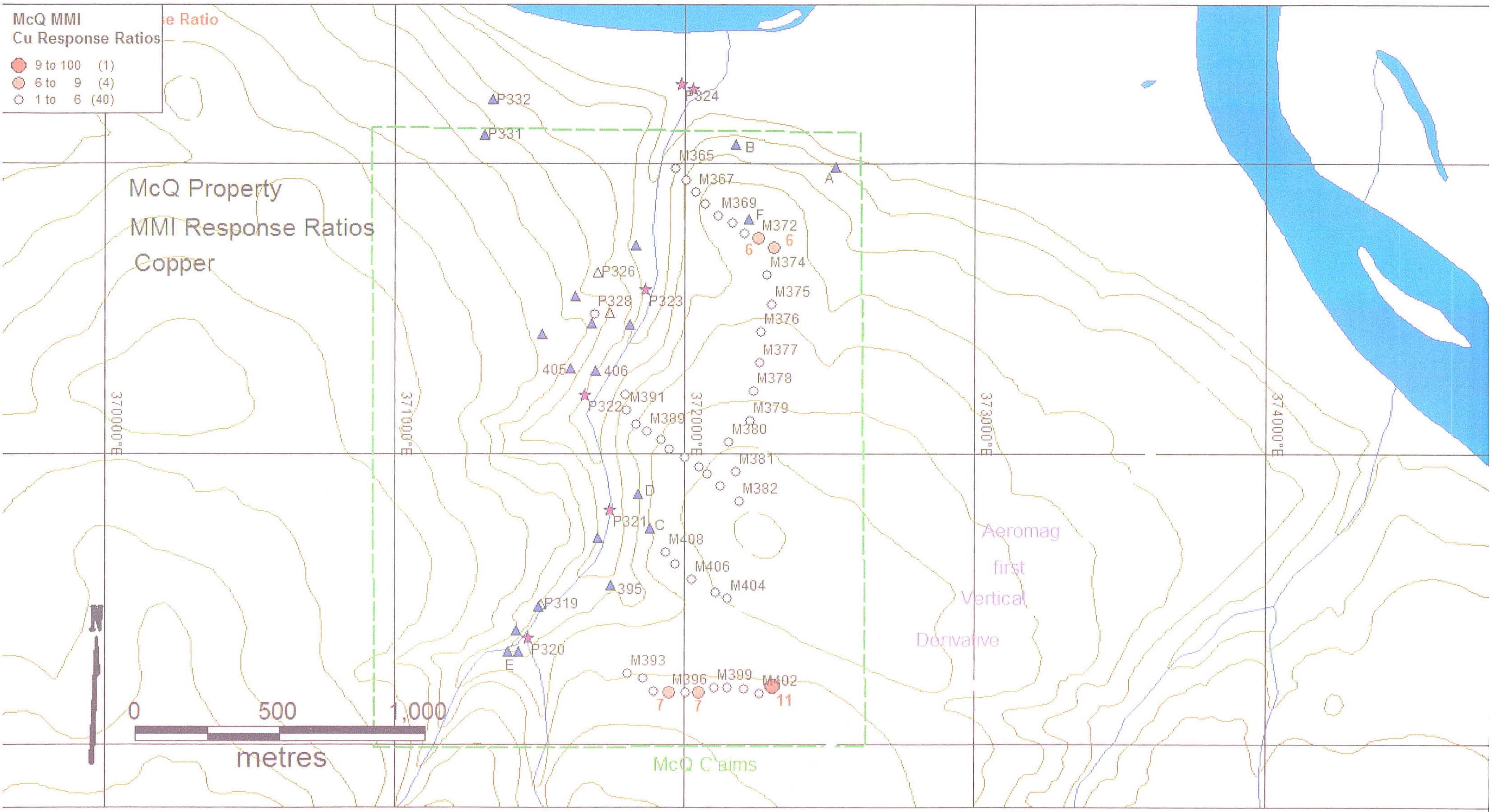
metres
McQ Claims



McQ MMI
Cu Response Ratios
9 to 100 (1)
6 to 9 (4)
1 to 6 (40)
McQ Property
MMI Response Ratios
Copper
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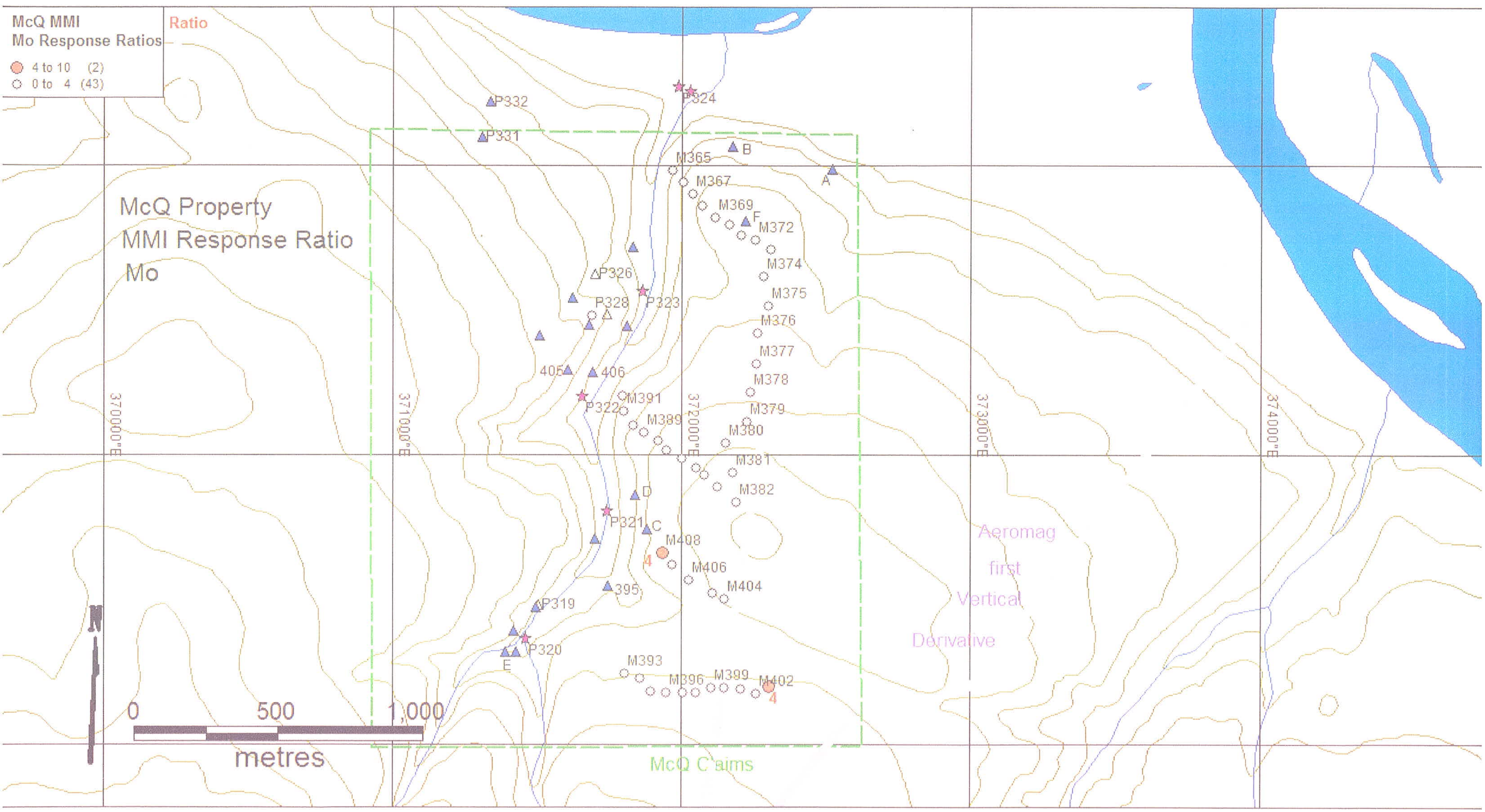
E
M393
M396
M399
M402
6
6
7
7
11
370000°E
371000°E
372000°E
373000°E
374000°E
Aeromag
first
Vertical
Derivative
0
500
1,000
metres
McQ Claims


McQ MMI
Mo Response Ratios
Ratio
4 to 10 (2)
0 to 4 (43)
McQ Property
MMI Response Ratio
Mo
370000"E
371000"E
372000"E
373000"E
374000"E
0
500
1,000
metres
McQ Claims
Aeromag
first
Vertical
Derivative
P332
P331
P324
M365
B
A
M367
M369
F
M372
M374
M375
M376
M377
M378
M379
M380
M381
M382
P326
P328
P323
405
406
M391
P322
M389
D
P321
C
M408
M406
M404
395
P319
P320
E
M393
M396
M399
M402

SUMMARY

Work described in this report was conducted under a YMIP Focussed Regional Grant, Hardrock Type. YMIP No is 12-019 awarded to Jeff Mieras.

The following is an historical account of events on this project:

June 6. Mob Whs to Dawson. Bought supplies. Shared time with other projects.

June 26. Drove Dawson to McQuesten airstrip. Set up camp & inflated boat.

June 27. Staked CAVU.

June 28. Staked **McQ**.

June 29. Drove Dawson and recorded CAVU and McQ claims. Drove McQuesten. Time and costs of recording etc not included in expenditures for this grant.

June 30. Sampled CAVU.

July 1. Sampled CAVU.

July 2. Sampled CAVU.

July 3. Sampled **McQ**.

July 4. Sampled **McQ**.

July 5. Demob to Whs. Sorted and shipped samples. Stored camp supplies and van. Shared this time with other projects.

The target area occurs in the underexplored pre-Reid glaciated terrain east of the White Gold District within the Reid Lakes Batholith. The project area straddles a small north flowing creek on the south side of the Stewart River directly south of the McQuesten airstrip. McQuesten airstrip is located on the Campbell Highway about one and a half hours drive from Dawson City. It is located on NTS Map Sheet 115P12. Centre of the claims is at 371,780E; 7,052,070N; UTM NAD83 Zone8.

Richards and Mieras drove on June 26 from Dawson City to McQuesten airstrip where they set up a fly camp and inflated their Canova boat and readied it for work the next day. From this camp the two prospectors made daily boat trips to the property for staking and sampling as outlined above.

Encouragement for the project comes from geology, RGS data, and aeromagnetic data.

The target area lies within the Reid Lakes Batholith of the Yukon Tanana Terrane. The Reid lakes Batholith is Permian in age, undeformed, unmetamorphosed, and intrudes its' own volcanic pile. Both structurally controlled gold and porphyry Cu-Au-Mo deposits were the targets sought. Host rocks for White Gold District mineralization include all rock types including intrusions (Kaminak) so the area being underlain by a batholith was in no way considered a detriment for Au mineralization.

For the McQ target, RGS sample 1415 has a 70th percentile value for gold (1.7 ppb) and has associated 95th percentile values for Sb, As, Ba, Bi, Pb, Ag, and Zn with 90th percentile values for Hg, Se, and Te. This anomaly is one of the most pronounced anomalies in the 278 sample data set from the pre-Reid glaciated area within NTS map sheet 115P. Samples collected from creeks adjacent to the targeted creek have only a few anomalous pathfinder elements with much lower values than in the targeted creek.

RGS data indicate a potential for Cu-Mo-Au porphyry mineralization, which is supported by the geology. RGS sample number 1415 from the McQ target area has 98th percentile values for both Cu and Mo. Bedrock has been mapped by Ryan and Colpron and others previously as the Reid Lakes Batholith intruding its own volcanic pile similar in size and setting to the Guichon Creek Batholith (hosting the Valley Copper, Lornex, and Bethlehem deposits) of southern B.C. The surface area of porphyry open pit mines can often be contained within a single full size claim so there is plenty of room to discover this style of mineralization within each of the target areas.

The first vertical derivative map provides targets in the form of linears that represent a contrast in magnetic susceptibility usually represented by contacts and faults. These linears occur within the drainage with the RGS silt that was anomalous for gold and pathfinder elements and were used as a guide for soil sampling and float prospecting for structurally controlled gold mineralization.

Traverses were carried out by a combination of geological examination of outcrop and float mainly along the main creek and by soil sampling using selective leach techniques because the area was known to have been glaciated in pre-Reid times and residual soils were believed to be absent. The primary soil sampling method was MMI soil sampling at 100 m intervals on lines crossing the magnetic first vertical derivative highs and spaced so as to give widespread coverage of as much of the area as possible. Where bedrock and subcrop exposures of unmineralized intrusive rock were encountered no samples were collected. Refer to figures for coverage in relation to the magnetic lows and highs. Refer to Table 3 for rock descriptions of outcrop and float.

All garbage was removed from camp and taken to Dawson City for disposal.

SURVEY METHODS

General

Soil sampling used the selective leach MMI analyses because the area had been glaciated during one or more pre-Reid glacial periods and MMI soil sampling can "see through" deep overburden including glacial till.

Four man days were spent by Jeff Mieras and Gordon Richards collecting 45 MMI soil samples, seven silt samples and examining outcrops and float. GPS coordinates were recorded using a UTM, Zone 8 Projection.

Sample details such as rock type and mineralization, soil colour, texture, depth, dampness and site slope were described in notes. Their locations were recorded in a Garmin GPSmap 60Cx. Some UTM co-ordinates were also recorded in notebooks as a backup in case of loss of the GPS unit or loss of data stored on the unit. No such loss occurred. Sampled material was placed into numbered bags as described below. Soils were collected at 100 m intervals on widely space lines designed to give broad coverage and cross the magnetic vertical derivative highs wherever possible.

Response ratios for 27 elements were calculated for all 45 MMI soil samples and are provided in Table 1. Geochemical results for 36 elements were calculated for the 7 stream sediment samples and are provided in Table 3. Anomalous results greater than selected threshold values for Au, Ag, As, Sb, Cu, Mo, and Ti are shown graphically on the figures. Lab results and spreadsheets showing GPS location with the geochemical data are provided in Appendices.

Geology.

Gold possibly related to the magnetic vertical derivative highs was one target. This target is modeled after the White Gold District structurally controlled deposits with the realization that other gold bearing systems are certainly possible. Expected size of geochemically anomalous zones is up to three km long and up to 500 m or so wide. There are numerous examples from the White Gold District where a reconnaissance style soil line with a 100m spaced sample interval yielded only one anomalous sample that eventually led to the discovery of significant gold mineralization.

Porphyry style Cu-Au-Mo mineralization is the other target. In the following evaluation of the porphyry potential, the expected size of a porphyry system was used. In British Columbia the size of some of the cal-alkalic porphyry deposits was measured by scaling size of pits from Google Earth. The outside of the pits is clearly beyond the limits of ore but is considered to be within the geochemically anomalous halo or footprint and thus provides a crude expected geochemically anomalous target size for a porphyry deposit. Sizes of B.C. porphyry pits are:

Valley Copper	1800 m diam
Lornex	2000 m x 1300 m
Bethlehem	4 pits 500 to 600 m diam
Gibraltar	3 pits 1100 x 700 m, 1100 m diam, 500 x 1100 m
Granisle	2 pits 600 m and 700 m diam
Island Copper	2200 m x 1000 m
Brenda	800 m diam
Huckleberry	2 pits 500 m and 600 m diam

Porphyry target size is therefore in the 500 m to 2000 m diameter range. The first three pit sizes on the above list are from the Guichon Creek Batholith which is similar in size to the Reid Lakes Batholith. Both batholiths intrude their own volcanic pile.

Stream Sediment Samples.

Silt samples were collected from active silt in the creek and placed into numbered kraft sample bags and their GPS co-ordinates recorded in a handheld GPS unit. Samples were sent to Acme labs in Vancouver where they were dried at 60 degrees C, sieved to -80 mesh, digested in 1:1:1 Aqua Regia, and analyzed with ICP-MS. Results are reported in Table 3 and in an Appendix.

MMI Soil Samples.

MMI analysis uses a weak partial extraction to improve the conventional geochemical response over buried ore deposits. The process measures the mobile metal ions from mineralization, which have moved toward the surface and become loosely attached to the surfaces of soil particles. They concentrate within the 10 to 25 cm soil depth which on the property is a mixture of loess and till. Its effectiveness has been documented in over 1000 case histories on six continents and includes numerous commercial successes. The anomalies are sharply bounded and in most cases directly overlie and define the extent of the surface projection of buried primary mineralized zones. The MMI process is a proprietary method developed by Wamtech of Australia. SGS Minerals Services in Toronto purchased all rights to the method and provides analyses in Canada.

Watch and ring were removed prior to sampling. Pits were dug by shovel to a depth of 30 cm in order to expose the soil profile for sampling. The profile was scraped clean with a plastic scoop to remove any metal effect from the shovel. A continuous strip of soil was collected by plastic scoop over the interval of 10 to 25 cm below the top of true soil, placed in a pre-numbered ziplock baggie and placed in an 11 inch by 20 inch 2 mil plastic bag. Loess was present at sample sites on gentle slopes and along with some till was the sample medium for these samples. On steeper slopes the loess was absent and till was the sample medium. Samples were kept cool until they were shipped to SGS Minerals Services in Toronto for analyses.

In the SGS Lab, samples are not dried or prepared in any way. The MMI process includes analyses of an unscreened 50-g sample using multi-component extractants. Metal contents are determined for 53 elements by ICP-MS in the parts per billion range.

Response Ratios were calculated for 27 elements as shown on Table 1. The average value for results of the lower quartile was calculated for each element. One-half of detection limit was used for those samples with values reported as less than detection limit. Then each result was divided by the lower quartile average to obtain its response ratio. A response ratio of 10 or more is considered very significant for indicating underlying mineralization. Lesser values of 5 to 10 can also be important particularly where more than one element has such a value. Response ratios can best be thought of as a multiple of background in interpreting results.

RESULTS

MMI response ratios for Au, Ag, As, Sb, Cu, Mo, and Ti are shown graphically on the attached figures and are available for many more elements on Tables 1 and 2. The figures also show the aeromagnetic vertical derivative highs, outcrops, subcrops and areas of abundant angular float.

Geology.

The target area lies within the Reid Lakes Batholith best described by Ryan and Colpron in their Geoscience Map 7 of southwestern McQuesten mapsheet. Most outcrops were a coarse grained hornblende granodiorite with a mafic content of one to four percent. Weakly developed Kspar phenocrysts comprising up to 5% of rock volume were noticed in a few outcrops and float. Chloritization of mafics was observed in a few outcrops along widely spaced fractures. Epidote occurred as disseminations in a few samples. Limonite was seen in several areas within float and outcrop. The most intense limonite was seen in numerous small pieces of float on the west side of the creek at sample P329. Very minor fracture pyrite was seen at station 'E' where one speck of chalcopyrite was also seen in an outcrop about 20 m long. Much of the granodiorite was leucocratic and of a very pale green as a result of near complete chloritization of mafics. The alteration was not of a porphyry style as fracturing in general was low. No live limonite along fractures was seen in outcrop or float as might be expected alongside a structurally controlled gold occurrence. However there were large tracts of no outcrop or angular float that could easily conceal such alteration styles. Geology was only recorded along Richards traverses and from hand specimens returned by Mieras.

Glaciation is described as pre-Reid in age. Reid glaciation began 200,000 years ago and ended about 50,000 years ago. The glaciation across the general area of the McQ Project is described as much older than Reid, possibly older than 500,000 years (Jeff Bond, personal communication, 2012). Presence of tills was confirmed in most soil pits. A 5 to 20 cm thick post McConnell age loess deposit blankets most of the hillsides that along with till makes mapping of underlying geology and the observation of altered float difficult. On steeper slopes much of the loess has been removed by weathering although till remains.

Although chloritization of mafics was widespread and some fracture chlorite was observed and even limonite and minor pyrite was seen to occur on some fractures no alteration that could be deemed to be adjacent to a porphyry deposit was seen. However the alteration could be the outer limits of significant porphyry mineralization.

No live limonite such as occurs around and within known gold occurrences within the White Gold District were seen in outcrop or float on hillsides or in the creek.

Stream Sediment Samples.

Seven silt samples were collected along the main creek in the hopes of finding anomalous results that could provide some direction to mineralization. Extensive float analyses was also carried out at this time. As can be seen from the geochemical values on Table 3 results were disappointing with practically no variability for any elements.

Response Ratios.

The most pronounced response ratios are for Ti, with response ratios of 33 to 220, which mimic a similar pattern for moderate As response ratios of 6 to 12. There is an apparent north-south trend to these zones and they occur up to a width of 400m. The Ti high values could be representing a particular intrusive phase with a higher illmenite content. The As could be part of a hydrothermal event. Granodiorite outcrop observed at C and D in this area (see figures) is leucocratic with much of the mafics altered to a pale green chlorite. Four Sb response ratios of 6 to 8 occur within this As-Ti anomaly. Two weak gold response ratios of 5 and 6 occur along the east side of this anomaly near the locus of the aeromagnetic first vertical derivative high. This pattern of As-Ti±Au±Sb is a weak lead for gold mineralization in the survey area but it could strengthen uphill to the south. Two soil sample traverses would be sufficient to test this potential.

The extreme southeastern MMI samples yielded four anomalous Ag values in the 6 to 12 range, three anomalous Cu values in the 7 to 11 range and one Mo value of 4. This 4 value for Mo stands out from a monotonous background value of 1 on Table 1 so it may have some significance for underlying Mo mineralization.

The most southeastern sample has the highest value for Cu, Ag, and Mo and has a response ratio of 5 for Au. This pattern may represent the outside limit of porphyry mineralization lying east and south of here. Such an occurrence would help explain the high metal values in the RGS sample from the main creek. Two soil sample traverses would be sufficient to test this potential.

CONCLUSIONS AND RECOMMENDATIONS.

- Outcrops of coarse grained weakly Kspar porphyritic hornblende granodiorite coincided with the geology of the Reid Lakes Batholith as described by Ryan and Colpron.
- The hillsides are covered in till with discontinuous and partially admixed loess covering it. No residual soils were seen anywhere on the traverses.
- Selective leaches of soils using MMI analyses provided two anomalous multi-element patterns of varying strengths. The patterns are not confined within the present survey area but lead off it onto adjacent land. It is recommended that follow-up soil sampling on the two targets be conducted using MMI soil sampling.
- One target is a porphyry Cu-Mo-Au target that could lie south and east of the southeasternmost part of the present survey area. It is defined by modest strength response ratios for Cu, Ag, Au and Mo in a cluster of samples in the southeastern limit of the present survey as shown on the figures.
- A second target of As ±Sb, ±Au occurs along a north-south trend parallel to and east of the main north flowing creek. High Ti response ratios mimic the pronounced high As response ratios and could be indicative of an illmenite or rutile bearing phase of the Reid Lakes Batholith. A first vertical derivative aeromagnetic anomaly lies immediately east of the anomalous metal patterns and could represent the contact between different intrusive phases. It could be a gold mineralized fault. The geochemical trend is open to the south. This area to the south is considered the best target for follow-up prospecting for gold mineralization.

- It is recommended that on the porphyry target, MMI soil lines should be run east from M404 and M403 and another line 400 m further south with a sample interval of 100 m.
- It is recommended that on the As ±Sb, ±Au target east-west MMI soil lines be run across the southerly projection of the As trend at a 50 m sample interval on lines spaced 200 m apart. Six such lines could be collected by two men in one day.
- Silt sample results using Acme's 1DX2 analyses from samples collected along the main creek were low for all elements. Perhaps Acme's Ultratrace analysis, comparable to the 2011 reanalyses of the RGS data base for 115P, would have been a better choice. It is recommended that a few silts be collected and analyzed using Acme's Ultratrace analysis.

Respectfully submitted,

Gordon G Richards P.Eng.

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Submitted By:	Gordon Richards
Receiving Lab:	Canada-Whitehorse
Received:	July 09, 2012
Report Date:	July 21, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS WHI12000257.1

CLIENT JOB INFORMATION

Project:	MCQ
Shipment ID:	
P.O. Number	
Number of Samples:	7

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	7	Dry at 60C			WHI
SS80	7	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	7	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Project: MCQ
Report Date: July 21, 2012

CERTIFICATE OF ANALYSIS WHI12000257.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
P320	Silt	0.5	10.8	6.4	35	<0.1	12.2	7.1	275	1.42	4.1	3.8	4.1	19	0.1	0.2	<0.1	27	0.37	0.055	15
P321	Silt	0.6	12.6	5.1	41	<0.1	13.3	7.6	248	1.49	3.8	1.3	2.5	21	0.2	0.2	<0.1	28	0.45	0.053	13
P322	Silt	0.6	11.9	6.4	40	<0.1	12.6	7.2	249	1.50	4.1	2.3	3.2	22	0.1	0.3	<0.1	30	0.41	0.058	14
P323	Silt	0.5	12.8	5.9	42	<0.1	14.6	7.4	251	1.55	4.0	2.0	3.1	22	0.1	0.3	<0.1	31	0.41	0.059	14
P324	Silt	0.5	13.2	6.1	45	<0.1	14.1	7.7	300	1.59	4.0	2.2	3.9	24	0.1	0.3	<0.1	29	0.45	0.056	14
P325	Silt	0.6	13.1	6.2	43	<0.1	14.3	7.3	273	1.52	4.1	4.6	3.5	24	0.2	0.4	<0.1	31	0.43	0.054	14
P330	Silt	0.8	13.8	7.2	44	<0.1	15.2	7.4	271	1.60	4.4	0.9	3.5	25	0.1	0.3	<0.1	33	0.46	0.060	15

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Project: MCQ

Report Date: July 21, 2012

CERTIFICATE OF ANALYSIS WHI12000257.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
P320	Silt	18	0.31	147	0.039	2	0.82	0.010	0.04	0.3	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
P321	Silt	21	0.40	138	0.030	2	0.89	0.008	0.03	0.1	0.03	2.3	<0.1	<0.05	3	0.5	<0.2
P322	Silt	21	0.37	165	0.037	2	0.88	0.010	0.04	0.3	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
P323	Silt	21	0.39	168	0.035	2	0.91	0.010	0.04	0.2	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
P324	Silt	23	0.42	166	0.038	2	0.93	0.010	0.04	0.2	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
P325	Silt	22	0.40	160	0.038	2	0.91	0.011	0.04	0.3	0.03	2.5	<0.1	<0.05	3	<0.5	<0.2
P330	Silt	23	0.41	177	0.038	2	0.94	0.011	0.04	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2

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Project: MCQ
Report Date: July 21, 2012

QUALITY CONTROL REPORT WHI12000257.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS9	Standard	14.0	108.4	124.1	301	1.8	41.1	7.6	568	2.29	24.7	118.7	6.3	73	2.4	5.1	5.7	42	0.75	0.081	15
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.002	<1

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Project: MCQ
Report Date: July 21, 2012

QUALITY CONTROL REPORT WHI12000257.1

		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS9	Standard	125	0.63	306	0.123	3	0.96	0.089	0.37	3.2	0.20	2.9	5.5	0.12	5	5.6	5.0
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Receiving Lab:	Canada-Whitehorse
Received:	July 09, 2012
Report Date:	July 31, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS WHI12000259.1

CLIENT JOB INFORMATION

Project:	MCQ
Shipment ID:	
P.O. Number	
Number of Samples:	6

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	6	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	6	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Insufficient rock rejects to recheck Sample P332 & P332 DUP.

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Project: MCQ
Report Date: July 31, 2012

CERTIFICATE OF ANALYSIS WHI12000259.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
P319	Rock	0.14	0.2	9.6	22.9	12	<0.1	0.9	0.9	156	1.24	1.8	<0.5	13.5	5	<0.1	<0.1	<0.1	<2	0.09	0.004
P326	Rock	0.09	0.3	5.8	11.0	26	<0.1	2.4	4.0	174	1.06	1.0	<0.5	9.7	108	0.2	0.1	<0.1	3	0.61	0.003
P327	Rock	0.13	0.3	5.6	9.3	28	<0.1	2.3	2.1	112	0.84	1.4	<0.5	12.4	66	0.2	<0.1	<0.1	5	0.61	0.002
P329	Rock	0.21	0.2	39.9	7.5	79	<0.1	1.7	1.4	67	0.73	1.0	1.7	12.5	6	0.5	<0.1	<0.1	2	0.07	0.004
P331	Rock	0.20	0.2	5.8	2.3	14	<0.1	0.9	0.8	66	0.47	<0.5	0.8	12.9	10	0.2	<0.1	<0.1	3	0.10	0.002
P332	Rock	0.36	<0.1	2.3	0.6	9	<0.1	0.8	1.0	97	0.60	0.6	<0.5	10.1	17	<0.1	<0.1	0.1	4	0.15	0.003

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CERTIFICATE OF ANALYSIS WHI12000259.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
P319	Rock	14	6	0.05	81	0.002	<1	0.42	0.079	0.18	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
P326	Rock	6	8	0.08	14	0.002	<1	0.75	0.121	0.01	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
P327	Rock	5	9	0.05	9	0.003	<1	0.61	0.118	<0.01	<0.1	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
P329	Rock	10	5	0.04	46	0.004	3	0.28	0.048	0.10	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
P331	Rock	7	6	0.11	3	0.005	<1	0.23	0.084	<0.01	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
P332	Rock	4	7	0.27	5	0.001	<1	0.37	0.067	<0.01	<0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2

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6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Project: MCQ
Report Date: July 31, 2012

QUALITY CONTROL REPORT WHI12000259.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
P327	Rock	0.13	0.3	5.6	9.3	28	<0.1	2.3	2.1	112	0.84	1.4	<0.5	12.4	66	0.2	<0.1	<0.1	5	0.61	0.002
REP P327	QC		0.2	5.5	9.7	29	<0.1	1.9	2.1	110	0.80	1.5	<0.5	12.1	64	0.2	<0.1	<0.1	5	0.60	0.002
Core Reject Duplicates																					
P332	Rock	0.36	<0.1	2.3	0.6	9	<0.1	0.8	1.0	97	0.60	0.6	<0.5	10.1	17	<0.1	<0.1	0.1	4	0.15	0.003
DUP P332	QC		0.2	2.9	2.2	10	<0.1	1.7	1.1	147	1.04	0.7	<0.5	9.9	24	<0.1	<0.1	0.1	5	0.20	0.003
Reference Materials																					
STD DS9	Standard		14.0	113.5	129.2	323	1.9	42.9	8.0	617	2.42	26.3	124.1	7.8	81	2.4	5.4	7.5	43	0.78	0.083
STD DS9	Standard		15.0	112.8	132.9	322	2.0	42.3	7.8	598	2.40	28.5	115.7	6.7	73	2.3	5.8	5.9	45	0.75	0.085
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-WHI	Prep Blank		<0.1	2.1	6.5	45	<0.1	2.2	3.7	561	1.92	0.5	<0.5	5.9	71	<0.1	<0.1	<0.1	39	0.53	0.075
G1-WHI	Prep Blank		<0.1	3.1	3.5	48	<0.1	2.5	4.0	600	2.04	0.7	<0.5	6.5	70	<0.1	<0.1	<0.1	41	0.56	0.080

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Delta BC V4K 4W6 Canada

Project: MCQ
Report Date: July 31, 2012

QUALITY CONTROL REPORT WHI12000259.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
P327	Rock	5	9	0.05	9	0.003	<1	0.61	0.118	<0.01	<0.1	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
REP P327	QC	5	8	0.05	9	0.003	<1	0.59	0.117	<0.01	<0.1	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
Core Reject Duplicates																		
P332	Rock	4	7	0.27	5	0.001	<1	0.37	0.067	<0.01	<0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
DUP P332	QC	4	9	0.32	6	0.002	2	0.48	0.134	<0.01	<0.1	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	14	126	0.66	312	0.121	3	1.00	0.085	0.42	3.1	0.23	2.6	5.7	0.18	5	5.9	4.7
STD DS9	Standard	14	126	0.65	317	0.118	1	1.00	0.086	0.41	3.1	0.21	2.4	5.7	0.17	5	5.5	5.2
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-WHI	Prep Blank	13	8	0.50	149	0.120	1	0.88	0.082	0.47	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
G1-WHI	Prep Blank	13	8	0.53	156	0.130	<1	0.92	0.086	0.49	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2

Certificate of Analysis

Work Order: TO122412

To: Gordon Richards
Gordon Richards
6410 Holly Park Drive
DELTA
BC V4K 4W6

Date: Aug 10, 2012

P.O. No.	:	Project:MCQ
Project No.	:	-
No. Of Samples	:	45
Date Submitted	:	Jul 26, 2012
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard samples:

Certified By : Bruce Robertson
Bruce Robertson
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Final : TO122412 Order: Project:MCQ

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M365	3	184	30	0.2	4040	<1	160	<1	1610	172
M366	17	126	20	0.6	10900	<1	340	3	1530	85
M367	4	179	20	0.2	7310	<1	180	<1	527	145
M368	14	88	<10	0.3	16400	<1	410	2	839	862
M369	9	93	<10	0.3	14400	<1	790	<1	1270	79
M370	12	56	20	0.5	14100	<1	300	3	154	197
M371	10	77	<10	0.3	13400	<1	420	2	118	409
M372	25	31	<10	1.6	14500	<1	760	5	471	88
M373	18	35	<10	1.0	14600	<1	540	4	318	318
M374	33	66	<10	0.8	12700	<1	590	5	460	150
M375	28	22	<10	1.0	16400	<1	680	4	86	50
M376	18	126	<10	0.4	13200	<1	410	3	1740	151
M377	9	111	<10	0.5	11600	<1	420	3	1870	83
M378	17	92	<10	0.6	20000	<1	290	2	2560	359
M379	12	116	<10	0.5	16600	<1	330	6	1260	260
M380	37	236	20	0.3	12300	<1	140	4	850	175
M381	8	125	20	0.5	15500	<1	300	5	2360	120
M382	24	143	<10	0.3	10000	<1	170	2	1500	151
M383	29	150	30	0.5	10300	<1	160	3	2230	79
M384	19	159	30	0.5	11900	<1	200	2	2210	122
M385	27	225	30	0.4	13900	<1	200	4	2900	183
M386	6	148	50	0.5	8760	1	110	6	1410	302
M387	17	213	30	0.5	8900	<1	70	3	1230	236
M388	11	84	30	0.4	11700	<1	220	5	1900	168
M389	8	140	30	0.5	14800	<1	250	4	3400	170
M390	26	146	40	0.4	10500	<1	240	7	2420	137
M391	11	160	10	0.3	10400	<1	220	2	1170	295
M392	8	83	<10	<0.1	11800	<1	380	2	103	66
M393	18	108	20	0.5	14200	<1	230	4	1290	99
M394	4	188	40	0.4	18200	<1	140	2	1670	142
M395	8	79	20	0.3	16100	<1	190	7	1020	121
M396	23	158	20	0.5	13000	<1	180	29	672	428
M397	23	104	<10	0.6	16700	<1	340	6	996	75
M398	42	84	<10	0.8	14500	<1	390	8	369	498
M399	20	64	<10	0.6	12900	<1	450	5	388	43
M400	35	93	<10	0.7	20400	<1	420	4	1230	92
M401	26	166	10	0.4	7170	<1	200	3	883	76
M402	57	57	<10	0.5	16400	<1	530	14	273	77
M403	79	16	<10	1.0	14400	<1	670	23	202	242
M404	53	94	<10	0.6	17700	<1	570	8	1060	185
M405	37	36	<10	1.3	21300	<1	660	4	424	49
M406	18	140	60	1.1	7480	<1	210	1	3170	128
M407	6	83	20	<0.1	8720	<1	270	4	129	32

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M408	10	156	50	<0.1	7660	<1	100	3	371	103
P328	9	202	20	0.2	11700	<1	160	2	1630	227
*Rep M369	8	85	<10	0.3	15500	<1	810	<1	1560	79
*Rep M379	11	108	<10	0.5	17900	<1	350	5	1400	272
*Rep M395	7	70	20	0.2	16600	<1	170	6	942	108
*Rep M408	10	150	50	<0.1	8240	<1	100	2	390	94
*Std MMISRM16	19	49	10	24.2	70	<1	220	5	20	58
*Std AMIS0169	11	81	10	0.5	770	<1	40	2	973	135
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M365	<100	<0.5	450	127	49.1	30.0	65	11	155	<1
M366	<100	<0.5	1660	570	340	111	35	10	628	<1
M367	<100	<0.5	490	76	32.7	14.9	53	6	71	<1
M368	<100	<0.5	760	206	116	47.3	18	5	226	<1
M369	<100	<0.5	580	131	47.3	41.8	13	7	204	<1
M370	<100	<0.5	1120	16	7.0	4.8	154	3	18	<1
M371	<100	<0.5	370	10	4.4	3.2	34	1	11	<1
M372	<100	<0.5	2020	317	183	60.6	8	3	399	2
M373	<100	<0.5	2120	100	48.2	25.3	34	2	131	<1
M374	<100	<0.5	710	94	40.6	24.6	24	3	116	<1
M375	<100	<0.5	1860	81	39.5	18.5	10	<1	101	1
M376	<100	<0.5	950	440	234	97.4	22	10	498	<1
M377	<100	<0.5	660	355	176	86.5	13	10	443	<1
M378	<100	<0.5	570	456	206	122	14	13	590	<1
M379	<100	<0.5	700	341	175	81.6	34	8	408	<1
M380	<100	<0.5	450	142	60.0	33.0	55	7	165	<1
M381	<100	<0.5	710	506	268	125	29	14	607	1
M382	<100	<0.5	360	235	114	55.8	26	9	276	<1
M383	<100	<0.5	480	277	115	76.3	75	17	354	<1
M384	<100	<0.5	470	310	143	81.3	49	15	398	<1
M385	<100	<0.5	650	560	274	145	52	18	697	<1
M386	100	0.8	1020	218	92.6	58.2	132	13	268	<1
M387	<100	0.8	1000	207	96.0	48.7	133	11	234	<1
M388	<100	<0.5	340	294	147	83.5	35	12	398	<1
M389	<100	<0.5	520	298	128	88.3	50	19	427	<1
M390	<100	<0.5	950	374	182	102	57	17	480	<1
M391	<100	<0.5	780	278	146	60.9	36	8	310	<1
M392	<100	<0.5	210	12	5.9	3.2	24	1	14	<1
M393	<100	<0.5	1360	298	144	72.1	49	10	342	<1
M394	<100	0.7	370	154	59.6	37.3	51	14	178	<1
M395	<100	0.6	820	97	39.3	28.2	35	7	127	<1
M396	<100	<0.5	2390	266	146	51.6	130	6	262	<1
M397	<100	<0.5	1060	307	175	70.7	23	7	351	1
M398	<100	<0.5	2690	133	83.2	26.9	24	3	133	<1
M399	<100	<0.5	1290	101	55.1	24.9	25	3	122	<1
M400	<100	<0.5	1340	366	203	91.9	16	8	440	2
M401	<100	<0.5	560	186	86.4	43.3	41	8	211	<1
M402	<100	<0.5	1200	146	76.5	29.2	14	2	164	<1
M403	<100	<0.5	3950	54	30.3	13.3	26	2	67	1
M404	<100	<0.5	700	307	164	71.3	12	6	360	<1
M405	<100	<0.5	1020	111	58.4	24.7	7	2	141	3
M406	<100	<0.5	690	733	377	209	56	24	1030	1
M407	<100	<0.5	180	17	7.6	5.1	38	4	22	<1

SGS

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M408	<100	1.3	220	34	13.9	9.6	99	11	40	<1
P328	<100	<0.5	410	311	141	62.7	38	11	323	<1
*Rep M369	<100	<0.5	600	165	56.6	54.6	13	8	262	<1
*Rep M379	<100	<0.5	760	367	186	87.7	30	8	420	1
*Rep M395	<100	0.5	720	92	36.0	26.1	26	6	119	<1
*Rep M408	<100	1.4	210	34	13.5	9.5	86	11	41	<1
*Std MMISRM16	<100	11.2	700	3	1.3	1.2	3	<1	5	22
*Std AMIS0169	100	8.2	4610	38	16.1	14.0	57	17	55	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M365	<0.5	6.3	701	<5	107	360	<5	4.1	803	504
M366	<0.5	4.8	641	<5	123	6230	<5	<0.5	1430	1760
M367	<0.5	9.6	237	<5	90	300	<5	2.4	248	627
M368	<0.5	3.7	298	<5	124	11200	<5	<0.5	541	1310
M369	<0.5	5.4	659	<5	147	490	<5	<0.5	755	305
M370	<0.5	16.8	89	<5	62	5590	5	1.1	66	363
M371	<0.5	47.8	55	<5	76	8680	<5	<0.5	38	247
M372	<0.5	7.6	206	7	115	4200	<5	<0.5	579	1630
M373	<0.5	8.0	151	<5	128	7410	<5	<0.5	293	658
M374	<0.5	2.6	229	<5	152	1670	<5	<0.5	326	441
M375	<0.5	2.1	70	<5	170	2480	6	<0.5	170	742
M376	<0.5	8.4	641	<5	99	1780	<5	<0.5	1220	816
M377	<0.5	8.9	752	<5	97	870	<5	<0.5	1340	523
M378	<0.5	6.0	1040	<5	62	1740	<5	<0.5	1760	505
M379	<0.5	6.5	519	<5	60	2970	<5	<0.5	999	621
M380	<0.5	6.8	399	<5	44	480	<5	1.2	534	465
M381	<0.5	5.2	1060	<5	67	1730	<5	1.2	1840	688
M382	<0.5	9.0	691	<5	34	400	<5	1.0	974	357
M383	<0.5	9.0	1010	<5	32	390	<5	4.5	1320	248
M384	<0.5	7.9	1070	<5	44	720	<5	3.0	1440	335
M385	<0.5	4.0	1200	<5	44	1200	<5	1.9	2190	640
M386	<0.5	14.9	639	<5	17	6150	<5	3.1	900	288
M387	<0.5	8.7	520	<5	20	2120	<5	4.0	762	335
M388	<0.5	10.0	923	<5	47	1970	<5	1.7	1440	356
M389	<0.5	8.3	1560	<5	45	1240	<5	2.8	1940	391
M390	<0.5	8.8	999	<5	37	410	<5	3.0	1640	473
M391	<0.5	10.6	561	<5	69	2840	<5	0.8	922	722
M392	<0.5	28.6	41	<5	100	400	<5	<0.5	49	116
M393	<0.5	3.0	609	<5	36	870	<5	1.1	1040	551
M394	<0.5	5.2	951	<5	34	1770	<5	7.1	809	103
M395	<0.5	7.5	420	<5	25	2790	<5	2.0	496	162
M396	<0.5	6.4	253	<5	41	4080	<5	0.9	587	1720
M397	<0.5	4.5	463	<5	81	940	<5	<0.5	906	616
M398	<0.5	5.1	182	<5	93	18000	<5	<0.5	318	1280
M399	<0.5	4.1	171	<5	98	1070	<5	<0.5	313	811
M400	<0.5	4.3	555	<5	89	1020	<5	<0.5	1120	1040
M401	<0.5	6.2	383	<5	52	200	<5	1.3	614	311
M402	<0.5	6.6	120	7	130	3560	<5	<0.5	286	981
M403	<0.5	2.7	95	8	195	13600	11	<0.5	173	1280
M404	<0.5	7.2	433	<5	147	4300	<5	<0.5	855	975
M405	<0.5	3.5	71	<5	149	2120	<5	<0.5	198	675
M406	<0.5	6.4	1850	<5	42	7270	<5	2.5	3530	510
M407	<0.5	13.7	61	<5	42	620	<5	1.3	78	145

SGS

Final : TO122412 Order: Project:MCQ

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M408	<0.5	47.2	205	<5	35	1770	10	3.3	169	274
P328	<0.5	12.2	668	<5	78	1070	<5	1.1	1110	790
*Rep M369	<0.5	4.8	750	<5	154	480	<5	<0.5	944	322
*Rep M379	<0.5	6.4	528	<5	64	3440	<5	<0.5	1040	647
*Rep M395	<0.5	6.5	370	<5	24	2310	<5	1.4	454	140
*Rep M408	<0.5	46.7	216	<5	35	1460	9	3.1	166	265
*Std MMISRM16	<0.5	36.2	5	<5	30	100	50	<0.5	17	237
*Std AMIS0169	<0.5	49.2	513	<5	40	5020	<5	3.9	464	535
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

SGS

Final : TO122412 Order: Project:MCQ

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M365	0.6	610	<1	195	<1	37	1	147	141	<1
M366	0.5	560	<1	279	<1	14	<1	280	457	<1
M367	0.4	1190	<1	59	<1	46	1	138	56	<1
M368	0.1	690	<1	105	<1	11	<1	239	167	<1
M369	<0.1	370	<1	167	<1	10	<1	93	163	<1
M370	0.7	230	<1	16	<1	26	2	57	15	<1
M371	0.3	350	<1	9	<1	23	<1	31	8	<1
M372	0.2	250	<1	95	<1	9	<1	27	218	<1
M373	0.2	120	<1	57	<1	11	<1	34	92	<1
M374	0.1	240	<1	67	<1	18	<1	43	84	<1
M375	<0.1	70	<1	29	<1	6	1	24	61	<1
M376	0.2	550	<1	246	<1	10	<1	210	369	<1
M377	<0.1	450	<1	267	<1	25	<1	155	356	<1
M378	0.1	550	<1	374	<1	27	<1	278	470	<1
M379	0.4	530	<1	198	<1	35	<1	295	299	<1
M380	1.1	650	<1	118	<1	89	1	111	132	<1
M381	0.3	460	<1	384	<1	17	1	362	486	<1
M382	0.2	850	<1	214	<1	53	<1	185	230	<1
M383	0.7	580	<1	305	<1	62	2	244	306	<1
M384	0.5	680	<1	319	<1	62	2	245	338	<1
M385	0.8	930	<1	457	<1	34	2	350	571	<1
M386	3.7	450	<1	204	<1	89	4	197	222	<1
M387	1.8	540	<1	174	<1	125	2	173	188	<1
M388	0.7	360	<1	309	<1	32	2	109	347	<1
M389	0.7	570	<1	461	<1	35	3	269	379	<1
M390	0.9	530	<1	365	<1	29	2	216	423	<1
M391	0.3	830	<1	194	<1	19	<1	218	239	<1
M392	0.6	330	<1	11	<1	51	<1	16	12	<1
M393	0.6	300	<1	221	<1	49	2	213	274	<1
M394	0.8	610	<1	204	<1	81	3	149	148	<1
M395	0.7	280	<1	116	<1	65	2	71	113	<1
M396	0.8	430	<1	113	<1	44	2	254	183	<1
M397	0.1	260	<1	176	<1	13	<1	229	259	<1
M398	0.1	180	<1	65	<1	15	1	233	91	<1
M399	<0.1	120	<1	62	<1	20	1	95	90	<1
M400	<0.1	260	<1	217	<1	9	<1	230	325	<1
M401	0.4	620	<1	127	<1	47	<1	132	166	<1
M402	0.2	230	<1	50	<1	10	<1	40	99	<1
M403	0.1	70	<1	35	<1	5	2	27	47	<1
M404	0.1	640	<1	162	<1	7	<1	118	252	<1
M405	0.1	190	<1	32	<1	10	<1	25	75	<1
M406	1.3	540	<1	757	<1	9	4	443	898	<1
M407	0.8	200	<1	18	<1	32	1	20	18	<1

Final : TO122412 Order: Project:MCQ

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M408	4.7	380	<1	43	<1	108	1	40	36	<1
P328	0.4	1150	<1	235	<1	45	<1	358	254	<1
*Rep M369	<0.1	330	<1	205	<1	9	<1	92	214	<1
*Rep M379	0.4	500	<1	200	<1	32	<1	294	319	<1
*Rep M395	0.5	250	<1	104	<1	60	1	63	104	<1
*Rep M408	3.8	330	<1	43	<1	122	1	38	36	<1
*Std MMISRM16	0.3	110	24	3	<1	301	<1	12	5	<1
*Std AMIS0169	3.1	190	<1	127	<1	268	1	77	77	1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Final : TO122412 Order: Project:MCQ

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M365	730	<1	23	<10	111	1420	<0.5	26	1	674
M366	1780	<1	93	<10	123	81	<0.5	110	2	3530
M367	1200	<1	12	<10	89.8	909	<0.5	23	<1	429
M368	2030	<1	35	<10	33.8	26	<0.5	35	<1	1040
M369	4110	<1	26	<10	35.1	11	<0.5	27	<1	778
M370	1390	<1	3	<10	45.6	279	<0.5	21	<1	77
M371	1760	<1	2	<10	50.4	99	<0.5	17	<1	48
M372	2620	<1	55	<10	36.0	10	<0.5	22	<1	1710
M373	2380	<1	18	<10	34.1	23	<0.5	66	<1	518
M374	2730	<1	16	<10	41.1	11	<0.5	56	<1	456
M375	3350	<1	14	<10	31.2	11	<0.5	74	<1	448
M376	1930	<1	75	<10	95.2	77	<0.5	87	1	2350
M377	2330	<1	63	<10	67.3	59	<0.5	77	<1	1830
M378	1680	<1	84	<10	62.4	75	<0.5	93	<1	2380
M379	1550	<1	59	<10	59.6	134	<0.5	69	<1	1830
M380	910	<1	25	<10	72.9	449	<0.5	39	<1	767
M381	1650	<1	90	<10	88.4	384	<0.5	50	2	2760
M382	970	<1	40	<10	85.2	373	<0.5	43	<1	1380
M383	820	<1	50	<10	115	1630	<0.5	43	1	1430
M384	1150	<1	56	<10	129	963	<0.5	36	1	1700
M385	1150	<1	99	<10	125	699	<0.5	44	2	3100
M386	450	<1	39	<10	159	1030	<0.5	48	1	1080
M387	570	<1	35	<10	95.6	1430	<0.5	33	1	1130
M388	1320	<1	54	<10	80.4	555	<0.5	24	<1	1590
M389	1390	<1	57	<10	129	1080	<0.5	33	1	1850
M390	1180	<1	67	<10	108	1080	<0.5	35	2	1850
M391	1180	<1	47	<10	112	299	<0.5	122	<1	1560
M392	2060	<1	2	<10	42.1	21	<0.5	6	<1	61
M393	1080	<1	51	<10	91.2	455	<0.5	66	<1	1630
M394	950	<1	28	<10	90.9	3060	<0.5	27	2	931
M395	1240	<1	19	<10	68.2	803	<0.5	38	<1	431
M396	1120	<1	43	<10	83.8	333	<0.5	68	<1	1560
M397	1930	<1	52	<10	53.0	98	<0.5	64	<1	1770
M398	2220	<1	21	<10	53.5	16	<0.5	228	<1	827
M399	2520	<1	17	<10	34.8	10	<0.5	149	<1	618
M400	2290	<1	63	<10	40.3	33	<0.5	110	<1	2210
M401	1090	<1	32	<10	67.7	498	<0.5	38	<1	952
M402	2780	<1	24	<10	17.6	12	<0.5	69	<1	749
M403	2470	<1	9	<10	47.6	11	<0.5	143	<1	327
M404	3010	<1	52	<10	32.6	11	<0.5	33	<1	1740
M405	3400	<1	19	<10	21.6	20	<0.5	28	<1	574
M406	1000	<1	133	<10	129	894	<0.5	60	3	4610
M407	1060	<1	3	<10	29.4	453	<0.5	6	<1	84

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M408	420	<1	6	<10	50.0	1240	<0.5	10	<1	163
P328	1210	<1	52	<10	108	438	<0.5	72	<1	1810
*Rep M369	4360	<1	32	<10	33.2	15	<0.5	31	<1	937
*Rep M379	1650	<1	62	<10	55.9	101	<0.5	74	<1	1920
*Rep M395	1200	<1	17	<10	59.5	569	<0.5	33	<1	403
*Rep M408	440	<1	6	<10	49.6	1170	<0.5	9	<1	156
*Std MMISRM16	460	<1	<1	<10	22.6	13	<0.5	48	<1	9
*Std AMIS0169	90	<1	7	<10	91.2	508	1.5	30	2	148
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

Final : TO122412 Order: Project:MCQ

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M365	31	40	71
M366	261	20	132
M367	18	30	97
M368	89	50	33
M369	21	<20	30
M370	5	90	58
M371	3	30	33
M372	116	<20	30
M373	33	20	27
M374	25	50	69
M375	26	<20	48
M376	177	30	103
M377	124	<20	101
M378	134	30	57
M379	127	30	66
M380	37	30	84
M381	202	30	92
M382	75	<20	77
M383	72	30	126
M384	86	30	146
M385	177	40	145
M386	57	100	229
M387	57	70	202
M388	100	50	92
M389	66	40	189
M390	128	60	113
M391	97	50	121
M392	4	<20	15
M393	91	80	127
M394	29	50	196
M395	23	60	197
M396	111	540	151
M397	139	60	59
M398	65	80	71
M399	42	40	41
M400	148	80	60
M401	58	30	60
M402	55	110	32
M403	23	80	45
M404	106	90	88
M405	38	<20	18
M406	227	70	237
M407	5	30	39

SGS

Final : TO122412 Order: Project:MCQ

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M408	9	50	65
P328	82	60	105
*Rep M369	25	<20	29
*Rep M379	136	30	65
*Rep M395	22	50	168
*Rep M408	9	40	67
*Std MMISRM16	<1	270	17
*Std AMIS0169	12	370	69
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

McQ. Looking south from McQuesten Airstrip to McQ claims straddling the north flowing tributary creek in centre of photo. As-Ti ± Sb ± Au anomaly on west facing light green slope with dashed lines.

⊙ indicates southeastern limit of sampling where modest Cu-Ag-Au-Mo anomaly occurs in a cluster of samples.

YMIP Grant **12-019**

A Summary Technical Report on the **CAVU Project**
as part of the McQ Project
A Focussed Regional Module, Hard Rock Type

A Geochemical/Geological Report

Two claim blocks staked under this grant:

20 claims **McQ** 1-10, 13-22; YE71541-YE71550, YE71553-YE71562
Centre at 371,780E; 7,052,070N; UTM NAD83 Zone 8
NTS Map Sheet 115P12

and

18 claims **CAVU** 1-18; YE71565-YE71582
Centre at 370,500E; 7,051,000N; UTM NAD83 Zone 8
NTS Map Sheet 115P12

Grant awarded to Jeff Mieras
Work performed by Gordon Richards & Jeff Mieras
Report written by Gordon Richards

January 15, 2013

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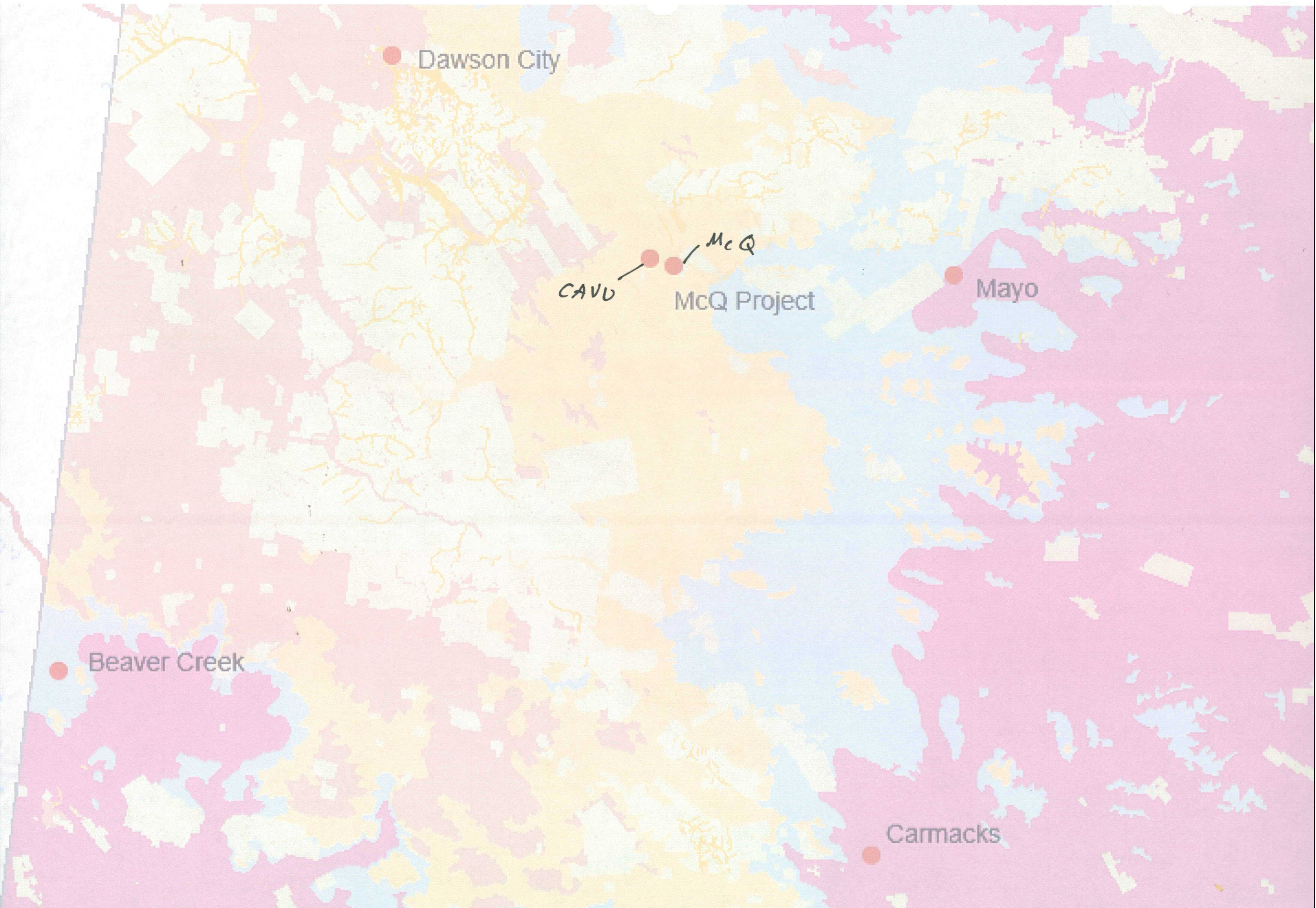
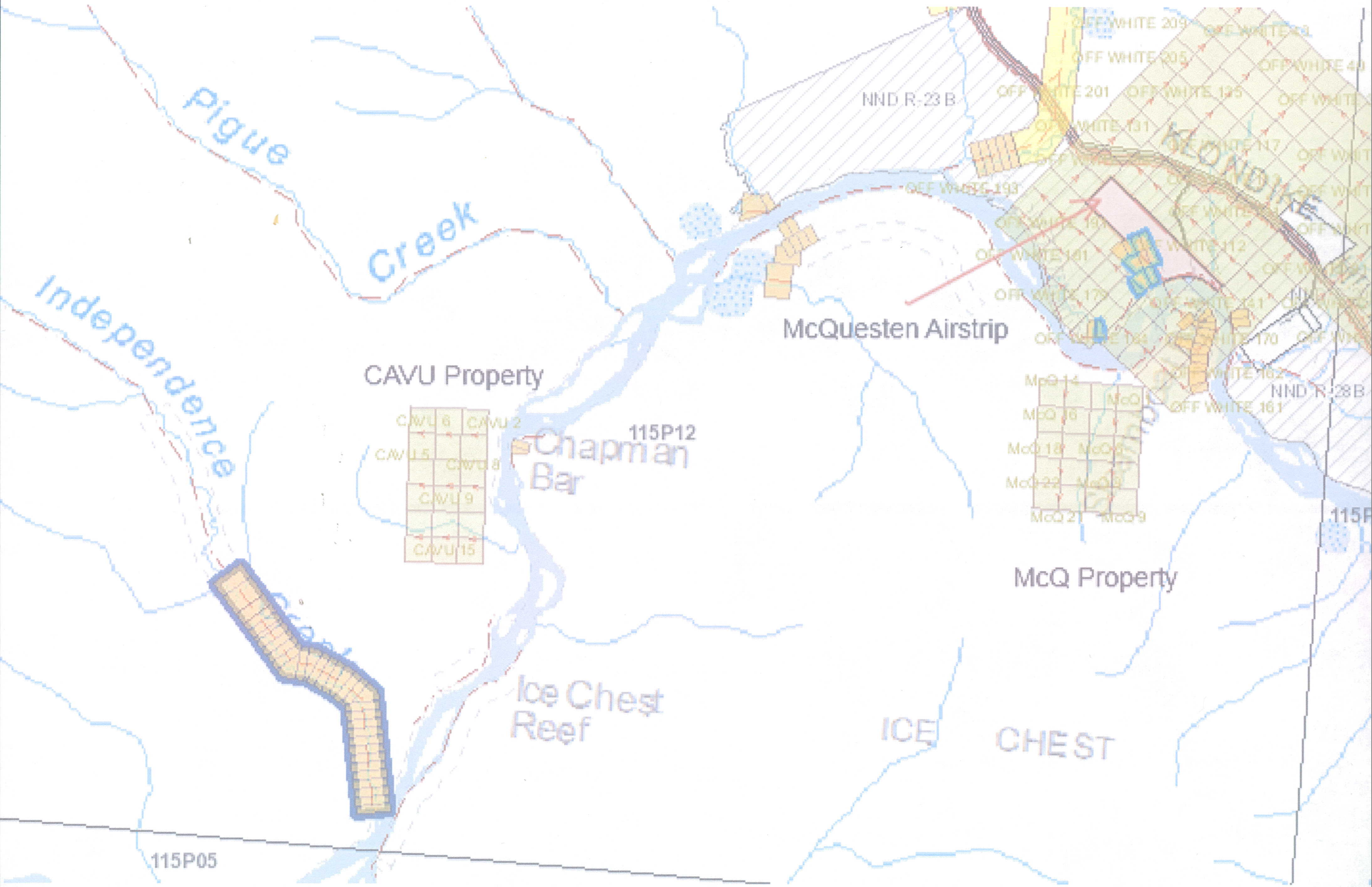
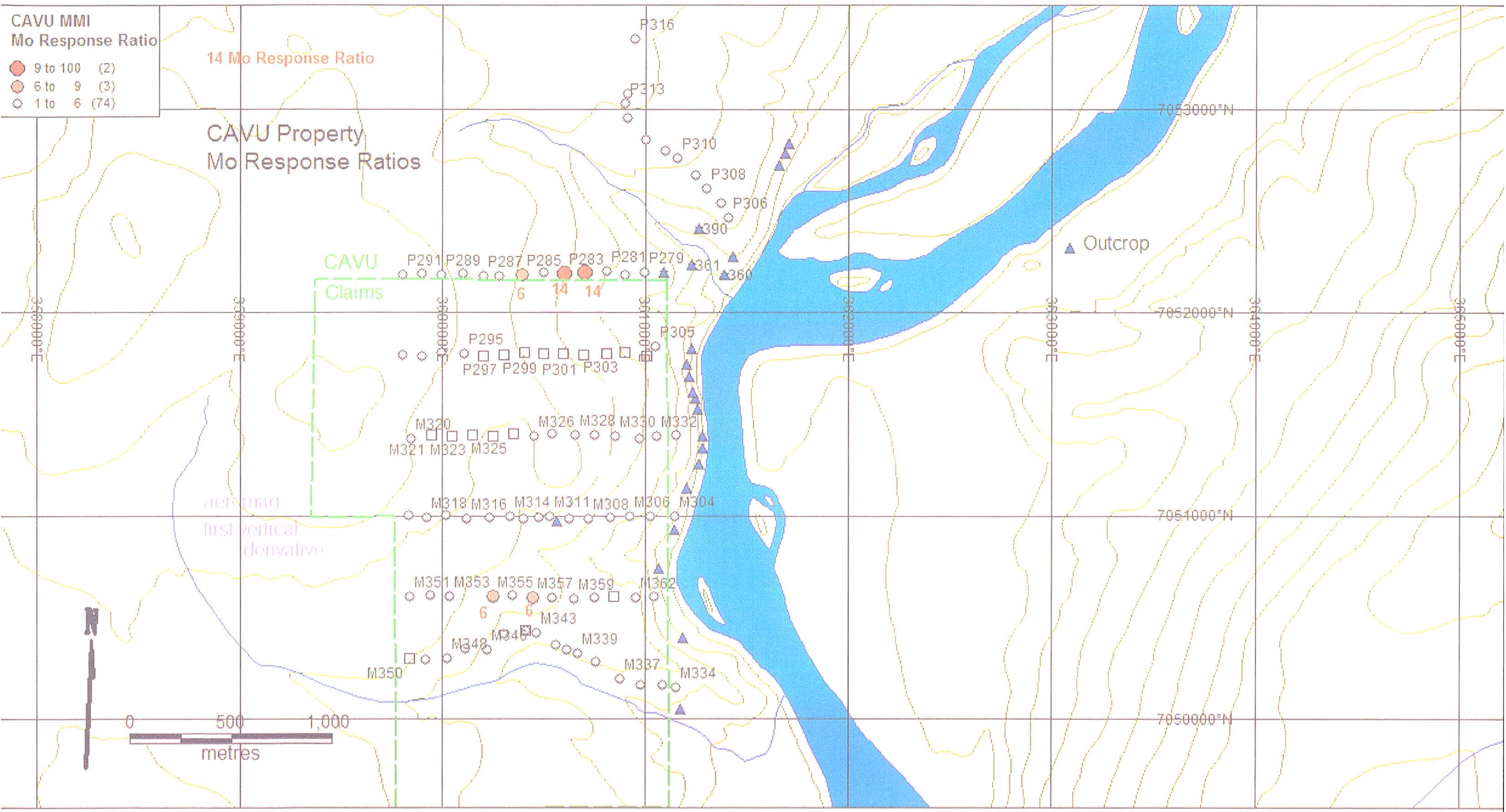

Dawson City
MᴄQ
CAVU
McQ Project
Mayo
Beaver Creek
Carmacks

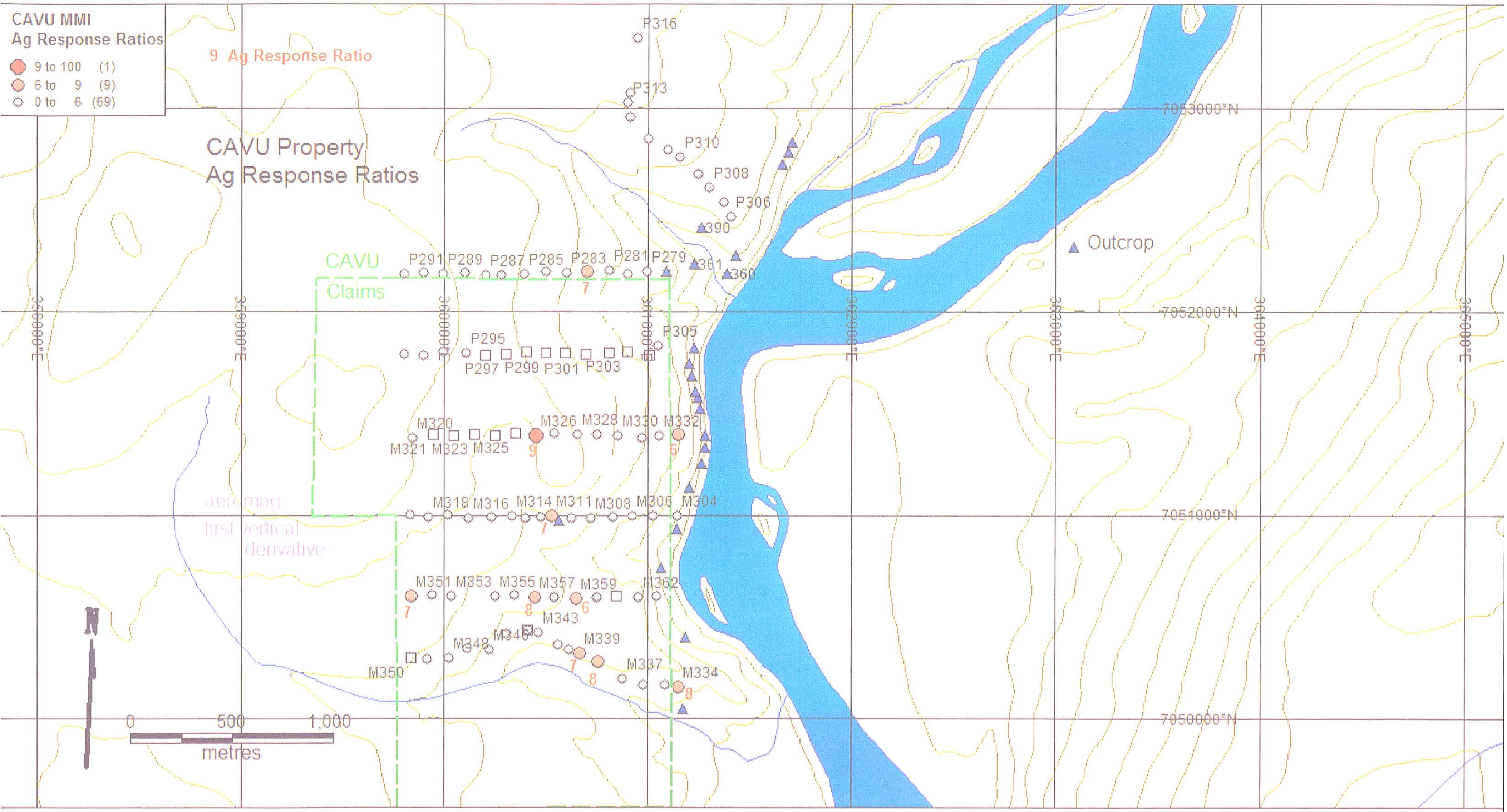


Pigue Creek
Independence
CAVU Property
CAVU 6
CAVU 2
CAVU 5
CAVU 8
CAVU 9
CAVU 15
Chapman Bar
115P12
NND R-23 B
OFF WHITE 209
OFF WHITE 205
OFF WHITE 201
OFF WHITE 135
OFF WHITE 193
OFF WHITE 161
McQuesten Airstrip
NND R-28 B
McQ 14
McQ 18
McQ 22
McQ 21
McQ Property
Ice Chest Reef
ICE
CHEST
115P05

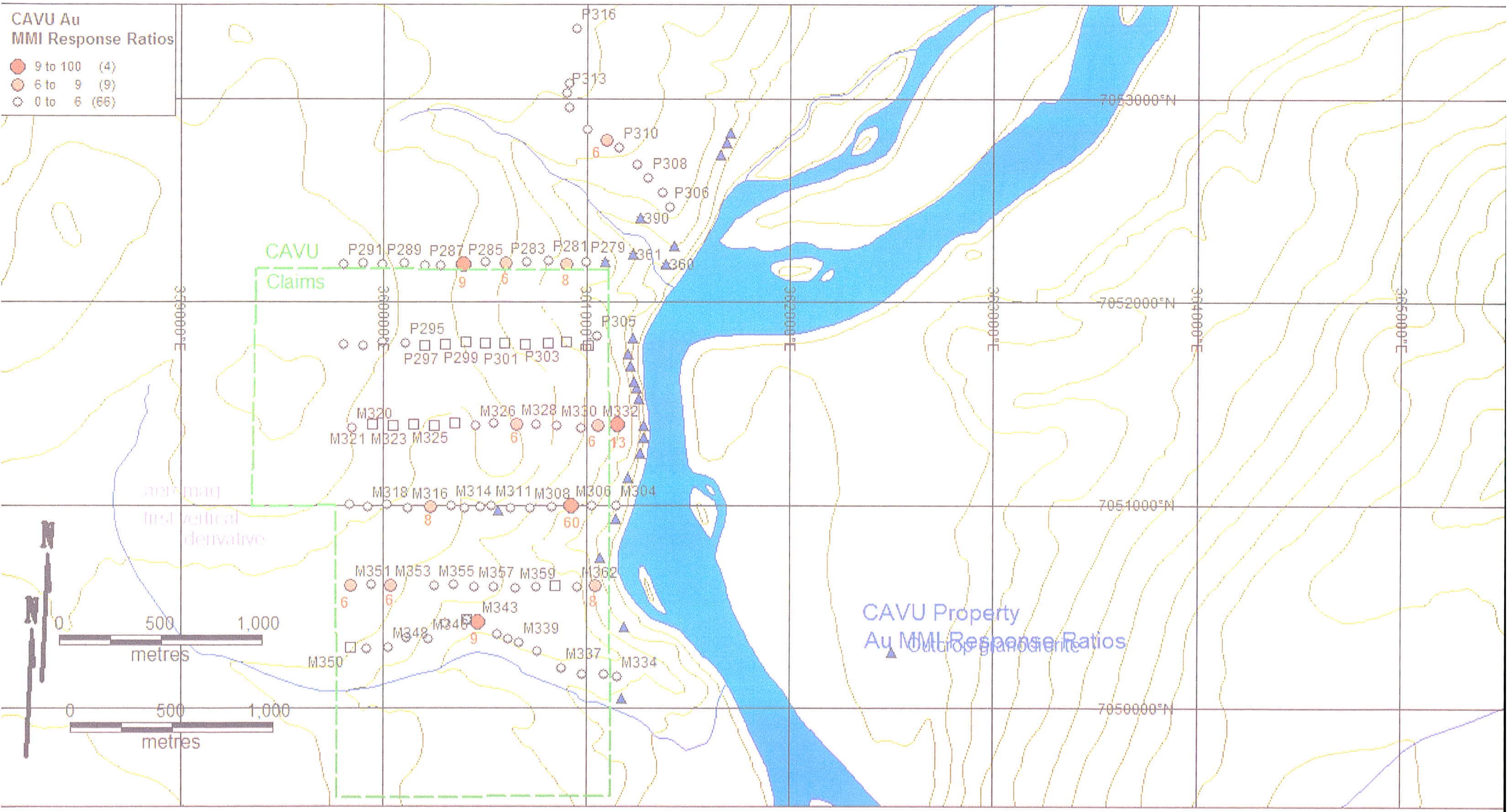
CAVU Property



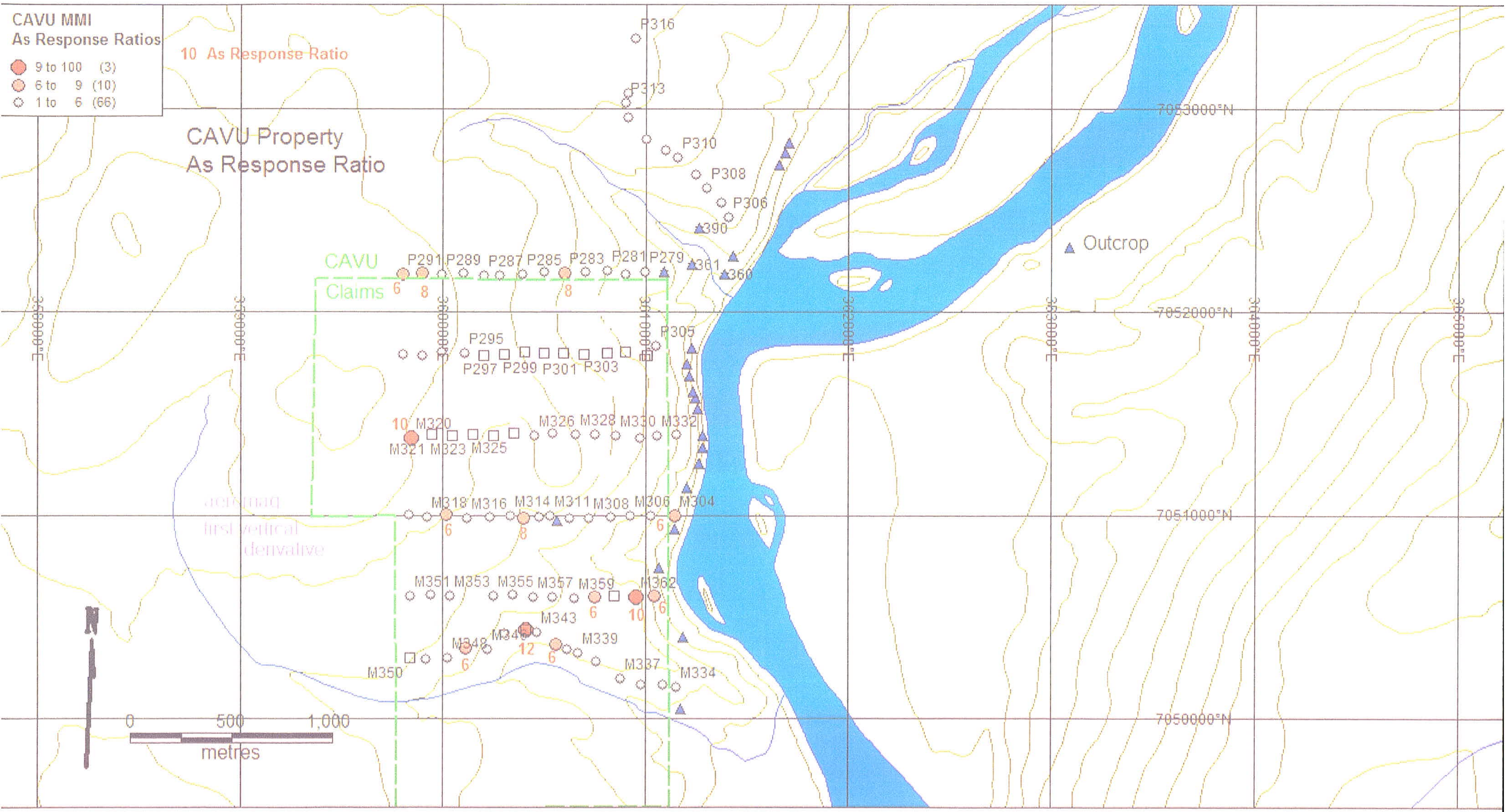
CAVU MMI
Mo Response Ratio
9 to 100 (2)
6 to 9 (3)
1 to 6 (74)
14 Mo Response Ratio
CAVU Property
Mo Response Ratios
CAVU
Claims
Outcrop
aeromag
first vertical
derivative
7053000°N
7052000°N
7051000°N
7050000°N
0
500
1,000
metres
N



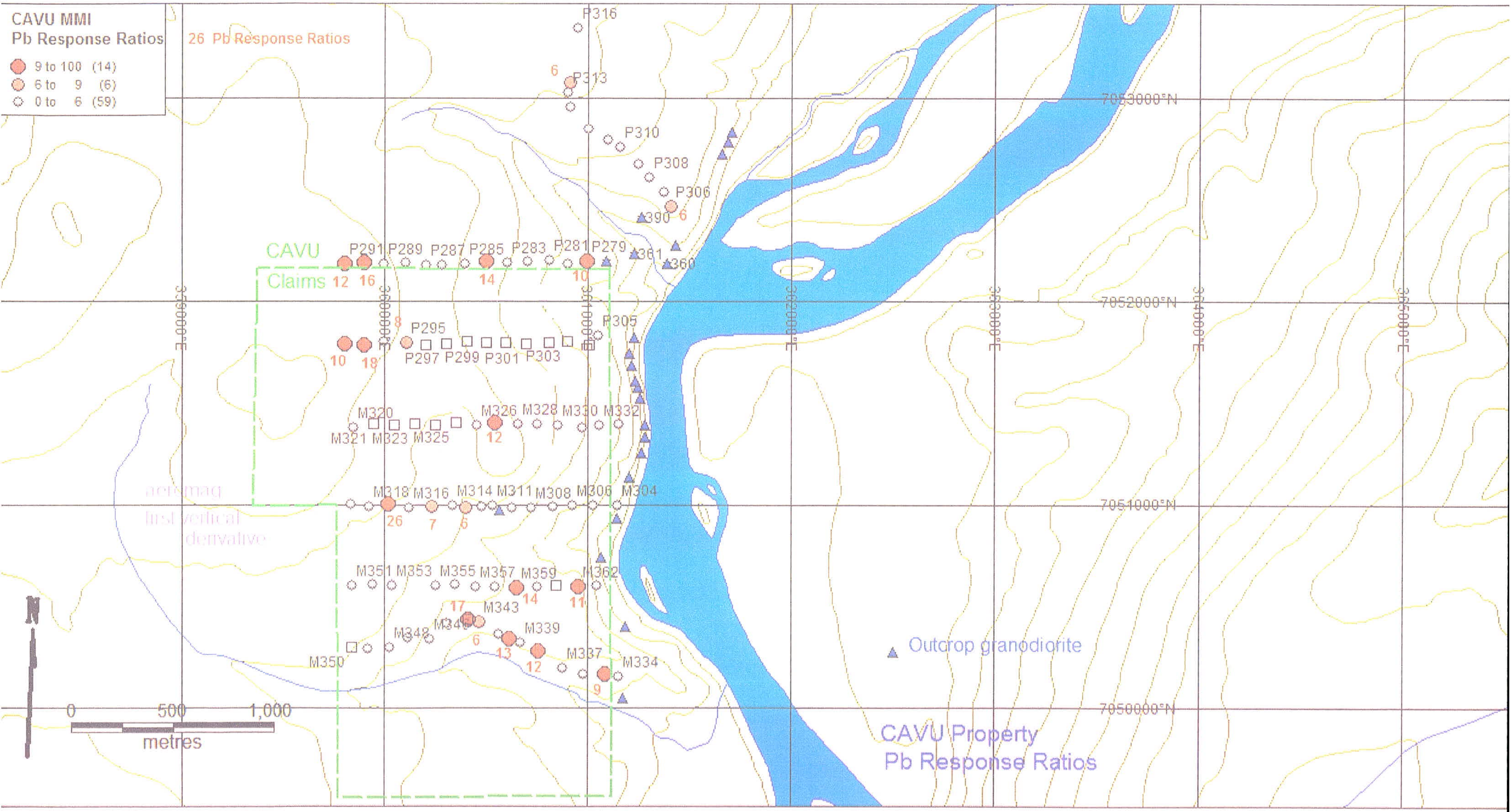
CAVU MMI
Ag Response Ratios
9 to 100 (1)
6 to 9 (9)
0 to 6 (69)
9 Ag Response Ratio
CAVU Property
Ag Response Ratios
CAVU
Claims
Outcrop
aeromag
first vertical
derivative
7053000°N
7052000°N
7051000°N
7050000°N
0
500
1,000
metres
N
P316
P313
P310
P308
P306
390
361
360
P291 P289 P287 P285 P283 P281 P279
P305
P295
P297 P299 P301 P303
M320
M321 M323 M325
M326 M328 M330 M332
M318 M316 M314 M311 M308 M306 M304
M351 M353 M355 M357 M359
M362
M343
M348 M346
M339
M350
M337
M334



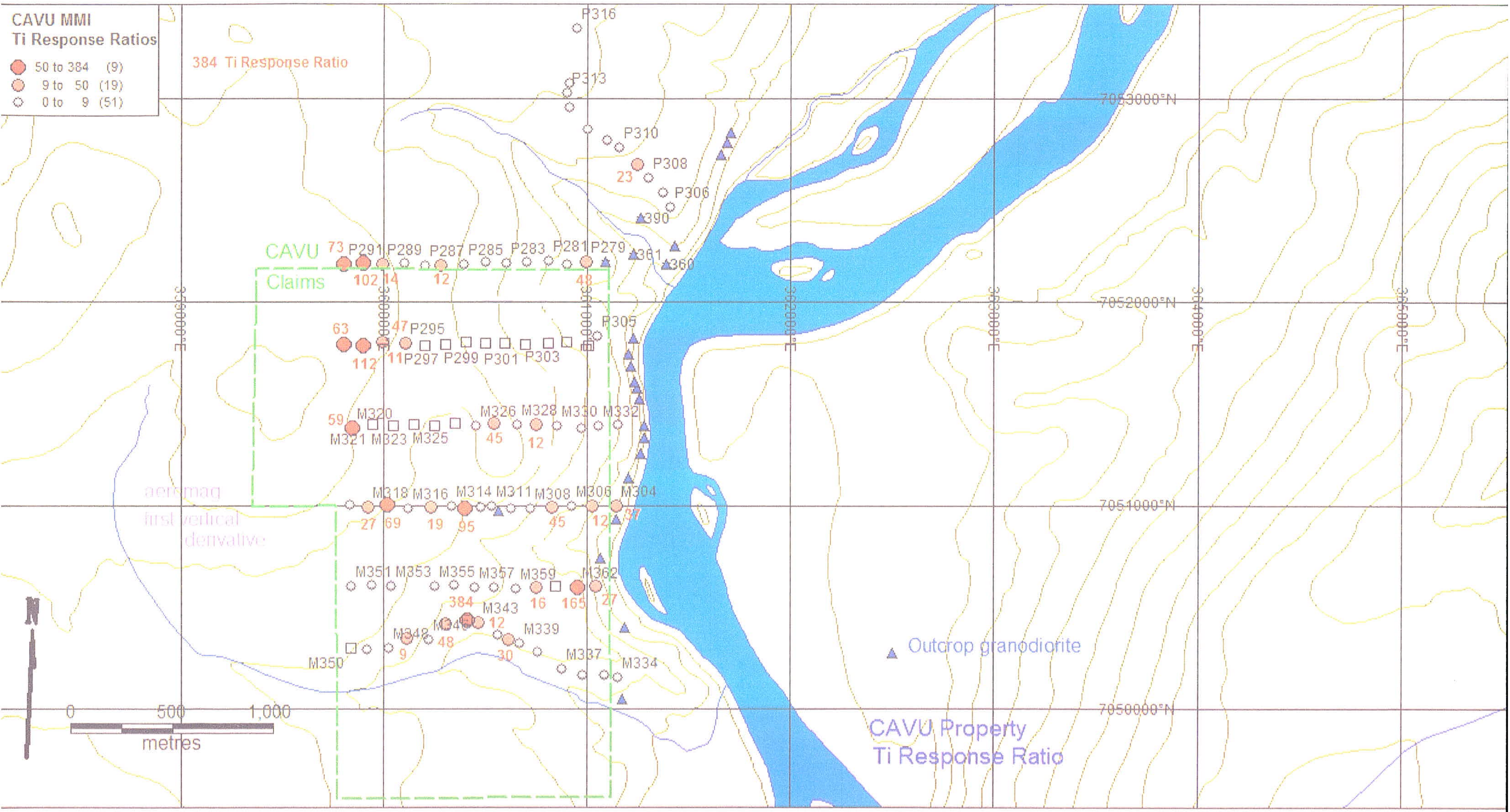
CAVU Au
MMI Response Ratios
9 to 100 (4)
6 to 9 (9)
0 to 6 (66)
CAVU
Claims
CAVU Property
Au MMI Response Ratios
Outcrop granodiorite
7053000°N
7052000°N
7051000°N
7050000°N
0 500 1,000
metres
N



CAVU MMI
As Response Ratios
9 to 100 (3)
6 to 9 (10)
1 to 6 (66)
10 As Response Ratio
CAVU Property
As Response Ratio
CAVU
Claims
Outcrop
aeromag
first vertical
derivative
7053000°N
7052000°N
7051000°N
7050000°N
0
500
1,000
metres
N
P316
P313
P310
P308
P306
P305
P295
P297 P299 P301 P303
P291 P289 P287 P285 P283 P281 P279
M320
M321 M323 M325
M326 M328 M330 M332
M318 M316 M314 M311 M308 M306 M304
M351 M353 M355 M357 M359 M362
M343
M339
M348 M346
M350
M337 M334



CAVU MMI
Pb Response Ratios
9 to 100 (14)
6 to 9 (6)
0 to 6 (59)
26 Pb Response Ratios
CAVU
Claims
P316
P313
P310
P308
P306
P305
P291 P289 P287 P285 P283 P281 P279
P295
P297 P299 P301 P303
M320
M321 M323 M325
M326 M328 M330 M332
M318 M316 M314 M311 M308 M306 M304
M351 M353 M355 M357 M359 M362
M343
M348
M339
M350
M337
M334
7053000°N
7052000°N
7051000°N
7050000°N
359000°E
360000°E
361000°E
362000°E
363000°E
364000°E
365000°E
aeromag
first vertical
derivative
Outcrop granodiorite
0
500
1,000
metres
N
CAVU Property
Pb Response Ratios


CAVU MMI
Ti Response Ratios
50 to 384 (9)
9 to 50 (19)
0 to 9 (51)
384 Ti Response Ratio
CAVU
Claims
7053000°N
7052000°N
7051000°N
7050000°N
359000°E
360000°E
361000°E
362000°E
363000°E
364000°E
365000°E
aeromag
first vertical
derivative
Outcrop granodiorite
0
500
1,000
metres
N
CAVU Property
Ti Response Ratio

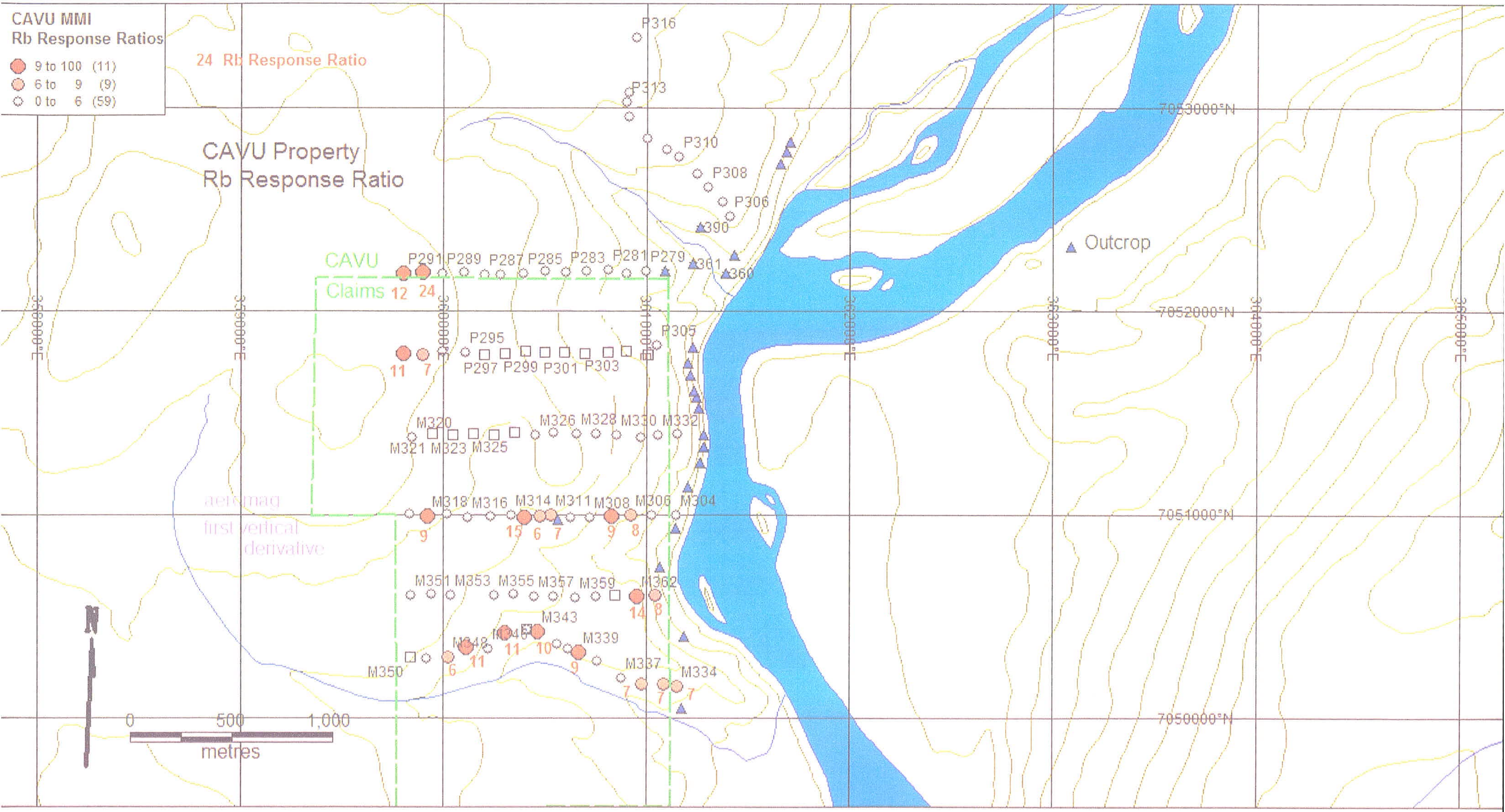

CAVU MMI
Rb Response Ratios
9 to 100 (11)
6 to 9 (9)
0 to 6 (59)
24 Rb Response Ratio
CAVU Property
Rb Response Ratio
CAVU
Claims
Outcrop
aeromag
first vertical
derivative
0
500
1,000
metres
7053000°N
7052000°N
7051000°N
7050000°N
P316
P313
P310
P308
P306
P305
P295
P297 P299 P301 P303
M320
M321 M323 M325
M326 M328 M330 M332
M318 M316 M314 M311 M308 M306 M304
M351 M353 M355 M357 M359
M343
M339
M350
M337
M334

	Table 1. MMI Response Ratios CAVU 2012																										
	gold pathfinders								porphyry			alteration					mafic				rare earth elements						
ID	Ag	As	Au	Ba	Hg	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mr	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
M304	3	6	2	2	1	2	5	2	0	4	5	3	3	2	3	5	2	2	1	37	6	3	2	2	2	2	2
M305	3	4	2	2	1	1	2	1	0	3	3	1	2	2	16	4	3	2	1	12	5	2	2	2	3	3	2
M306	2	1	60	1	1	1	2	1	0	1	1	2	2	1	12	8	1	1	1	6	1	0	0	0	0	0	0
M307	1	4	2	1	1	1	4	1	0	1	1	3	0	1	6	9	1	0	0	45	0	0	0	0	0	0	0
M308	3	1	2	2	1	1	4	1	0	2	3	2	8	3	3	3	2	4	1	2	11	3	4	2	5	6	6
M309	2	1	2	1	1	1	1	1	1	2	1	1	3	2	4	3	3	1	3	2	2	2	2	1	2	2	2
M311	7	1	2	2	1	1	2	1	1	2	4	1	5	4	7	7	2	3	1	1	1	1	1	1	2	2	2
M312	3	2	4	1	1	1	2	1	0	2	1	2	1	2	8	6	1	1	1	3	2	3	2	1	2	2	1
M313	1	8	2	2	1	4	6	2	1	3	2	6	6	1	4	15	1	1	3	95	19	17	11	9	9	8	6
M314	4	1	4	1	1	6	1	1	5	1	1	5	0	3	1	4	2	11	24	3	3	3	3	2	3	3	3
M315	1	2	8	2	1	1	7	1	0	2	1	2	1	1	8	4	1	1	3	19	2	2	1	2	1	1	1
M316	0	1	1	2	1	1	4	1	1	11	1	2	15	2	2	5	3	3	2	3	14	10	9	8	8	8	8
M317	3	6	2	2	1	2	26	4	1	6	1	5	4	1	2	4	2	5	6	69	74	64	55	43	49	45	42
M318	2	4	2	2	1	1	3	1	0	1	2	3	1	1	6	9	1	1	3	27	4	3	3	3	3	3	2
M319	5	1	4	3	1	1	2	1	2	1	1	1	3	3	2	0	7	5	6	2	10	6	8	5	10	11	14
M320	0	10	3	2	1	16	5	10	2	4	3	13	4	1	1	2	2	2	3	59	12	16	10	5	7	6	8
M326	9	1	4	3	1	1	1	1	2	16	1	2	29	2	1	1	3	7	3	1	3	3	3	3	3	3	4
M327	1	2	2	2	1	1	12	3	1	20	1	5	12	1	1	5	2	5	2	45	29	30	20	26	17	18	19
M328	4	1	6	3	4	1	3	1	2	1	1	1	1	2	1	2	4	9	10	1	22	25	35	20	41	42	45
M329	4	2	5	2	1	1	2	1	1	2	1	3	1	2	3	2	2	3	4	12	8	6	7	4	6	6	6
M330	3	1	5	2	1	2	1	1	3	2	1	2	3	4	1	1	3	9	4	1	2	1	2	2	2	2	2
M331	1	1	4	1	1	1	2	1	0	3	1	1	2	3	2	1	4	2	8	1	2	2	2	1	2	2	1
M332	4	1	6	2	1	2	2	1	2	1	1	2	4	3	1	1	3	10	8	1	3	3	3	2	4	4	5
M333	6	1	13	2	2	2	2	1	2	4	2	1	6	2	2	1	1	4	6	2	1	1	1	2	2	2	2
M334	8	1	1	3	1	1	1	1	0	1	1	1	2	3	6	7	2	1	1	2	0	0	0	0	0	0	0
M335	2	1	1	2	1	1	9	1	0	2	1	2	3	2	3	7	2	2	3	3	10	3	2	6	2	3	2
M336	3	2	1	1	1	1	4	1	1	1	1	2	3	2	9	7	2	3	2	2	3	1	2	1	2	2	2
M337	4	1	5	2	1	1	5	1	1	6	2	1	5	3	3	5	4	3	1	1	3	2	1	2	1	2	2
M338	8	1	2	3	1	1	12	1	1	7	1	2	6	3	3	4	4	6	1	1	5	4	3	4	3	6	7
M339	7	1	1	2	1	1	2	1	1	1	3	2	2	2	15	9	2	2	2	2	3	2	2	1	2	2	2
M340	3	2	2	2	1	4	13	5	0	5	1	6	5	2	2	2	1	3	2	30	7	8	5	12	4	5	5
M341	5	6	4	1	1	2	2	2	1	3	3	3	3	2	12	3	2	4	4	5	3	5	6	2	6	5	5
M343	1	4	9	1	1	1	6	1	0	3	3	1	3	1	3	10	1	1	2	12	2	1	1	2	1	1	1
M344	2	12	2	0	1	4	17	3	1	1	1	9	1	1	3	5	1	1	1	384	32	27	18	44	11	12	14
M345	1	1	0	2	1	1	5	1	0	1	1	4	5	1	3	11	1	1	1	48	7	4	2	3	1	2	1
M346	5	2	4	2	1	1	2	1	1	3	4	1	2	2	5	3	2	2	1	2	2	1	1	2	1	1	1
M347	4	6	1	0	1	1	1	1	0	0	1	3	2	1	16	11	1	1	1	9	1	1	2	1	2	2	2
M348	1	2	0	1	1	1	3	1	0	2	1	2	1	2	3	6	1	1	1	7	1	1	0	0	0	0	0
M349	5	1	5	2	1	1	1	1	1	2	1	1	2	3	1	1	3	3	8	1	1	2	2	1	2	2	2
M355	3	1	2	2	1	1	1	1	1	3	6	1	5	2	4	3	2	2	4	1	1	2	2	2	3	3	3
M356	5	1	4	3	1	2	3	1	1	3	1	2	1	2	3	1	2	5	9	1	2	4	4	2	4	5	7
M357	8	1	5	1	1	2	0	1	2	2	6	1	2	4	1	0	2	3	3	0	0	0	0	0	0	0	0
M358	4	1	3	2	1	1	1	1	1	1	1	1	2	2	1	1	2	3	3	1	1	1	1	1	2	2	2
M359	6	1	4	3	1	2	14	2	1	4	1	1	2	2	2	1	4	4	4	1	6	8	9	2	11	11	15

ID	Ag	As	Au	Ba	Hg	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mr	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
M360	1	6	1	1	1	4	2	5	1	1	1	4	2	1	2	5	1	1	1	16	2	4	4	3	4	4	4
M362	3	10	5	1	1	1	11	4	0	1	1	9	1	0	4	14	0	0	0	165	3	4	1	3	1	1	1
M363	5	6	8	1	1	2	5	3	1	2	1	4	3	1	2	8	2	3	7	27	15	26	24	5	20	15	20
P279	1	2	0	1	1	1	10	4	0	3	1	4	11	2	6	4	1	1	1	48	4	5	3	10	3	3	3
P280	1	1	8	2	1	1	3	1	1	3	1	2	5	2	2	4	3	6	6	6	27	20	23	15	22	19	16
P281	2	1	4	3	1	1	2	1	0	2	1	1	2	2	2	2	2	3	2	3	5	3	2	2	1	2	1
P282	7	1	3	1	1	4	1	6	5	6	14	2	16	3	1	2	3	14	12	1	1	1	1	1	1	1	1
P283	1	8	6	1	1	64	5	10	7	9	14	7	10	3	2	0	2	4	4	2	3	3	3	1	2	2	2
P284	4	1	5	2	1	1	14	3	1	3	1	3	4	2	2	2	3	5	10	5	17	23	18	14	16	16	19
P285	2	1	9	4	2	2	2	1	2	2	6	1	1	3	1	1	3	5	5	1	2	3	3	2	3	3	4
P286	1	1	0	2	1	1	2	1	1	1	1	2	1	2	2	3	2	2	4	12	1	1	1	1	1	2	1
P287	4	1	5	2	2	4	1	1	2	4	1	4	10	2	1	1	2	7	8	3	1	2	2	2	2	2	2
P288	3	1	4	2	1	4	2	1	3	5	1	9	8	3	0	2	2	6	10	3	6	7	5	4	4	4	6
P289	4	4	4	1	1	4	2	2	1	1	1	5	1	2	1	3	1	4	15	14	2	3	3	2	2	2	3
P290	2	8	0	1	1	4	16	4	0	2	2	7	1	0	14	24	0	1	1	102	8	9	4	5	3	3	3
P291	3	6	2	2	1	4	12	33	1	3	1	8	6	1	3	12	1	2	3	73	4	5	2	11	2	2	2
P292	5	4	2	3	2	2	10	2	1	1	1	3	1	1	1	11	1	1	5	63	34	41	22	11	15	14	13
P293	3	4	2	2	1	1	18	4	1	12	1	6	6	1	4	7	1	3	5	112	42	44	27	44	21	23	28
P294	3	1	4	3	1	2	4	1	3	4	1	4	5	2	1	2	3	4	14	11	16	20	19	11	17	16	22
P295	1	4	3	2	1	4	8	3	1	4	1	8	2	1	2	5	2	3	6	47	21	26	16	11	11	9	10
P305	3	2	4	3	2	6	3	4	4	15	4	2	9	1	1	3	3	6	1	3	1	1	2	3	1	2	2
P306	2	1	2	3	1	1	6	2	1	2	1	2	4	4	2	3	3	4	1	1	7	2	2	2	2	3	2
P307	5	1	3	2	1	1	3	4	1	2	3	2	5	3	3	4	5	6	2	2	4	3	4	2	4	5	5
P308	3	1	2	2	1	1	1	1	1	5	4	1	5	4	3	1	4	3	1	1	1	1	1	2	1	1	1
P309	1	2	5	1	1	1	3	1	1	2	1	2	3	2	2	5	2	3	3	23	11	6	6	3	6	5	5
P310	2	2	5	2	1	4	1	1	3	2	1	1	3	4	1	1	5	6	4	1	2	1	1	2	1	2	2
P311	4	1	6	2	1	1	2	1	1	1	1	2	3	3	2	1	4	7	12	1	5	5	6	2	6	6	8
P312	2	1	4	1	1	1	1	1	1	3	1	1	3	2	1	1	3	4	5	1	2	2	3	3	3	4	4
P313	2	1	5	2	2	1	3	1	1	2	1	1	4	3	2	2	3	5	6	1	19	9	9	6	10	11	11
P314	2	1	5	2	1	1	5	1	1	3	1	1	3	2	4	3	2	4	3	1	9	5	4	2	4	4	3
P315	3	1	4	3	1	1	6	1	1	2	1	2	3	2	2	3	4	6	3	1	14	8	10	7	11	13	16
P316	1	1	5	3	6	1	3	7	1	1	1	1	2	1	2	2	2	5	3	1	12	9	12	5	13	14	16
M351	7	1	6	2	1	2	1	1	2	10	2	2	5	3	1	2	4	6	4	1	1	1	1	2	1	1	1
M352	4	1	5	2	1	1	2	1	1	2	2	1	2	3	5	3	2	2	4	2	3	2	2	2	2	3	2
M353	2	1	6	1	1	1	1	1	1	2	1	1	2	2	1	1	3	2	4	1	2	2	2	2	2	2	2

Table 2. Ah Response Ratios. CAVU 2012

	gold pathfinders												porphyry				alteration						mafic					REE			
ID	Ag	As	Au	Ba	Hg	Sb	Bi	Te	Se	B	Pb	Zn	Cu	Co	Mo	Sn	Fe	Mn	S	Ca	Sr	K	Mg	Ni	Cr	U	Ti	Ce	La	Sc	Y
M321	1	1	2	4	1	6	2	1	3	3	1	2	1	1	1	1	1	5	1	3	2	2	2	1	1	5	1	1	1	2	1
M322	1	0	2	2	1	1	1	1	2	3	0	0	1	0	1	1	1	1	2	5	3	0	2	1	1	5	1	0	0	1	0
M323	0	0	1	2	1	1	0	1	1	5	0	1	1	0	1	0	0	1	2	5	3	1	2	1	0	7	1	0	0	0	0
M324	1	1	2	2	1	2	0	1	1	6	1	1	1	1	1	0	1	3	2	5	3	1	2	1	1	7	1	1	1	1	1
M325	1	0	1	2	2	1	0	3	2	5	0	2	0	0	1	1	0	1	2	4	2	1	2	0	1	0	1	0	0	1	0
M344	2	4	2	3	1	2	1	1	2	2	1	1	1	1	1	1	1	4	1	4	2	1	2	1	1	3	1	2	1	1	1
M350	1	2	1	2	1	2	0	3	2	4	1	5	1	1	1	1	1	3	2	4	2	1	3	1	1	3	2	1	1	1	1
M361	0	1	1	2	1	1	0	1	1	3	0	1	1	0	1	0	0	2	2	5	3	0	2	1	0	0	1	0	0	1	0
P296	2	1	2	6	1	3	2	1	12	2	1	1	2	1	1	1	1	3	1	4	2	1	2	3	1	17	2	2	1	2	1
P297	1	1	1	3	1	2	6	1	3	2	1	1	1	1	1	1	1	8	2	4	3	1	2	2	1	1	2	1	1	1	1
P298	1	3	2	3	1	1	2	7	3	1	2	1	1	1	1	1	2	7	2	4	3	1	2	1	1	6	2	2	1	2	1
P299	1	1	1	2	1	1	1	1	2	3	1	2	1	1	1	0	1	2	2	4	3	0	2	1	1	1	1	0	0	1	0
P300	2	4	3	2	1	3	3	1	2	3	2	3	2	1	1	1	2	2	2	3	2	2	2	2	1	1	2	2	1	2	1
P301	2	3	2	3	2	4	2	1	2	2	1	2	2	1	1	1	1	3	2	3	2	1	2	3	1	1	1	2	2	2	2
P302	1	1	1	3	1	2	1	5	2	1	1	2	2	1	1	1	1	1	1	1	1	2	1	1	1	2	2	2	2	3	2
P303	1	0	1	6	1	2	1	1	10	3	1	1	1	1	1	0	1	5	2	4	3	0	2	2	1	2	1	1	1	1	1
P304	3	2	1	4	1	2	2	3	10	1	2	3	3	1	1	1	2	4	1	2	2	1	2	3	1	4	2	2	2	2	2

	Table 3. Rock Sample Descriptions. CAVU 2012.
ID	Descriptions
N of M304	large discontinuous outcrop 800 m long of coarse grained granodiorite with
	persistent zones of widespaced limonitic fractures with hairline films of chlorite.
	There are rare qtz veinlets 2-3 mm wide. Pyrite content mostly on fractures <<1%
	Very rare chalcopyrite specs ≤1 mm. Outcrop has weak rusty appearance from a
	distance. Weak Kspar porphyritic texture with up to 5% kspar crystals locally in
	outcrop. No apparent strengthening of fracturing in any direction.
360	small outcrop granodiorite with mafics altered to chlorite ± epidote.
361	small outcrop granodiorite with some mafics altered to chlorite + epidote.
600 m N P306	At north end of survey area. Large discontinuous outcrop of granodiorite with
	low fracture limonite and common chloritization of mafics. <<1% pyrite on fracs.
	Minor qtz veins to one cm wide. No chalcopyrite seen. Kspar phenos (5%) poorly
	developed and found locally along outcrop.
NW of 361	as above
P317	at station 390 on map. Outcrop wkly rusty granod. Some Kspar flooded zones
	Mafics altered to chlorite.
P318	at station 390 on map. Qtz veins in granodiorite. No limonite. 5 cm wide.
390	Granodiorite outcrop. All limonite is on fractures. Mafics all chloritized. Outcrop
	is along bank of steep old road.
S of M334	Fresh granodiorite with minor mafics altered to chlorite.
300m N of M334	Like above.
200m N of M362	Small outcrop granodiorite. Weak chlorite of mafics.
M311	Outcrop granodiorite with weak chloritization of mafics.

SUMMARY

Work described in this report was conducted under a YMIP Focussed Regional Grant, Hardrock Type. YMIP No is 12-019 awarded to Jeff Mieras.

The following is an historical account of events on this project:

June 6. Mob Whs to Dawson. Bought supplies. Shared time with other projects.

June 26. Drove Dawson to McQuesten airstrip. Set up camp & inflated boat.

June 27. Staked **CAVU**.

June 28. Staked McQ.

June 29. Drove Dawson and recorded CAVU and McQ claims. Drove McQuesten. Time and costs of recording etc not included in expenditures for this grant.

June 30. Sampled **CAVU**.

July 1. Sampled **CAVU**.

July 2. Sampled **CAVU**.

July 3. Sampled McQ.

July 4. Sampled McQ.

July 5. Demob to Whs. Sorted and shipped samples. Stored camp supplies and van. Shared this time with other projects.

The target area occurs in the underexplored pre-Reid glaciated terrain east of the White Gold District within the Reid Lakes Batholith. The project area occurs west of the Stewart River across from Chapman Bar between Pigue and Independence Creeks about 17 km downstream along the Stewart River. McQuesten airstrip is located on the Campbell Highway about one and a half hours drive from Dawson City. It is located on NTS Map Sheet 115P12. Centre of the claims is at 370,500E; 7,051,000N; UTM NAD83 Zone 8.

Richards and Mieras drove on June 26 from Dawson City to McQuesten airstrip where they set up a fly camp and inflated their Canova boat and readied it for work the next day. From this camp the two prospectors made daily boat trips to the property for staking and sampling as outlined above.

Evaluation of the project comes from geology, RGS data, and aeromagnetic data.

The target area lies within the Reid Lakes Batholith of the Yukon Tanana Terrane. The Reid lakes Batholith is Permian in age, undeformed,

unmetamorphosed, and intrudes its' own volcanic pile. Both structurally controlled gold mineralization and porphyry Cu-Au-Mo deposits were the targets sought. Host rocks for White Gold District mineralization include all rock types including intrusions (Kaminak) so the area being underlain by a batholith was in no way considered a detriment for Au mineralization.

For the CAVU target, RGS sample 1411 has a 80th percentile value for gold (2.0 ppb) and has associated 95th or higher percentile values for Cu, Mo, Sb, As, Ba, Bi, Pb, Hg, Se, Ag, S, Te, and Zn. This anomaly is one of the most pronounced anomalies in the 278 sample data set from the pre-Reid glaciated area within NTS map sheet 115P. Samples collected from creeks adjacent to the targeted creek have only a few anomalous pathfinder elements with much lower values than in the targeted creek.

RGS data indicate a potential for Cu-Mo-Au porphyry mineralization, which is supported by the geology. RGS sample number 1411 from the McQ target area has 98th percentile values for both Cu and Mo. Bedrock has been mapped by Ryan and Colpron and others previously as the Reid Lakes Batholith intruding its own volcanic pile similar in size and setting to the Guichon Creek Batholith (hosting the Valley Copper, Lornex, and Bethlehem deposits) of southern B.C. The surface area of porphyry open pit mines can often be contained within a single full size claim so there is plenty of room to discover this style of mineralization within each of the target areas.

The first vertical derivative map provides targets in the form of linears that represent a contrast in magnetic susceptibility usually represented by contacts and faults. These linears occur within the drainage with the RGS silt that was anomalous gold and pathfinder elements and were used as a guide for soil sampling and float prospecting for structurally controlled gold mineralization.

Traverses were carried out by a combination of geological examination of outcrop and float and by soil sampling using selective leach techniques because the area was known to have been glaciated in pre-Reid times and residual soils were believed to be absent. The primary soil sampling method was MMI soil sampling at 100 m intervals on lines crossing the magnetic first vertical derivative high and spaced so as to give widespread coverage of as much of the area as possible. Where bedrock and subcrop exposures of intrusive rock were encountered no samples were collected. Refer to figures for coverage in relation to the magnetic lows and highs. Refer to Table 3 for rock descriptions of outcrop and float.

All garbage was removed from the bush and the McQuesten camp and taken to Dawson City for disposal.

SURVEY METHODS

General

Soil sampling used the selective leach MMI analyses because the area had been glaciated during one or more pre-Reid glacial periods and MMI soil sampling can "see through" deep overburden including glacial till.

Four ~~Six~~ man days were spent by Jeff Mieras and Gordon Richards collecting 79 MMI soil samples, 17 Ah soil samples and examining outcrops and float. GPS coordinates were recorded using a UTM, Zone 8 Projection.

Sample details such as rock type and mineralization, soil colour, texture, depth, dampness and site slope were described in notes. Their locations were recorded in a Garmin GPSmap 60Cx. Some UTM co-ordinates were also recorded in notebooks as a backup in case of loss of the GPS unit or loss of data stored on the unit. No such loss occurred. Sampled material was placed into numbered bags as described below. Soils were collected at 100 m intervals on widely space lines designed to give broad coverage and cross the magnetic vertical derivatives wherever possible.

Response ratios for 27 elements were calculated for all 79 MMI soil samples and are provided in Table 1. Response ratios for 31 elements were calculated for all 17 Ah soil samples and are provided in Table 2. Anomalous results greater than selected threshold values for Au, Ag, As, Sb, Cu, Mo, Ti, and Rb are shown graphically on the figures. Lab results and spreadsheets showing GPS location with the geochemical data are provided in Appendices.

Geology.

Gold possibly related to the magnetic vertical derivative highs was one target. This target is modeled after the White Gold District structurally controlled deposits with the realization that other gold bearing systems are certainly possible. Expected size of geochemically anomalous zones is up to three km long and up to 500 m or so wide. There are numerous examples from the White Gold

District where a reconnaissance style soil line with a 100m spaced sample interval yielded only one anomalous sample that eventually led to the discovery of significant gold mineralization.

Porphyry style Cu-Au-Mo mineralization is the other target. In the following evaluation of the porphyry potential, the expected size of a porphyry system was used. In British Columbia the size of some of the cal-alkalic porphyry deposits was measured by scaling size of pits from Google Earth. The outside of the pits is clearly beyond the limits of ore but is considered to be within the geochemically anomalous halo or footprint and thus provides a crude expected geochemically anomalous target size for a porphyry deposit. Sizes of B.C. porphyry pits are:

Valley Copper	1800 m diam
Lornex	2000 m x 1300 m
Bethlehem	4 pits 500 to 600 m diam
Gibraltar	3 pits 1100 x 700 m, 1100 m diam, 500 x 1100 m
Granisle	2 pits 600 m and 700 m diam
Island Copper	2200 m x 1000 m
Brenda	800 m diam
Huckleberry	2 pits 500 m and 600 m diam

Porphyry target size is therefore in the 500 m to 2000 m diameter range. The first three pit sizes on the above list are from the Guichon Creek Batholith which is similar in size to the Reid Lakes Batholith. Both batholiths intrude their own volcanic pile.

MMI Soil Samples.

MMI analysis uses a weak partial extraction to improve the conventional geochemical response over buried ore deposits. The process measures the mobile metal ions from mineralization, which have moved toward the surface and become loosely attached to the surfaces of soil particles. They concentrate within the 10 to 25 cm soil depth which on the property is a mixture of loess and till. Its effectiveness has been documented in over 1000 case histories on six continents and includes numerous commercial successes. The anomalies are sharply bounded and in most cases directly overlie and define the extent of the surface projection of buried primary mineralized zones. The MMI process is a proprietary method developed by Wamtech of Australia. SGS Minerals Services in Toronto purchased all rights to the method and provides analyses in Canada.

Watch and ring were removed prior to sampling. Pits were dug by shovel to a depth of 30 cm in order to expose the soil profile for sampling. The profile was scraped clean with a plastic scoop to remove any metal effect from the shovel. A continuous strip of soil was collected by plastic scoop over the interval of 10 to 25 cm below the top of true soil, placed in a pre-numbered ziplock baggie and placed in an 11 inch by 20 inch 2 mil plastic bag. Loess was present at sample sites on gentle slopes and along with some till was the sample medium for these samples. On steeper slopes the loess was absent and till was the sample medium. Samples were kept cool until they were shipped to SGS Minerals Services in Toronto for analyses.

In the SGS Lab, samples are not dried or prepared in any way. The MMI process includes analyses of an unscreened 50-g sample using multi-component extractants. Metal contents are determined for 53 elements by ICP-MS in the parts per billion range.

Response Ratios were calculated for 27 elements as shown on Table 1. The average value for results of the lower quartile was calculated for each element. One-half of detection limit was used for those samples with values reported as less than detection limit. Then each result was divided by the lower quartile average to obtain its response ratio. A response ratio of 10 or more is considered very significant for indicating underlying mineralization. Lesser values of 5 to 10 can also be important particularly where more than one element has such a value. Response ratios can best be thought of as a multiple of background in interpreting results.

Ah Soil Samples.

Ah horizon organic soil samples were collected from the very base of the organic layer overlying loess and placed into gusseted kraft bags. The organic layer was from 1 to 2 cm thick. Considerable care and time was taken to collect only completely decomposed organic soil. Samples were sent to Acme Labs in Vancouver, B.C., where samples were dried at 60 degrees C, 100 g sieved to -80 mesh, and a 15 g sample digested in 1:1:1 Aqua Regia and analyzed by Acme's Ultratrace ICP-MS analyses for 53 elements.

Response ratios were then calculated for 31 elements similar to those for the MMI soils. Results are reported in Table 2 and in an Appendix.

RESULTS

MMI response ratios for Au, Ag, As, Sb, Cu, Mo, Rb and Ti are shown graphically on the attached figures and are available for many more elements on Tables 1 and 2. The figures also show the aeromagnetic vertical derivative highs, outcrops, subcrops and areas of abundant angular float.

Geology.

The target area lies within the Reid Lakes Batholith best described by Ryan and Colpron in their Geoscience Map 7 of southwestern McQuesten mapsheet. Most outcrops were a medium grained hornblende granodiorite with a mafic content of one to four percent. Weakly developed Kspar phenocrysts measuring up to 2 cm long and comprising up to 5% of rock volume were noticed in a few outcrops and float. Chloritization of mafics was observed in many outcrops along widely spaced fractures. Epidote occurred as disseminations and fracture fillings in a few samples. Limonite was seen in several areas within float and outcrop. The most intense limonite was seen in two small outcrops at site 390 in the north of the survey area.

Limonite was persistent in the large outcrops forming bluffs facing Stewart River but was neither abundant nor close-spaced. Spacing of limonite bearing fractures was on average about a metre. Chlorite was weakly developed on many fractures throughout these long outcrops. Epidote disseminations and rare fracture fillings also were present. Quartz veins up to 2 cm wide were uncommon but present. Very minor fracture pyrite was seen on some of the fractures and disseminated within some of the outcrops. Overall the alteration of these large outcrops was persistent but weak and did not increase in intensity in any direction. The alteration could certainly be peripheral to porphyry style mineralization but the location of such mineralization could be either under Stewart River Valley or under adjacent hills to the west. The western possibility appears to be unlikely based on the MMI soil results described below.

No live limonite along fractures and no float or outcrop with alteration styles similar to those associated with White Gold District gold occurrences were found anywhere on the survey area. However there were large tracts of no outcrop or angular float that could easily conceal such alteration styles. Geology was only recorded from float and soil pits along Richards traverses and from hand specimens returned by Mieras.

Glaciation is described as pre-Reid in age. Reid glaciation began 200,000 years ago and ended about 50,000 years ago. The glaciation across the general area of the CAVU Project is described as much older than Reid, possibly older than 500,000 years (Jeff Bond, personal communication, 2012). Presence of tills was confirmed in most soil pits. A 20 to 40 cm thick post McConnell age loess deposit blankets most of the hillsides that along with till makes mapping of underlying geology and the observation of altered float difficult. On steeper slopes facing Stewart River much of the loess has been removed by weathering although till remains.

Response Ratios.

Very little encouragement for additional exploration can be found in the geochemical data. Ti and Rb form high response ratio values on the west and south edges of the survey area. These high values could be indicative of an illmenite enriched and Rb enriched intrusive phase.

The two high Mo response ratios of 14 along the north soil line were collected from slightly organic bearing soils that are likely responsible for the high values. Organic material is known to scavenge metals.

All Cu response ratios are less than 8 and of little value in indicating areas for additional exploration.

Au, As, Ag, and Sb response ratios are mostly under 12 and have scattered distributions with little mutual support in individual samples and thus provide little encouragement for additional work. Only Sample number M306 with a 60 Au response ratio is of any interest. This is an exceptionally high value. However there are no associated high pathfinder elements in this or adjacent samples so it's significance is reduced.

Only Pb forms any coherent pattern of high response ratios in the northwest part of the survey but its' significance is uncertain again because of the lack of associated anomalous metal values.

CONCLUSIONS AND RECOMMENDATIONS.

- Outcrops of medium grained weakly Kspar porphyritic hornblende granodiorite coincided with the geology of the Reid Lakes Batholith as described by Ryan and Colpron.
- Soils are comprised of till covered by a blanket of loess except on the steep hillsides facing Stewart River where much of the loess has been removed by weathering.
- Selective leaches of soils using MMI and Ah analyses provide no encouragement for additional work except for possibly a single high response ratio of 60 for Au which could be followed up with a tighter MMI soil grid. This is considered a low priority target because of the lack of associated pathfinder elements.
- The porphyry potential has been ruled out over the survey area. The large outcrops facing Stewart River could be peripheral to a porphyry deposit under the Stewart River Valley as the alternative of lying under hills west of these outcrops has been shown to be unlikely based on the MMI soil sample results.

Respectfully submitted,

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Submitted By:	Gordon Richards
Receiving Lab:	Canada-Whitehorse
Received:	July 09, 2012
Report Date:	July 23, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS WHI12000261.1

CLIENT JOB INFORMATION

Project:	CAVU
Shipment ID:	
P.O. Number	
Number of Samples:	17

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Air Dry	17	Air Dry			WHI
SS80	17	Dry at 60C sieve 100g to -80 mesh			WHI
1F05	17	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Project: CAVU
Report Date: July 23, 2012

CERTIFICATE OF ANALYSIS WHI12000261.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
M321	Soil	0.69	17.04	2.47	35.2	63	16.9	5.9	1089	0.51	1.6	3.1	2.7	0.3	117.6	2.28	2.11	0.08	8	3.00	0.084
M322	Soil	0.45	12.87	1.46	7.5	48	7.9	1.4	286	0.36	0.7	3.7	2.1	0.1	133.8	0.27	0.50	0.06	5	4.14	0.075
M323	Soil	0.46	10.21	0.81	17.3	33	7.9	1.4	189	0.20	0.8	4.8	1.4	<0.1	143.0	0.29	0.35	<0.02	3	4.52	0.077
M324	Soil	0.66	13.93	1.55	26.8	49	12.8	2.6	651	0.41	1.7	5.0	2.5	0.2	149.2	0.49	0.61	<0.02	6	4.37	0.112
M325	Soil	0.45	7.65	1.27	42.2	67	5.3	2.0	317	0.29	0.8	0.2	1.1	0.1	102.0	0.75	0.20	<0.02	4	3.51	0.079
M344	Soil	0.66	19.99	4.38	22.8	150	14.3	5.2	809	0.98	6.0	2.1	2.1	0.2	120.9	0.46	0.66	0.06	13	3.57	0.097
M350	Soil	0.73	18.56	2.93	96.1	138	13.2	4.6	760	0.56	2.7	1.7	1.5	0.2	124.6	1.62	0.73	0.02	9	3.41	0.104
M361	Soil	0.45	11.12	1.17	28.6	40	6.8	1.7	373	0.26	1.0	0.2	1.1	<0.1	135.6	0.52	0.20	<0.02	4	4.24	0.072
P296	Soil	0.47	44.88	4.07	27.0	153	35.9	5.5	674	0.93	1.4	11.7	2.5	0.3	119.0	1.60	1.04	0.08	14	3.30	0.106
P297	Soil	1.11	28.05	2.44	28.0	108	20.3	6.0	1693	0.59	2.4	1.0	0.6	0.1	145.9	1.74	0.60	0.27	12	3.74	0.099
P298	Soil	1.03	16.97	4.89	21.5	121	11.6	6.1	1568	1.21	5.0	3.8	1.8	0.3	136.4	0.35	0.49	0.09	19	3.43	0.115
P299	Soil	0.64	11.13	1.63	49.8	59	8.8	2.2	501	0.41	1.6	0.9	1.1	0.1	139.0	0.44	0.32	0.04	7	3.91	0.076
P300	Soil	0.87	28.98	5.56	60.2	144	23.7	6.1	534	1.25	7.0	0.8	3.3	0.6	108.6	0.88	1.05	0.11	16	2.96	0.097
P301	Soil	0.82	42.59	3.54	38.1	225	34.6	4.5	661	0.85	4.3	0.9	2.4	0.6	124.1	1.33	1.27	0.07	12	2.86	0.099
P302	Soil	0.63	28.70	4.09	50.7	89	12.6	2.8	146	0.82	1.7	1.6	1.3	0.8	54.5	1.64	0.60	0.06	16	0.95	0.052
P303	Soil	0.61	25.72	1.74	16.5	108	19.9	5.0	1107	0.47	<0.1	1.4	1.3	0.2	152.8	1.89	0.74	0.04	8	3.61	0.095
P304	Soil	0.68	49.02	5.32	58.8	275	35.4	5.7	819	1.26	2.8	2.9	0.6	0.3	85.4	3.08	0.72	0.09	19	2.00	0.087

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
M321	Soil	2.8	6.7	0.41	1052	0.007	5	0.50	0.021	0.04	<0.1	1.0	0.03	0.12	90	1.0	<0.02	1.0	0.21	<0.1	0.06
M322	Soil	1.5	5.4	0.31	570.1	0.008	5	0.31	0.019	0.01	<0.1	0.5	0.03	0.17	51	0.7	<0.02	0.9	0.08	<0.1	0.07
M323	Soil	0.8	3.3	0.26	462.6	0.004	10	0.16	0.021	0.02	<0.1	0.3	0.02	0.16	53	0.4	<0.02	0.3	0.07	<0.1	0.03
M324	Soil	2.6	5.7	0.37	567.9	0.006	11	0.30	0.020	0.02	<0.1	0.5	0.03	0.19	57	0.5	<0.02	0.6	0.22	<0.1	0.04
M325	Soil	1.0	4.6	0.29	454.4	0.007	10	0.21	0.026	0.03	<0.1	0.5	0.02	0.15	108	0.7	0.03	0.5	0.20	<0.1	0.03
M344	Soil	5.8	9.2	0.36	826.4	0.008	4	0.54	0.015	0.02	0.1	0.8	0.04	0.12	43	0.9	<0.02	1.3	0.25	<0.1	0.04
M350	Soil	2.5	8.1	0.48	515.1	0.014	7	0.41	0.020	0.03	<0.1	0.9	0.04	0.14	71	0.7	0.03	1.0	0.39	<0.1	0.05
M361	Soil	1.1	4.2	0.33	599.5	0.006	5	0.23	0.019	0.01	<0.1	0.4	0.02	0.15	46	0.4	<0.02	0.7	0.08	<0.1	0.03
P296	Soil	6.2	11.6	0.36	1498	0.010	4	0.79	0.015	0.02	<0.1	1.1	0.03	0.12	64	4.6	<0.02	1.6	0.18	<0.1	0.08
P297	Soil	2.5	8.2	0.32	818.6	0.013	4	0.53	0.019	0.02	<0.1	0.8	<0.02	0.16	34	1.0	<0.02	1.4	0.22	<0.1	0.06
P298	Soil	4.7	11.7	0.39	706.9	0.010	2	0.68	0.009	0.02	<0.1	1.2	0.04	0.18	61	1.1	0.07	2.0	0.21	<0.1	0.03
P299	Soil	1.3	5.4	0.36	448.3	0.006	6	0.26	0.009	0.01	<0.1	0.6	0.03	0.16	51	0.7	<0.02	0.7	0.21	<0.1	0.04
P300	Soil	5.5	11.5	0.36	563.7	0.011	5	0.75	0.010	0.04	0.1	1.2	0.05	0.14	86	0.8	<0.02	1.7	0.34	<0.1	0.08
P301	Soil	6.6	9.2	0.27	835.7	0.009	4	0.63	0.011	0.02	0.1	1.1	0.04	0.15	99	0.8	<0.02	1.3	0.24	<0.1	0.09
P302	Soil	7.5	10.3	0.17	721.1	0.012	2	0.51	0.009	0.04	0.2	2.0	0.04	0.07	71	0.8	0.05	1.8	0.21	<0.1	0.02
P303	Soil	2.2	6.4	0.42	1604	0.006	5	0.42	0.014	0.01	<0.1	0.7	0.03	0.15	73	3.8	<0.02	1.0	0.12	<0.1	0.03
P304	Soil	7.0	12.6	0.32	981.3	0.013	2	0.76	0.013	0.03	0.1	1.4	0.03	0.08	50	3.7	0.03	2.0	0.27	<0.1	0.03

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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Project: CAVU
Report Date: July 23, 2012

CERTIFICATE OF ANALYSIS WHI12000261.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
M321	Soil	0.24	2.0	0.3	<0.05	2.0	3.43	5.6	<0.02	1	0.4	1.3	<10	<2
M322	Soil	0.25	0.4	0.2	<0.05	2.4	1.41	2.8	<0.02	<1	0.1	0.7	<10	<2
M323	Soil	0.11	0.6	0.1	<0.05	0.9	0.87	1.4	<0.02	3	<0.1	0.6	<10	<2
M324	Soil	0.22	1.2	<0.1	<0.05	1.3	2.50	3.9	<0.02	<1	0.3	1.7	<10	<2
M325	Soil	0.13	1.7	0.2	<0.05	1.3	0.68	1.8	<0.02	<1	0.1	1.0	<10	<2
M344	Soil	0.37	1.8	0.2	<0.05	1.6	5.26	10.9	<0.02	<1	0.3	3.8	<10	<2
M350	Soil	0.23	2.6	0.4	<0.05	1.8	2.17	4.8	<0.02	3	0.2	1.5	<10	<2
M361	Soil	0.20	0.4	0.1	<0.05	1.2	0.80	2.0	<0.02	<1	<0.1	0.6	<10	<2
P296	Soil	0.47	1.2	0.2	<0.05	2.8	7.24	10.3	<0.02	<1	0.6	3.5	<10	<2
P297	Soil	0.36	0.7	0.2	<0.05	2.0	2.02	5.2	<0.02	<1	0.1	1.1	<10	<2
P298	Soil	0.46	1.4	0.2	<0.05	1.4	4.11	9.8	<0.02	<1	0.2	3.8	<10	<2
P299	Soil	0.18	0.9	0.1	<0.05	1.3	1.26	2.5	<0.02	<1	0.1	1.6	<10	<2
P300	Soil	0.51	3.7	0.3	<0.05	3.1	5.04	9.9	<0.02	2	0.3	4.7	<10	<2
P301	Soil	0.32	2.2	0.3	<0.05	3.8	8.30	12.8	<0.02	<1	0.4	2.1	<10	<2
P302	Soil	0.42	2.2	0.2	<0.05	1.3	4.86	14.3	<0.02	<1	0.3	2.8	<10	<2
P303	Soil	0.22	0.5	0.1	<0.05	1.5	2.75	4.2	<0.02	<1	0.2	1.3	<10	<2
P304	Soil	0.46	2.9	0.4	<0.05	1.2	6.42	12.3	<0.02	<1	0.3	4.8	<10	<2

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Delta BC V4K 4W6 Canada

Project: CAVU
Report Date: July 23, 2012

QUALITY CONTROL REPORT WHI12000261.1

		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
M322	Soil	0.45	12.87	1.46	7.5	48	7.9	1.4	286	0.36	0.7	3.7	2.1	0.1	133.8	0.27	0.50	0.06	5	4.14	0.075
REP M322	QC	0.51	15.59	1.67	9.3	56	8.6	1.7	309	0.39	1.3	4.4	2.4	0.2	149.0	0.29	0.64	0.02	5	4.48	0.088
Reference Materials																					
STD DS9	Standard	13.29	104.9	127.6	305.6	1929	39.5	7.6	587	2.32	24.7	2.8	126.0	6.3	70.0	2.34	5.16	5.89	40	0.74	0.085
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	<0.01	<0.01	<0.1	5	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Project: CAVU
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QUALITY CONTROL REPORT WHI12000261.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
M322	Soil	1.5	5.4	0.31	570.1	0.008	5	0.31	0.019	0.01	<0.1	0.5	0.03	0.17	51	0.7	<0.02	0.9	0.08	<0.1	0.07
REP M322	QC	1.8	6.1	0.36	613.2	0.011	5	0.36	0.019	0.01	<0.1	0.6	0.03	0.18	44	0.9	<0.02	0.9	0.10	<0.1	0.06
Reference Materials																					
STD DS9	Standard	14.1	116.1	0.62	311.4	0.110	2	0.97	0.088	0.40	2.9	2.8	5.80	0.17	185	5.4	5.13	4.8	2.46	0.1	0.07
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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QUALITY CONTROL REPORT WHI12000261.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
M322	Soil	0.25	0.4	0.2	<0.05	2.4	1.41	2.8	<0.02	<1	0.1	0.7	<10	<2
REP M322	QC	0.28	0.4	0.2	<0.05	2.3	1.60	3.3	<0.02	<1	0.1	0.8	<10	<2
Reference Materials														
STD DS9	Standard	1.50	35.4	6.4	<0.05	1.8	6.31	27.1	2.21	63	5.6	26.0	134	388
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Submitted By:	Gordon Richards
Receiving Lab:	Canada-Whitehorse
Received:	July 09, 2012
Report Date:	July 15, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS WHI12000260.1

CLIENT JOB INFORMATION

Project:	CAVU
Shipment ID:	
P.O. Number	
Number of Samples:	2

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	2	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	2	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

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

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

ADDITIONAL COMMENTS

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Client: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Project: CAVU
Report Date: July 15, 2012

CERTIFICATE OF ANALYSIS WHI12000260.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
P317	Rock	0.32	0.2	11.9	11.4	8	<0.1	3.5	2.1	87	0.69	2.1	<0.5	8.9	20	<0.1	0.1	<0.1	3	0.19	0.016
P318	Rock	0.21	<0.1	3.0	1.4	3	<0.1	1.5	0.5	45	0.40	2.9	<0.5	3.7	10	<0.1	0.1	<0.1	<2	0.09	0.010

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Client: Richards, Gordon
6410 Holly Park Drive
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Project: CAVU
Report Date: July 15, 2012

CERTIFICATE OF ANALYSIS WHI12000260.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
P317	Rock	18	9	0.07	88	0.029	<1	0.49	0.070	0.25	<0.1	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
P318	Rock	10	11	0.02	49	0.004	<1	0.23	0.040	0.14	<0.1	<0.01	0.3	<0.1	<0.05	1	<0.5	<0.2

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Client: Richards, Gordon
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Delta BC V4K 4W6 Canada

Project: CAVU
Report Date: July 15, 2012

QUALITY CONTROL REPORT WHI12000260.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																					
STD DS9	Standard		13.0	105.4	116.2	307	1.9	39.2	7.6	597	2.36	25.6	111.5	6.1	71	2.5	5.6	5.5	41	0.77	0.083
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-WHI	Prep Blank		0.1	2.8	2.7	47	<0.1	4.1	4.2	604	2.03	1.0	0.8	4.9	67	<0.1	<0.1	<0.1	38	0.55	0.080
G1-WHI	Prep Blank		0.2	2.8	2.8	45	<0.1	2.8	3.7	563	1.92	2.2	<0.5	5.1	59	<0.1	<0.1	<0.1	36	0.51	0.074

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Report Date: July 15, 2012

QUALITY CONTROL REPORT WHI12000260.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																		
STD DS9	Standard	14	119	0.62	317	0.110	3	1.04	0.103	0.43	3.1	0.23	2.6	5.5	0.16	5	5.3	4.8
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-WHI	Prep Blank	13	12	0.55	187	0.111	2	1.03	0.123	0.53	1.3	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
G1-WHI	Prep Blank	12	11	0.49	157	0.103	2	0.95	0.109	0.50	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2

SGS

Certificate of Analysis

Work Order: TO122409

To: **Gordon Richards**
Gordon Richards
6410 Holly Park Drive
DELTA
BC V4K 4W6

Date: Aug 29, 2012

P.O. No.	:	Project:CAVU
Project No.	:	-
No. Of Samples	:	79
Date Submitted	:	Aug 04, 2012
Report Comprises	:	Pages 1 to 19 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard samples:

Certified By : [signature]
Bruce Robertson
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	Ag@	Al@	As@	Au@	Ba@	Bi@	Ca@	Cd@	Ce@	Co@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M304	24	19	30	0.2	20400	<1	340	1	275	86
M305	21	10	20	0.2	20400	<1	320	1	221	59
M306	14	33	<10	7.6	12300	<1	250	2	26	13
M307	9	39	20	0.2	10900	<1	270	<1	11	14
M308	25	46	<10	0.2	20600	<1	480	2	466	35
M309	16	15	<10	0.2	11300	<1	460	2	81	35
M311	54	11	<10	0.3	22700	<1	800	<1	59	32
M312	22	16	10	0.5	12100	<1	290	1	107	35
M313	5	79	40	0.2	16300	<1	150	3	841	55
M314	34	15	<10	0.5	10600	<1	550	15	126	27
M315	9	35	10	1.0	17500	<1	240	1	82	38
M316	2	62	<10	0.1	16600	<1	320	<1	631	227
M317	24	120	30	0.2	17200	<1	200	1	3270	118
M318	14	48	20	0.2	19300	<1	280	2	195	24
M319	44	25	<10	0.5	29100	<1	550	<1	432	26
M320	4	20	50	0.4	21600	1	180	2	518	83
M326	70	15	<10	0.5	30500	<1	400	1	117	334
M327	9	94	10	0.3	18900	<1	250	<1	1290	414
M328	35	35	<10	0.8	35100	<1	410	1	956	18
M329	33	28	10	0.7	20700	<1	370	3	372	34
30	27	11	<10	0.7	22900	<1	720	3	67	36
M331	6	14	<10	0.5	14300	<1	490	2	106	53
M332	31	19	<10	0.8	22300	<1	590	3	138	22
M333	48	11	<10	1.6	19900	<1	440	3	41	92
M334	68	12	<10	0.1	27700	<1	480	2	11	28
M335	15	61	<10	0.1	17900	<1	320	2	429	50
M336	28	32	10	0.1	10900	<1	320	4	142	21
M337	35	13	<10	0.7	25900	<1	630	2	124	120
M338	63	48	<10	0.2	32900	<1	570	1	226	149
M339	60	26	<10	0.1	17100	<1	340	4	111	22
M340	28	100	10	0.3	21500	<1	300	2	290	110
M341	41	27	30	0.5	9410	<1	330	4	147	57
M343	11	25	20	1.2	10200	<1	190	2	99	53
M344	16	185	60	0.2	4340	<1	150	1	1410	27
M345	8	88	<10	<0.1	16500	<1	240	4	299	21
M346	43	13	10	0.5	17600	<1	330	2	80	66
M347	36	23	30	0.1	4210	<1	180	3	27	8
M348	7	38	10	<0.1	6670	<1	320	2	37	35
M349	44	12	<10	0.6	17200	<1	560	1	54	44
M355	22	9	<10	0.3	16700	<1	460	2	43	67
M356	39	16	<10	0.5	28800	<1	440	2	101	73
M357	62	7	<10	0.7	10200	<1	670	1	<5	51
M358	30	10	<10	0.4	25900	<1	440	2	35	31

Final : TO122409 Order: Project:CAVU

Element	Ag@	Al@	As@	Au@	Ba@	Bi@	Ca@	Cd@	Ce@	Co@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M359	52	18	<10	0.5	33200	<1	450	<1	278	91
M360	11	21	30	0.1	9520	<1	130	3	82	13
M362	22	99	50	0.7	11000	<1	60	<1	135	24
M363	37	33	30	1.0	15600	<1	190	6	644	37
P279	11	128	10	<0.1	15400	<1	290	8	169	58
P280	10	36	<10	1.0	20100	<1	420	<1	1170	70
P281	17	22	<10	0.5	27400	<1	410	1	233	32
P282	56	9	<10	0.4	7790	<1	530	65	44	135
P283	6	6	40	0.8	14200	<1	490	10	148	196
P284	31	84	<10	0.7	24500	<1	390	2	766	63
P285	20	10	<10	1.2	46200	<1	550	2	83	40
P286	5	25	<10	<0.1	17500	<1	370	1	66	14
P287	35	16	<10	0.6	23100	<1	400	7	59	85
P288	22	42	<10	0.5	16300	<1	510	3	256	102
P289	29	30	20	0.5	15800	<1	300	2	102	21
P290	19	103	40	<0.1	12700	<1	80	3	334	49
P291	22	95	30	0.2	17500	<1	130	8	183	56
P292	38	68	20	0.3	32300	<1	160	4	1510	31
P293	21	158	20	0.2	16100	<1	220	6	1830	256
P294	24	44	<10	0.5	34400	<1	360	1	686	81
5	11	69	20	0.4	19800	<1	230	2	925	79
305	22	9	10	0.5	33900	<1	280	15	64	316
P306	20	24	<10	0.2	27200	<1	660	2	321	48
P307	38	27	<10	0.4	18700	<1	570	4	160	41
P308	25	8	<10	0.3	24400	<1	730	1	54	97
P309	5	26	10	0.7	13800	<1	320	2	463	44
P310	13	17	10	0.7	17500	<1	760	4	68	49
P311	34	27	<10	0.8	19500	<1	520	2	234	29
P312	15	12	<10	0.5	15600	<1	430	1	108	67
P313	14	36	<10	0.7	16300	<1	470	1	851	37
P314	15	33	<10	0.7	19000	<1	320	2	391	53
P315	22	44	<10	0.5	27700	<1	430	3	608	32
P316	7	37	<10	0.6	29000	<1	260	3	524	19
M351	56	7	<10	0.8	17500	<1	630	2	32	216
M352	30	18	<10	0.7	23400	<1	470	2	112	47
M353	17	11	<10	0.8	14900	<1	440	<1	84	41
*Rep M315	8	38	20	0.5	17900	<1	240	1	99	34
*Rep M318	14	48	20	0.1	15400	<1	250	3	150	32
*Rep M341	37	24	30	0.6	8450	<1	310	4	117	66
*Rep M357	47	7	<10	0.7	9480	<1	650	1	<5	48
*Rep P289	30	29	10	0.6	19300	<1	320	2	101	14
*Rep P316	8	43	<10	0.8	26500	<1	250	2	554	18
*Rep M353	23	12	<10	0.9	16000	<1	500	<1	90	54

SGS

Element	Ag@	Al@	As@	Au@	Ba@	Bi@	Ca@	Cd@	Ce@	Co@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
*Std MMISRM16	20	36	10	25.8	50	<1	230	4	13	50
*Std AMIS0169	9	60	10	0.5	870	<1	40	2	790	106
*Std MMISRM18	25	24	10	8.4	160	<1	190	94	24	70
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr@	Cs@	Cu@	Dy@	Er@	Eu@	Fe@	Ga@	Gd@	Hg@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M304	<100	<0.5	280	19	7.6	6.1	19	2	25	<1
M305	<100	<0.5	290	26	9.0	8.3	9	<1	34	<1
M306	<100	<0.5	130	2	1.1	1.4	16	<1	3	<1
M307	<100	0.7	110	1	0.5	1.1	17	1	2	<1
M308	<100	<0.5	260	60	26.4	16.2	12	1	79	<1
M309	<100	<0.5	380	18	7.8	5.1	9	<1	24	<1
M311	<100	<0.5	540	24	10.2	6.5	8	<1	30	<1
M312	<100	<0.5	350	14	5.8	5.1	10	<1	23	<1
M313	<100	1.7	510	81	29.5	24.6	42	5	104	<1
M314	<100	<0.5	3600	25	12.4	8.2	31	<1	36	<1
M315	<100	<0.5	280	12	4.6	4.6	14	<1	16	<1
M316	<100	<0.5	450	76	30.9	23.5	10	2	109	<1
M317	<100	<0.5	400	475	201	134	32	11	624	<1
M318	<100	<0.5	230	23	8.7	7.9	23	1	33	<1
M319	<100	<0.5	1090	120	55.4	32.8	6	1	167	<1
M320	<100	<0.5	1670	64	32.9	20.9	88	4	90	<1
M326	<100	<0.5	1250	26	14.5	9.4	13	<1	39	<1
M327	<100	<0.5	560	191	83.5	50.3	32	4	240	<1
M328	<100	<0.5	1320	438	189	133	6	5	668	2
329	<100	<0.5	450	62	26.1	19.7	17	2	90	<1
30	<100	<0.5	2420	20	9.6	7.3	13	<1	31	<1
M331	<100	<0.5	350	17	6.7	5.5	7	<1	24	<1
M332	<100	<0.5	1270	39	17.7	13.3	12	<1	61	<1
M333	<100	<0.5	1630	18	7.9	6.3	7	<1	27	1
M334	<100	<0.5	260	3	1.1	2.3	9	<1	4	<1
M335	<100	<0.5	310	30	11.2	8.2	13	1	33	<1
M336	<100	<0.5	390	18	7.5	6.1	14	<1	26	<1
M337	<100	<0.5	500	22	9.3	6.2	8	<1	25	<1
M338	<100	<0.5	500	64	34.5	13.0	11	<1	67	<1
M339	<100	<0.5	490	21	8.8	7.1	10	<1	31	<1
M340	<100	<0.5	230	51	23.6	14.0	39	2	59	<1
M341	<100	<0.5	830	53	22.4	17.9	21	<1	80	<1
M343	<100	<0.5	310	9	3.4	3.3	9	<1	12	<1
M344	<100	<0.5	380	126	55.2	33.8	63	9	145	<1
M345	<100	<0.5	150	15	5.8	5.5	24	3	19	<1
M346	<100	<0.5	390	11	4.1	3.9	7	<1	15	<1
M347	<100	<0.5	180	17	8.2	5.1	17	<1	24	<1
M348	<100	<0.5	100	4	1.8	1.6	14	<1	5	<1
M349	<100	<0.5	680	19	8.3	6.8	8	<1	30	<1
M355	<100	<0.5	850	26	10.9	9.4	5	<1	46	<1
M356	<100	<0.5	1050	51	24.3	15.7	10	<1	77	<1
M357	<100	<0.5	1510	3	1.9	0.9	5	<1	3	<1
M358	<100	<0.5	580	16	7.1	6.9	7	<1	28	<1

Element	Cr@	Cs@	Cu@	Dy@	Er@	Eu@	Fe@	Ga@	Gd@	Hg@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M359	<100	<0.5	990	110	51.9	35.3	7	1	182	<1
M360	<100	0.5	480	37	16.0	12.1	27	1	54	<1
M362	<100	1.3	120	9	3.7	3.2	57	6	11	<1
M363	<100	<0.5	540	157	76.2	55.7	27	4	270	<1
P279	<100	<0.5	190	27	12.3	8.2	29	3	33	<1
P280	<100	<0.5	630	189	66.4	61.8	10	4	288	<1
P281	<100	<0.5	240	15	4.8	5.9	8	<1	21	<1
P282	<100	<0.5	3890	7	3.6	2.6	15	<1	11	<1
P283	<100	<0.5	4930	22	10.8	7.7	44	<1	32	<1
P284	<100	<0.5	610	170	86.1	46.3	17	3	227	<1
P285	<100	<0.5	1680	34	15.8	12.8	7	<1	53	1
P286	<100	<0.5	410	13	5.9	5.1	13	<1	20	<1
P287	<100	<0.5	1420	17	7.9	6.5	24	<1	24	1
P288	<100	<0.5	2400	41	21.8	12.6	61	1	54	<1
P289	<100	<0.5	800	24	11.7	8.0	34	<1	32	<1
P290	<100	1.8	260	32	11.2	9.8	45	4	39	<1
P291	<100	0.8	370	22	9.0	6.2	51	3	24	<1
P292	<100	0.8	540	141	49.5	44.5	20	5	199	1
P293	<100	<0.5	370	268	127	63.8	38	7	295	<1
P294	<100	<0.5	2090	172	88.7	52.6	26	3	242	<1
[illegible]5	<100	<0.5	610	95	38.2	32.0	55	4	141	<1
P305	<100	<0.5	2890	15	7.5	6.7	13	<1	22	1
P306	<100	<0.5	450	28	10.2	8.4	11	<1	37	<1
P307	<100	<0.5	510	45	19.9	13.2	10	<1	67	<1
P308	<100	<0.5	440	12	4.6	4.7	4	<1	18	<1
P309	<100	<0.5	370	50	20.5	17.2	13	2	79	<1
P310	<100	<0.5	1940	19	8.6	6.0	9	<1	26	<1
P311	<100	<0.5	860	64	29.7	19.3	14	<1	96	<1
P312	<100	<0.5	650	33	15.4	11.2	7	<1	54	<1
P313	<100	<0.5	730	115	44.6	30.5	9	2	157	1
P314	<100	<0.5	540	37	14.0	12.2	5	<1	55	<1
P315	<100	<0.5	440	132	61.6	36.4	10	2	188	<1
P316	<100	<0.5	720	135	65.0	43.6	7	2	216	3
M351	<100	<0.5	1610	11	4.9	4.3	12	<1	17	<1
M352	<100	<0.5	520	28	11.8	8.7	6	<1	39	<1
M353	<100	<0.5	640	20	8.9	7.6	8	<1	34	<1
*Rep M315	<100	<0.5	280	13	4.6	4.7	18	1	17	<1
*Rep M318	<100	<0.5	210	16	6.1	5.6	26	1	22	<1
*Rep M341	<100	<0.5	810	47	20.0	15.2	18	<1	71	<1
*Rep M357	<100	<0.5	1360	3	1.8	0.8	5	<1	3	<1
*Rep P289	<100	<0.5	730	21	10.1	7.2	28	<1	28	<1
*Rep P316	<100	<0.5	730	153	74.6	45.5	7	2	230	4
*Rep M353	<100	<0.5	780	27	11.6	9.9	9	<1	46	1

Element	Cr@	Cs@	Cu@	Dy@	Er@	Eu@	Fe@	Ga@	Gd@	Hg@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
*Std MMISRM16	<100	11.2	770	2	0.6	0.9	2	<1	3	16
*Std AMIS0169	<100	7.9	3980	28	12.0	11.6	42	12	44	<1
*Std MMISRM18	<100	6.4	790	3	1.3	1.2	3	<1	5	9
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In@	K@	La@	Li@	Mg@	Mn@	Mo@	Nb@	Nd@	Ni@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M304	<0.5	11.5	55	<5	59	1600	13	1.9	79	195
M305	<0.5	60.3	41	<5	69	1290	7	0.9	89	219
M306	<0.5	45.3	7	<5	20	890	<5	0.5	11	78
M307	<0.5	21.1	6	<5	25	190	<5	1.0	7	49
M308	<0.5	12.8	57	<5	43	4300	8	<0.5	148	469
M309	<0.5	12.9	35	<5	81	1390	<5	<0.5	62	85
M311	<0.5	24.7	18	<5	64	2660	9	<0.5	46	279
M312	<0.5	27.7	48	<5	27	510	<5	<0.5	79	127
M313	<0.5	15.8	301	<5	26	3080	6	1.5	396	105
M314	<0.5	4.8	50	<5	60	180	<5	<0.5	103	1220
M315	<0.5	28.2	36	<5	34	330	<5	<0.5	50	108
M316	<0.5	7.6	172	<5	72	8190	<5	<0.5	332	318
M317	<0.5	7.9	1130	<5	57	2150	<5	1.0	2000	568
M318	<0.5	23.1	52	<5	32	660	5	<0.5	102	146
M319	<0.5	7.4	112	10	174	1490	<5	<0.5	308	514
M320	<0.5	5.4	274	<5	59	2180	7	1.3	348	228
M326	<0.5	2.6	58	<5	87	15700	<5	<0.5	112	731
M327	<0.5	5.2	531	<5	50	6610	<5	0.6	721	484
M328	<0.5	4.3	432	<5	97	520	<5	<0.5	1290	907
29	<0.5	11.6	113	<5	46	490	<5	<0.5	242	301
30	<0.5	4.6	25	<5	80	1740	<5	<0.5	60	996
M331	<0.5	6.6	30	<5	101	1280	<5	<0.5	57	219
M332	<0.5	2.9	53	9	72	1920	<5	<0.5	125	1070
M333	<0.5	7.3	21	<5	38	3060	6	<0.5	53	426
M334	<0.5	21.2	6	<5	49	860	<5	<0.5	10	147
M335	<0.5	12.1	58	<5	46	1480	<5	<0.5	87	188
M336	<0.5	34.2	24	<5	47	1520	<5	<0.5	60	270
M337	<0.5	9.9	31	<5	92	2750	5	<0.5	50	359
M338	<0.5	11.1	63	<5	98	3310	<5	<0.5	105	643
M339	<0.5	54.3	35	<5	59	1120	8	<0.5	70	252
M340	<0.5	6.0	137	<5	38	2580	<5	0.6	189	271
M341	<0.5	44.9	83	6	41	1830	7	<0.5	203	421
M343	<0.5	12.5	23	<5	27	1790	7	<0.5	36	127
M344	<0.5	9.5	473	<5	20	410	<5	5.2	649	66
M345	<0.5	12.1	70	<5	24	2820	<5	0.7	77	103
M346	<0.5	20.1	26	<5	55	1170	10	<0.5	39	180
M347	<0.5	58.9	26	<5	18	970	<5	<0.5	71	88
M348	<0.5	11.8	10	<5	34	630	<5	<0.5	15	58
M349	<0.5	5.1	28	<5	65	1270	<5	<0.5	62	291
M355	<0.5	15.7	37	<5	39	2870	14	<0.5	90	173
M356	<0.5	12.2	70	<5	52	650	<5	<0.5	153	489
M357	<0.5	4.5	<1	<5	61	830	16	<0.5	<1	373
M358	<0.5	3.9	22	<5	54	1080	<5	<0.5	54	293

SGS

Element	In@	K@	La@	Li@	Mg@	Mn@	Mo@	Nb@	Nd@	Ni@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M359	<0.5	6.4	132	10	97	900	<5	<0.5	334	389
M360	<0.5	8.7	64	<5	18	970	<5	<0.5	146	145
M362	<0.5	13.9	64	<5	9	570	<5	3.1	48	51
M363	<0.5	8.5	452	<5	41	1550	<5	0.6	893	361
P279	<0.5	21.0	91	<5	38	6000	<5	0.8	124	130
P280	<0.5	7.3	352	<5	66	2820	<5	<0.5	836	692
P281	<0.5	8.2	44	<5	62	1090	<5	<0.5	59	298
P282	<0.5	4.0	9	9	67	8690	34	<0.5	24	1510
P283	<0.5	5.7	47	<5	57	5390	35	<0.5	103	407
P284	<0.5	6.1	411	<5	72	2090	<5	<0.5	649	500
P285	<0.5	4.8	53	<5	78	350	16	<0.5	114	543
P286	<0.5	5.7	26	<5	51	540	<5	<0.5	54	190
P287	<0.5	3.7	37	<5	43	5610	<5	<0.5	75	763
P288	<0.5	1.7	118	<5	53	4350	<5	<0.5	179	690
P289	<0.5	2.6	50	<5	32	360	<5	<0.5	97	429
P290	<0.5	52.0	151	<5	8	590	6	1.7	143	110
P291	<0.5	11.2	86	<5	17	3150	<5	1.1	88	240
P292	<0.5	4.0	710	<5	31	320	<5	0.8	798	57
P293	<0.5	14.2	766	<5	36	3100	<5	1.6	978	368
P294	<0.5	5.5	359	<5	67	2930	<5	<0.5	690	432
[illegible]5	<0.5	7.3	462	<5	55	1060	<5	0.8	574	281
P305	<0.5	1.9	25	<5	80	5090	10	<0.5	58	662
P306	<0.5	8.0	42	<5	72	2400	<5	<0.5	74	382
P307	<0.5	10.2	57	<5	127	2830	7	<0.5	129	617
P308	<0.5	9.2	17	<5	107	2600	9	<0.5	35	295
P309	<0.5	6.3	113	<5	61	1610	<5	<0.5	217	305
P310	<0.5	3.2	16	<5	122	1580	<5	<0.5	45	687
P311	<0.5	6.6	90	<5	108	1750	<5	<0.5	211	795
P312	<0.5	3.2	38	<5	70	1870	<5	<0.5	106	382
P313	<0.5	6.7	165	<5	75	2230	<5	<0.5	341	524
P314	<0.5	16.4	86	<5	58	1810	<5	<0.5	144	440
P315	<0.5	6.9	138	<5	90	1760	<5	<0.5	360	686
P316	<0.5	7.3	151	<5	56	1180	<5	<0.5	444	494
M351	<0.5	3.5	15	<5	92	2680	6	<0.5	38	650
M352	<0.5	17.3	41	<5	55	1150	5	<0.5	82	263
M353	<0.5	2.9	36	<5	70	1010	<5	<0.5	84	215
*Rep M315	<0.5	29.1	42	<5	34	320	<5	0.5	54	105
*Rep M318	<0.5	21.4	38	<5	26	1120	5	<0.5	69	145
*Rep M341	<0.5	43.2	66	<5	38	2210	8	<0.5	169	399
*Rep M357	<0.5	3.6	<1	<5	51	860	14	<0.5	<1	368
*Rep P289	<0.5	2.2	42	<5	34	260	<5	<0.5	85	405
*Rep P316	<0.5	6.1	164	<5	56	1220	<5	<0.5	466	449
*Rep M353	<0.5	3.0	44	<5	82	1500	6	<0.5	109	280

Element	In@	K@	La@	Li@	Mg@	Mn@	Mo@	Nb@	Nd@	Ni@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
*Std MMISRM16	<0.5	37.5	3	<5	35	100	47	<0.5	12	198
*Std AMIS0169	<0.5	44.9	451	<5	33	4030	<5	3.6	380	443
*Std MMISRM18	<0.5	25.2	7	<5	87	590	32	<0.5	20	480
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	0.6	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

Element	P@	Pb@	Pd@	Pr@	Pt@	Rb@	Sb@	Sc@	Sm@	Sn@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M304	0.6	150	<1	16	<1	33	1	13	21	<1
M305	0.7	80	<1	18	<1	26	<1	13	29	<1
M306	6.7	80	<1	2	<1	57	<1	<5	3	<1
M307	1.6	130	<1	1	<1	68	<1	<5	2	<1
M308	1.9	140	<1	25	<1	25	<1	15	55	<1
M309	1.0	20	<1	11	<1	20	<1	8	18	<1
M311	0.9	60	<1	8	<1	53	<1	8	18	<1
M312	2.2	80	<1	16	<1	47	<1	6	19	<1
M313	2.1	200	<1	91	<1	108	2	64	98	<1
M314	0.3	40	<1	20	<1	32	3	14	29	<1
M315	0.6	210	<1	10	<1	27	<1	12	14	<1
M316	0.2	130	<1	66	<1	37	<1	60	92	<1
M317	1.0	830	<1	431	<1	29	1	314	561	<1
M318	1.8	110	<1	20	<1	65	<1	22	29	<1
M319	0.1	80	<1	49	<1	<5	<1	33	114	<1
M320	0.8	150	<1	80	<1	15	8	39	81	<1
M326	<0.1	20	<1	21	<1	6	<1	22	30	<1
M327	0.3	400	<1	158	<1	37	<1	190	195	<1
M328	<0.1	110	<1	209	<1	17	<1	148	474	<1
329	0.3	60	<1	45	<1	12	<1	27	74	<1
.30	0.1	40	<1	11	<1	6	1	11	22	<1
M331	0.2	50	<1	11	<1	5	<1	10	18	<1
M332	0.1	70	<1	22	<1	6	1	12	44	<1
M333	0.3	50	<1	9	<1	9	1	11	19	<1
M334	1.3	30	<1	2	<1	48	<1	<5	3	<1
M335	1.0	290	<1	18	<1	49	<1	43	26	<1
M336	1.8	120	<1	10	<1	53	<1	7	20	<1
M337	0.3	170	<1	10	<1	38	<1	13	17	<1
M338	0.5	380	<1	20	<1	31	<1	29	36	<1
M339	1.4	80	<1	13	<1	63	<1	10	22	<1
M340	1.8	430	<1	42	<1	13	2	91	50	<1
M341	4.7	80	<1	36	<1	22	1	16	63	<1
M343	1.4	180	<1	7	<1	72	<1	15	10	<1
M344	2.9	560	<1	155	<1	37	2	320	131	2
M345	1.5	160	<1	18	<1	82	<1	25	17	<1
M346	1.0	60	<1	8	<1	21	<1	11	11	<1
M347	6.1	30	<1	13	<1	82	<1	7	20	<1
M348	3.4	100	<1	3	<1	46	<1	<5	4	<1
M349	0.2	40	<1	11	<1	9	<1	9	21	<1
M355	0.3	20	<1	15	<1	22	<1	11	31	<1
M356	0.2	90	<1	26	<1	8	1	18	51	<1
M357	0.1	<10	<1	<1	<1	<5	1	<5	<1	<1
M358	0.2	30	<1	9	<1	6	<1	10	19	<1

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Element	P@	Pb@	Pd@	Pr@	Pt@	Rb@	Sb@	Sc@	Sm@	Sn@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M359	0.3	460	<1	54	<1	8	1	17	120	<1
M360	1.1	70	<1	27	<1	35	2	20	42	<1
M362	4.4	370	<1	13	<1	100	<1	21	10	<1
M363	1.5	160	<1	166	<1	61	1	34	226	<1
P279	1.5	330	<1	27	<1	32	<1	72	29	<1
P280	0.3	110	<1	156	<1	27	<1	107	247	<1
P281	0.2	60	<1	12	<1	15	<1	15	17	<1
P282	0.1	40	<1	4	<1	11	2	7	8	<1
P283	0.3	160	<1	20	<1	<5	32	10	28	<1
P284	0.3	460	<1	128	<1	16	<1	102	178	<1
P285	0.1	60	<1	20	<1	9	1	17	38	<1
P286	0.3	50	<1	10	<1	25	<1	9	16	<1
P287	0.2	30	<1	14	<1	10	2	15	20	<1
P288	<0.1	70	<1	39	<1	18	2	29	46	<1
P289	0.3	60	<1	19	<1	21	2	18	27	<1
P290	3.2	520	<1	37	<1	172	2	39	35	<1
P291	6.0	400	<1	21	<1	85	2	78	21	<1
P292	1.2	310	<1	187	<1	80	1	77	177	<1
P293	1.0	570	<1	222	<1	51	<1	321	239	<1
P294	0.2	130	<1	135	<1	17	1	80	196	<1
P295	0.6	270	<1	131	<1	38	2	78	129	<1
P305	0.3	100	<1	11	<1	20	3	20	17	<1
P306	0.3	200	<1	14	<1	24	<1	14	25	<1
P307	0.3	100	<1	22	<1	28	<1	15	46	<1
P308	0.2	40	<1	6	<1	8	<1	12	13	<1
P309	0.4	100	<1	42	<1	35	<1	22	63	<1
P310	0.2	30	<1	8	<1	10	2	17	17	<1
P311	0.2	50	<1	37	<1	9	<1	14	68	<1
P312	<0.1	20	<1	17	<1	8	<1	23	37	<1
P313	0.2	100	<1	64	<1	12	<1	45	111	<1
P314	0.2	150	<1	26	<1	25	<1	15	44	<1
P315	0.3	180	<1	59	<1	20	<1	53	125	<1
P316	0.6	100	<1	72	<1	18	<1	35	151	<1
M351	<0.1	40	<1	7	<1	11	1	11	13	<1
M352	0.3	80	<1	15	<1	25	<1	13	27	<1
M353	<0.1	20	<1	15	<1	10	<1	11	26	<1
*Rep M315	0.7	230	<1	11	<1	31	1	12	15	<1
*Rep M318	2.4	100	<1	14	<1	64	<1	14	20	<1
*Rep M341	4.6	70	<1	29	<1	22	1	14	54	<1
*Rep M357	0.1	<10	<1	<1	<1	<5	1	5	<1	<1
*Rep P289	0.2	50	<1	17	<1	21	2	15	23	<1
*Rep P316	0.5	120	<1	77	<1	20	<1	42	158	<1
*Rep M353	<0.1	20	<1	19	<1	9	<1	14	34	<1

Element	P@	Pb@	Pd@	Pr@	Pt@	Rb@	Sb@	Sc@	Sm@	Sn@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Std MMISRM16	0.2	100	23	2	<1	325	<1	7	4	<1
*Std AMIS0169	2.6	110	<1	106	<1	257	<1	61	63	<1
*Std MMISRM18	0.7	260	14	4	8	154	<1	<5	5	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Element	Sr@	Ta@	Tb@	Te@	Th@	Ti@	Tl@	U@	W@	Y@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M304	1540	<1	4	<10	69.7	160	<0.5	13	<1	78
M305	1490	<1	5	<10	33.0	52	<0.5	13	<1	82
M306	1180	<1	<1	<10	11.5	24	<0.5	9	<1	11
M307	1460	<1	<1	<10	13.4	193	<0.5	5	<1	6
M308	1920	<1	11	<10	8.5	9	<0.5	14	<1	279
M309	2050	<1	3	<10	10.0	8	<0.5	39	<1	88
M311	3240	<1	4	<10	9.0	6	<0.5	14	<1	104
M312	1260	<1	3	<10	25.8	13	<0.5	19	<1	70
M313	490	<1	16	<10	69.6	409	<0.5	37	1	311
M314	1650	<1	5	<10	27.6	13	<0.5	313	<1	159
M315	1120	<1	2	<10	42.5	81	<0.5	35	<1	49
M316	1600	<1	15	<10	26.1	15	<0.5	30	<1	370
M317	960	<1	88	<10	66.9	300	<0.5	77	<1	2050
M318	1310	<1	5	<10	31.8	118	<0.5	34	<1	96
M319	2690	<1	22	<10	17.0	7	<0.5	81	<1	663
M320	740	<1	11	<10	93.2	257	<0.5	37	2	402
M326	2200	<1	5	<10	21.0	4	<0.5	36	<1	170
M327	1210	<1	35	<10	39.8	195	<0.5	25	<1	916
M328	2580	<1	83	<10	46.8	4	<0.5	126	<1	2190
329	1820	<1	12	<10	52.2	50	<0.5	49	<1	299
330	2610	<1	4	<10	21.6	3	<0.5	51	<1	117
M331	2060	<1	3	<10	34.7	6	<0.5	106	<1	72
M332	2560	<1	8	<10	32.3	6	<0.5	104	<1	226
M333	1780	<1	3	<10	13.6	7	<0.5	76	<1	96
M334	2110	<1	<1	<10	4.6	7	<0.5	7	<1	14
M335	1330	<1	6	<10	23.7	13	<0.5	33	<1	108
M336	1380	<1	4	<10	9.8	10	<0.5	29	<1	82
M337	3190	<1	4	<10	19.6	5	<0.5	19	<1	89
M338	2890	<1	11	<10	6.8	6	<0.5	18	<1	343
M339	1640	<1	4	<10	18.0	7	<0.5	31	<1	105
M340	1410	<1	9	<10	34.2	128	<0.5	20	<1	243
M341	1160	<1	10	<10	18.4	20	<0.5	47	<1	250
M343	900	<1	2	<10	26.3	50	<0.5	24	1	40
M344	500	<1	23	<10	52.3	1660	<0.5	15	2	659
M345	1030	<1	3	<10	19.1	207	<0.5	10	<1	70
M346	1540	<1	2	<10	18.9	10	<0.5	17	<1	46
M347	700	<1	3	<10	18.7	38	<0.5	10	<1	86
M348	1170	<1	<1	<10	13.6	30	<0.5	11	<1	17
M349	2040	<1	4	<10	18.1	3	<0.5	103	<1	106
M355	1780	<1	5	<10	6.8	5	<0.5	50	<1	153
M356	1950	<1	10	<10	20.2	6	<0.5	114	<1	325
M357	2980	<1	<1	<10	1.2	<3	<0.5	41	<1	19
M358	1740	<1	3	<10	12.4	4	<0.5	36	<1	100

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Element Method Det.Lim. Units	Sr@ MMI-M5 10 ppb	Ta@ MMI-M5 1 ppb	Tb@ MMI-M5 1 ppb	Te@ MMI-M5 10 ppb	Th@ MMI-M5 0.5 ppb	Ti@ MMI-M5 3 ppb	Tl@ MMI-M5 0.5 ppb	U@ MMI-M5 1 ppb	W@ MMI-M5 1 ppb	Y@ MMI-M5 5 ppb
M359	2190	<1	21	<10	17.8	4	<0.5	47	<1	705
M360	560	<1	7	<10	27.1	68	<0.5	18	<1	210
M362	280	<1	2	<10	37.5	714	<0.5	6	1	41
M363	820	<1	30	<10	90.9	116	<0.5	92	2	978
P279	1080	<1	5	<10	23.3	208	<0.5	12	<1	143
P280	1930	<1	38	<10	39.4	25	<0.5	83	<1	768
P281	2030	<1	3	<10	28.5	13	<0.5	23	<1	55
P282	1670	<1	1	<10	13.3	4	<0.5	160	<1	42
P283	1480	<1	4	<10	37.8	9	<0.5	51	<1	121
P284	1970	<1	31	<10	59.0	20	<0.5	133	<1	938
P285	2720	<1	6	<10	24.7	5	<0.5	62	<1	209
P286	1740	<1	3	<10	30.4	53	<0.5	58	<1	66
P287	1540	<1	3	<10	31.4	13	<0.5	108	<1	96
P288	2090	<1	7	<10	38.6	12	<0.5	126	<1	268
P289	1310	<1	4	<10	42.4	61	<0.5	191	<1	135
P290	310	<1	6	<10	62.5	443	<0.5	19	1	130
P291	710	<1	4	<10	68.7	317	<0.5	43	<1	102
P292	1140	<1	28	<10	33.4	271	<0.5	63	<1	632
P293	1040	<1	46	<10	78.5	485	<0.5	69	<1	1380
294	1940	<1	31	<10	53.9	46	<0.5	188	<1	1050
95	1050	<1	18	<10	84.0	204	<0.5	82	<1	482
P305	1670	<1	3	<10	32.3	15	<0.5	15	<1	93
P306	3050	<1	5	<10	19.0	5	<0.5	15	<1	115
P307	2730	<1	9	<10	21.6	7	<0.5	24	<1	234
P308	3150	<1	2	<10	6.4	4	<0.5	19	<1	50
P309	1250	<1	10	<10	57.6	101	<0.5	40	2	252
P310	3060	<1	3	<10	22.2	5	<0.5	51	<1	110
P311	2140	<1	12	<10	36.7	6	<0.5	160	<1	385
P312	1530	<1	7	<10	21.5	5	<0.5	69	<1	197
P313	1900	<1	22	<10	17.7	5	<0.5	73	<1	539
P314	1320	<1	7	<10	36.5	6	<0.5	36	<1	159
P315	2160	<1	25	<10	20.8	5	<0.5	42	<1	754
P316	1430	<1	27	<10	15.2	5	<0.5	35	<1	791
M351	2010	<1	2	<10	14.6	5	<0.5	51	<1	61
M352	1800	<1	5	<10	21.3	8	<0.5	53	<1	118
M353	1520	<1	4	<10	23.8	5	<0.5	50	<1	115
*Rep M315	1110	<1	2	<10	44.6	120	<0.5	31	<1	50
*Rep M318	1130	<1	3	<10	29.2	118	<0.5	29	<1	64
*Rep M341	1120	<1	9	<10	15.5	17	<0.5	48	<1	225
*Rep M357	3000	<1	<1	<10	1.1	<3	<0.5	35	<1	18
*Rep P289	1460	<1	4	<10	36.8	33	<0.5	215	<1	118
*Rep P316	1380	<1	29	<10	12.2	5	<0.5	35	<1	875
*Rep M353	1730	<1	5	<10	26.0	4	<0.5	66	<1	157

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Element	Sr@	Ta@	Tb@	Te@	Th@	Ti@	Tl@	U@	W@	Y@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Std MMISRM16	540	<1	<1	<10	17.0	3	<0.5	41	<1	7
*Std AMIS0169	80	<1	5	<10	70.0	415	1.4	25	1	125
*Std MMISRM18	1070	<1	<1	<10	20.0	6	<0.5	26	<1	19
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

![SGS]

Final : TO122409 Order: Project:CAVU

Element	Yb@	Zn@	Zr@
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M304	5	20	29
M305	6	<20	28
M306	<1	<20	11
M307	<1	<20	14
M308	16	<20	15
M309	5	<20	6
M311	6	<20	14
M312	4	<20	16
M313	17	20	66
M314	10	<20	30
M315	3	<20	23
M316	17	<20	22
M317	130	40	55
M318	5	<20	23
M319	35	<20	12
M320	25	100	84
M326	11	<20	11
M327	54	30	34
M328	108	<20	32
M329	16	<20	36
M330	7	<20	20
M331	4	<20	21
M332	12	<20	33
M333	5	<20	15
M334	<1	<20	5
M335	7	<20	24
M336	5	<20	9
M337	5	<20	10
M338	21	<20	11
M339	5	<20	17
M340	17	50	36
M341	15	20	34
M343	2	<20	22
M344	31	30	83
M345	4	<20	24
M346	2	<20	12
M347	6	<20	26
M348	1	<20	15
M349	6	<20	15
M355	7	<20	8
M356	15	<20	17
M357	2	<20	6
M358	5	<20	10

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Final : TO122409 Order: Project:CAVU

Element	Yb@	Zn@	Zr@
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M359	31	20	9
M360	11	50	27
M362	3	40	47
M363	50	30	65
P279	7	40	28
P280	34	<20	30
P281	3	<20	14
P282	3	60	11
P283	8	100	55
P284	59	30	40
P285	10	<20	23
P286	4	<20	21
P287	6	<20	35
P288	17	<20	46
P289	9	20	53
P290	7	40	61
P291	6	330	89
P292	27	20	42
P293	83	40	59
P294	62	<20	50
P295	24	30	68
P305	6	40	26
P306	6	20	12
P307	12	40	12
P308	3	<20	5
P309	12	<20	42
P310	6	<20	44
P311	20	<20	43
P312	10	<20	14
P313	26	<20	11
P314	8	<20	19
P315	39	<20	12
P316	41	70	9
M351	4	<20	14
M352	7	<20	26
M353	6	<20	17
*Rep M315	3	<20	25
*Rep M318	4	<20	25
*Rep M341	13	20	31
*Rep M357	1	<20	6
*Rep P289	8	<20	46
*Rep P316	49	30	8
*Rep M353	8	<20	18

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Final : TO122409 Order: Project:CAVU

Element	Yb@	Zn@	Zr@
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
*Std MMISRM16	<1	360	12
*Std AMIS0169	10	210	47
*Std MMISRM18	<1	700	26
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5