2008 GEOCHEMICAL SOIL & ROCK SAMPLING REPORT

on the

SHELL CREEK PROPERTY

Dawson Mining District

NTS 116 C/09, 10
Lat 64° 36' N, Long 140° 25' W
UTM 528 000 E, 7 163 500 N

SIMBA 13- 536 (YC21161 – YC36257)
NSIMBA 1-64 (YC35989 – YC36052)
Irena 1-21 YC62993-013
" 23 YC63015

for

LOGAN RESOURCES LTD.
1640 - 1066 West Hastings Street
Vancouver, BC V6E 3X1

by

Daithi Mac Gearailt, B.Sc.

Date Work Performed:
July 1 – Sept 1, 2008

2008

LOGAN RESOURCES
LTD.
Daithi Mac Gearailt

2008-GEOCHEMICAL SOIL AND ROCK SAMPLING SURVEY OF SHELL CREEK

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INTRODUCTION

Logan Resources Ltd., 1640-1066 West Hastings St, Vancouver, British Columbia holds a 100% interest in the Shell Creek Property. The Shell Creek Property is comprised of 628 mineral claims covering approximately 110 km^2. The claims were staked in 2002 by Dawson City prospector Shawn Ryan and were acquired by Logan Resources in January 2003. The property is located in west-central Yukon Territory, Canada, on the north shore of the Yukon River approximately 75 km (47 miles) northwest of Dawson City. Access to the property for exploration purposes is by helicopter. As the Shell Creek property is alongside the Yukon River, in the event that heavy equipment and large quantities of materials are required at the site river, barges out of Dawson City can move materials to the river shore adjacent to the property and they can be hauled to the site on a tractor road or slung in by helicopter. The only previous exploration on the Shell Creek property, prior to the Company acquiring the property, was an evaluation of the iron formation by Asbestos Corporation during the summer of 1958. Geological mapping, trenching and dip-needle magnetic surveys were completed (Riordan and Mann, 1958). Asbestos Corporation completed no further work and the claims were allowed to lapse.

LOCATION AND ACCESS

The Shell Creek Property lies approximately 75 km northwest of Dawson City, Yukon (see Figure 1). Access to the property for exploration purposes is by helicopter. As the Shell Creek property is alongside the Yukon River, in the event that heavy equipment and large quantities of materials are required at the site river barges out of Dawson City can move materials to the river shore adjacent to the property and they can be hauled to the site on a tractor road or slung in by helicopter. In 2007 a permit was granted for a barge landing and access trail to the property. (See details of 2007 permit in Appendix A).

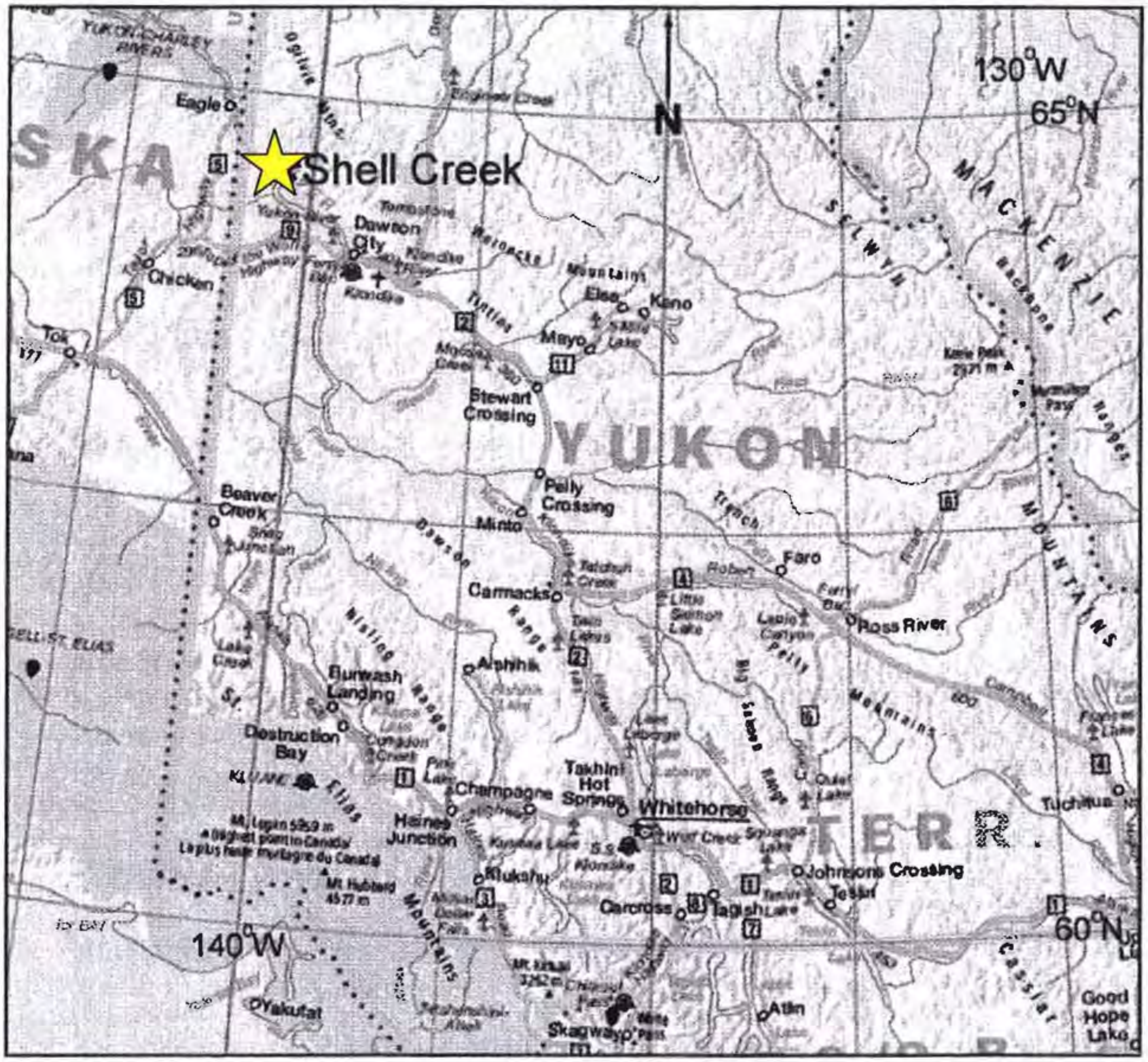


Figure 1 LOCATION MAP

PROPERTY INFORMATION

The property is 100%-owned by Logan Resources Ltd. (subject to a 2% NSR) and is comprised of 628 claims covering 11,000 hectares (27,182 acres) in the Dawson Mining District. All claims are in good standing (see details of claims in Appendix B).

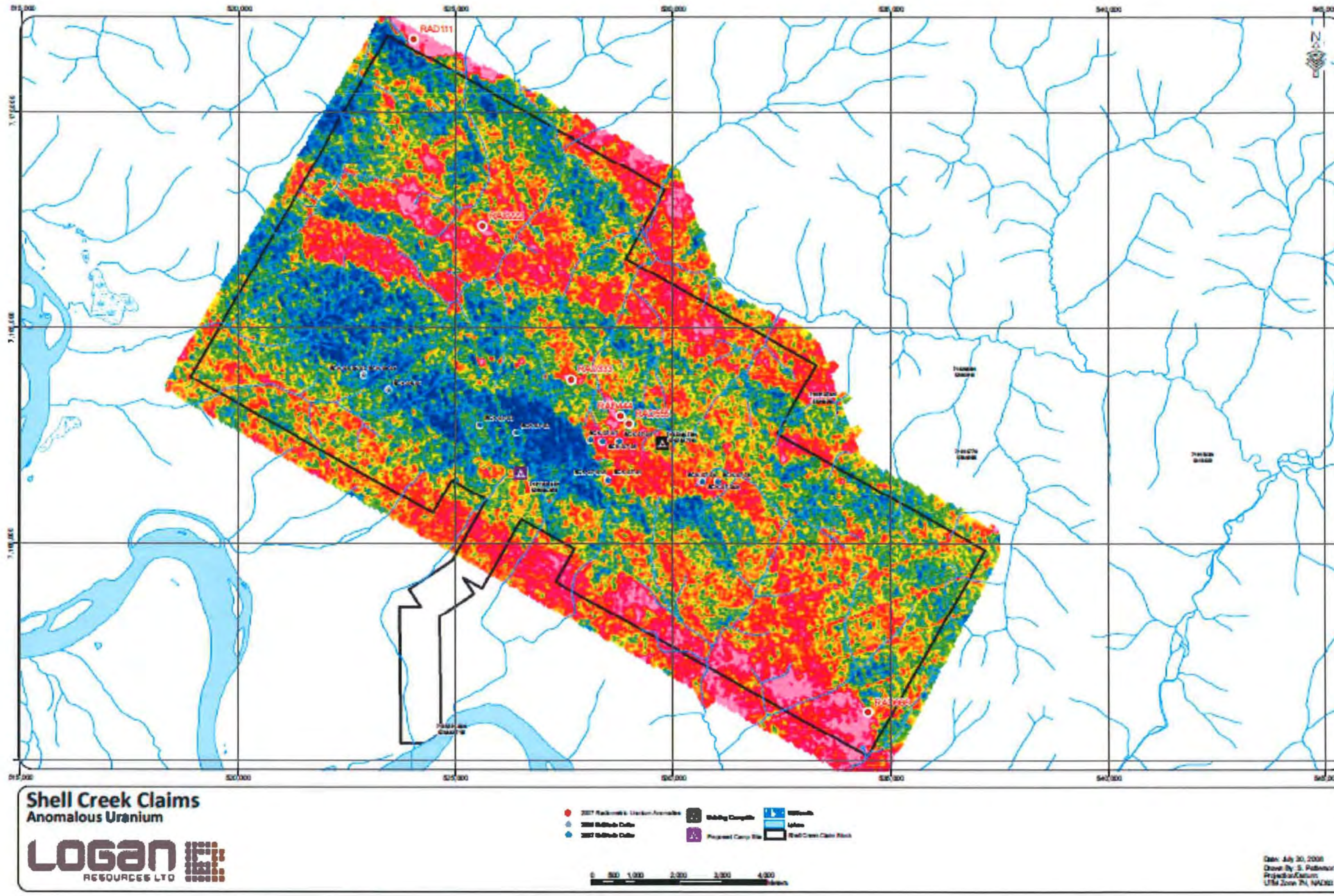


Figure 2: RADIOMETRIC MAP OF SHELL CREEK PROPERTY

CLIMATE AND PHYSIOGRAPHY

The following is taken from the Environment Canada website (www.ec.gc.ca/soer-ree/). This extremely rugged, heterogeneous mountainous ecoregion spans the Yukon-Northwest Territories border from

Alaska to the Mackenzie Valley. It includes the Ogilvie and Wernecke mountains in its westernmost section, the Backbone Ranges in its interior, and the Canyon Ranges to the east. The eastern ranges of the Mackenzie Mountains that lie in the rain shadow of the higher Selwyn Mountains to the west are also included. The ecoregion shows evidence of localized alpine and valley glaciation. The mean annual temperature for the area is approximately -5°C with a summer mean of 9°C and a winter mean of -19.5°C. Mean annual precipitation is highly variable with the highest amounts, greater than 600 mm, occurring in the southwest portion of the ecoregion. Moving west towards Alaska and the southern Ogilvies, precipitation drops to approximately 400 mm. Higher precipitation occurs at higher elevations. The region is characterized by alpine tundra at upper elevations and subalpine open woodland vegetation at lower elevations. Alpine vegetation consists of lichens, mountain avens, intermediate to dwarf ericaceous shrubs, sedge, and cottongrass in wetter sites. Barren talus slopes are common. Subalpine vegetation consists of discontinuous open stands of stunted white spruce and occasional alpine fir in a matrix of willow, dwarf birch, and Labrador tea. The Ogilvie Mountains, composed of Palaeozoic and Proterozoic sedimentary strata intruded by granitic stocks, reach 2134 m asl in elevation. The Wernecke Mountains are formed of phyllite and nearly horizontal carbonate rocks carved by glaciation. They are divided into several ranges by broad northwesterly-trending valleys. Permafrost is continuous and of low ice content in most of the Yukon portion of the ecoregion. Permafrost is extensive but discontinuous with variable ice content in the Northwest Territories portion of the ecoregion. Alluvium, fluvioglacial deposits, and morainal veneers and blankets are dominant in the region. Rock outcrops are common at higher elevation. Turbic Cryosols with some Dystric Brunisols and Regosols occur on steeply sloping colluvium. Characteristic wildlife includes caribou, grizzly and black bear, Dall's sheep, moose, beaver, fox, wolf, hare, raven, rock and willow ptarmigan, golden eagle, gyrfalcon, and waterfowl. These ranges support various forms of hunting and trapping,

and contain considerable mineral potential, but for the most part the ecoregion is an isolated wilderness with little permanent human occupation. The area of interest lies along a broad ridge at an elevation of approximately 1,300 m above mean sea level with local relief along the ridge of 50 to 100 metres. The Yukon River (6 km southwest of the ridge) is approximately 275 m above mean sea level. Mineral exploration in this part of the Yukon is generally carried out during the period May to October, however, mining operations in the Yukon operate year-round, including some major open pit operations.

LOCAL RESOURCES AND INFRASTRUCTURE

Dawson City, which is the jumping-off point for the Shell Creek property, is an established community with an airport, scheduled air service, helicopter charter services, water transportation services and most supplies required to conduct an exploration program. In the event of a discovery in the area, the Yukon River and winter roads provide ready access for mobilization of major supply caches and equipment to the property from Dawson City. The Yukon power grid extends to Dawson City, and 75 km of new line would be required to join Shell Creek to the grid. Small projects could rely on on-site power generation. All personnel, mining equipment and supplies will have to be acquired from Whitehorse, Yukon and points south.

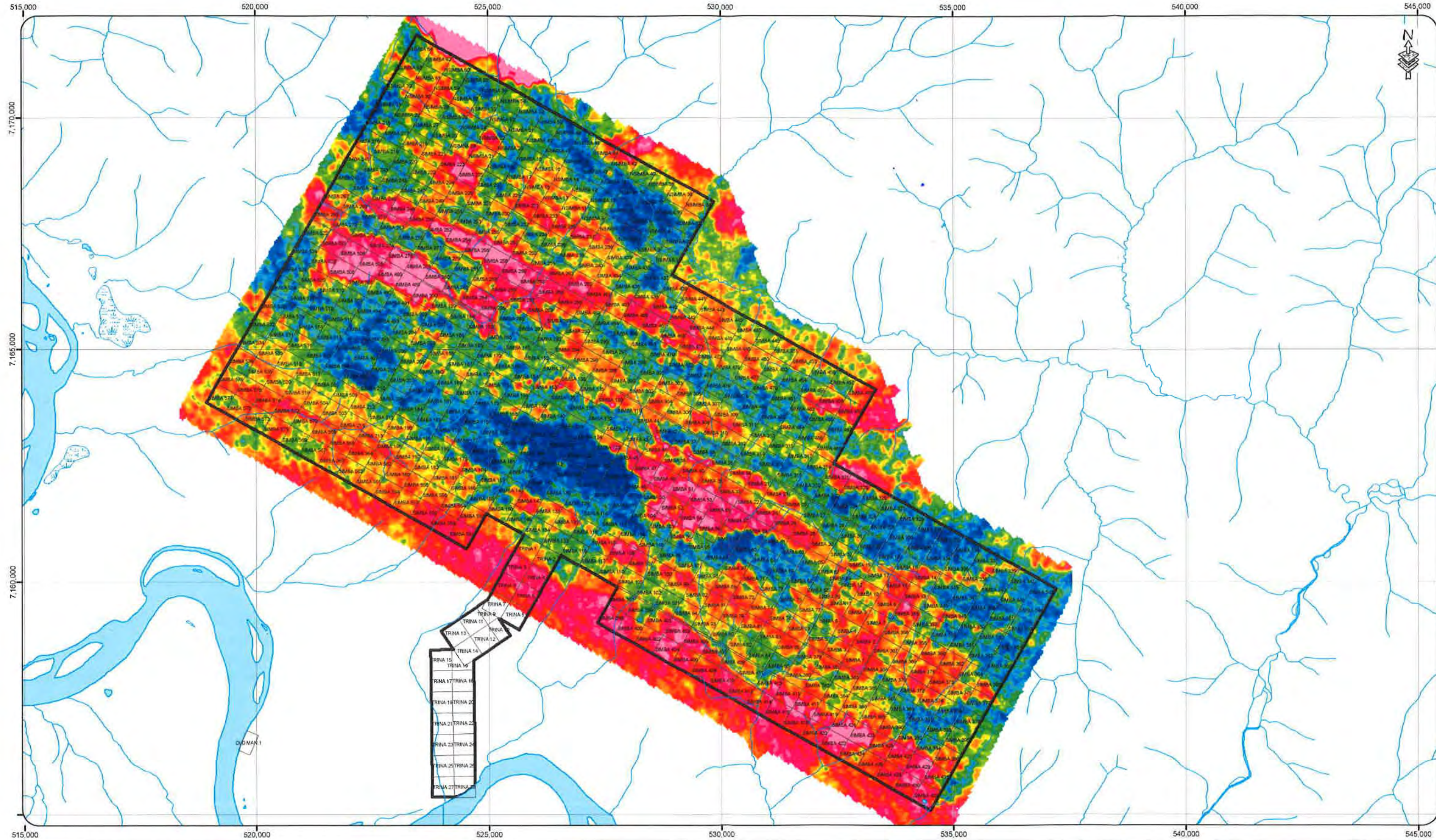
PROJECT HISTORY

The only previous exploration on the Shell Creek property, prior to the Company acquiring the property, was an evaluation of the iron formation by Asbestos Corporation during the summer of 1958. Geological mapping, trenching and dip-needle magnetic surveys were completed (Riordan and Mann, 1958). No further work was completed by Asbestos Corporation and the claims were allowed to lapse. The Geological Survey of Canada completed regional stream sediment and geological surveys in the area in the 1970's and 80's. In 2003 Shawn Ryan, a Dawson City-based prospector, discovered gold bearing quartz-vein float in the vicinity of Shell Creek and staked the property. The Company acquired the property in January 2003. During

August of 2004 Logan completed an 8-day geological mapping, trenching, and soil and rock geochemical sampling program in the vicinity of the gold showings discovered by Ryan. In addition 200 stream silt geochemical samples were taken that basically covered all streams draining the Shell Creek property. The stream geochemical program indicated significant copper, gold and uranium anomalies in the drainage pattern from the Shell Creek ridge along the length of the property. Detailed soil and rock geochemical sampling in the immediate vicinity of the gold showings indicated good correlation between geochemical anomalies and the in-situ mineralization. In April 2005 the Company completed a detailed helicopter-borne magnetometer survey of the Shell Creek area. During the period July to September the Company completed a soil geochemical survey (1,054 samples) that covered the Shell Creek ridge, a 5-line orientation induced polarization (IP) geophysical survey, a gravity survey, and additional reconnaissance geological mapping was completed.

In 2006 the company completed more soil geochemical sampling, rock sampling and field mapping. The company also conducted diamond drill program consisting of two holes.

In 2007 the company diamond drilled a following ten holes. The company also conducted more soil geochemical sampling in '07 and an airborne magnetic and radiometric survey. Some of the radiometric maps from the 2007 airborne survey are shown below.



Shell Creek Claims

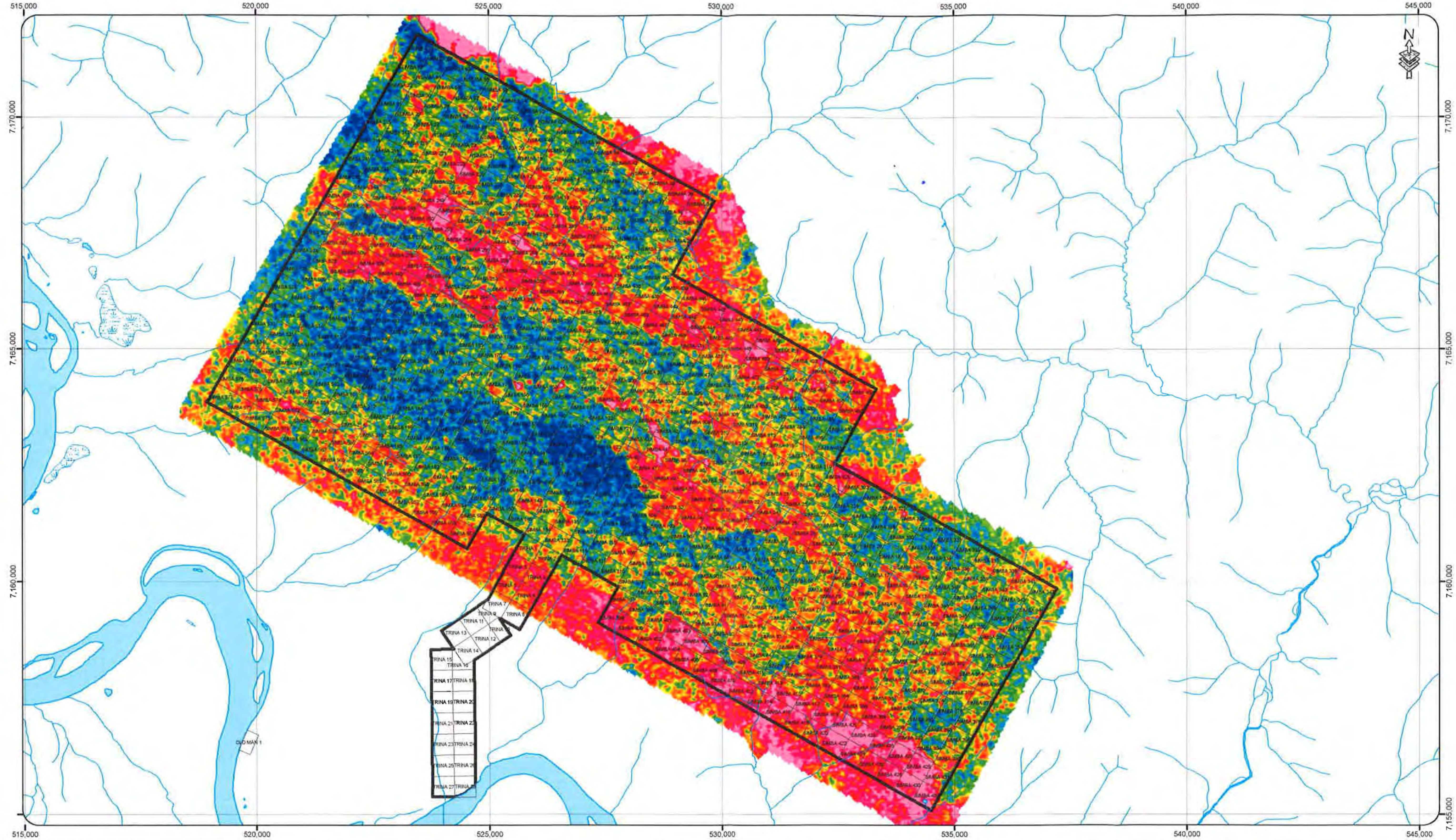
Radiometric Potassium Count

LOGAN RESOURCES LTD

Yukon Mineral Claims
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83



Shell Creek Claims

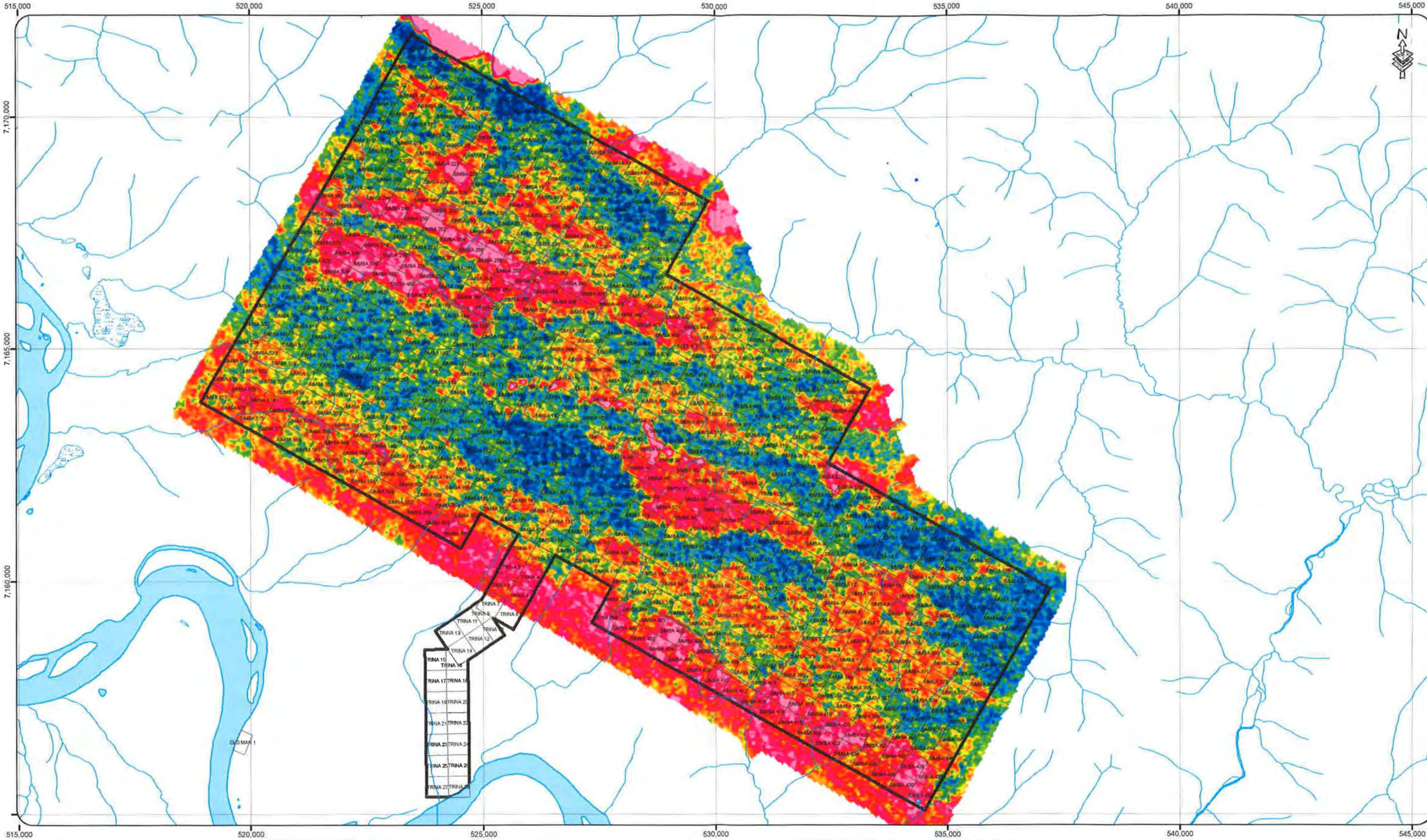
Radiometric Uranium Count

LOGAN RESOURCES LTD

- Yukon Mineral Claims
- Wetlands
- Lakes
- Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83



Shell Creek Claims
Radiometric Thorium Count

LOGAN RESOURCES LTD

Yukon Mineral Claims
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

GEOLOGY:

REGIONAL GEOLOGICAL SETTING

Regionally, the Shell Creek property is situated within Ancestral North America approximately 20 km northwest of the Selwyn Basin. The Tintina Fault, a large strike-slip fault with a dextral sense of motion with an offset in the order of 450 km, transgresses the southern property, in this area separating North America from Yukon Tanana Terrane. The Shell Creek property is underlain by Upper Proterozoic rocks, approximately 20 km southwest of an inlier of Lower to Mid Proterozoic rocks that contain exposures of Wernecke breccias. For this latter reason, an IOCG deposit model was contemplated for the copper mineralization on the property. However, the property appears to be underlain by younger rocks than those hosting Wernecke type IOCG mineralization in this region (Pautler, 2007).

PROPERTY GEOLOGY

The main area of interest on the Shell Creek property is underlain by Upper Proterozoic to Cambrian rocks thought to belong to the Hyland Group, mainly clastic off-shelf passive continental margin sedimentary rocks. The rocks are exposed within what appears to be an anticlinorium with, from oldest to youngest, basaltic greenstone, commonly with pillows, in the core, followed outwards by bedded grey siltstone/sandstones, chloritic tuffaceous sedimentary rocks, grey, green and maroon shales, banded iron formation, and limestone with shale. The volcanic unit may belong to an undefined volcanic unit, Upper Proterozoic to Lower Cambrian in age (PEsch) mapped by Thompson et al., 1992.

Small scale folds with amplitudes of a few centimetres were observed mimicking larger scale folds with amplitudes of 30 cm, which mimic the large scale anticline that has an amplitude of approximately 2 km. The anticline appears to be overturned to the south. There is some question as to the major fold being a syncline or an anticline but relationships observed in the field at this point favour an anticline.

On the northeast limb of the anticline foliations trend 130° to 080° (further east), dipping 60-70°N, commonly 90° in the iron formation. On the southwest limb of the anticline foliations trend 120° to 070°/30-50°N, locally steep proximal to the Tintina Fault (Pautler, 2007).

MINERALIZATION ON PROPERTY

IRON FORMATION:

The property is underlain by a zone of banded iron formation. The iron formation was only ever evaluated during the summer of 1958 by Asbestos Corporation Ltd. (Riordon and Mann 1958). No further work was completed and it is probable that the quality of the iron mineralization was not deemed to be economic.

As far as this author is aware little or no investigation of the iron was conducted on the nose of the fold to the east of the property where the bulk of the iron deposit is now known to lie and where copper mineralization is also evident.

GOLD BEARING QUARTZ VEINS: SADDLE REEF TYPE MINERALIZATION

Saddle reef-type gold bearing quartz veins were discovered in 2003 on the north slope of Shell Creek ridge near the east end of the Shell Creek property. Hand trenching was completed in 2004 to expose the showing; however, no systematic channel samples were taken. Very fine-grained visible gold is present and grab samples have returned up to 4 grams per tonne gold in assays. The veins contain disseminated chalcopyrite (and secondary malachite) and the host sedimentary rocks contain abundant malachite (copper oxide) staining. There is a significant amount of white quartz float scattered around the slopes of Shell Creek ridge and it is probable that there are numerous occurrences of this style of gold mineralization on the property. Shell Creek, which drains south from Shell Creek ridge to the Yukon River has a history of placer gold operations. The Shell Creek Property was staked on the basis of this gold potential.

In 2005 Chris Ash wrote a report on behalf of the company where he detailed the nature of the mineralization found in the quartz.

"Two distinct stages of quartz are recognized. A dominant, earlier stage consists of pervasively fractured and deformed white, bull quartz. Visible gold is found associated with chalcocite in late-stage, dilation-fill quartz-carbonate-chlorite veins. Foliated clastic sedimentary rocks marginal to late stage gold-quartz veins are pervasively chloritized and contain elevated Cu. Malachite staining is common along cleavage surfaces within the chloritized sediments, reflecting the presence of chalcocite. Three grab samples of material returned assays indicating from 1.4 to 1.8% Cu.

Quartz reefs form shallow southwest-plunging, upright, openly folded, anticlinal structures that are from 50 to 75 meters wide, across the region of the fold closure. Individual reefs consist of a number of stacked quartz veins that range from less than half a metre, to several metres in thickness separated by intervals of variably chloritized, host siltstone. Quartz reefs are thickest at the hinge zone and progressively thin out and dissipate as the veins rolls into the steeper fold limbs.

Within the individual reefs, visible gold is associated with late-stage, dilation-fill quartz-chlorite-carbonate veins developed within and marginal to early-stage fractured quartz. Visible gold is particularly common in association with chalcocite and lesser bornite that occurs either as 1 to 3 centimetre patches in late-stage dilation-fill veins, or as 1 to 3 mm veinlets filling fractures in early-stage quartz, proximal to the late-stage veins.

In addition to Au in quartz, clastic metasediments proximal to zones within reefs with late-stage vein development are typically pervasively chloritized with elevated Cu occurring as disseminated chalcocite developed along schistosity surfaces. Grab samples of chalcocite bearing chloritized sediments have returned assays up to 1.8% Cu." (Ash, 2005)

POTENTIAL COPPER-GOLD-URANIUM MINERALIZATION:

Stream sediment geochemical survey data for the area indicates the presence of anomalous copper, gold and uranium in the drainage system originating from Shell Creek ridge. In addition, soil geochemical surveys completed in 2005 have indicated widespread anomalous copper, gold, uranium and rare earths (lanthanum) in soils along Shell Creek ridge. Based on the geochemical data and the regional geological setting (close proximity of the Shell Creek property to occurrences of Wernecke Breccia mineralization), the author, Peter T. George, P.Geo., concluded that there was potential for Olympic Dam-type mineralization at shallow depths below surface on the property (George, 2005).

SUMMARY OF 2008 EXPLORATION PROGRAM

In 2008 Logan Resources staff conducted the following exploration activities:

- Follow up geochemical soil survey of the northern section of the property
- Mapping and rock sampling survey
- Investigation of previously identified radiometric anomalies

IN BRIEF:
A total of 335 soil samples were collected and analysed for Mobile Metal Ions (MMI) by SGS Mineral Services in Toronto.

A total of 79 rock samples were collected + 3 bulk samples of quartz were sampled for gold and copper by Acme Laboratories in Vancouver and Assayers Canada in Vancouver.

One polished thin section was made by Tech Cominco Laboratories in Vancouver, to determine the protolith of a heavily altered and chloritized horizon.

One day was spent investigating a large quartz vein breccia with Prof. Derek Thorkansan.

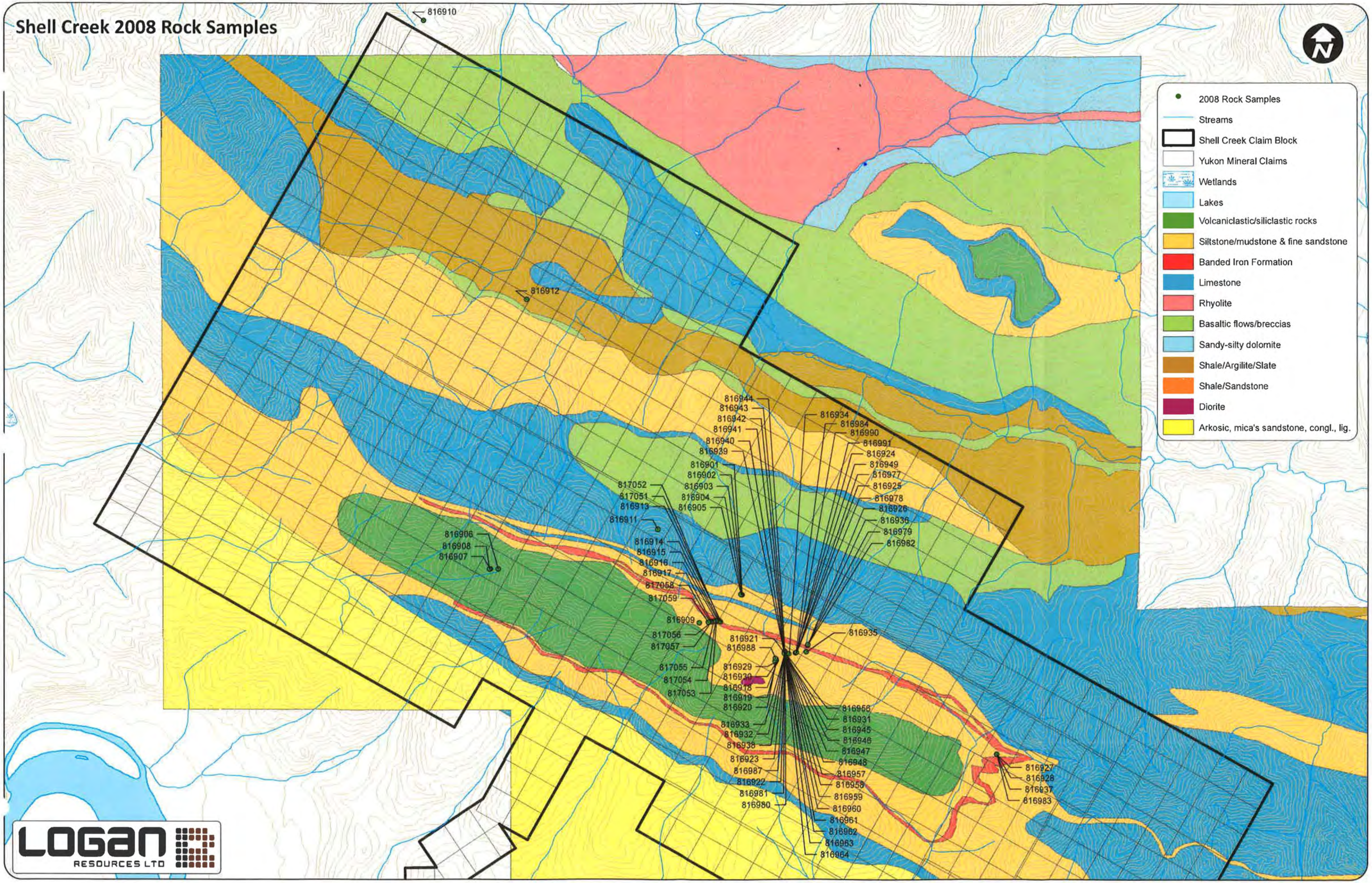
Five days were spent investigating 6 radiometric anomalies that were identified from the 2007 airborne magnetic and radiometric survey that was conducted on the property by Ron Sheldrake on the behalf of Logan Resources Ltd.

A series of sub-reports for the above mentioned work by the various professionals that were involved are contained in the appendices of this report.

ROCK SAMPLING

79 rock samples were collected at Shell Creek in 2008 and sent to Acme Labs in Vancouver for 32 element ICP analysis. The results of the analysis can be seen in Appendix C and various samples are discussed in the following reports. Sample locations and tag numbers can be seen on the map below.

Three bulk samples from the quartz saddle reefs (See Chris Ash Report; 2005) were taken to try and determine if significant gold or copper mineralization could be found. Results of the bulk samples are in Appendix C. Chris Ash himself was present for the sampling.


Shell Creek 2008 Rock Samples
N
2008 Rock Samples
Streams
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
Volcaniclastic/siliclastic rocks
Siltstone/mudstone & fine sandstone
Banded Iron Formation
Limestone
Rhyolite
Basaltic flows/breccias
Sandy-silty dolomite
Shale/Argilite/Slate
Shale/Sandstone
Diorite
Arkosic, mica's sandstone, congl., lig.
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REFERENCES

Ash, Chris (2008): 2008 Evaluation & Sampling Program on the Shell Creek Au-Cu Property; Dawson Mining District; for Logan Resources Ltd.

George, Peter T. (2005): Evaluation Report – Shell Creek Property, Wernecke Mountains, Dawson Mining District, Yukon, Canada; for Logan Resources Ltd.

Pautler, Jean (2007): Shell Creek Evaluation – Geological Setting, Deposit Model and Exploration Implications; Interoffice Memorandum for Logan Resources Ltd.

STATEMENT OF EXPENDITURES

WAGES:

• Soil Sampler @ $185.00/day X 23 Man Days	4,255.00
• Data Person @ $185.00/day X 20 Man Days	3,700.00
• Consulting Geologists @ $750 /day X 4 Man Days	3,000.00
• Geologists @ $400 /day X 47 man days	18,800.00
• Supervision	1,750.00
	TOTAL WAGES: $31,505.00

ACCOMMODATION AND MEALS

• (for Logan personal, pilot engineer and consultants)	**TOTAL: $10,596.00**

ASSAYS:

• Soils X 337 @ $36.75	12,384.75
• Rocks X 79 @ $18.25	1,441.75
• Bulk Sample	8,000.00
	TOTAL ASSAYS: $21,826.50

HELICOPTER SUPPORT	**51,850.00**
FUEL	**8,000.00**
CAMP SUPPLIES	**1,500.00**
REPORT PREPARATION	**3,750.00**
TOTAL EXPENDITURE =	**$129,027.50**

STATEMENT OF QUALIFICATION

I, Daithi Mac Gearailt, with business address:

1640-1066 West Hastings St.
Vancouver, BC.
V6E 3X1

And residential address in Dawson City, Yukon Territory do hereby certify that:

- I am a geologist with Logan Resources Ltd.
- I am a graduate geologist from the National University of Ireland, Galway
- I am the author of this report on the Shell Creek Property, Dawson Mining District, Yukon, which is based on my personal examination of the ground during July 1st to Sep 1st 2008.

Daithi Mac Gearailt, B.Sc.

Appendix A

2007 Permit for Barge Landing & Access Trail

Yukon
Energy, Mines and Resources

Fisheries and Oceans Canada | Pêches et Océans Canada

Yukon Environmental & Socioeconomic Assessment Act
Decision Document

This document meets the Yukon Government and Department of Fisheries and Oceans' requirements as a Decision Body as set out in the *Yukon Environmental & Socioeconomic Assessment Act*

Decision Document Issued By:

YG Decision Body:	EMR - Mineral Resources
Federal Decision Body(ies):	Transport Canada – Navigable Waters Protection Program Department of Fisheries and Oceans Canada
First Nation Decision Body(ies):	

Project

Project Name :	**Quartz Mining – Shell Creek Property**	YESAA File Number: **2008-0054**
Proponent Name:	Logan Resources – Seamus Young	

The principal project is the operation of a quartz exploration program within a claim block of 656 claims. The proposed activity will occur on the north side of the Yukon River at the headwaters of Shell & Coal C eks approximately 70km downstream of Dawson City. Activities are proposed to occur between I. ch and November annually for a 5 year period.

Principal activities include:
Site preparation & Operation
- Mechanical trenching (11 @90m³ each)
- Water source (<100m³/day) various tributaries of Yukon River
- Possibility of diamond drilling with use of biodegradable products
- Possibility to establish approximately 25 drill areas (400m²each depending on presence of trees)
- Mechanical dug sumps at each drill site.
- On-going reclamation of trenches and drill sites

Accessory Activities Include:
Road Access
- Construction of access, approximately 10km x 3.5m from Yukon River to Camp
- Construction of access, approximately 10km x 3.5m between trench and drill sites
- Possibility to extend access approximately 10km to support drilling program
- Mobilization will be by skid trailers

Helicopter Access
- Up to 350 hours based within claim block
- Supplies transported to/from Dawson City at regular intervals

Barge Landing at Dogyard Creek (Unnamed trib to Yukon River)
- Construction and use of barge landing
- Initial and final mobilization of equipment to project site from Dawson City with possibility of (minimal) additional transportation

Camp
- Relocation of existing camp
- Capacity of 20 people
- Water source at local creeks

- rey water waste disposal – cover sump
- Human waste disposal – pit privy

Petroleum products (per season)

- Diesel - 400-600 (205L each) drums
- Gasoline - 30-40 (205L each) drums
- Jet Fuel – 200-250 (205L each) drums
- Propane – 10-15 (20-100lbs) tanks

Other Decision Bodies

Other Decision Body Consultation:	*Copies of the Draft Decision Document were forwarded to Federal Decision Bodies for feedback and approval.*
Consolidated Decision Document:	☐ N/A ☒ No – Transport Canada ☒ Yes – Department of Fisheries and Oceans Canada

Non-Self Governing First Nations

Non-self governing First Nation Consultation:	

De 'sion

Pursuant to ss. 75, 76 and 80, the Yukon government has considered the *YESAA* Assessment and:

☐	a) Government of Yukon accepts the following recommendation(s):
☒	b) Rejects the following recommendation(s) for the following reason(s): **Government of Yukon Rejects the Following:** *Pursuant to Section 56(1) of the Yukon Environmental and Socio-economic Assessment Act it is recommended to the decision bodies that the project not be allowed to proceed, as the Designated Office has determined that the project will have significant adverse environmental or socio-economic effects in or outside Yukon that cannot be mitigated.* **More specifically, the Yukon Government rejects the recommendation of the Designated Office in relation to project 2008-0054 as follows:** *It is the assessor's determination that the residual effects after mitigation exist and are still deemed to be significant. These residual effects are closely related to the access route and the inability of the proposed mitigations to restrict access to the area and subsequent effects to sheep populations. There are numerous examples of the impact of access route construction into previously inaccessible areas and the resultant increased hunting pressure and subsequent decline of populations. These effects are irreversible, long term, and are likely to occur. There are no other reasonable, enforceable and appropriate mitigations available that would render these significant residual effects to be insignificant. In addition… …it will be difficult and challenging for the proponent to carry out the above mitigations and still conduct their operation as proposed. In addition, well-meaning and constructive company policies with respect to wildlife (such as prohibiting the hunting or personal use of ATV's) cannot be legally enforced by mineral inspectors*

nor conservation officers.

Given the:

- *irreversibility, duration, and likelihood of the residual effects,*
- *the difficulty of implementation of the stated mitigations while allowing the project to proceed as proposed, and,*
- *the lack of available mitigations to further mitigate the significant residual effects*

The Designated Office has determined that the project will have significant adverse environmental effects on wildlife and wildlife habitat that cannot be mitigated.

Reasons for Rejection:

Scoping:

This assessment is for an amendment to a permitted project. The scope does not make this clear. Drilling, hand dug sumps, camp of 20 people, heli access and waste management including septic and incineration and removal of solid waste were assessed in 2006. The current permit is valid until 2009.

The present amendment is to add trenching, larger equipment, more extensive drilling, relocation of the camp, access road construction and extension of timelines.

The scope of project refers to May as the annual start date for the project. It is clear from the application that March is the intended start date and the May date is being viewed as a typo.

Authority of Government to accept, vary or reject:

The assessment questions Government's authority as a decision body, and perhaps the soundness of its decision documents, in varying prescriptive terms and conditions that Government, for many reasons, may deem to fall within the mandate of the regulator and not the assessor.

The Yukon *Environmental and Socio-economic Assessment Act* (YESAA) is quite clear that a decision body has full authority to do so. Section 75. (1) of YESAA states:

"Where a designated office, a joint panel or a review panel referred to in section 63 makes a recommendation to a decision body, the decision body shall issue a decision document within the period prescribed by the regulations accepting, rejecting or varying the recommendation."

Determination:

The evaluation report created by YESAB has put the onus on the proponent to become an enforcement agent for the management of game in the area. It is the role of Governments to create and enforce a game management plan that ensures the success of wildlife. Both Yukon and First Nation Governments are responsible for implementing a game management system which is adaptive and responsive to changing conditions in the field, and that allows for the implementation of a timely response to issues like other temporary uses of the land. It is not the responsibility of individual proponents to regulate the areas they are planning to work in a piece-meal project by project fashion, as this approach is not effective at creating or implementing long term goals for either business or habitat/species management.

Government of Yukon disagrees that there is no mitigation that could eliminate, reduce or control the adverse affects on wildlife populations. The access road has been determined by the assessor

to be the source of the long term and irreversible residual effects which are likely to occur, despite the proposed mitigations. The evaluation report does not identify specific residual effects, but does imply that they are related to the road and public access to alpine areas and sheep populations which are currently not as accessible. Yukon Government has identified further access related mitigation measures that will ensure the access road is seasonally inaccessible for the duration of the project, as well as made permanently impassible and fully reclaimed at the end of the program. The seasonal and permanent closure of the access, along with the additional mitigations listed below, will address the impacts identified in the YESAB assessment.

The project can proceed subject to the following specified terms and conditions that will mitigate any significant adverse environmental or socio-economic effects in or outside the Yukon:

Yukon Government accepts the following mitigations from the YESAB Evaluation Report:

Wildlife

- No exploration activities or helicopter flights within 1 km of sheep winter range during the winter period of October 1 – May 31 following where possible.
- No helicopter flights within 3.5 km of sheep lambing areas from May 1 – June 15 where possible.
- No exploration activities within 1 km of sheep lambing areas from May 1 – June 15 where possible.
- The proponent shall maintain a detailed wildlife log for submission to the local regional biologist each year.
  Additional information and clarification regarding lambing areas
  - Sheep lambing areas have not been specifically surveyed or mapped by YG Department of Environment. If or when lambing areas are identified in the project area that the information is to be shared with the regional biologist.
- The proponent shall maintain a minimum altitude of 600m AGL when flying over ungulates when possible
- Proponent shall contact YG Environment for regular postings of the presence of Fortymile caribou in the vicinity of their project area including flight path.
- The proponent shall not locate camp within line of site of nesting peregrine falcon if possible.
- The proponent shall not disturb or harass wildlife while flying or traveling by ATV
- The proponent shall keep all garbage, including kitchen waste, in a container that prevents access by bears and other wildlife, until properly disposed of in accordance with the Solid Waste Regulation.
- When burning kitchen waste on site, it must be burned regularly to reduce odours that might attract wildlife and be burned to ash by forced air or fuel fired incineration
- One end of each trench and test pit should be sloped to provide for wildlife escapement
- All excavated material that is not part of the sampling must be returned underground in the layers in which it was removed, and capped with original surface materials as soon as possible.

Heritage Resources

- The proponent shall comply with the Historic Resources Act (OIC 2003/73) and the Yukon Archaeological Sites Regulation respecting archaeological and historical resources
- The proponent shall have the barge landing and access road route assessed by a qualified archaeologist and Tr'ondëk Hwëch'in Heritage Department representative prior to construction.

Yukon Government varies the following mitigations from the YESAB Evaluation Report:

Wildlife

Yukon Government varies the following:

- No activities or helicopter flights within 1 km of known mineral licks during the period of heaviest use from April 15 to July 31 where possible.

Justification:

- The publication "Flying in Sheep Country" which sets out best practices identifies the critical time period to avoid flying near mineral licks from May 1 to June 15. Yukon Government Department of Environment has provided dates to avoid mineral licks for ground based exploration activities.

Replaced With:

- No helicopter flights within 3.5 km of important mineral licks during the period of heaviest use from May 1 to June 15 where possible.
- No activity within 1 km of important mineral licks during the period of heaviest use from April 15 to July 30 where possible.

Yukon Government varies the following:

- Helicopter activity shall be minimized or avoided within one (1) km of sheep activity.

Justification:

- Operational or safety considerations may require activity with in this range.

Replaced With:

- Helicopter activity shall be minimized or avoided within one (1) km of sheep activity where possible.

Yukon Government varies the following:

- No helicopters flights over peregrine falcon nesting sites, or if it cannot be avoided, fly at a minimum of 600m AGL above nesting sites.

Justification:

- Safety considerations may mean that this altitude cannot be maintained. It is important to allow for safety, emergency and other unforeseen considerations.

Replaced With:

- No helicopter flights over peregrine falcon nesting sites, or if it cannot be avoided, fly at a minimum of 600m AGL above nesting sites where possible.

Yukon Government varies the following:

- Proponent shall berm access route at the barge landing at the end of each season.

Justification:

- A berm will not be sufficient to block the passage of ATVs or snowmobiles from accessing the road and impacting wildlife values. The road will be a private road when constructed, and must be maintained as such through the use of signage and gates. Specific routing of the access road, as determined by CS&I Inspections- Mining, along with seasonal reclamation work and the placement of gates, will prevent the access of ATVs. Implementation of the following mitigation measures by the proponent will go above and beyond the proponent's responsibility to help enforce the Yukon Government's Game Management Plan.

Replaced With:

- The proponent will submit a road management plan to the Chief of Mining Land Use for review and approval before any construction and work on the access road is initiated.
- The proponent will take measures to ensure the closure of the road at the end of each operating season to prevent access to sheep habitat. The road closure measures will be reviewed regularly and any appropriate changes will be approved by regulators to effectively prevent access by the public.
- The proponent will fully reclaim the road at the end of the program to ensure there is no long term access to the alpine (Sheep habitat) areas.

Fish and Fish Habitat

Yukon Government varies the following:

- The proponent shall ensure only clean coarse gravel free of fine sediment is used as in-fill material if required during the construction of the barge landing in the Yukon River. The material shall be local to the area and pre-washed away from any water body.
- The proponent shall ensure all materials and debris stockpiled not within 30m of waterbodies including the Ordinary High Water Mark (OHWM) and located such that they do not re-enter any watercourse. These materials shall not be re-used as ramp in-fill unless they are pre-washed.
- The proponent shall not perform any in-stream works.

Justification:

- Transport Canada - Navigable Waters Protection Program regulates all works on navigable waters, and is a decision body for this project.

Replaced With:

- The proponent shall contact Transport Canada - Navigable Waters Protection Program for barge landing requirements, mitigations and permitting.

Yukon Government varies the following:

- Proponent shall post at both ferry landings a fuel spill contingency plan.

Justification:

- The barge landing in Dawson City is in a publicly accessible area where mishap or vandalism could prevent a fuel spill plan from being usable. To ensure that a copy of the spill plan is available at this public site, the proponent shall provide a copy of the plan to all employees and contractors prior to them performing work, as well as posting the plan at all fuel handling sites.

Replaced With:

- The proponent shall have in place a spill contingency plan that addresses spills of petroleum products and other hazardous substances and shall ensure a copy of the plan is provided to all employees, contractors and sub-contractors, prior to them performing work as part of the operation. The plan must be posted in camp locations and at all fuel handling locations used in carrying out the operation. In the event of a spill, the proponent shall implement the spill contingency plan.

Yukon Government varies the following:

- No fuel shall be stored on the barge landing site.

Justification:

- Fuel may not be stored directly on the barge landing site. However fuel may be stored in the area of the barge landing, as long as it is a minimum of 30 meters above the ordinary high water mark of any water body (including the Yukon River and its tributaries) and meets the standards set out in the Quartz Operating Conditions, Schedule 1 of the Quartz Mining Land Use Regulation.

Replaced With:

- All petroleum products, including waste petroleum products, and any other hazardous substances must be stored in a secure fashion no less than 30m from the ordinary high water mark of any water body.

Hunting, Trapping and Fishing

Yukon Government varies the following:

- Proponent shall maintain a cooperative approach to shared resource management by notifying the Outfitter of Concession Area #3 prior to commencement of project activity annually.
- Proponent shall maintain a cooperative approach to shared resource management by notifying the Registered Trapping Concession Holders for RTC#13 & RTC#17 prior to commencement of project activity annually.
- Proponent shall maintain a cooperative approach to shared resources management by notifying the identified Commercial Fisher prior to commencement of project activity in relation to the barge operation and landing construction.

Justification:

- The Outfitter, Trapper and Commercial Fisherman are all business entities, as is the proponent. Although they have different requirements to be successful, they all require the same land base to achieve that success. Therefore there is no justification that one business should bear the responsibility to ensure that the area is managed successfully for all affected parties.

  This is an amendment to an existing project, and all of the details regarding the project have been posted to the YESAB Online Registry (YOR). Both the Outfitter and Trapper/Commercial Fisherman have submitted comments to the YOR, indicating that they are aware of the proponent's plans. It is clear that this is no longer a case of a new business 'introducing' itself to operations currently existing in the area, but a case of all businesses needing to remain in communication and maintain an open dialog with each other.

  Varying this mitigation does not relieve the proponent or the other commercial resources users of the area from communicating with one another. Communication should happen on a regular basis to update the other parties of their plans. Examples of this would include the co-management required with the outfitter; the outfitter would like to be notified of work happening in the area (which is less than 1% of the outfitter concession) by the proponent to ensure a successful hunting experience for their clients, and the proponent would like to be notified if the outfitter is hunting and using firearms in the area to ensure the safety of anyone working on site for the proponent.

Replaced With:

- The proponent shall maintain a cooperative approach to shared resource management of the land.

Yukon Government removes the following mitigations as per the YESAB Evaluation Report:

Environmental Quality –

Yukon Government removes the following:

- The proponent and/or field representative shall provide a security deposit in the amount sufficient enough to ensure adequate reclamation and determined by the regulator to be held under the Quartz Mining Act, prior to commencement of the proposed project activities.

Justification:

- The proponent is legally required to implement all permit requirements. The financial security may be required by regulators, but normally only where there is significant risk that the proponent will not comply with reclamation requirements. That risk will be determined by regulators.

Wildlife

Yukon Government removes the following:

- Proponent shall enforce the proposed no hunting policy outlined in the Company's wildlife preservation policy.

Justification:

- Our statutes do not enable us to nullify licenses issued by other regulatory bodies.

Yukon Government and Department of Fisheries and Oceans Canada accept the following mitigations from the YESAB Evaluation Report:

Fish and Fish Habitat

- The screen must be kept in a good and efficient state of repair. It must not be removed except for renewal or repair. No water is to be withdrawn during any period when the screen is removed.
- The proponent shall operate equipment/machinery in a manner that minimizes disturbance to the bed and banks of any waterbody.

- Equipment shall be maintained, clean and free of leaks.
- No re-fueling or servicing of equipment shall occur within 30m of waterbody.

Yukon Government and Department of Fisheries and Oceans Canada varies the following:

Fish and Fish Habitat

- All means by which water is withdrawn from Coal Creek, Cliff Creek, Shell Creek and the Yukon River, or their tributaries must be screened or otherwise guarded to prevent the passage of fish from these waters. Mesh size to be determined by Department of Fisheries & Oceans.

Justification:

- Mesh size is not legislated, but the Department of Fisheries and Oceans have guidelines in place.

Replaced With:

- All means by which water is withdrawn from Coal Creek, Cliff Creek, Shell Creek and the Yukon River, or their tributaries must be screened or otherwise guarded to prevent the entrainment of fish from these waters.

Department of Fisheries and Oceans Canada adds the following mitigation:

Justification:

- Department of Fisheries and Oceans Canada regulates any destruction of fish habitat, and is a Decision Body for this project. Permitting and further mitigation may be required under the Fisheries Act for the barge landing and road work that happens below the ordinary high water mark.

DFO Adds:

- An Authorization under the Federal Fisheries Act to Harmfully Alter, Disrupt or Destroy Fish Habitat must be applied for with Fisheries and Oceans Canada (DFO) for the proposed barge landing and near shore road development. The application does not warrant any authorization will be provided. This aspect of the project may be redesigned, relocated, or not permitted based on the project proposal. If an Authorization is determined to be required, then appropriate mitigation and required compensation will be determined by DFO as a requirement of the proposed works.

☐ c) Varies the following recommendation(s) as follows for the reason(s) specified:

Dates

Project Recommendation Issued: June 20, 2008	Decision Document Issued: July 18, 2008

Recommendation Received From:

Designated Office	☒	Location: Dawson City
Executive Committee	☐	
Panel	☐	a) Panel of the YESAB
	☐	b) CEAA Panel
	☐	c) Joint Panel (YESAB and other assessment body)

Yukon
Energy, Mines and Resources

Fisheries and Oceans Canada / Pêches et Océans Canada

By signing below, the Yukon government has exercised its authority as per YESAA s. 75 or s. 76 to issue a decision document on this project.

Name:	Robert Holmes	Position:	Director, Mineral Resources
Signature:	[signature]	Date:	July 18, 2008

By signing below, the Department of Fisheries and Oceans has exercised its authority as per YESAA s. 75 or s. 76 to issue a decision document on this project.

Name:	Sean Collins	Position:	A/Habitat Biologist
Signature:	[signature]	Date:	July 18, 2008

Copies Forwarded to (as required by *YESAA*):

☒	Other Decision Bodies	[list]	Transport Canada – Navigable Waters Protection Program / Department of Fisheries and Oceans
☒	Project Proponent	[name]	Logan Resources / Seamus Young
☒	DAP Branch, Executive Council Office		
☒	YESAB Designated Office	[location]	Dawson
☐	YESAB Executive Committee	[when applicable]	
☐	Minister Environment (Canada)	[when applicable]	
☐	Yukon Surface Rights Board	[when applicable]	
☐	Yukon Water Board	[when applicable	
☐	Land Use Planning Commission:	[when applicable]	
☐	Independent Regulatory Agency	[when applicable]	
☐	Other Body/Person as Required	[List]	

Appendix B

Shell Creek Claims List

Grant Number	RegType	Claim Name	Claim Number	Claim Owner	Recording Date	Expiry Date
YC21149	Quartz	Simba	1	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21150	Quartz	Simba	2	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21151	Quartz	Simba	3	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21152	Quartz	Simba	4	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21153	Quartz	Simba	5	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21154	Quartz	Simba	6	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21155	Quartz	Simba	7	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21156	Quartz	Simba	8	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21157	Quartz	Simba	9	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21158	Quartz	Simba	10	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21159	Quartz	Simba	11	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21160	Quartz	Simba	12	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21161	Quartz	Simba	13	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21162	Quartz	Simba	14	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21163	Quartz	Simba	15	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21164	Quartz	Simba	16	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21165	Quartz	Simba	17	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21166	Quartz	Simba	18	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21167	Quartz	Simba	19	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21168	Quartz	Simba	20	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21169	Quartz	Simba	21	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21170	Quartz	Simba	22	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21171	Quartz	Simba	23	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21172	Quartz	Simba	24	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21173	Quartz	Simba	25	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21174	Quartz	Simba	26	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21175	Quartz	Simba	27	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21176	Quartz	Simba	28	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21177	Quartz	Simba	29	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21178	Quartz	Simba	30	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21179	Quartz	Simba	31	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21180	Quartz	Simba	32	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21181	Quartz	Simba	33	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21182	Quartz	Simba	34	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21183	Quartz	Simba	35	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21184	Quartz	Simba	36	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21185	Quartz	Simba	37	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21186	Quartz	Simba	38	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21187	Quartz	Simba	39	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21188	Quartz	Simba	40	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21872	Quartz	Simba	41	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21873	Quartz	Simba	42	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21874	Quartz	Simba	43	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21875	Quartz	Simba	44	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21876	Quartz	Simba	45	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21877	Quartz	Simba	46	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21878	Quartz	Simba	47	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018

YC21879	Quartz	Simba	48	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21880	Quartz	Simba	49	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21881	Quartz	Simba	50	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21882	Quartz	Simba	51	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21883	Quartz	Simba	52	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21884	Quartz	Simba	53	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21885	Quartz	Simba	54	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21886	Quartz	Simba	55	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21887	Quartz	Simba	56	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21888	Quartz	Simba	57	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21889	Quartz	Simba	58	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21890	Quartz	Simba	59	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21891	Quartz	Simba	60	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21892	Quartz	Simba	61	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21893	Quartz	Simba	62	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21894	Quartz	Simba	63	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21895	Quartz	Simba	64	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21896	Quartz	Simba	65	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21897	Quartz	Simba	66	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21898	Quartz	Simba	67	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21899	Quartz	Simba	68	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21900	Quartz	Simba	69	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21901	Quartz	Simba	70	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC30279	Quartz	Simba	71	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30280	Quartz	Simba	72	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30281	Quartz	Simba	73	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30282	Quartz	Simba	74	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30283	Quartz	Simba	75	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30284	Quartz	Simba	76	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30285	Quartz	Simba	77	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30286	Quartz	Simba	78	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30287	Quartz	Simba	79	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30288	Quartz	Simba	80	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30289	Quartz	Simba	81	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30290	Quartz	Simba	82	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30291	Quartz	Simba	83	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30292	Quartz	Simba	84	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30293	Quartz	Simba	85	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30294	Quartz	Simba	86	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30295	Quartz	Simba	87	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30296	Quartz	Simba	88	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30297	Quartz	Simba	89	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30298	Quartz	Simba	90	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30299	Quartz	Simba	91	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30300	Quartz	Simba	92	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30301	Quartz	Simba	93	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30302	Quartz	Simba	94	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30303	Quartz	Simba	95	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30304	Quartz	Simba	96	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30305	Quartz	Simba	97	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30306	Quartz	Simba	98	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018

YC30307	Quartz	Simba	99	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30308	Quartz	Simba	100	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30309	Quartz	Simba	101	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30310	Quartz	Simba	102	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30311	Quartz	Simba	103	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30312	Quartz	Simba	104	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30313	Quartz	Simba	105	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30314	Quartz	Simba	106	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30315	Quartz	Simba	107	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30316	Quartz	Simba	108	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30317	Quartz	Simba	109	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30318	Quartz	Simba	110	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30319	Quartz	Simba	111	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30320	Quartz	Simba	112	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30321	Quartz	Simba	113	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30322	Quartz	Simba	114	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30323	Quartz	Simba	115	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30324	Quartz	Simba	116	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30325	Quartz	Simba	117	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30326	Quartz	Simba	118	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30327	Quartz	Simba	119	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30328	Quartz	Simba	120	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30329	Quartz	Simba	121	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30330	Quartz	Simba	122	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30331	Quartz	Simba	123	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30332	Quartz	Simba	124	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30333	Quartz	Simba	125	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30334	Quartz	Simba	126	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30335	Quartz	Simba	127	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30336	Quartz	Simba	128	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30337	Quartz	Simba	129	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30338	Quartz	Simba	130	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30339	Quartz	Simba	131	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30340	Quartz	Simba	132	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30341	Quartz	Simba	133	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30342	Quartz	Simba	134	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30343	Quartz	Simba	135	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30344	Quartz	Simba	136	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30345	Quartz	Simba	137	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30346	Quartz	Simba	138	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30347	Quartz	Simba	139	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30348	Quartz	Simba	140	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30349	Quartz	Simba	141	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30350	Quartz	Simba	142	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30351	Quartz	Simba	143	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30352	Quartz	Simba	144	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30353	Quartz	Simba	145	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30354	Quartz	Simba	146	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30355	Quartz	Simba	147	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30356	Quartz	Simba	148	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30357	Quartz	Simba	149	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018

YC30358	Quartz	Simba	150	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30359	Quartz	Simba	151	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30360	Quartz	Simba	152	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30361	Quartz	Simba	153	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30362	Quartz	Simba	154	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30363	Quartz	Simba	155	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30364	Quartz	Simba	156	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30365	Quartz	Simba	157	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30366	Quartz	Simba	158	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30367	Quartz	Simba	159	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30368	Quartz	Simba	160	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30369	Quartz	Simba	161	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30370	Quartz	Simba	162	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30371	Quartz	Simba	163	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30372	Quartz	Simba	164	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30373	Quartz	Simba	165	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30374	Quartz	Simba	166	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30375	Quartz	Simba	167	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30376	Quartz	Simba	168	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30377	Quartz	Simba	169	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30378	Quartz	Simba	170	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30379	Quartz	Simba	171	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30380	Quartz	Simba	172	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30381	Quartz	Simba	173	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30382	Quartz	Simba	174	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30383	Quartz	Simba	175	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30384	Quartz	Simba	176	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30385	Quartz	Simba	177	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30386	Quartz	Simba	178	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30387	Quartz	Simba	179	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30388	Quartz	Simba	180	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30389	Quartz	Simba	181	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30390	Quartz	Simba	182	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30391	Quartz	Simba	183	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30392	Quartz	Simba	184	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30393	Quartz	Simba	185	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30394	Quartz	Simba	186	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30395	Quartz	Simba	187	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30396	Quartz	Simba	188	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30397	Quartz	Simba	189	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30398	Quartz	Simba	190	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30399	Quartz	Simba	191	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30400	Quartz	Simba	192	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30401	Quartz	Simba	193	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30402	Quartz	Simba	194	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30403	Quartz	Simba	195	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30404	Quartz	Simba	196	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30405	Quartz	Simba	197	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30406	Quartz	Simba	198	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30407	Quartz	Simba	199	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30408	Quartz	Simba	200	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021

YC30409	Quartz	Simba	201	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30410	Quartz	Simba	202	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30411	Quartz	Simba	203	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30412	Quartz	Simba	204	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30413	Quartz	Simba	205	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30414	Quartz	Simba	206	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30415	Quartz	Simba	207	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30416	Quartz	Simba	208	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30417	Quartz	Simba	209	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30418	Quartz	Simba	210	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30419	Quartz	Simba	211	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30420	Quartz	Simba	212	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30421	Quartz	Simba	213	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30422	Quartz	Simba	214	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC32891	Quartz	Simba	215	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32892	Quartz	Simba	216	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32893	Quartz	Simba	217	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32894	Quartz	Simba	218	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32895	Quartz	Simba	219	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32896	Quartz	Simba	220	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32897	Quartz	Simba	221	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32898	Quartz	Simba	222	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32899	Quartz	Simba	223	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32900	Quartz	Simba	224	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32901	Quartz	Simba	225	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32902	Quartz	Simba	226	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32903	Quartz	Simba	227	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32904	Quartz	Simba	228	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32905	Quartz	Simba	229	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32906	Quartz	Simba	230	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32907	Quartz	Simba	231	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32908	Quartz	Simba	232	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32909	Quartz	Simba	233	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32910	Quartz	Simba	234	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32911	Quartz	Simba	235	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32912	Quartz	Simba	236	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32913	Quartz	Simba	237	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32914	Quartz	Simba	238	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32915	Quartz	Simba	239	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32916	Quartz	Simba	240	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32917	Quartz	Simba	241	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32918	Quartz	Simba	242	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32919	Quartz	Simba	243	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32920	Quartz	Simba	244	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32921	Quartz	Simba	245	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32922	Quartz	Simba	246	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32923	Quartz	Simba	247	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32924	Quartz	Simba	248	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32925	Quartz	Simba	249	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32926	Quartz	Simba	250	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32927	Quartz	Simba	251	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014

YC32928	Quartz	Simba	252	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32929	Quartz	Simba	253	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32930	Quartz	Simba	254	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32931	Quartz	Simba	255	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32932	Quartz	Simba	256	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32933	Quartz	Simba	257	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32934	Quartz	Simba	258	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32935	Quartz	Simba	259	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32936	Quartz	Simba	260	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32937	Quartz	Simba	261	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32938	Quartz	Simba	262	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32939	Quartz	Simba	263	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32940	Quartz	Simba	264	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32941	Quartz	Simba	265	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32942	Quartz	Simba	266	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32943	Quartz	Simba	267	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32944	Quartz	Simba	268	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32945	Quartz	Simba	269	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32946	Quartz	Simba	270	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32947	Quartz	Simba	271	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32948	Quartz	Simba	272	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32949	Quartz	Simba	273	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32950	Quartz	Simba	274	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32951	Quartz	Simba	275	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32952	Quartz	Simba	276	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32953	Quartz	Simba	277	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32954	Quartz	Simba	278	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32955	Quartz	Simba	279	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32956	Quartz	Simba	280	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32957	Quartz	Simba	281	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32958	Quartz	Simba	282	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32959	Quartz	Simba	283	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32960	Quartz	Simba	284	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32961	Quartz	Simba	285	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32962	Quartz	Simba	286	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32963	Quartz	Simba	287	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32964	Quartz	Simba	288	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32965	Quartz	Simba	289	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32966	Quartz	Simba	290	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32967	Quartz	Simba	291	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32968	Quartz	Simba	292	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32969	Quartz	Simba	293	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32970	Quartz	Simba	294	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32971	Quartz	Simba	295	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32972	Quartz	Simba	296	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32973	Quartz	Simba	297	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32974	Quartz	Simba	298	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32975	Quartz	Simba	299	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32976	Quartz	Simba	300	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32977	Quartz	Simba	301	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32978	Quartz	Simba	302	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013

YC32979	Quartz	Simba	303	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32980	Quartz	Simba	304	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32981	Quartz	Simba	305	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32982	Quartz	Simba	306	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32983	Quartz	Simba	307	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32984	Quartz	Simba	308	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32985	Quartz	Simba	309	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32986	Quartz	Simba	310	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32987	Quartz	Simba	311	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32988	Quartz	Simba	312	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32989	Quartz	Simba	313	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32990	Quartz	Simba	314	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32991	Quartz	Simba	315	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32992	Quartz	Simba	316	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32993	Quartz	Simba	317	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32994	Quartz	Simba	318	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32995	Quartz	Simba	319	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32996	Quartz	Simba	320	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32997	Quartz	Simba	321	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32998	Quartz	Simba	322	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32999	Quartz	Simba	323	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33000	Quartz	Simba	324	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33001	Quartz	Simba	325	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33002	Quartz	Simba	326	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33003	Quartz	Simba	327	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33004	Quartz	Simba	328	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33005	Quartz	Simba	329	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33006	Quartz	Simba	330	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33007	Quartz	Simba	331	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33008	Quartz	Simba	332	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33009	Quartz	Simba	333	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33010	Quartz	Simba	334	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33011	Quartz	Simba	335	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33012	Quartz	Simba	336	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33013	Quartz	Simba	337	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33014	Quartz	Simba	338	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33015	Quartz	Simba	339	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33016	Quartz	Simba	340	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33017	Quartz	Simba	341	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33018	Quartz	Simba	342	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33019	Quartz	Simba	343	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33020	Quartz	Simba	344	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33021	Quartz	Simba	345	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33022	Quartz	Simba	346	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33023	Quartz	Simba	347	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33024	Quartz	Simba	348	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33025	Quartz	Simba	349	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33026	Quartz	Simba	350	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33027	Quartz	Simba	351	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33028	Quartz	Simba	352	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33029	Quartz	Simba	353	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013

YC33030	Quartz	Simba	354	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33031	Quartz	Simba	355	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33032	Quartz	Simba	356	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33033	Quartz	Simba	357	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33034	Quartz	Simba	358	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33035	Quartz	Simba	359	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33036	Quartz	Simba	360	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33037	Quartz	Simba	361	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33038	Quartz	Simba	362	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33039	Quartz	Simba	363	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33040	Quartz	Simba	364	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33041	Quartz	Simba	365	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33042	Quartz	Simba	366	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33043	Quartz	Simba	367	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33044	Quartz	Simba	368	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33045	Quartz	Simba	369	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33046	Quartz	Simba	370	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33047	Quartz	Simba	371	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33048	Quartz	Simba	372	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33049	Quartz	Simba	373	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33050	Quartz	Simba	374	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33051	Quartz	Simba	375	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33052	Quartz	Simba	376	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33053	Quartz	Simba	377	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33054	Quartz	Simba	378	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33055	Quartz	Simba	379	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33056	Quartz	Simba	380	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33057	Quartz	Simba	381	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33058	Quartz	Simba	382	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33059	Quartz	Simba	383	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33060	Quartz	Simba	384	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33061	Quartz	Simba	385	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33062	Quartz	Simba	386	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33063	Quartz	Simba	387	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33064	Quartz	Simba	388	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33065	Quartz	Simba	389	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33066	Quartz	Simba	390	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33067	Quartz	Simba	391	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33068	Quartz	Simba	392	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33069	Quartz	Simba	393	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33070	Quartz	Simba	394	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33071	Quartz	Simba	395	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33072	Quartz	Simba	396	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33073	Quartz	Simba	397	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33074	Quartz	Simba	398	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33075	Quartz	Simba	399	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33076	Quartz	Simba	400	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33077	Quartz	Simba	401	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33078	Quartz	Simba	402	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33079	Quartz	Simba	403	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33080	Quartz	Simba	404	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011

YC33081	Quartz	Simba	405	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33082	Quartz	Simba	406	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33083	Quartz	Simba	407	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33084	Quartz	Simba	408	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33085	Quartz	Simba	409	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33086	Quartz	Simba	410	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33087	Quartz	Simba	411	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33088	Quartz	Simba	412	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33089	Quartz	Simba	413	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33090	Quartz	Simba	414	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33091	Quartz	Simba	415	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33092	Quartz	Simba	416	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33093	Quartz	Simba	417	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33094	Quartz	Simba	418	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33095	Quartz	Simba	419	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33096	Quartz	Simba	420	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33097	Quartz	Simba	421	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33098	Quartz	Simba	422	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33099	Quartz	Simba	423	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33100	Quartz	Simba	424	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33101	Quartz	Simba	425	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33102	Quartz	Simba	426	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33103	Quartz	Simba	427	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33104	Quartz	Simba	428	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33105	Quartz	Simba	429	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33106	Quartz	Simba	430	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33107	Quartz	Simba	431	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33108	Quartz	Simba	432	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC35058	Quartz	Simba	433	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35059	Quartz	Simba	434	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35060	Quartz	Simba	435	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35061	Quartz	Simba	436	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35062	Quartz	Simba	437	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35063	Quartz	Simba	438	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35064	Quartz	Simba	439	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35065	Quartz	Simba	440	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35066	Quartz	Simba	441	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35067	Quartz	Simba	442	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35068	Quartz	Simba	443	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35069	Quartz	Simba	444	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35070	Quartz	Simba	445	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35071	Quartz	Simba	446	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35072	Quartz	Simba	447	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35073	Quartz	Simba	448	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35074	Quartz	Simba	449	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35075	Quartz	Simba	450	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35076	Quartz	Simba	451	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35077	Quartz	Simba	452	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35078	Quartz	Simba	453	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35079	Quartz	Simba	454	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35080	Quartz	Simba	455	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014

YC35081	Quartz	Simba	456	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35082	Quartz	Simba	457	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35083	Quartz	Simba	458	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35084	Quartz	Simba	459	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35085	Quartz	Simba	460	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35086	Quartz	Simba	461	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35087	Quartz	Simba	462	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35088	Quartz	Simba	463	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35089	Quartz	Simba	464	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35090	Quartz	Simba	465	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35091	Quartz	Simba	466	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35092	Quartz	Simba	467	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35093	Quartz	Simba	468	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35094	Quartz	Simba	469	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35095	Quartz	Simba	470	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35096	Quartz	Simba	471	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35097	Quartz	Simba	472	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35098	Quartz	Simba	473	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35099	Quartz	Simba	474	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35100	Quartz	Simba	475	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35101	Quartz	Simba	476	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35102	Quartz	Simba	477	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35103	Quartz	Simba	478	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35104	Quartz	Simba	479	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35105	Quartz	Simba	480	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35106	Quartz	Simba	481	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35107	Quartz	Simba	482	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35108	Quartz	Simba	483	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35109	Quartz	Simba	484	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35110	Quartz	Simba	485	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35111	Quartz	Simba	486	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35112	Quartz	Simba	487	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35113	Quartz	Simba	488	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35989	Quartz	NSimba	1	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35990	Quartz	NSimba	2	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35991	Quartz	NSimba	3	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35992	Quartz	NSimba	4	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35993	Quartz	NSimba	5	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35994	Quartz	NSimba	6	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35995	Quartz	NSimba	7	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35996	Quartz	NSimba	8	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35997	Quartz	NSimba	9	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35998	Quartz	NSimba	10	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35999	Quartz	NSimba	11	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36000	Quartz	NSimba	12	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36001	Quartz	NSimba	13	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36002	Quartz	NSimba	14	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36003	Quartz	NSimba	15	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36004	Quartz	NSimba	16	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36005	Quartz	NSimba	17	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36006	Quartz	NSimba	18	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018

YC36007	Quartz	NSimba	19	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36008	Quartz	NSimba	20	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36009	Quartz	NSimba	21	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36010	Quartz	NSimba	22	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36011	Quartz	NSimba	23	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36012	Quartz	NSimba	24	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36013	Quartz	NSimba	25	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36014	Quartz	NSimba	26	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36015	Quartz	NSimba	27	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36016	Quartz	NSimba	28	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36017	Quartz	NSimba	29	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36018	Quartz	NSimba	30	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36019	Quartz	NSimba	31	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36020	Quartz	NSimba	32	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36021	Quartz	NSimba	33	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36022	Quartz	NSimba	34	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36023	Quartz	NSimba	35	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36024	Quartz	NSimba	36	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36025	Quartz	NSimba	37	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36026	Quartz	NSimba	38	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36027	Quartz	NSimba	39	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36028	Quartz	NSimba	40	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36029	Quartz	NSimba	41	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36030	Quartz	NSimba	42	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36031	Quartz	NSimba	43	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36032	Quartz	NSimba	44	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36033	Quartz	NSimba	45	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36034	Quartz	NSimba	46	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36035	Quartz	NSimba	47	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36036	Quartz	NSimba	48	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36037	Quartz	NSimba	49	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36038	Quartz	NSimba	50	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36039	Quartz	NSimba	51	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36040	Quartz	NSimba	52	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36041	Quartz	NSimba	53	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36042	Quartz	NSimba	54	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36043	Quartz	NSimba	55	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36044	Quartz	NSimba	56	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36045	Quartz	NSimba	57	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36046	Quartz	NSimba	58	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36047	Quartz	NSimba	59	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36048	Quartz	NSimba	60	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36049	Quartz	NSimba	61	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36050	Quartz	NSimba	62	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36051	Quartz	NSimba	63	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36052	Quartz	NSimba	64	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36210	Quartz	Simba	489	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36211	Quartz	Simba	490	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36212	Quartz	Simba	491	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36213	Quartz	Simba	492	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36214	Quartz	Simba	493	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015

YC36215	Quartz	Simba	494	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36216	Quartz	Simba	495	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36217	Quartz	Simba	496	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36218	Quartz	Simba	497	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36219	Quartz	Simba	498	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36220	Quartz	Simba	499	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36221	Quartz	Simba	500	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36222	Quartz	Simba	501	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36223	Quartz	Simba	502	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36224	Quartz	Simba	503	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36225	Quartz	Simba	504	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36226	Quartz	Simba	505	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36227	Quartz	Simba	506	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36228	Quartz	Simba	507	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36229	Quartz	Simba	508	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36230	Quartz	Simba	509	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36231	Quartz	Simba	510	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36232	Quartz	Simba	511	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36233	Quartz	Simba	512	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36234	Quartz	Simba	513	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36235	Quartz	Simba	514	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36236	Quartz	Simba	515	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36237	Quartz	Simba	516	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36238	Quartz	Simba	517	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36239	Quartz	Simba	518	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36240	Quartz	Simba	519	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36241	Quartz	Simba	520	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36242	Quartz	Simba	521	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36243	Quartz	Simba	522	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36244	Quartz	Simba	523	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36245	Quartz	Simba	524	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36246	Quartz	Simba	525	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36247	Quartz	Simba	526	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36248	Quartz	Simba	527	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36249	Quartz	Simba	528	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36250	Quartz	Simba	529	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36251	Quartz	Simba	530	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36252	Quartz	Simba	531	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36253	Quartz	Simba	532	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36254	Quartz	Simba	533	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36255	Quartz	Simba	534	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36256	Quartz	Simba	535	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36257	Quartz	Simba	536	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36258	Quartz	Simba	551	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36259	Quartz	Simba	552	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36260	Quartz	Simba	553	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36261	Quartz	Simba	554	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36262	Quartz	Simba	555	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36263	Quartz	Simba	556	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36264	Quartz	Simba	557	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36265	Quartz	Simba	558	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012

YC36266	Quartz	Simba	559	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36267	Quartz	Simba	560	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36268	Quartz	Simba	561	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36269	Quartz	Simba	562	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36270	Quartz	Simba	563	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36271	Quartz	Simba	564	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36272	Quartz	Simba	565	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36273	Quartz	Simba	566	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36274	Quartz	Simba	567	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36275	Quartz	Simba	568	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36276	Quartz	Simba	569	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36277	Quartz	Simba	570	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36278	Quartz	Simba	571	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36279	Quartz	Simba	572	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36280	Quartz	Simba	573	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36281	Quartz	Simba	574	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36282	Quartz	Simba	575	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36283	Quartz	Simba	576	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36284	Quartz	Simba	577	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36285	Quartz	Simba	578	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC62993	Quartz	Trina	1	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62994	Quartz	Trina	2	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62995	Quartz	Trina	3	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62996	Quartz	Trina	4	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62997	Quartz	Trina	5	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62998	Quartz	Trina	6	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62999	Quartz	Trina	7	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63000	Quartz	Trina	8	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63001	Quartz	Trina	9	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63002	Quartz	Trina	10	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63003	Quartz	Trina	11	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63004	Quartz	Trina	12	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63005	Quartz	Trina	13	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63006	Quartz	Trina	14	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63007	Quartz	Trina	15	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63008	Quartz	Trina	16	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63009	Quartz	Trina	17	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63010	Quartz	Trina	18	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63011	Quartz	Trina	19	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63012	Quartz	Trina	20	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63013	Quartz	Trina	21	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63014	Quartz	Trina	22	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63015	Quartz	Trina	23	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63016	Quartz	Trina	24	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63017	Quartz	Trina	25	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63018	Quartz	Trina	26	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63019	Quartz	Trina	27	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63020	Quartz	Trina	28	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009

Appendix C

Rock and Bulk Sample Analyses

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

8V-2998-RA1

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following assay of 10 rock samples submitted Aug-15-08

Sample Name	-150 Au g/tonne	+150 Au g/tonne
816979	0.29	2.07
816979	0.24	1.78
816979	0.28	0.95
816979	0.20	1.40
816979	0.20	1.78
816979	0.27	2.28
816979	0.22	0.92
816979	0.24	2.35
816979	0.24	
816979	0.33	
*0211	2.09	2.19
*BLANK	<0.01	<0.01

Certified by ____________________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

8V-2998-RA2

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following assay of 20 pulp samples submitted Aug-15-08

Sample Name	-150 Au g/tonne	+150 Au g/tonne	+150 Au
816980	0.04	0.01	0.01
816980	0.04	0.01	0.01
816980	0.06	0.01	0.01
816980	0.04	0.01	0.01
816980	0.04	0.08	0.01
816980	0.04	0.01	0.01
816980	0.04	0.12	0.01
816980	0.04	0.01	0.07
816980	0.04	0.32	0.01
816980	0.03	0.01	0.01
816980	0.03	0.01	0.01
816980	0.03	0.01	0.18
816980	0.03	0.01	0.04
816980	0.03	0.12	0.01
816980	0.02	0.01	
816980	0.04	0.02	
816980	0.03	0.16	
816980	0.04	0.01	
816980	0.04	0.01	
816980	0.03	0.01	
*0211	2.19	2.20	
*Blank	<0.01	<0.01	

Certified by ____________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Metallic Assay Certificate

8V-2998-RM1

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

Oct-07-08

We *hereby certify* the following analysis of 2 rock samples submitted Aug-15-08

Sample Name	WtTotal g	Wt+150 g	+150Au mg	-150Au g/tonne	Metallic Au g/tonne	Net Au g/tonne
816979	29100	219.2	0.370	0.25	0.01	0.26

Certified by ____________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Metallic Assay Certificate

8V-2998-RM2

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

Oct-07-08

We *hereby certify* the following analysis of 20 core samples submitted Aug-15-08

Sample Name	WtTotal g	Wt+150 g	+150Au mg	-150Au g/tonne	Metallic Au g/tonne	Net Au g/tonne
816980	120400	1021.8	0.041	0.04	<0.01	0.04

Certified by ______________

AcmeLabs ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Submitted By:	Rita Chow
Receiving Lab:	Canada-Vancouver
Received:	August 15, 2008
Report Date:	September 30, 2008
Page:	1 of 5

CERTIFICATE OF ANALYSIS VAN08008297.1

CLIENT JOB INFORMATION

Project:	None Given
Shipment ID:	
P.O. Number	
Number of Samples:	100

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
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
M150	22	Crush, Pulverize and Sieve 500g, save +150 and -150 mes		
Split +150 mesh	22	Analysis sample split/packet		
Split -150	22	Analysis sample split/packet		
R150	78	Crush, split and pulverize rock to 200 mesh		
G6.ME	22	Metallics Fire Assay	30	Completed
4A	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
7TD	99	4 Acid digestion ICP-ES analysis.	0.5	Completed

ADDITIONAL COMMENTS

Invoice To: Logan Resources Ltd.
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN

AcmeLabs ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816938	Rock	3.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816939	Rock	0.70	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816940	Rock	3.78	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816941	Rock	1.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816942	Rock	1.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816943	Rock	1.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816944	Rock	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816945	Rock	1.91	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816946	Rock	0.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816947	Rock	0.57	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816948	Rock	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816956	Rock	4.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816957	Rock	2.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816958	Rock	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816959	Rock	1.62	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816960	Rock	1.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816961	Rock	1.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816962	Rock	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816963	Rock	0.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816964	Rock	1.18	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816985	Rock	1.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816986	Rock	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816987	Rock	2.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817060	Rock	2.35	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817061	Rock	1.92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817062	Rock	3.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817063	Rock	2.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816951	Rock	2.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816952	Rock	1.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816953	Rock	2.41	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816938	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.016	<0.02	0.02	<2	0.014	0.004	0.26	7.97	<0.02	<0.01	<0.001
816939	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.02	<2	0.022	0.006	0.28	9.23	<0.02	<0.01	<0.001
816940	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.021	<0.02	0.01	<2	0.014	0.004	0.25	8.07	<0.02	<0.01	<0.001
816941	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.016	<0.02	0.02	2	0.018	0.005	0.23	10.60	<0.02	<0.01	<0.001
816942	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	<2	0.014	0.004	0.24	7.99	<0.02	<0.01	<0.001
816943	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.146	<0.02	0.02	<2	0.012	0.004	0.23	8.69	<0.02	<0.01	<0.001
816944	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.143	<0.02	0.03	2	0.018	0.007	0.36	12.05	<0.02	<0.01	<0.001
816945	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	0.01	<2	0.014	0.004	0.29	7.54	<0.02	<0.01	<0.001
816946	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.629	<0.02	0.02	4	0.014	0.005	0.31	7.58	<0.02	<0.01	<0.001
816947	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.141	<0.02	0.02	<2	0.016	0.005	0.26	9.04	<0.02	<0.01	<0.001
816948	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.02	<2	0.021	0.005	0.33	10.13	<0.02	<0.01	<0.001
816956	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	0.02	<2	0.020	0.005	0.33	8.52	<0.02	<0.01	<0.001
816957	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.02	<2	0.017	0.005	0.31	9.22	<0.02	<0.01	<0.001
816958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	2	0.019	0.005	0.30	10.03	<0.02	<0.01	<0.001
816959	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.012	<0.02	<0.01	<2	0.010	0.003	0.25	5.65	<0.02	<0.01	<0.001
816960	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	<2	0.021	0.005	0.35	10.00	<0.02	<0.01	<0.001
816961	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.03	<2	0.035	0.008	0.33	13.99	<0.02	<0.01	<0.001
816962	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.04	<2	0.023	0.009	0.38	15.98	<0.02	<0.01	<0.001
816963	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.03	<2	0.024	0.007	0.29	13.58	<0.02	<0.01	<0.001
816964	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.013	<0.02	0.04	<2	0.032	0.009	0.37	15.34	<0.02	<0.01	<0.001
816985	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	<0.01	<2	0.001	<0.001	0.03	1.48	<0.02	<0.01	<0.001
816986	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.053	<0.02	<0.01	<2	0.004	0.003	0.47	17.83	<0.02	<0.01	<0.001
816987	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.219	<0.02	0.02	<2	0.017	0.005	0.31	9.30	<0.02	<0.01	<0.001
817060	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.053	<0.02	<0.01	<2	0.005	0.017	0.35	18.16	0.50	0.01	<0.001
817061	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.050	<0.02	<0.01	<2	0.005	0.003	0.40	17.18	<0.02	0.01	<0.001
817062	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.119	<0.02	<0.01	<2	0.012	0.008	0.34	28.28	0.05	<0.01	<0.001
817063	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	<0.01	<2	0.001	0.002	0.12	5.07	<0.02	0.07	<0.001
816951	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.017	<0.02	<0.01	<2	0.002	<0.001	0.18	8.11	<0.02	0.06	<0.001
816952	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.270	<0.02	0.02	<2	0.024	0.017	0.09	37.75	0.10	<0.01	<0.001
816953	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.764	<0.02	0.02	97	<0.001	<0.001	0.13	3.01	0.02	<0.01	<0.001

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Client: **Logan Resources Ltd.**
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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816938	Rock	<0.01	<0.01	6.58	0.22	0.014	3.84	4.75	<0.01	0.02	<0.01
816939	Rock	<0.01	<0.01	8.61	0.39	0.017	4.56	5.37	<0.01	<0.01	<0.01
816940	Rock	<0.01	<0.01	8.75	0.29	0.012	3.77	4.52	0.01	<0.01	<0.01
816941	Rock	<0.01	<0.01	5.90	0.37	0.016	4.63	5.59	0.01	0.01	<0.01
816942	Rock	<0.01	<0.01	8.92	0.29	0.013	3.88	4.59	<0.01	<0.01	<0.01
816943	Rock	<0.01	<0.01	3.98	0.22	0.012	3.82	6.18	0.13	0.76	<0.01
816944	Rock	<0.01	<0.01	5.66	0.27	0.014	6.13	9.97	0.12	1.31	<0.01
816945	Rock	<0.01	<0.01	8.24	0.27	0.012	3.54	4.16	<0.01	0.02	<0.01
816946	Rock	<0.01	<0.01	7.29	0.23	0.011	3.90	5.17	0.06	0.15	<0.01
816947	Rock	<0.01	<0.01	4.80	0.30	0.014	4.24	6.37	0.20	0.60	<0.01
816948	Rock	<0.01	<0.01	9.29	0.39	0.018	4.58	5.43	<0.01	0.01	<0.01
816956	Rock	<0.01	<0.01	8.67	0.34	0.016	4.11	5.06	<0.01	0.02	<0.01
816957	Rock	<0.01	<0.01	7.44	0.34	0.015	4.29	5.27	<0.01	<0.01	<0.01
816958	Rock	<0.01	<0.01	5.95	0.40	0.017	5.22	6.01	0.01	<0.01	<0.01
816959	Rock	<0.01	<0.01	7.44	0.20	0.009	2.64	3.14	<0.01	<0.01	<0.01
816960	Rock	<0.01	<0.01	9.10	0.39	0.015	4.53	5.51	<0.01	0.01	<0.01
816961	Rock	<0.01	<0.01	5.75	0.54	0.026	6.25	7.46	<0.01	0.02	<0.01
816962	Rock	<0.01	<0.01	2.04	0.17	0.010	8.28	9.95	<0.01	0.03	<0.01
816963	Rock	<0.01	<0.01	3.79	0.42	0.021	6.04	10.78	0.08	1.72	<0.01
816964	Rock	<0.01	<0.01	5.24	0.64	0.025	7.41	9.34	<0.01	0.03	<0.01
816985	Rock	<0.01	<0.01	0.49	0.02	0.002	0.25	2.75	1.11	0.59	<0.01
816986	Rock	<0.01	<0.01	11.02	0.10	0.003	1.92	0.91	0.08	0.11	<0.01
816987	Rock	<0.01	<0.01	5.95	0.31	0.016	4.54	5.90	0.05	0.10	<0.01
817060	Rock	<0.01	0.38	12.05	0.16	0.003	0.84	4.23	0.50	0.25	<0.01
817061	Rock	<0.01	0.03	14.16	0.06	0.002	0.62	4.31	0.70	0.22	<0.01
817062	Rock	<0.01	0.35	8.93	0.51	0.003	1.12	1.05	0.03	0.03	<0.01
817063	Rock	<0.01	<0.01	4.17	0.16	0.003	1.61	6.85	1.31	4.42	<0.01
816951	Rock	<0.01	<0.01	11.62	0.03	0.006	0.73	7.01	1.47	1.12	<0.01
816952	Rock	<0.01	0.21	5.63	0.11	0.002	0.30	1.60	0.16	0.16	<0.01
816953	Rock	0.02	<0.01	0.13	<0.01	0.002	0.02	0.36	0.02	0.14	<0.01

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CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816954	Rock	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816955	Rock	2.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816949	Rock	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816901	Rock	1.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816902	Rock	2.57	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816903	Rock	2.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816904	Rock	3.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816905	Rock	3.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816910	Rock	1.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816911	Rock	1.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816912	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816965	Rock	1.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816966	Rock	1.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816967	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816968	Rock	1.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816969	Rock	1.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816970	Rock	0.79	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816971	Rock	1.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816972	Rock	1.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816973	Rock	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816974	Rock	1.75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816975	Rock	1.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816976	Rock	2.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816921	Rock	1.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816922	Rock	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816923	Rock	1.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816927	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816931	Rock	1.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816935	Rock	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816936	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816954	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.002	0.001	0.03	3.86	<0.02	<0.01	<0.001
816955	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.001	<0.001	0.02	2.20	0.04	0.01	<0.001
816949	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	0.03	<2	0.029	0.008	0.24	15.68	<0.02	<0.01	<0.001
816901	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	<0.001	<0.001	0.01	4.38	<0.02	<0.01	<0.001
816902	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.003	<0.02	<0.01	<2	<0.001	<0.001	0.04	3.36	<0.02	0.01	<0.001
816903	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	0.01	<2	<0.001	<0.001	0.01	6.44	<0.02	<0.01	<0.001
816904	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	<0.001	<0.001	0.02	7.36	<0.02	<0.01	<0.001
816905	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.01	3.21	<0.02	<0.01	<0.001
816910	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.94	<0.02	<0.01	<0.001
816911	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	<0.001	0.03	0.02	<2	<0.001	<0.001	0.09	2.75	<0.02	0.02	<0.001
816912	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.012	<0.02	<0.01	<2	0.003	<0.001	<0.01	0.88	<0.02	<0.01	<0.001
816965	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.005	<0.02	<0.01	<2	0.001	0.002	0.09	4.71	<0.02	0.09	<0.001
816966	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.001	0.002	0.11	4.90	<0.02	0.08	<0.001
816967	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	<0.001	0.002	0.11	4.84	<0.02	0.09	<0.001
816968	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.062	<0.02	<0.01	<2	0.007	0.004	0.20	22.90	<0.02	0.01	<0.001
816969	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.115	<0.02	<0.01	<2	0.011	0.006	0.18	23.19	<0.02	0.01	<0.001
816970	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.019	<0.02	<0.01	<2	0.001	0.002	0.13	5.74	<0.02	0.07	<0.001
816971	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.01	<2	0.002	0.002	0.31	10.84	<0.02	0.04	<0.001
816972	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	0.01	<2	0.002	<0.001	0.36	9.62	<0.02	0.05	<0.001
816973	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.043	<0.02	<0.01	<2	0.006	0.003	0.30	13.56	0.03	0.05	<0.001
816974	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.137	<0.02	<0.01	<2	0.020	0.016	0.05	39.55	0.15	<0.01	<0.001
816975	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.025	<0.02	<0.01	<2	0.002	0.005	0.54	11.35	0.10	0.02	<0.001
816976	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.115	<0.02	<0.01	<2	0.012	0.008	0.36	29.20	0.04	<0.01	<0.001
816921	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.393	<0.02	0.02	<2	0.013	0.005	0.27	8.64	<0.02	<0.01	<0.001
816922	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.506	<0.02	0.02	<2	0.014	0.004	0.33	7.07	<0.02	<0.01	<0.001
816923	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.013	<0.02	0.03	<2	0.024	0.008	0.35	13.40	<0.02	<0.01	<0.001
816927	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.225	<0.02	0.02	<2	0.007	0.005	1.14	6.99	<0.02	<0.01	<0.001
816931	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.015	<0.02	0.02	<2	0.016	0.005	0.24	9.25	<0.02	<0.01	<0.001
816935	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.174	<0.02	0.03	5	0.018	0.008	0.33	13.03	<0.02	0.02	<0.001
816936	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.231	<0.02	0.03	2	0.017	0.007	0.28	12.32	<0.02	<0.01	<0.001

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Client: Logan Resources Ltd.
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816954	Rock	<0.01	<0.01	0.30	0.01	0.003	0.47	5.46	1.30	1.38	<0.01
816955	Rock	<0.01	<0.01	1.47	0.01	0.003	0.44	4.66	1.25	1.40	<0.01
816949	Rock	<0.01	<0.01	0.05	<0.01	0.005	10.50	10.57	<0.01	<0.01	<0.01
816901	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.02	6.53	3.00	6.17	<0.01
816902	Rock	<0.01	<0.01	0.07	<0.01	<0.001	0.03	6.72	4.32	4.96	<0.01
816903	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.02	6.41	3.70	5.23	<0.01
816904	Rock	<0.01	<0.01	<0.01	0.02	<0.001	0.01	6.12	2.91	5.73	<0.01
816905	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.03	6.31	3.29	6.55	<0.01
816910	Rock	<0.01	<0.01	0.10	0.06	<0.001	0.14	5.52	0.34	5.99	<0.01
816911	Rock	<0.01	<0.01	0.40	0.02	<0.001	0.04	7.10	4.40	5.50	<0.01
816912	Rock	<0.01	<0.01	0.03	0.06	0.010	0.05	0.81	0.02	0.27	<0.01
816965	Rock	<0.01	<0.01	4.27	0.16	0.003	1.62	6.86	1.44	4.00	<0.01
816966	Rock	<0.01	<0.01	4.24	0.16	0.003	1.64	6.46	1.35	3.85	<0.01
816967	Rock	<0.01	<0.01	4.58	0.18	0.002	1.71	7.16	1.35	4.13	<0.01
816968	Rock	<0.01	<0.01	6.90	<0.01	0.003	0.65	4.45	1.01	1.06	<0.01
816969	Rock	<0.01	0.09	5.69	<0.01	0.003	0.40	4.55	0.98	0.89	<0.01
816970	Rock	<0.01	<0.01	6.01	0.19	0.003	1.73	6.75	1.22	4.43	<0.01
816971	Rock	<0.01	<0.01	10.40	0.16	0.002	1.73	6.65	1.23	0.50	<0.01
816972	Rock	<0.01	<0.01	11.59	0.06	0.005	0.97	7.31	0.79	1.37	<0.01
816973	Rock	<0.01	0.05	12.60	0.07	0.005	0.51	6.62	0.31	0.58	<0.01
816974	Rock	<0.01	0.37	1.76	0.02	0.001	0.36	1.05	0.08	0.13	<0.01
816975	Rock	<0.01	0.14	15.46	0.15	0.003	0.53	6.79	0.71	0.45	<0.01
816976	Rock	<0.01	0.37	9.05	0.50	0.002	1.12	0.68	0.02	<0.01	<0.01
816921	Rock	<0.01	<0.01	4.74	0.22	0.012	4.14	6.09	0.26	0.27	<0.01
816922	Rock	<0.01	<0.01	9.40	0.24	0.012	3.58	4.54	0.02	0.05	<0.01
816923	Rock	<0.01	<0.01	6.08	0.47	0.024	6.17	7.38	<0.01	0.08	<0.01
816927	Rock	<0.01	<0.01	0.38	0.06	0.008	3.54	7.82	1.16	1.36	<0.01
816931	Rock	<0.01	<0.01	5.69	0.30	0.015	4.25	5.02	<0.01	<0.01	<0.01
816935	Rock	<0.01	<0.01	5.34	0.09	0.019	5.12	8.37	<0.01	0.10	<0.01
816936	Rock	<0.01	<0.01	2.62	0.15	0.019	5.70	10.57	0.07	1.97	<0.01

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	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816906	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816907	Rock	1.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816908	Rock	3.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817051	Rock	2.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817052	Rock	1.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817053	Rock	0.93	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817054	Rock	1.76	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817055	Rock	2.26	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817056	Rock	1.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817057	Rock	1.67	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817058	Rock	1.95	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817059	Rock	3.77	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816913	Rock	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816914	Rock	0.96	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816915	Rock	0.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816916	Rock	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816917	Rock	0.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816918	Rock	1.04	524.9	0.24	22.26	<0.005	0.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816920	Rock	0.52	500	<0.01	22.36	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816924	Rock	1.74	459.7	0.21	18.69	<0.005	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816925	Rock	2.01	502	1.42	20.58	0.622	2.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816926	Rock	2.11	533.3	2.64	22.96	0.911	4.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816928	Rock	1.35	593.8	0.03	24.97	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816929	Rock	1.02	525.8	<0.01	19.29	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816930	Rock	1.35	598.3	<0.01	25.26	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816932	Rock	1.51	539.8	0.13	25.17	<0.005	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816933	Rock	1.49	553.4	0.03	19.50	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816934	Rock	0.91	463.7	0.03	23.41	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816937	Rock	1.75	444.7	0.31	19.21	0.122	0.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816909	Rock	2.06	488.1	0.20	21.63	<0.005	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816906	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	<0.01	3	0.014	0.004	0.13	6.50	<0.02	<0.01	<0.001
816907	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	<0.01	<2	0.007	0.003	0.14	7.56	<0.02	<0.01	<0.001
816908	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	2	0.012	0.004	0.13	6.06	<0.02	<0.01	<0.001
817051	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	0.004	0.002	0.14	5.92	<0.02	<0.01	<0.001
817052	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	0.01	3	0.004	0.003	0.17	5.80	<0.02	0.01	<0.001
817053	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	0.01	<2	0.005	0.003	0.14	7.44	<0.02	0.01	<0.001
817054	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	<0.01	<2	0.003	0.002	0.08	4.76	<0.02	<0.01	<0.001
817055	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	0.01	<2	0.004	0.003	0.19	6.01	<0.02	0.02	<0.001
817056	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.18	5.74	<0.02	0.02	<0.001
817057	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	<0.01	<2	0.003	0.002	0.16	5.42	<0.02	0.01	<0.001
817058	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	0.01	<2	0.005	0.003	0.11	6.64	<0.02	0.02	<0.001
817059	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	0.004	0.002	0.15	5.68	<0.02	0.02	<0.001
816913	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	0.01	<2	0.004	0.003	0.11	5.92	<0.02	<0.01	<0.001
816914	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.004	0.003	0.13	5.81	<0.02	0.01	<0.001
816915	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.13	5.76	<0.02	<0.01	<0.001
816916	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	<0.01	<2	0.004	0.003	0.18	5.59	<0.02	0.01	<0.001
816917	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.013	<0.02	<0.01	<2	0.004	0.002	0.11	6.09	<0.02	<0.01	<0.001
816918	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.660	<0.02	<0.01	<2	0.003	0.001	0.07	3.12	<0.02	<0.01	<0.001
816920	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	<0.01	<2	0.001	<0.001	0.10	1.03	<0.02	<0.01	<0.001
816924	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.045	<0.02	<0.01	<2	0.002	<0.001	0.10	1.91	<0.02	<0.01	<0.001
816925	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.402	<0.02	<0.01	<2	<0.001	<0.001	0.07	0.67	<0.02	<0.01	<0.001
816926	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.230	<0.02	<0.01	<2	<0.001	<0.001	0.10	0.74	<0.02	<0.01	<0.001
816928	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.168	<0.02	<0.01	<2	<0.001	<0.001	0.10	0.72	<0.02	<0.01	<0.001
816929	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.09	0.46	<0.02	<0.01	<0.001
816930	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.06	0.37	<0.02	<0.01	<0.001
816932	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.274	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.78	<0.02	<0.01	<0.001
816933	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.055	<0.02	<0.01	<2	0.002	<0.001	0.22	1.90	<0.02	0.01	<0.001
816934	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.068	<0.02	<0.01	<2	<0.001	<0.001	0.02	0.72	<0.02	<0.01	<0.001
816937	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	1.861	<0.02	<0.01	5	<0.001	<0.001	0.02	0.51	<0.02	<0.01	<0.001
816909	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.056	<0.02	<0.01	<2	0.003	<0.001	0.25	2.10	<0.02	<0.01	<0.001

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816906	Rock	<0.01	<0.01	9.40	0.04	0.030	3.38	6.77	0.87	0.02	<0.01
816907	Rock	<0.01	<0.01	5.34	0.03	0.035	4.36	7.34	3.08	0.04	<0.01
816908	Rock	<0.01	<0.01	10.26	0.03	0.027	2.89	5.89	0.08	0.12	<0.01
817051	Rock	<0.01	<0.01	2.18	0.20	0.005	1.33	7.40	1.48	2.42	<0.01
817052	Rock	<0.01	<0.01	2.07	0.08	0.005	1.68	7.02	1.83	1.67	<0.01
817053	Rock	<0.01	<0.01	1.12	0.03	0.006	1.99	7.87	2.11	1.83	<0.01
817054	Rock	<0.01	<0.01	0.76	0.06	0.005	1.34	6.67	1.03	2.50	<0.01
817055	Rock	<0.01	<0.01	3.17	0.08	0.005	1.63	6.93	1.88	1.63	<0.01
817056	Rock	<0.01	<0.01	2.60	0.10	0.005	1.42	6.67	1.53	1.75	<0.01
817057	Rock	<0.01	<0.01	2.18	0.10	0.004	1.24	6.46	1.33	1.95	<0.01
817058	Rock	<0.01	<0.01	1.17	0.05	0.005	1.53	7.37	1.65	2.17	<0.01
817059	Rock	<0.01	<0.01	3.16	0.24	0.004	1.25	6.87	1.52	1.93	<0.01
816913	Rock	<0.01	<0.01	1.16	0.08	0.004	1.63	7.40	1.55	2.33	<0.01
816914	Rock	<0.01	<0.01	1.54	0.07	0.005	1.46	7.21	1.67	2.09	<0.01
816915	Rock	<0.01	<0.01	1.72	0.06	0.004	1.37	6.92	1.61	2.04	<0.01
816916	Rock	<0.01	<0.01	3.11	0.08	0.004	1.46	6.69	1.61	1.84	<0.01
816917	Rock	<0.01	<0.01	0.77	0.03	0.004	1.51	7.09	1.55	2.21	<0.01
816918	Rock	<0.01	<0.01	1.19	0.03	0.005	0.96	2.90	0.10	0.85	<0.01
816920	Rock	<0.01	<0.01	4.74	0.02	0.002	0.36	0.42	<0.01	0.01	<0.01
816924	Rock	<0.01	<0.01	6.13	0.08	0.002	0.99	1.15	<0.01	0.02	<0.01
816925	Rock	<0.01	<0.01	3.69	0.02	0.002	0.13	0.18	<0.01	<0.01	<0.01
816926	Rock	<0.01	<0.01	5.12	0.03	<0.001	0.13	0.24	<0.01	0.01	<0.01
816928	Rock	<0.01	<0.01	0.07	<0.01	<0.001	0.11	0.40	0.02	0.13	<0.01
816929	Rock	<0.01	<0.01	4.95	<0.01	<0.001	0.01	0.02	<0.01	<0.01	<0.01
816930	Rock	<0.01	<0.01	3.16	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
816932	Rock	<0.01	<0.01	0.52	0.01	0.001	0.16	0.22	<0.01	<0.01	<0.01
816933	Rock	<0.01	<0.01	9.54	0.04	0.002	0.78	1.20	<0.01	0.13	<0.01
816934	Rock	<0.01	<0.01	0.40	0.02	<0.001	0.10	0.17	<0.01	0.01	<0.01
816937	Rock	<0.01	<0.01	0.01	<0.01	<0.001	<0.01	0.04	<0.01	0.02	<0.01
816909	Rock	<0.01	<0.01	8.82	0.03	0.003	0.75	1.48	0.05	0.18	<0.01

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	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816977	Rock	1.39	536.2	1.87	25.84	1.479	4.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816978	Rock	1.64	427.9	1.29	24.23	0.734	2.93	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816981	Rock	0.66	432.7	0.11	20.35	<0.005	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816982	Rock	2.08	511.8	0.49	18.81	0.35	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816983	Rock	1.12	526.2	0.02	24.04	<0.005	0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816984	Rock	0.94	526.8	0.30	26.42	0.111	0.49	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816988	Rock	1.17	561.3	0.10	26.10	0.087	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816989	Rock	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	48.76	12.96	6.85	4.96	8.34	1.50	4.01	0.58	0.30	0.23	0.036	1505	32	808
816990	Rock	2.38	554.8	1.36	29.83	0.702	2.55	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816991	Rock	1.88	486.1	1.84	20.06	0.608	3.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816977	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.337	<0.02	<0.01	<2	<0.001	<0.001	0.09	1.01	<0.02	<0.01	<0.001
816978	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.240	<0.02	<0.01	<2	0.001	<0.001	0.08	1.32	<0.02	<0.01	<0.001
816981	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.205	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.85	<0.02	<0.01	<0.001
816982	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.096	<0.02	<0.01	<2	<0.001	<0.001	0.08	0.86	<0.02	<0.01	<0.001
816983	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.118	<0.02	<0.01	<2	<0.001	<0.001	0.08	0.57	<0.02	<0.01	<0.001
816984	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.018	<0.02	<0.01	<2	<0.001	<0.001	0.04	0.69	<0.02	<0.01	<0.001
816988	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.246	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.84	<0.02	<0.01	<0.001
816989	Rock	224	25	10	20	10.9	99.77	2.83	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816990	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.348	<0.02	<0.01	<2	<0.001	<0.001	0.15	0.94	<0.02	<0.01	<0.001
816991	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.351	<0.02	<0.01	<2	<0.001	<0.001	0.12	0.67	<0.02	<0.01	<0.001

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Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816977	Rock	<0.01	<0.01	4.07	0.02	0.002	0.30	0.40	<0.01	<0.01	<0.01
816978	Rock	<0.01	<0.01	3.36	0.02	0.001	0.43	0.53	<0.01	<0.01	<0.01
816981	Rock	<0.01	<0.01	0.76	0.02	<0.001	0.16	0.23	<0.01	0.01	<0.01
816982	Rock	<0.01	<0.01	4.01	0.03	<0.001	0.18	0.28	<0.01	0.01	<0.01
816983	Rock	<0.01	<0.01	0.04	<0.01	<0.001	0.04	0.29	0.02	0.12	<0.01
816984	Rock	<0.01	<0.01	1.85	<0.01	<0.001	0.15	0.16	<0.01	<0.01	<0.01
816988	Rock	<0.01	<0.01	0.17	0.01	<0.001	0.25	0.32	<0.01	0.02	<0.01
816989	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816990	Rock	<0.01	<0.01	7.83	0.02	<0.001	0.27	0.38	<0.01	<0.01	<0.01
816991	Rock	<0.01	<0.01	6.65	0.02	<0.001	0.12	0.18	<0.01	<0.01	<0.01

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QUALITY CONTROL REPORT VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
Pulp Duplicates																					
816958	Rock	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816958	QC																				
816912	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816912	QC																				
816906	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816906	QC																				
Reference Materials																					
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OXH55	Standard			1.31																	
STD OXH55	Standard			1.34																	
STD OXH55	Standard			1.29																	
STD OXK69	Standard																				
STD OXK69	Standard			3.72																	
STD OXK69	Standard			3.57																	
STD OXP39	Standard				30.01	0.451															
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SO-18	Standard							58.09	14.08	7.63	3.34	6.41	3.69	2.13	0.69	0.83	0.39	0.544	476	54	399
STD SO-18	Standard							58.11	14.06	7.60	3.33	6.38	3.71	2.14	0.69	0.83	0.39	0.546	470	37	397
STD SQ18	Standard				30.00	0.869															
STD SF-3T Expected																					

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QUALITY CONTROL REPORT VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
Pulp Duplicates																					
816958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	2	0.019	0.005	0.30	10.03	<0.02	<0.01	<0.001
REP 816958	QC									<0.001	0.007	<0.02	0.02	<2	0.019	0.005	0.30	9.72	<0.02	<0.01	<0.001
816912	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.012	<0.02	<0.01	<2	0.003	<0.001	<0.01	0.88	<0.02	<0.01	<0.001
REP 816912	QC									0.002	0.012	<0.02	<0.01	3	0.003	<0.001	<0.01	0.85	<0.02	<0.01	<0.001
816906	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	<0.01	3	0.014	0.004	0.13	6.50	<0.02	<0.01	<0.001
REP 816906	QC									<0.001	0.009	<0.02	<0.01	<2	0.014	0.004	0.14	6.65	<0.02	<0.01	<0.001
Reference Materials																					
STD CSC	Standard							3.15	4.20												
STD OREAS76A	Standard							0.16	17.76												
STD OXH55	Standard																				
STD OXH55	Standard																				
STD OXH55	Standard																				
STD OXK69	Standard																				
STD OXK69	Standard																				
STD OXK69	Standard																				
STD OXP39	Standard																				
STD SF-3T	Standard									0.031	0.769	0.93	1.06	53	0.354	0.018	0.43	8.13	<0.02	0.04	0.005
STD SF-3T	Standard									0.032	0.796	0.95	1.07	52	0.354	0.018	0.44	8.30	<0.02	0.04	0.005
STD SF-3T	Standard									0.031	0.781	0.92	1.07	51	0.346	0.018	0.42	8.08	<0.02	0.04	0.004
STD SF-3T	Standard									0.031	0.782	0.92	1.07	53	0.346	0.017	0.42	8.04	<0.02	0.04	0.004
STD SF-3T	Standard									0.032	0.777	0.94	1.09	51	0.352	0.018	0.43	8.22	<0.02	0.04	0.005
STD SF-3T	Standard									0.032	0.784	0.95	1.11	53	0.351	0.018	0.44	8.21	<0.02	0.04	0.005
STD SF-3T	Standard									0.031	0.771	0.93	1.05	53	0.351	0.018	0.43	8.13	<0.02	0.04	0.004
STD SF-3T	Standard									0.032	0.800	0.95	1.07	54	0.360	0.019	0.44	8.38	<0.02	0.04	0.004
STD SO-18	Standard	301	32	13	25	1.9	99.88														
STD SO-18	Standard	298	32	15	25	1.9	99.84														
STD SQ18	Standard																				
STD SF-3T Expected										0.032	0.7723	0.961	1.0672	52	0.35	0.0181	0.432	8.33	0.004	0.044	0.00475

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Project: None Given
Report Date: September 30, 2008

QUALITY CONTROL REPORT VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
Pulp Duplicates											
816958	Rock	<0.01	<0.01	5.95	0.40	0.017	5.22	6.01	0.01	<0.01	<0.01
REP 816958	QC	<0.01	<0.01	5.92	0.41	0.017	5.16	6.01	0.01	<0.01	<0.01
816912	Rock	<0.01	<0.01	0.03	0.06	0.010	0.05	0.81	0.02	0.27	<0.01
REP 816912	QC	<0.01	<0.01	0.04	0.06	0.009	0.04	0.77	0.03	0.26	<0.01
816906	Rock	<0.01	<0.01	9.40	0.04	0.030	3.38	6.77	0.87	0.02	<0.01
REP 816906	QC	<0.01	<0.01	9.74	0.04	0.029	3.48	7.09	0.90	0.02	<0.01
Reference Materials											
STD CSC	Standard										
STD OREAS76A	Standard										
STD OXH55	Standard										
STD OXH55	Standard										
STD OXH55	Standard										
STD OXK69	Standard										
STD OXK69	Standard										
STD OXK69	Standard										
STD OXP39	Standard										
STD SF-3T	Standard	<0.01	<0.01	4.12	0.06	0.020	4.61	5.30	2.08	2.47	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.15	0.06	0.021	4.65	5.40	2.08	2.49	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.02	0.06	0.020	4.53	5.34	2.04	2.46	<0.01
STD SF-3T	Standard	<0.01	<0.01	3.99	0.05	0.020	4.52	5.27	2.01	2.44	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.07	0.05	0.020	4.63	5.43	2.05	2.43	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.10	0.06	0.021	4.68	5.48	2.08	2.46	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.12	0.06	0.017	4.64	5.32	2.05	2.48	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.21	0.06	0.017	4.72	5.51	2.09	2.53	<0.01
STD SO-18	Standard										
STD SO-18	Standard										
STD SQ18	Standard										
STD SF-3T Expected		0.00111	0.00048	4.1	0.06	0.02074	4.67	5.43	2.06	2.47	0.00043

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		WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected								58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank							<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank				30.00	<0.005															
BLK	Blank				30.00	<0.005															
Prep Wash																					
G1	Prep Blank	<0.01	541	<0.01	29.32	<0.005	<0.01	67.90	15.36	3.52	1.10	3.66	3.41	3.47	0.38	0.21	0.09	0.002	888	<20	748
G1	Prep Blank	<0.01	543	<0.01	22.49	<0.005	<0.01	67.15	15.44	3.50	1.08	3.76	3.44	3.45	0.39	0.21	0.09	0.002	898	<20	752

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		4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
		Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
		5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
STD CSC Expected								3.13	4.19												
STD OREAS76A Expected								0.16	18												
STD SO-18 Expected		280	33	21	25																
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank							<0.02	<0.02												
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G1	Prep Blank	152	18	16	6	1.2	99.94	0.04	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.57	<0.02	0.07	<0.001

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1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

QUALITY CONTROL REPORT VAN08008297.1

		7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
		Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
		%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
STD CSC Expected											
STD OREAS76A Expected											
STD SO-18 Expected											
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
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Appendix D

Report on Investigation of Selected Vein Systems, Shell Creek Property, Yukon

by Derek Thorkelson, Ph.D.

Report on Investigation of Selected Vein Systems, Shell Creek Property, Yukon

by

Derek Thorkelson, PhD

for

Logan Resources

October 31, 2008

---

1. Background

On July 31, 2008, I accompanied Daithi MacGearailt and two other staff of Logan Resources to a rock exposure located on the southwestern part of the Shell Creek claim block, overlooking the Yukon River (approximate UTM: 525177E 7163172N). The purpose was to examine the veins and structures in the mafic volcanic unit which cores the Shell Creek anticline. We were taken to the exposure by helicopter. For the next few hours we examined the outcrops, moving downslope to the south. After examining and recording various features, we hiked uphill to the ridge crest in anticipation of a helicopter pick-up and move to a new location. However, it began to snow heavily as we reached the ridge crest. After deciding that calling in the helicopter would be unsafe, we spent most of the rest of the day hiking eastward, back to the exploration camp. Details of the traverse path and other contextual information are available from Daithi MacGearailt.

For my services, I am charging half a day for fieldwork, plus half a day for the preparation of this report.

2. Location

The *study area* of this report is an extensive exposure located at approximately UTM 525177E 7163172N. The exposure consists of a steep scree slope on which numerous, scattered intact outcrops are present. Several outcrops were examined over an interval of approximately three hours.

3. Geological features and their interpretation

3.1. Host rock.

The study area consists of an extensive exposure consisting of metamorphosed volcanic rocks of mafic to intermediate composition. The meta-volcanics are of lower greenschist grade as indicated by abundant chlorite and epidote. The volcanic rocks are heavily veined in the study area. The composition and characteristics of the veins, and the relative timing of veining and other geological events, are the main topics addressed in this report.

The volcanics at this exposure belong to a larger body of volcanic rock that cores the 'Shell Creek anticline' which plunges to the east and is the dominant structure in the southern part of the claim area. The volcanic rocks are either Cambrian or Neoproterozoic in age, appear to be the oldest rocks in this part of Mackenzie-Ogilvie platform, and may be correlative with the Neoproterozoic Mt. Harper Volcanics to the northeast. Isotopic dating and geochemical characterization are required to provide more certainty on age and identity.

To the east of the study area, the volcanics comprise pillow 'basalt' and related hyaloclastic breccia intercalated with more massive flows. Primary volcanic textures are most visible between the exploration camp and Shell Creek. To the west, the volcanics are more strongly foliated and, in minor fault zones, are locally sheared.

3.2 Veins.

Several discrete vein systems are present in the study area. They include: i) epidote 'veins' and pods; ii) carbonate + quartz veins with local epidote; iii) pyrite-limonite fracture-fillings and disseminations; iv) feldspar +/- quartz veins. The epidote vein set (i) is older than the carbonate + quartz veins (set ii). The feldspar + quartz veins (set iv) are the youngest. The relative age of the pyrite-limonite vein set (iii) is unclear. It could be intermediate between (ii) and (iv), but could range from the oldest to the youngest. With greater scrutiny in the field, the relative age of set would probably determine the relative age of set (iii).

i) Epidote 'veins' and pods. Discontinuous zones of epidote 1-5 cm wide occur in the volcanic rocks. Some are diffuse and others have rather distinct margins. Whether these features are true hydrothermal veins or alteration of host rock is unclear. One possibility is that these features are metamorphosed selvages of volcanic pillows and breccia fragments. Similar features are found throughout much of the volcanic rock in the anticline, and some are clearly related to original primary textures.

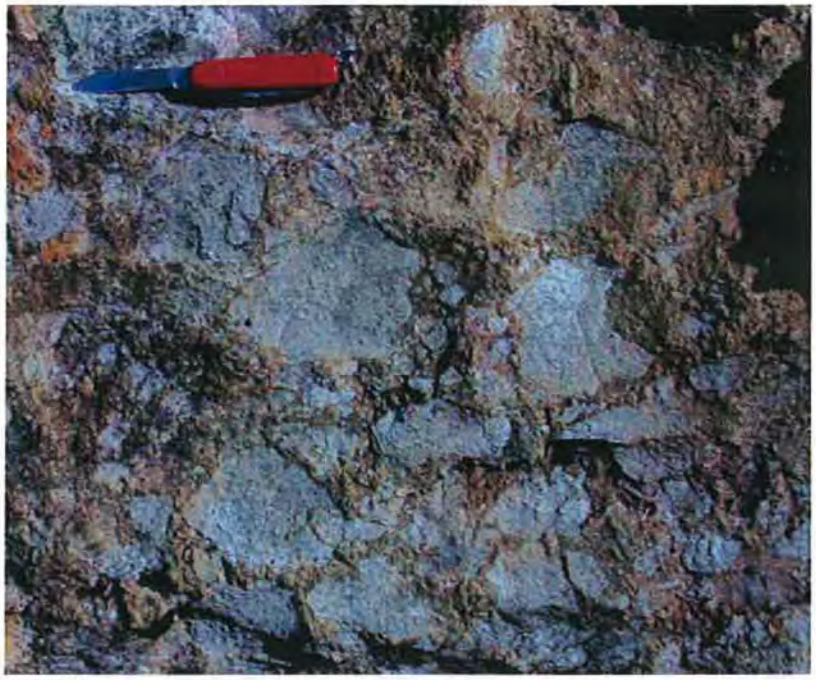

Figure 1. Altered pillow breccia with epidote-rich matrix surrounding chloritized clasts of mafic volcanic rock. Location: approximately 3 km east of study area.

Figure 2. S-fold defined by deformed epidote vein in foliated mafic volcanic rock with patchy limonite staining, study area.

ii) Quartz-carbonate veins, with local epidote margins. This set of veins varies from nearly pure quartz (white) to nearly pure carbonate (white and grey, probably calcite). Epidote lines the margins of some of these veins. Whether quartz and calcite deposition occurred contemporaneously throughout the generation of this vein set is unknown. The veins were dismembered and folded during deformation that affected the metavolcanic host rock. Locally, the deformation caused the veins and host rock to become interfoliated. The quartz component to the veins appears to have behaved brittly while the carbonate flowed ductily. Ambient temperatures at the time of deformation were probably between 300 and 400 degrees C (hot enough to cause calcite to flow but cool enough to allow the quartz to remain brittle; temperatures must have been no higher than that of lower greenschist grade).

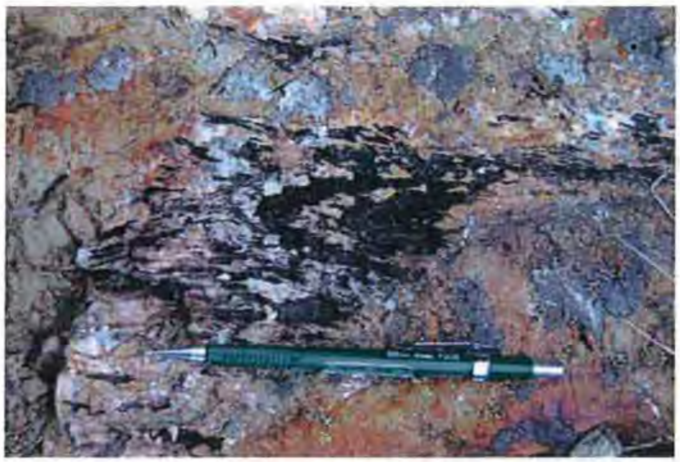

Figure 3. Folded quartz-carbonate vein in altered mafic volcanic rock, study area.

Fig. 4. Deformed calcite veins in mafic volcanic rock with limonite specks, study area.

iii) Pyrite-limonite fracture fillings and disseminations. Rusty patches and layers on the outcrops are present in various places in the study area, particularly toward the south at lower elevations. The staining is caused by oxidation of minute pyrite grains, the relicts of which remain as rusty specks within some limonite-filled fractures. A crude spatial and possibly genetic relationship between these limonitic zones and the feldspar +/- quartz veins seems to exist and should be further investigated. Where the limonitic staining and the feldspar +/- quartz veins occur together, the limonite is mainly restricted to the volcanic clasts. Whether this relationship indicates that the limonitic staining is older and therefore restricted to the clasts, or if the limonite staining is younger and more strongly developed in the clasts because of greater geochemical suitability, is uncertain. Although no copper or other economic mineralization is evident in the study area, it is possible that such mineralization does occur at depth and hence the rusty zones could be targeted for additional sampling and drilling.

Fig. 5. Limonite-stained zone in foliated, mafic volcanic rock, study area. Thickness of zone is approximately 1.5 m.

iv) Feldspar +/- quartz veins. This set of pinkish-white veins may not been recognized, or present, elsewhere on the property. They range in morphology from simple curviplanar veins to a mesh-like network or 'vein breccia' in which the vein material surrounds pebble- and cobble-size clasts of the metavolcanic host rock. These veins are clearly less deformed than the quartz-carbonate veins and were emplaced after the foliation and folding events. The mesh-like network of these veins is likely to have formed by brittle faulting of the host rock under an extensional stress regime. A plausible scenario of formation is normal faulting at relatively cool temperatures (possibly 200-300 degrees C) leading to a zone of breccia surrounded by hydrothermal fluid from which quartz and feldspar were precipitated.

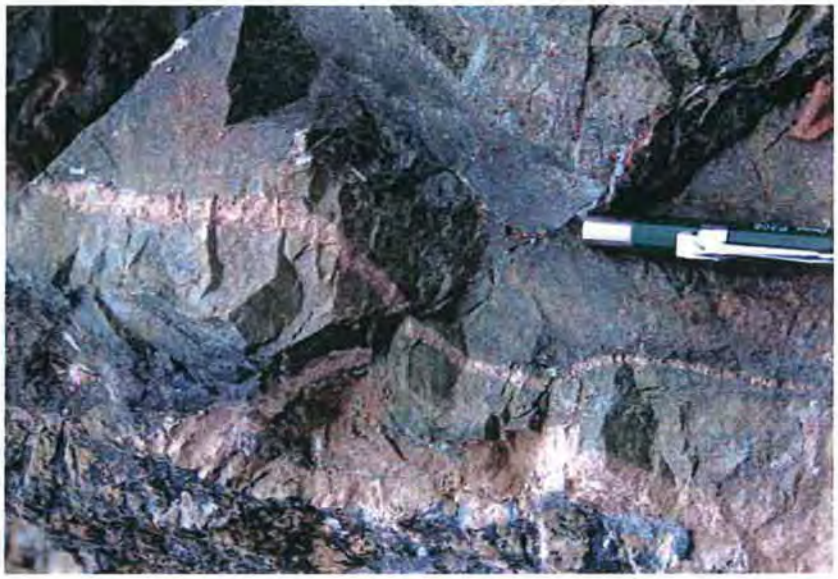

Fig. 6. Pinkish-white feldspar (microcline?)-quartz veins in altered mafic volcanic rock, study area.

Fig. 7. Mesh-network of feldspar-quartz veins developed in foliated, chloritic volcanic clasts, study area. Limonite staining is mainly constrained to clasts. Growth of the limonite (or that of its precursor, disseminated pyrite) appears to pre-date feldspar-quartz veining.

Appendix E

2008 Evaluation & Sampling Program on the Shell Creek Cu-Au Property

By Chris Ash

2008 Evaluation
&
Sampling Program

on the

SHELL CREEK
Au-Cu PROPERTY

NTS 116C/9&10
Yukon, Canada

Dawson Mining District

for

LOGAN RESOURCES LTD. LGR (TSX-V) LGREF (PK-USA)

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by

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Logan Resources Ltd.

December 11, 2008

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Introduction

At the request of Seamus Young the author visited the Shell Creek property over a period of two days in August 2008. The Shell Creek Property is located in east-central Yukon Territory, 75 kilometres northwest of Dawson City, 30 kilometres east of the Alaskan boarder (Figure 1).

Visible gold is relatively common in association with chalcocite in late quartz-carbonate-chlorite (QCC) veins cutting early folded and fractured quartz vein systems. Where these quartz vein systems cut fine, clastic metasedimentary rocks surrounding zones of late quartz veining are variably chloritized and Cu mineralized with chalcocite forming along schistosity surfaces. These systems were briefly evaluated in 2004 under the supervision of the author and involved an 8 day mapping, sampling and trenching program (Ash, 2004).

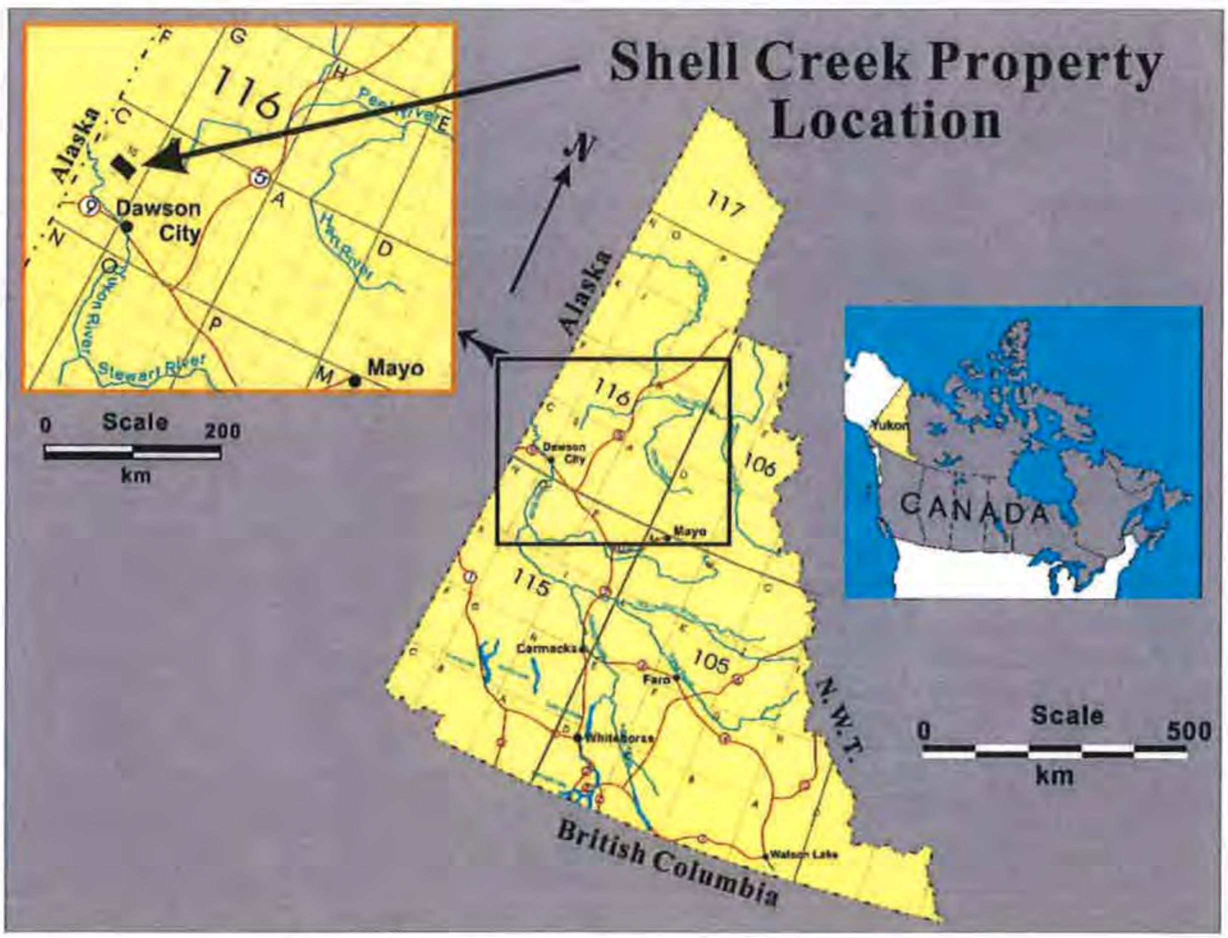


Figure 1. Location of the Shell Creek Property in west central Yukon.

The Shell Creek Property visits had two primary objectives:

1. Demonstrate to Logan Resource staff geologists (Daithi Mac Gearailt and Shane Treacy) and contract geologist (Jean Pautler) the setting and style of Au and Cu mineralization associated with the quartz vein systems.
2. Collect a number of rock samples from both the Au-bearing veins and vein proximal, chloritized Cu-bearing sediments to both reaffirm and also provide further constraints on the metal content of these mineralized systems.

The Shell Creek visit focused on an examination of the 2004 trench area, where the relationship of the vein Cu-Au and vein-marginal sedimentary Cu mineralization are best constrained. Prospecting of quartz float boulders occurring down slope from the 2004 trench to the original discovery VG quartz boulder was successful in identifying three separate boulders with very fine to medium-grained VG which helped demonstrate the setting, style and frequency of VG in these quartz vein systems. One of these boulders demonstrated a relatively higher grade style of vein mineralization that had not been previously recognized and is briefly described.

Some effort was also made to clearly demonstrate that the green chlorite rich rocks proximal to the veins is hydrothermally-altered, fine clastic sedimentary rocks and not a mafic volcanic rock as it has at times been mistaken for, when involving localized cursory examination.

A total of **79** rock grab\chip samples were collected for analysis. These include **24** of QCC vein material and **44** of the chloritized sedimentary rock samples. The results of these analyses are presented and discussed. **Eleven** of the samples collected where to follow up on MMI soil anomalies. The results of these finding are presented elsewhere (Mac Gearailt, 2009 in prep.)

The 2004 analytical data for the Cu in vein-marginal chloritized sediments is compared to the 2008 data as the analytical methods applied in 2004 generated more sensitive detection limits and indicate correlations not detected in the 2008 data set.

Photo 1. In creek bed above VG discovery boulder sampling intensely chloritized sedimentary host rock on large vein boulder. Individuals in photo from left to right are Daithi Mac Gearailt, John Harre (helicopter pilot), Shane Treacy and Jean Pautler.

Regional Geological Setting

The Simba BIF and related gold-quartz vein systems are contained in clastic sedimentary rocks of the Precambrian to Lower Cambrian Hyland Group, which is a component of the Selwyn Basin off-shelf succession. In the property area Hyland Group rocks comprise the lowest tectono-stratigraphic element of the Dawson Thrust Sheet, just along the northern margin of the regionally extensive Tintina Fault Zone.

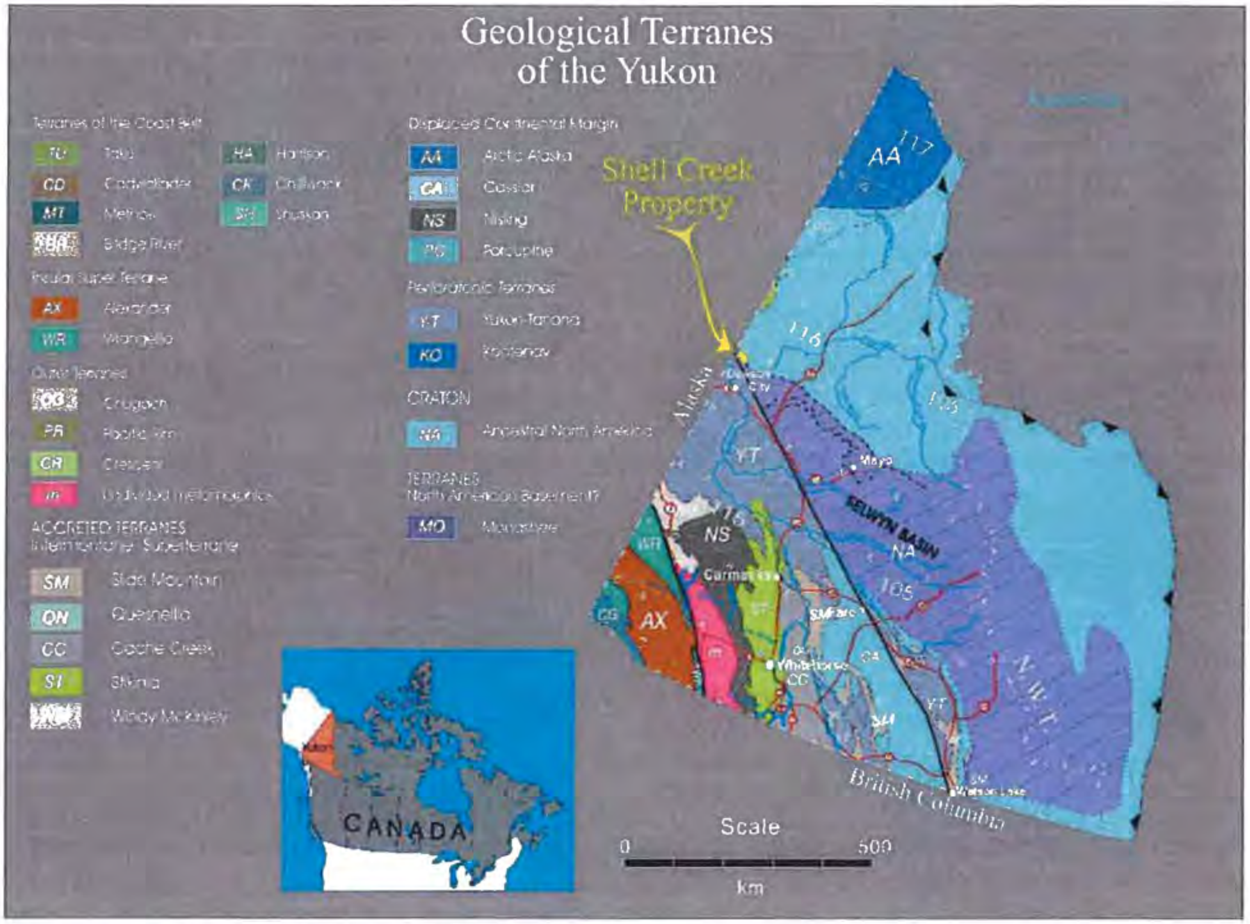


Figure 2. Regional geological setting of the Shell Creek property in east central Yukon.

Property Geology

The area of the property under review and examination includes three primary stratified units (Figures 3 & 4). A basal limestone sequence is overlain by an interval of poorly sorted gritty sandstone. Above the BIF the clastic sedimentary rocks are dominated by inter layered siliceous siltstone and shale with lesser fine sandstone that is host to both the BIF and spatially associated gold-quartz vein systems. The clastic sedimentary rocks are overlain by a succession of mafic volcanic flows and breccias with locally preserved pillow structures.

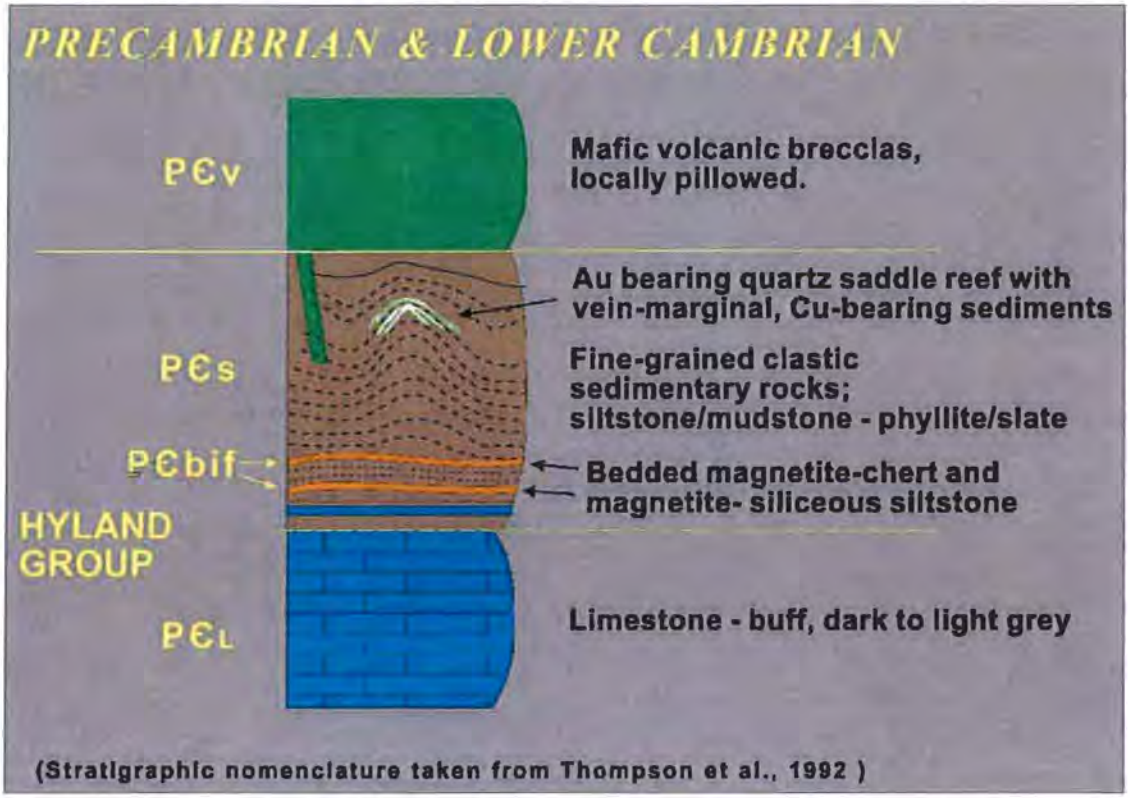


Figure 3. Diagrammatic stratigraphic section for the Shell Creek property geology illustrating the setting of the quartz vein systems. The vertical extent of the system remains to be determined.

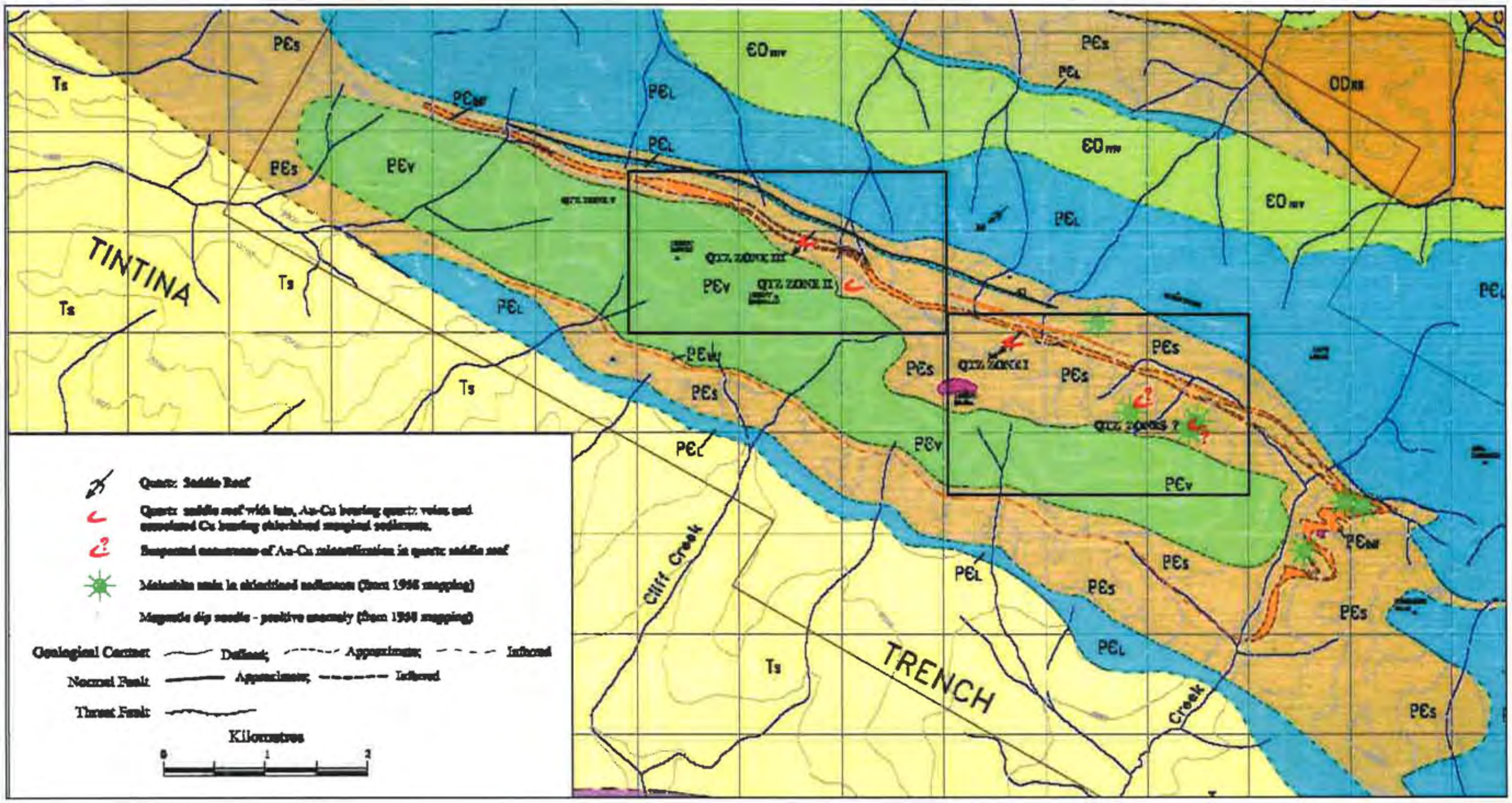


Figure 4. Geology in the area of the Shell Creek BIF illustrating the location of quartz saddle reefs.

Mineralization

Gold and copper at the Shell Creek property are associated with late quartz-carbonate-chlorite (QCC) veins contained in and around early deformed bull quartz veins hosted by fine-grained clastic sedimentary rocks. Host siliceous shales and siltstones proximal to the late QCC veins are often hydrothermally chlorite-carbonate altered, with chalcocite concentrated along cleavage planes. Preliminary work suggests that these vein systems form saddle reef-type fold structures that plunge at shallow angles to the SW.

Within the individual reefs, visible gold (VG) is often associated with chalcocite and lesser bornite that occurs most often as 1 to 3 centimeter patches consisting of concentrated sulphide in thin discontinues fracture fill stringers in early-deformed bull quartz (Photo 2) in close proximity to late-stage, dilation-fill, comb structure QCC veins (Photos 3).

Within these vein systems gold occurs as very fine to medium-grained flakes and blebs that appear as free gold. Most grains of this size are barely visible with the naked eye, but are readily identified with a 10x hand lens. The very fine-grained sized flakes are most common and all gold grains identified to date are either within chalcocite or in quartz at the edges of the chalcocite concentrations.

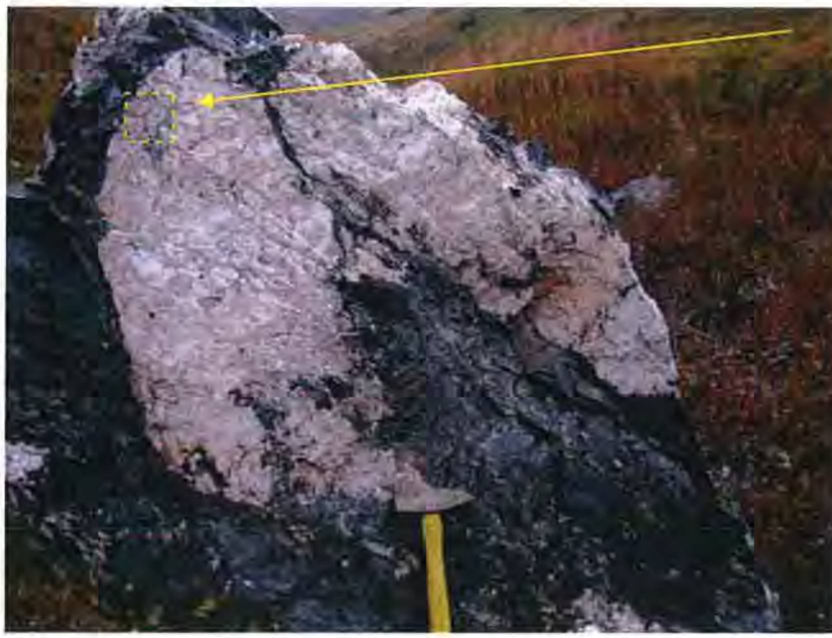
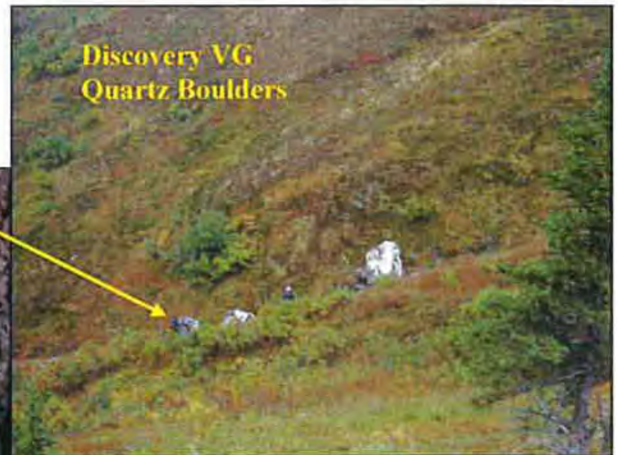
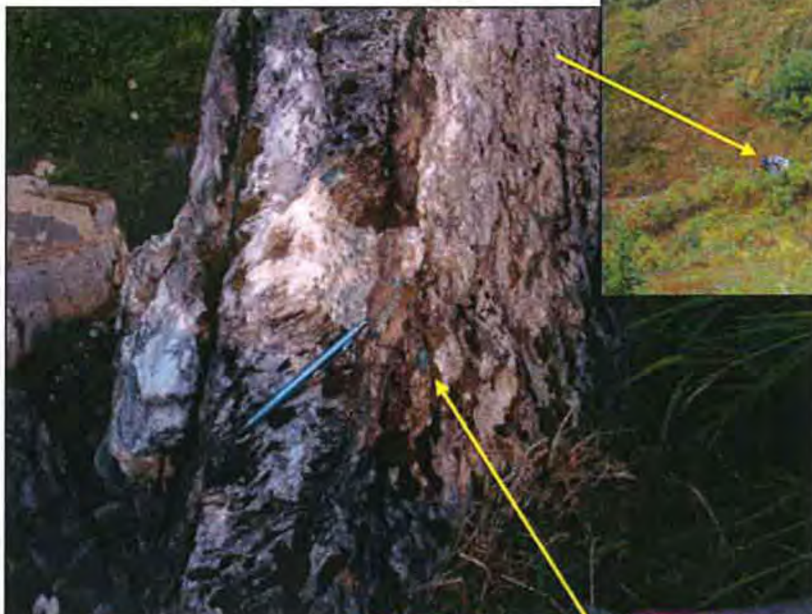


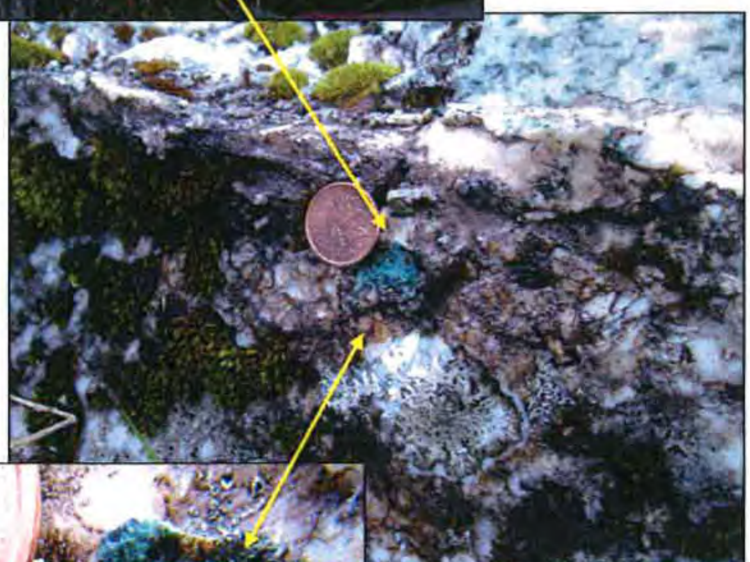
Photo 2b. Chalcocite infilling fracture in early bull quartz

Photo 2a. Folded and fractured early bull quartz with chalcocite formed on fractures

Photo 3. Late dilation fill comb structure quartz vein with VG







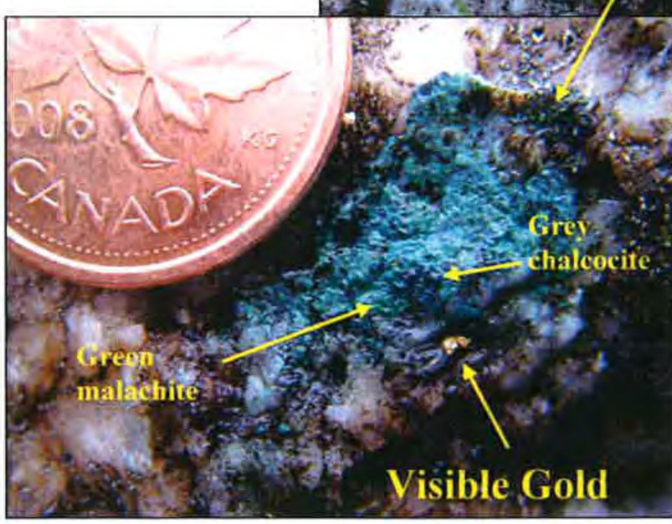


Photo 3b & c. Progressive detailed views Malachite stained chalcocite with VG.

Higher Grade Au-Cu Vein Material

While prospecting quartz float in the down slope boulder train, in an effort to identify examples of visible gold, two angular boulders (0.4-0.7 m in longest dimension) where identified and sampled that contained a style of relatively higher grade chalcocite mineralization not previously recognized (Photo 4). One boulder largely buried by stream gravels, was found several metres up stream from the VG, discovery boulder (Photo 3). A second boulder was identified half way down slope between the 2004 T-trench and the discovery boulder.

Both these samples were uncharacteristically well mineralized with chalcocite and contained readily identifiable VG. When broken into fist size fragments the VG was readily identified in most if not all the samples. Unlike most of the previously identified chalcocite which characteristically occurred as blebs and clots scattered throughout the late QCC veins and proximal, fractured early veins, these two quartz boulders displayed a semi massive internal connectivity of the sulphide, imparting a ghost, coarse net texture with the highest area of sulphide concentration at the junctions of these fracture networks.

Identification of these boulders indicates a new and apparently higher grade style of Cu-Au mineralization forms a part of the quartz vein system. The setting, size\volume or frequency of these distinctive styles of vein mineralization remains unknown.

It is suspected however, that that infiltration of the sulphide bearing fluids may be potentially best developed at the nose of the folded vein structures where dilation and the opportunity for open space development is greatest within the early deformed bull quartz. Such a potentially important relationship for development of relatively higher chalcocite concentrations with higher gold content offers additional untested potential for the mineralized quartz vein system.

Photo 4 Green, malachite on grey chalcocite in early deformed fractured bull quartz.

Quartz Vein Host Rock Protolith (?)

Field relationships demonstrating the progressive development of the hydrothermal overprint within the sedimentary unit on approach to the vein system was reviewed to help resolve the contention that this chlorite-rich, vein-marginal host rock may be of mafic volcanic origin. Progressive increase in the relative volume of altered host rock increases from:

1) preferential replacement along cleavage planes (Photo 5a) to,
2) a rock which is largely undergone hydrothermal replacement, but preserves remnant of the sedimentary host rock (Photo 5b) to
3) one that has undergone complete replacement (Photo 5c).

Photo 5a (top left): dark-green chlorite formed along cleavage planes in clastic sediments.

Photo 5b (top right): Partial replacement of sediment to chlorite-quartz-carbonate schist.

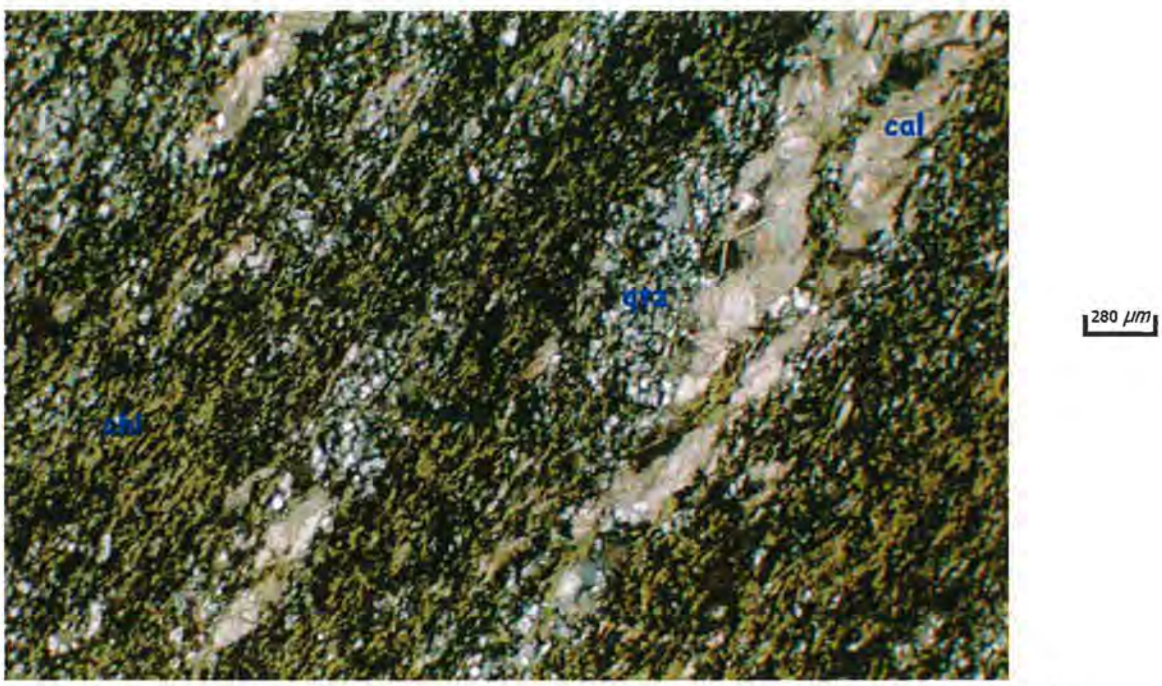
Photo 5c (bottom left) Sedimentary protolith pervasively altered to chlorite- quartz-carbonate schist.

A sample of the later (Photo 5c) was sampled and submitted to Teck Cominco Global Discovery Labs for independent, petrographic thin section analysis. This work was conducted by J.A. McLeod and his reported analysis is reproduced below, including the photomicrograph immediately following it.

Quartz:	40%	Leucoxene:	5%
Chlorite:	35%	Feldspar:	Tr.
Calcite:	20%	Epidote:	Tr.

The rock is seen to have a banded or schistose texture microscopically with seams of dominating minerals forming discontinuous lamellae. The most obvious mineralogical seam is one rich in chlorite with contained turbid, ill formed leucoxene. The chlorite is possibly an alteration or retrograde mineral. Caught up in the chlorite are lenticular seams of calcite from 1 – 2 to several mms in length but rarely wider than a mm. In the groundmass significant angular quartz (very fine – 50 microns) is seemingly strung out in the rock foliation. Rare grains of altered feldspar, often with minor epidote are noted. The rock is likely an argillaceous siltstone that has undergone regional dynamo-thermal metamorphism and subsequent retrograde metamorphism. It is now a calcite-chlorite schist.
A photomicrograph is appended to illustrate mineralogy and texture.

PHOTOMICROGRAPHS: LOGAN RESOURCES - #816919 (V08-0686R)



R08:47331. (816919) Chlorite, calcite and quartz in a foliated rock. Transmitted light, crossed nicols, magnification 25x.

Photo 6. Photomicrograph of vein-marginal, chloritized sediment (after McLeod, 2008). Field evidence for a potential source of the alteration minerals is clearly evident in the vein mineral assemblage which the altered host rocks surround. The photo shown below

vein mineral assemblage which the altered host rocks surround. The photo shown below (Photo 7) is of a large vein boulder to demonstrate the presence of carbonate and chlorite as locally prominent minerals of hydrothermal origin within the vein system. These veins consist of quartz, chlorite and carbonate, consistent with the alteration mineralogy in the surrounding host rock; a straightforward one to one relationship.

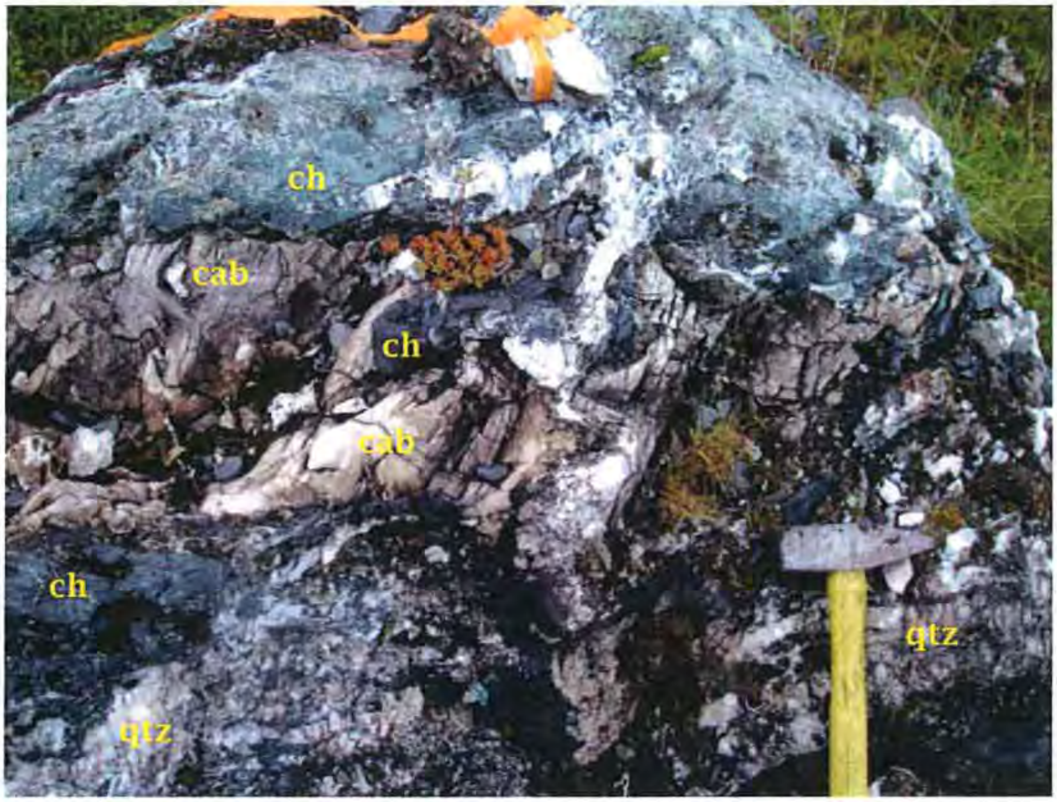


Photo 7. Carbonate-chlorite rich quartz vein boulder

2008 Sampling Program

As the general style and setting of the mineralization in these quartz vein systems had been previously established (Ash, 2004) the 2008 short term sampling program focused on further evaluating the range in grade of base and precious metal mineralization by increasing the assayed sample population.

Sampling focused on an area between the 2004 trench (Photo 4) and the VG discovery quartz boulder in the creek bed several 100 metres to the ENE of the trench. Both the Au-Cu mineralized quartz veins and the Cu-bearing, chloritized, vein-marginal sediments were sampled for assay. The sampling included:

1) Twenty-Two (22) grab\chip samples from random quartz and QCC vein boulders displaying signs of malachite staining and associated chalcocite mineralization. These samples were processed and analyzed by ACME Analytical Labs, Vancouver, B.C. (Certificate # VAN0800829.7) and underwent both:
    a) Fire Assay (metallics) of 30g samples (G6.ME), and
    b) 4 Acid digestion ICP-ES analysis on 0.5g samples (7TD).
2) Two (2) larger quartz vein samples that were subdivided into a number of smaller equally portioned samples. These samples were prepped and analyzed by Assayers Canada Ltd., Vancouver, B.C. (Certificate # 8V-2998-RA1).
3) Forty-four (44) grab\chip samples of chloritized, vein-marginal sediment that underwent 4 Acid digestion ICP-ES analysis on 0.5g samples by ACME Analytical Labs, Vancouver, B.C. (Certificate # VAN0800829.7)

All samples were collected, noted, photographed, bagged and tagged by Logan Resources geologist, Shane Treacy.

Au in quartz veins

As indicated above, quartz vein samples were assayed by two separate venders using different analytical processes. All quartz vein samples were split into fine (-150) and coarse (+150) fractions for separate analyses to help assess potential analytical issues related to the nuggety, free gold being evaluated.

Vein Grab Samples

The results for selected elements of the 22 grab\chip sample analyses are presented in Table 1. These data highlight a number of features. In particular, the direct association of gold with Cu-sulphide mineralization is borne out by the fact that samples with anomalous gold consistently have elevated Cu concentrations. The data does, however also demonstrate that there is no direct correlation between gold grade and copper content, e.g. the highest two Cu analysis are among the more weakly anomalous gold values. This data set show that Ag is consistently more abundant in the

Photo 8b. Close up of 2004 trench

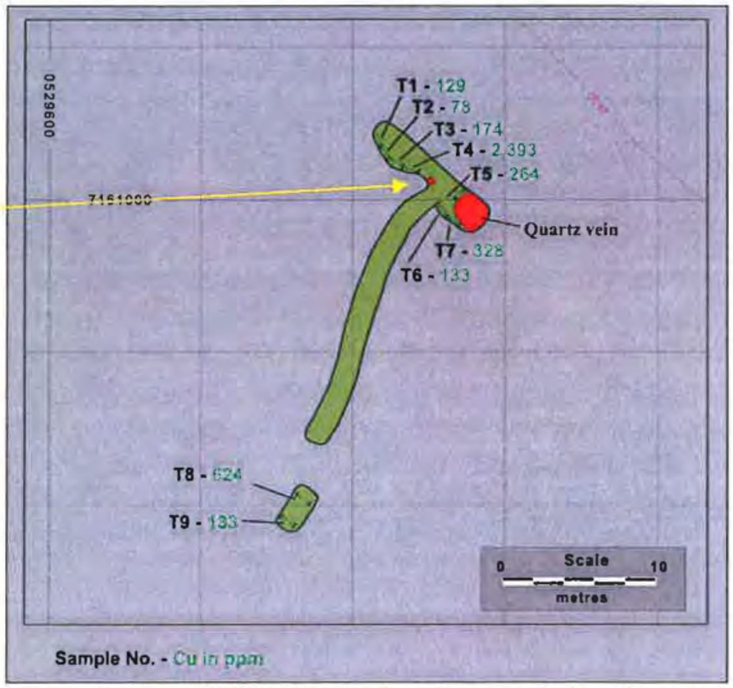


Figure 5. Map of 2004 Trench showing sample locations and Cu abundances

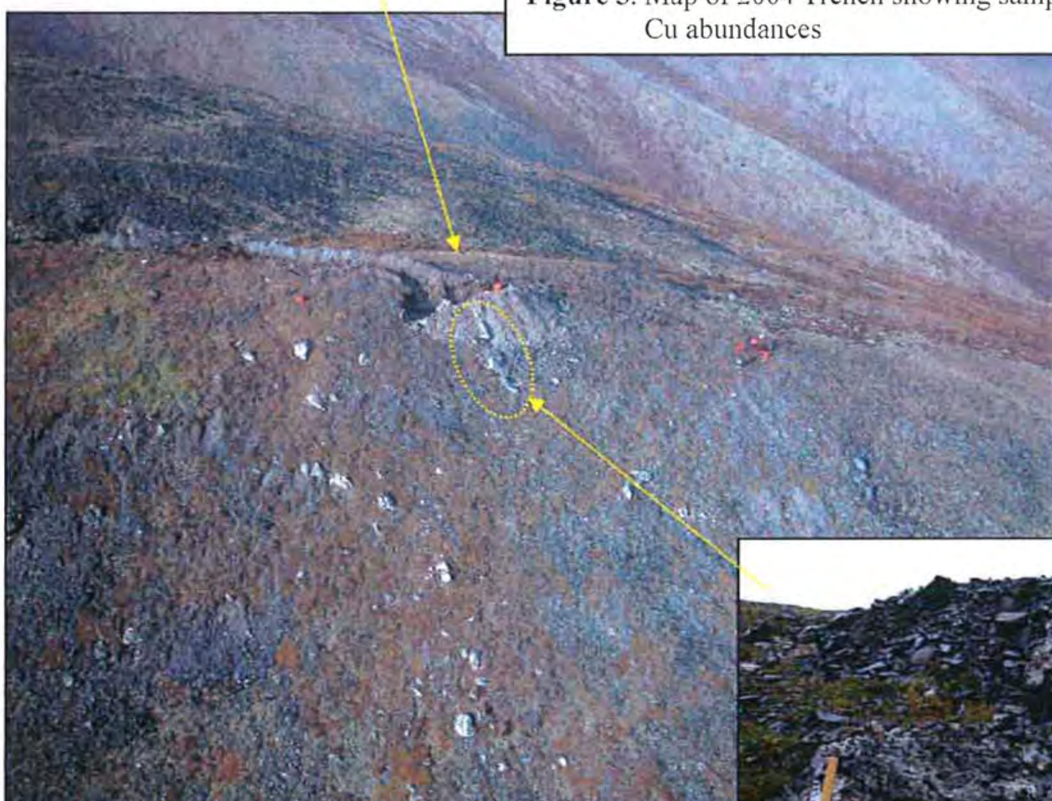


Photo 8a. Trenching on Quartz Zone I exposed several gold bearing quartz veins with vein marginal copper.

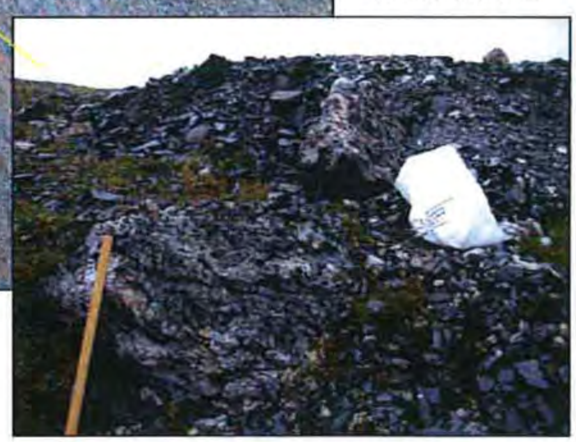
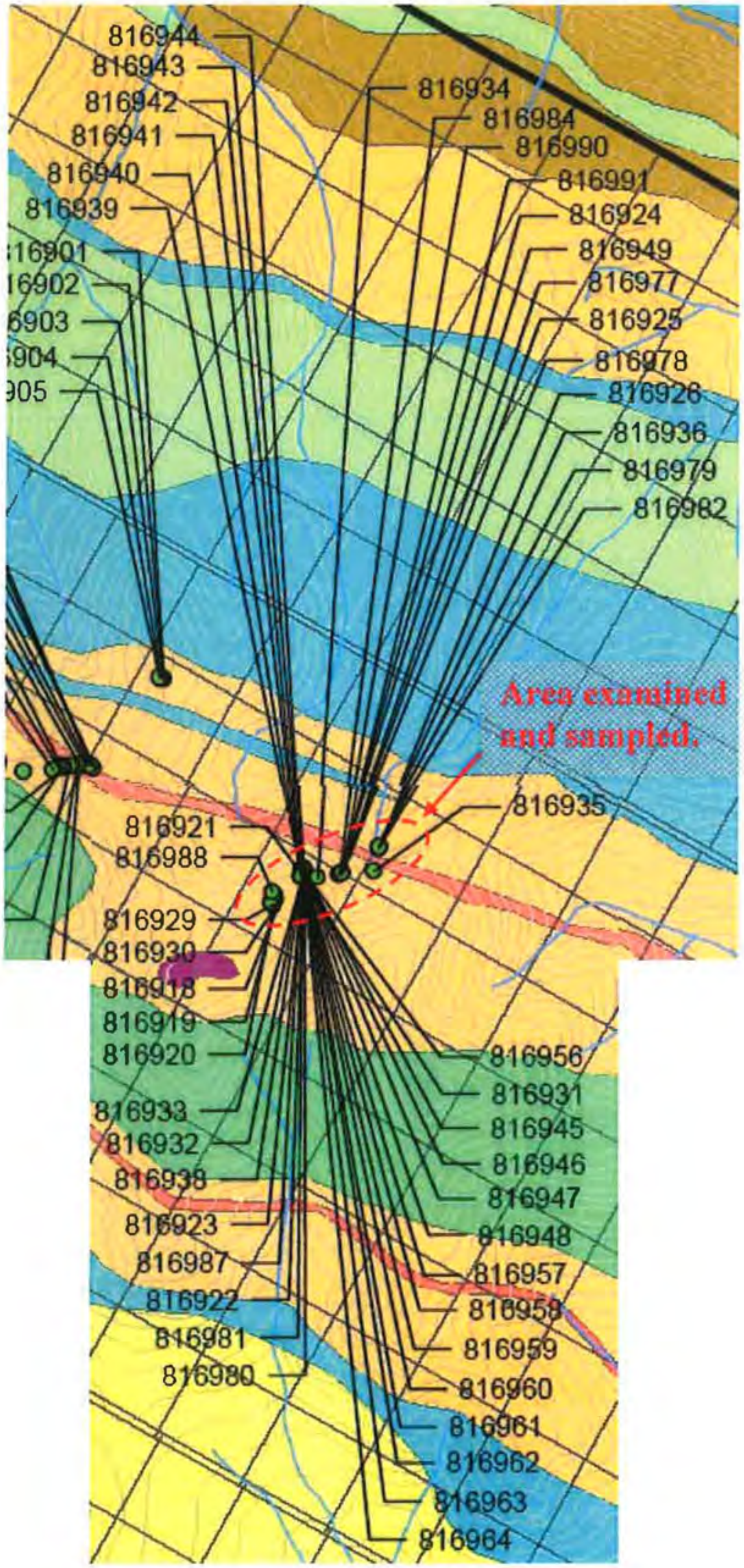


Photo 8c. Quartz subcrop sampled from the NE end of the trench.

Figure 6. Geology of area examined with sample localities indicated (see Figure 3 for location of cropped map area shown)



Apart from **Cu** and **Au**, abundances for most other elements (not shown in Table 1) **Bi** (0.01%) and **Sb** (0.01%), **As** (0.02%), **Sr** (0.01%), **Cd** (0.001%), **W** (0.01%), **Pb** (0.02%), **Zn** (0.01%), **Mo** (0.001%), **Co** (0.001%) are all below the detection levels, as shown in brackets, for the individual elements analyzed, irrespective of the elevated nature of Au and Cu.

Ag at 5 g\t for sample 816937 is the only analysis to show a value above the detection level of 2 g\t. This sample although elevated in Au, at 0.58 g\t is well below the more elevated Au samples at 3 to 4 g\t, which show no associated increase. Controls on associations of elevated silver in the mineralized system remain to be established.

Table 1
Precious & Selected Base Metal
Abundances of Quartz Vein Samples

Sample	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	Ag	Cu
	kg	g	g/t	g	mg	g/t	g/t	%
	0.01	1	0.01	0.01	0.005	0.01	2	0.001
816918	1.04	525	0.24	22.26	<0.005	0.23	<2	**0.660**
816920	0.52	500	<0.01	22.36	<0.005	<0.01	<2	0.011
816924	1.74	460	0.21	18.69	<0.005	0.21	<2	0.045
816925	2.01	502	**1.42**	20.58	**0.622**	**2.60**	<2	**0.402**
816926	2.11	533	**2.64**	22.96	**0.911**	**4.24**	<2	**0.230**
816928	1.35	594	0.03	24.97	<0.005	0.03	<2	**0.168**
816929	1.02	526	<0.01	19.29	<0.005	<0.01	<2	0.002
816930	1.35	598	<0.01	25.26	<0.005	<0.01	<2	0.002
816932	1.51	540	0.13	25.17	<0.005	0.12	<2	**0.274**
816933	1.49	553	0.03	19.50	<0.005	0.03	<2	0.055
816934	0.91	464	0.03	23.41	<0.005	0.03	<2	0.068
816937	1.75	445	0.31	19.21	0.122	0.58	**5**	**1.861**
816909	2.06	488	0.20	21.63	<0.005	0.19	<2	0.056
816977	1.39	536	**1.87**	25.84	**1.479**	**4.54**	<2	**0.337**
816978	1.64	428	**1.29**	24.23	**0.734**	**2.93**	<2	**0.240**
816979	10 samples **Table 2**			Larger samples split into relatively				
816980	20 samples **Table 3**			equal portions & assayed separately				
816981	0.66	433	0.11	20.35	<0.005	0.1	<2	**0.205**
816982	2.08	512	0.49	18.81	0.350	**1.16**	<2	0.096
816983	1.12	526	0.02	24.04	<0.005	0.02	<2	**0.118**
816984	0.94	527	0.30	26.42	0.111	0.49	<2	0.018
816988	1.17	561	0.10	26.10	0.087	0.25	<2	**0.246**
816990	2.38	555	**1.36**	29.83	**0.702**	**2.55**	<2	**0.348**
816991	1.88	486	**1.84**	20.06	**0.608**	**3.02**	<2	**0.351**

Certificate VAN08008297.1 ACME Analytical Labs, Vancouver, BC
Wgt & Wt = weight; **Tot** = Total

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Larger Subdivided Quartz Vein Assay Samples

For two of the quartz vein samples reported on following, larger amounts of vein material were collected for assay and treated differently with respect to analytical procedure and vendor used to conduct the analyses. The second vendor was used due to their ability to process and analyze much larger samples and was considered necessary to assess potential analytical issues related to the style of free gold present and the associated 'nugget effect' created. The combined large sample was subdivided into equally portioned amounts. Each of these individual samples were processed and fine and coarse fractions (+ & - 150 mesh), separated and analyzed separately for Au.

1. A large sample (#816979) of well mineralized quartz vein material was obtained from a boulder found partially buried in the creek bed, several meters upslope from the original VG discovery boulder (Photo 3). The rock contained up to several percent chalcocite with obvious visible gold noted in several of the sample fragments. The results of these analyses are shown in Table 2.

2. A very large sample (#816980) combining roughly 150 lbs (68 kg) of fragments from mixed early and late quartz vein material collected from two vein boulders situated at the immediate down slope edge at the NE end of the 2004 trench (Photo 8a, c & 9). The quartz boulders appear to be sub crop from one of the quartz veins exposed in the trench (Photo 8a, with corresponding vein indicated on trench map). The sample was obtained using a 10 lb sledge hammer and required considerably more effort than anticipated. Small areas of patchy malachite stain was a characteristic feature of this vein material, however no concentrated chalcocite or VG was identified. The results of these analyses are shown in Table 3.

Discussion of Assay Results

Sample # 816979

Analysis of the coarser sample fractions for this sample suggests a rough average of 2g\t for that specific vein portion sampled.

These data show that the coarser fractions (+ 150) are consistently enriched relative to the finer (-150) size fractions. There is marked consistency in the range of gold content for the -150 fractions for all the samples between 0.20 to 0.30 g\t Au, irrespective of the gold content detected in the coarser fraction of the same sample. These relationships clearly support the observed style of very fine to medium-grained, free gold commonly identified in the quartz veins. This relationship also highlights the need for some assessment to determine an appropriate size fraction and analytical procedures required to ensure that future analysis is adequate at capturing coarser, nuggety gold fraction to more accurately constrain gold content of the mineralized system.

Sample # 816980

This sample was not particularly well mineralized with respect to measured gold content (Table 3). These analyses do show that the only elevated values are identified in the +150 fraction, less pronounced but a similar relationship to that identified in sample 816979. It also shows a relatively restricted value for the -150 fraction with most at 0.04 g\t, which are higher than the bulk of the +150 samples, where they are not anomalous. The reasons for this relationship are not entirely clear, but appear to suggest that there may be a second style of gold mineralization, possibly at the microscopic scale and tied up with the sulphide. Detailed study of the mineralization would be required to establish this.

Table 2
Au in splits from larger Quartz Vein Sample

Sample Number	**Au** (-150) g/t	**Au** (+150) g/t
816979	0.29	**2.07**
816979	0.24	**1.78**
816979	0.28	**0.95**
816979	0.20	**1.40**
816979	0.20	**1.78**
816979	0.27	**2.28**
816979	0.22	**0.92**
816979	0.24	**2.35**
816979	0.24	?
816979	0.33	?
*0211	2.09	2.19
*BLANK	<0.01	<0.01

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Table 3
Au in splits from larger Quartz Vein Samples

Sample Number	(-150) **Au** g/t	(+150) **Au** g/t
816980	0.04	0.01
816980	0.04	0.01
816980	0.06	0.01
816980	0.04	0.01
816980	0.04	0.08
816980	0.04	0.01
816980	0.04	**0.12**
816980	0.04	0.01
816980	0.04	**0.32**
816980	0.03	0.01
816980	0.04	0.01
816980	0.03	0.01
816980	0.04	0.01
816980	0.04	**0.12**
816980	0.02	0.01
816980	0.04	0.01
816980	0.03	**0.16**
816980	0.04	0.01
816980	0.04	0.01
816980	0.03	0.01
*0211	2.19	2.20
*BLANK	<0.01	<0.01

Certificate 8V2998RA - Assayers Canada

Assay Results for Cu in Vein Marginal Chloritized Sediments

The 34 samples of chloritized, vein-marginal sediment collected for assay included both:

1) A series of rock chips from outcrop\subcrop roughly equidistant intervals along the upslope side of the NW trending portion of the trench previously sampled for assay in 2004 (Photos 4a, b & 7 and area indicated as T1 to T7 in Figure 5), and
2) Highly chloritized sedimentary rocks forming part of the larger quartz boulders randomly identified across the area examined. These samples were collected to help provide some indication of the more intensely altered sedimentary host rock expected to be more prevalent at the core of the mineralized vein system.

The reported results (Table 4) indicate that the majority of the anomalous samples (7 of the 44) contain Cu in the range of 0.14 to 2.5%. Three of the more highly anomalous samples are in the range of 0.4-0.6% Cu.

As a matter of course, assay samples collected are photographed prior to being bagged and sealed. Several of these samples for which Cu content has been determined (Table 4) are illustrated (Photo 11).

Silver (Ag) at 4 and 5g for two of the samples is significant. At detection levels of <2g, it is possible that other anomalous values may be present but are not evident at the 2g threshold. The sample with the reported 4g Ag has the highest concentration for copper at 0.63% for all the samples; however the higher 5g sample contains only 0.17% ruling out any sort of correlation indicating higher Ag grades are associated with higher Cu grades, at least for the limited data set available. It is however likely that elevated Ag would require some level of anomalous sulphide development to be detected. The setting of the silver within this mineralized system remains to be established.

Photo 10a (below): Sampling of chloritized Cu-bearing sediments from 2004 trench
Photo 10b (top right): Malachite stained, vein-marginal sediments

Photo 10c (bottom right): Intensely chloritized sediment above QCC vein.

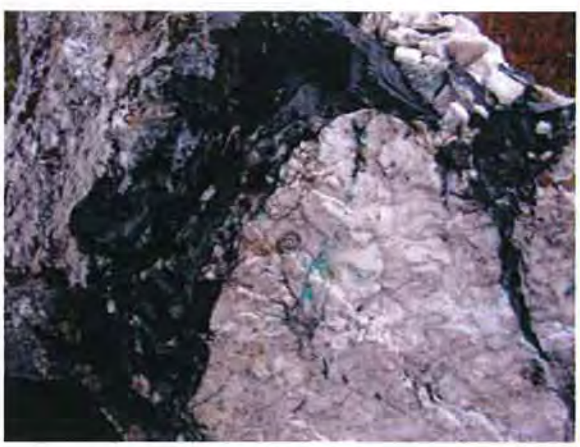

Photo 10c (bottom right): Intensely chloritized sediment above QCC vein

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Table 4.
Assay Results for Selected Base & Precious Metals - Chloritized Sediments

Sample	Wgt KG 0.01	Cu % 0.001	Ag g/t 2	Mo % 0.001	Pb % 0.02	Zn % 0.01	As % 0.02	Cd % 0.001	Sb % 0.01	Bi % 0.01
816913	0.72	0.008	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816914	0.96	0.004	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816915	0.80	0.006	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816916	1.10	0.007	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816917	0.89	0.013	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816921	1.74	**0.393**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816922	1.10	**0.506**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816923	1.69	0.013	<2	0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816927	1.53	**0.225**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816931	1.07	0.015	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816935	1.46	**0.174**	**5**	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816936	1.53	**0.231**	2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816938	3.24	0.016	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816939	0.70	0.009	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816940	3.78	0.021	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816941	1.03	0.016	2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816942	1.22	0.007	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816943	1.63	**0.146**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816944	1.16	**0.143**	2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816945	1.91	0.011	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816946	0.69	**0.629**	**4**	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816947	0.57	**0.141**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816948	1.16	0.009	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816949	0.32	0.001	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816956	4.05	0.010	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816957	2.74	0.014	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816958	1.08	0.007	2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816959	1.62	0.012	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816960	1.12	0.007	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816961	1.19	0.009	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816962	0.15	0.009	<2	<0.001	<0.02	0.04	<0.02	<0.001	<0.01	<0.01
816963	0.74	0.014	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816964	1.18	0.013	<2	<0.001	<0.02	0.04	<0.02	<0.001	<0.01	<0.01
816987	2.16	**0.219**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
817051	2.00	0.008	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817052	1.89	0.006	3	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817053	0.93	0.008	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817054	1.76	0.010	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817055	2.26	0.011	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817056	1.25	0.006	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817057	1.67	0.011	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817058	1.95	0.004	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817059	3.77	0.008	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01

ACME - Job # VAN08008297

Photos 11. Selected examples of assay samples of chloritized sediment with elevated copper (Cu) reported in Table 4.

Table 5
2004 Trench Assay Samples
of Chlorite Alterd Sediments

SAMPLE	Au	Ag	Cu	Mo	Pb	Zn	As	Sb	Bi
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	<.5	<.1	0.4	0.1	0.1	<1	<.5	<.1	<.1
CAS04-T1	0.9	<.1	129.4	0.5	6.3	171	1.8	0.1	0.2
CAS04-T2	<.5	<.1	77.9	0.2	6.5	126	1.4	0.1	0.2
CAS04-T3	0.6	<.1	173.8	0.6	6.7	133	1.6	0.2	0.2
CAS04-T4	16	0.7	2,392.5	0.2	5.6	188	1.9	0.4	0.7
CAS04-T5	13.5	0.1	264.3	0.2	6.4	242	1.8	<.1	0.2
CAS04-T6	4.9	0.1	132.7	0.2	7.2	161	1.6	<.1	0.2
CAS04-T7	6.7	0.1	327.5	0.4	4.6	199	1.5	0.1	0.2
CAS04-T8	10.3	0.2	624.1	0.3	6.5	179	2.2	0.1	0.4
CAS04-T9	1.7	<.1	83.4	0.6	7.4	136	1.8	0.1	0.2

Acme file # A406034 (Sept 24 -2004) Analysis: GROUP 1DX - 15.0 GM

The 2004 data showed elevated copper for all the samples analyzed. Only one of these samples showed a measurable anomaly at 0.24% Cu for the vein-marginal, hydrothermally altered sedimentary rocks.

The higher detection limit for the 2004 sample set also show that in addition to Cu, Zn is also elevated (100 to 200+ ppm range) for all the samples. There is however, no relative increase in the abundance of Zn corresponding to significant increases in copper. This relationship is born out by both the 2004 and 2008 data sets.

Unlike the 2008 samples, the 2004 samples of chloritized, vein-marginal sediment collected also included gold (Au) in the analysis (Table 5). It was on the basis of the negligible Au for all the samples assayed in 2004 that Au was not included in the 2008 analysis of the chloritized vein-marginal sediments.

It must be noted however, that larger sample sizes with coarse and fine fractions could be applied to this unit to ensure that there is not some aspect of coarse, free gold associated with it that has been overlooked. One can never ignore the adage that "*gold is where you find it*".

It is considered more likely however, as it is virtually the case for all gold-bearing deposits with relatively coarse, visible, free gold that such gold (Au) is contained in quartz.

SUMMARY

At least two and possibly more deformed quartz saddle reefs on the Shell Creek property are cut by late-stage quartz-carbonate-chlorite (QCC) veins that contain and introduce Cu-sulphide mineralization with fine to medium-grained visible gold (VG).

The 2008 field program was successful in:

1) Demonstrating the setting and style of visible gold within this copper bearing vein systems. Specifically, the identification of free gold in 3 separate samples of vein material found in float, for the area examined, helped demonstrate the frequency of free gold in the system.
2) Identifying a new and relatively high-grade style of Cu-Au mineralization developed in early fractured bull quartz proximal to late stage QCC veins.
3) Identifying an issue with analytical procedures which should be evaluated further to establish methods that accurately assess gold content. This feature is highlighted by the marked discrepancy between the two analytical methods applied. In the ACME data set the -150 fraction is consistently higher in gold content than the +150 fraction which is the opposite relationship reported for samples assayed by Assayers Canada in which the +150 fraction is consistently higher.

Based on:

1) The relatively common occurrence of visible gold in quartz float that forms aprons down slope from at least two vein systems that have been defined to date,
2) The potential size of these quartz vein systems and the current lack of any relevant data to constrain the scale, frequency or continuity of the gold rich zones within them, and
3) The very limited area for only one of the potentially Cu-Au mineralized vein system that has been exposed and evaluated to date the following approach is recommended.

Recommendations

Any exploration program employed to further assess the gold potential of these quartz vein systems should focus firstly on identifying and exposing potential surface concentrations of Cu-sulphide mineralization.

A geophysical program using a detailed induced polarization (IP) survey to isolate concentrated zones of late stage veins within the individual vein systems, followed by a trenching program sufficient to provide exposed sections across the width of the mineralized structure focusing on IP anomalous zones.

Once the zones of mineralization have been established a drilling program is recommended that uses vertical to near vertical drill holes to test the persistence and continuity (i.e. overall geometry) of the quartz structures with depth as well as the

presentence and Cu content of intervening chloritized sediment would be of considerable value in assessing the mineralized systems.

Comparison with other Au and Cu Deposits

Frequency of VG in Quartz Vein Float

Although the gold-quartz veins at Shell Creek display features that are more likely analogous to saddle reef, versus gold-quartz vein deposits, on a comparative basis the persistence of VG at Shell Creek is notable. The lead author of this report has conducted mapping and mineral deposits research in most of the major gold-quartz lode (e.g. Bralorne Mine, Cassiar - Erickson Mine, Rossland - IXL & Midnight Mines) and significant placer gold camps (Klondike, Barkerville, Atlin) in the Canadian Cordillera. During the course of this work rich pockets of lode gold or significant placer recoveries have on occasion been witnessed but the frequency of identify visible gold in quartz veins has in no way compared to the frequent identification of VG at Shell Creek.

Cu grades at 0.25 to 0.4%

Although not particularly analogous, either genetically or with regard to available info-structure, the Gibraltar Mine in south-central BC has produced copper at mining grades of 0.1 to 0.3% Cu for close to 30 years. Gibraltar is possibly best described as a primary Cu-Mo porphyry deposit in which copper mineralization has been enriched\upgraded along younger shear zones hosting Cu-bearing quartz veins.
Beyond its genetic differences the deposit does demonstrate a situation in which Cu grades comparative to those identified at Shell Creek are minable. As to whether or not comparative volumes of potential minable ore exist at the Shell is a question that remains to be established. The potential scale of the system, however suggests there is no reason why it could not be. More significant and in positive contrast too Gibraltar, where Cu production is supplemented by Mo, the Shell Creek Deposit (?) would be supplemented by Au should appreciable minable volumes exist.

References

Ash, C.H. (2004): Quartz saddle reefs with visible gold and vein marginal Cu (chalcocite) mineralization are associated with the Shell Creek banded iron formation (BIF); In house report for Logan Resources, 12 p.

Appendix F

Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon

by Daithi Mac Gearailt

Appendix G

Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on the Shell Creek Property of Logan Resources Ltd.

Prepared By: Mount Morgan Resources Ltd.

Appendix F

Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon

by Daithi Mac Gearailt

LOGAN RESOURCES LTD.

Report on Investigation of Selected uranium anomalies, Shell Creek Property, Yukon

A FIVE DAY INVESTIGATION, BY DAITHI MAC GEARAILT.

DAITHI MAC GEARAILT
2/1/2009

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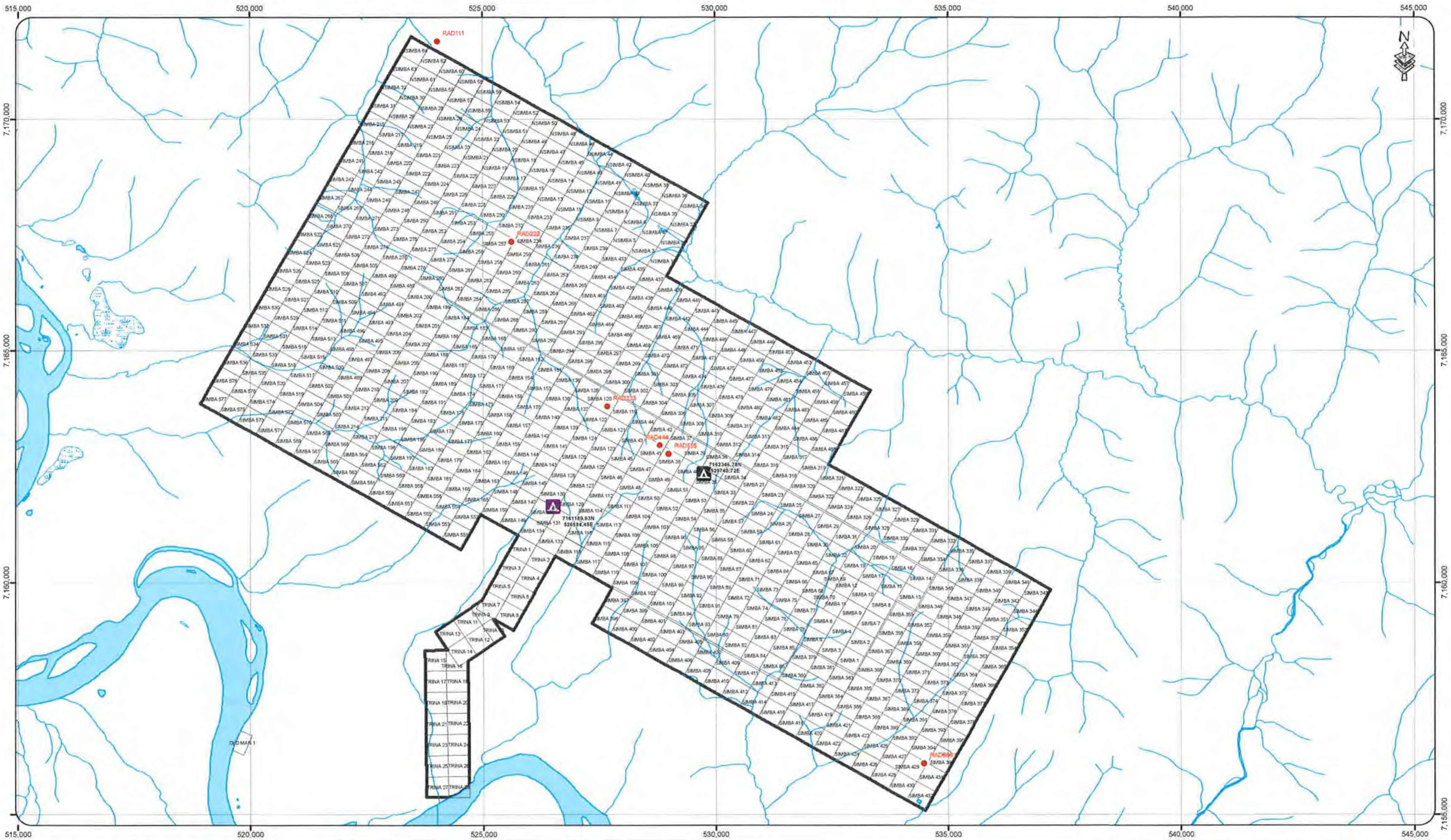
SHELL CREEK RADIOMETRIC REPORT (2008)

In 2008 a four day investigation of six areas that displayed anomalous uranium values from the 2007 airborne magnetic and radiometric survey was conducted by Logan Resources staff geologist Daithi Mac Gearailt. Figure 1 shows a map with the locations of the anomalous areas and Table 1, gives their exact UTM coordinates. Figure 2 shows the radiometric map of Shell creek from which the locations were determined.

SHELL CREEK RADIOMETRIC ANOMALIES		
NAME	UTM-X NAD 83	UTM-Y NAD83
RAD_111	524,030	7,171,681
RAD_222	525,618	7,167,346
RAD_333	527,669	7,163,792
RAD_444	528,796	7,162,953
RAD_555	528,979	7,162,768
RAD_666	534,483	7,156,103

Table 1: NAME AND COORDINATES OF ANOMALIES



Shell Creek Claims
Anomalous Uranium

LOGAN RESOURCES LTD

2007 Radiometric Uranium Anomalies
Yukon Mineral Claims
Existing Campsite
Proposed Camp Site
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

RAD_111

Rad_111 is located to the northwest corner of the Shell Creek property, just outside the claim boundary. The area has good exposures of slightly oxidised quartzite. The exact coordinate of the anomaly lies between two of these outcrops, RAD_111_C1, (see fig 3) and RAD_111_C2, (see fig 4). A sample of the quartzite float from the exact location was taken and sent to Acme labs in Vancouver for ? analysis. Results from the analysis are in appendix 1.

Rad_111_C1

This is a small knoll of fine to medium grained quartzite which contains a large amount of disseminated pyrite. The area has some good rock exposure. It appears that there is some possible bedding at this location (Fig 3.), which could be important if the source of the Uranium is detrital and not from some other source i.e. Hydrothermal. The area reads roughly 439 counts per minute (C/M), and when assayed in the field using a GR-135G Identifier, hand held scintillometer readings of up to 9.9 ppm uranium were achieved. The bedding is roughly bearing 160° with a dip of 80° to the northeast.

Figure 3: RAD_111_C1 (LOOKING EAST)

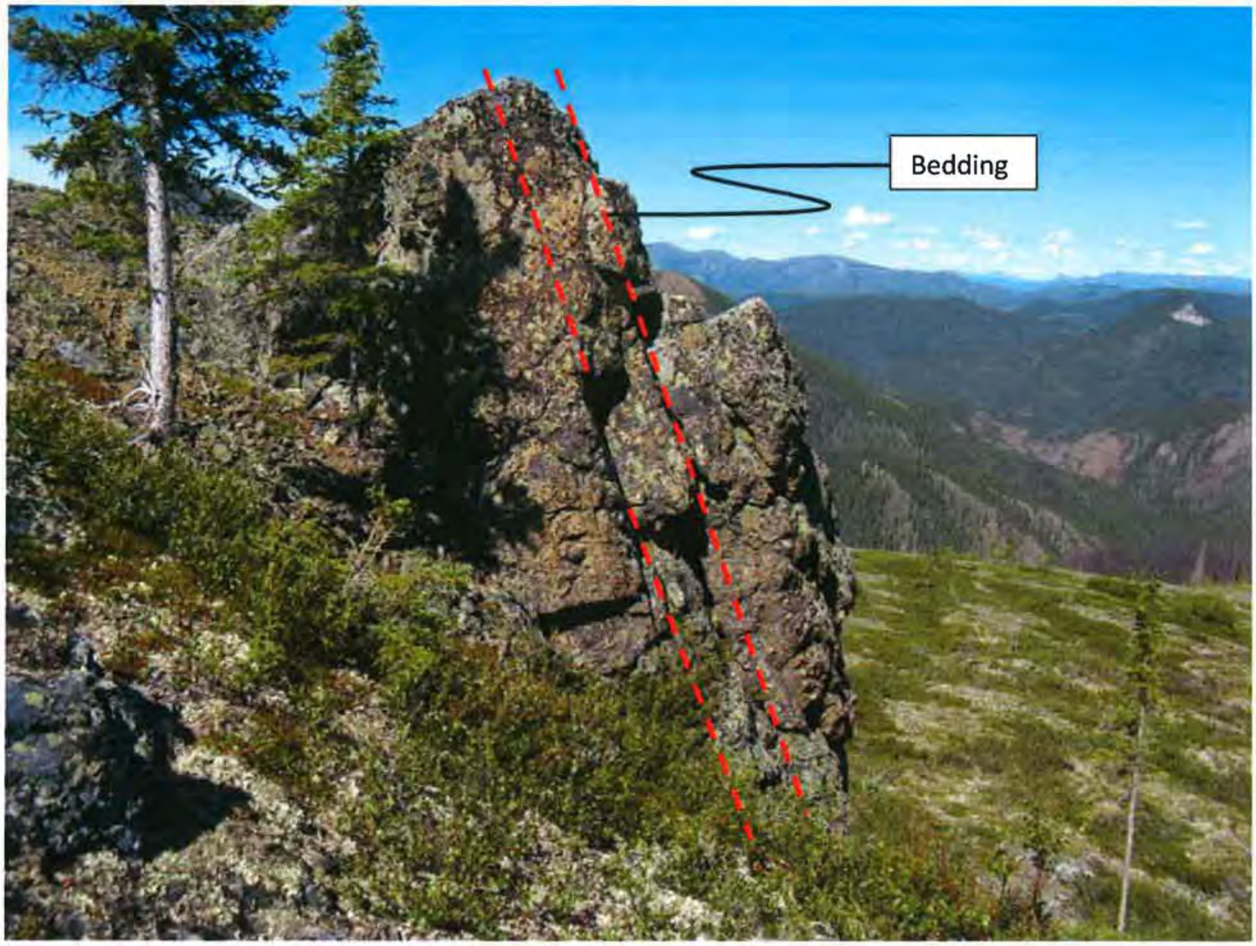


Figure 4: RAD_111_C1. WITH BEDDING, LOOKING SOUTH

The full results of the field assay with the hand held scintillometer are in Table 2 below.

	PPM	CPM
TOTAL	39	1499
POTASSIUM	7.7%	321
URANIUM	9.9b	77
THORIUM	32.1	27

Table 2: SCINTILLOMETER READINGS FOR RAD_111_C1.

RAD_111_C2

Figure 5: RAD_111_C2. LOOKING WEST

The quartzite here was a slightly more sheared and blocky compared to RAD_111_C1. It still displayed the same oxidized and rusty coloured pebbly quartzite as seen at C1.

This area gave a reading of 460 C/M and the full results of the field assay with the hand held scintillometer are in Table 3, below.

	PPM	CPM
TOTAL	38.9	1497
POTTASIUM	7.9%	324
URANIUM	10.7	73
THORIUM	27.5	23

Table 3: SCINTILLOMETER READINGS FOR RAD_111_C2

Rad_111_C3

This is the exact location of the radiometric anomaly (524031/7171681). This location is directly between both of the oxidized quartzite outcroppings. There is no outcrop at this location and the area appears to somewhat slumped. The scintillometer read 265 C/M at this location. A sample of Quartzite float was taken from here and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

RAD_222

Topographically this area is a small hill (See Fig 6), that has no exposure and is covered with moss and lichen with some stunted spruce around it. Three small trial pits revealed slightly silicified black organic shale. A sample was taken and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

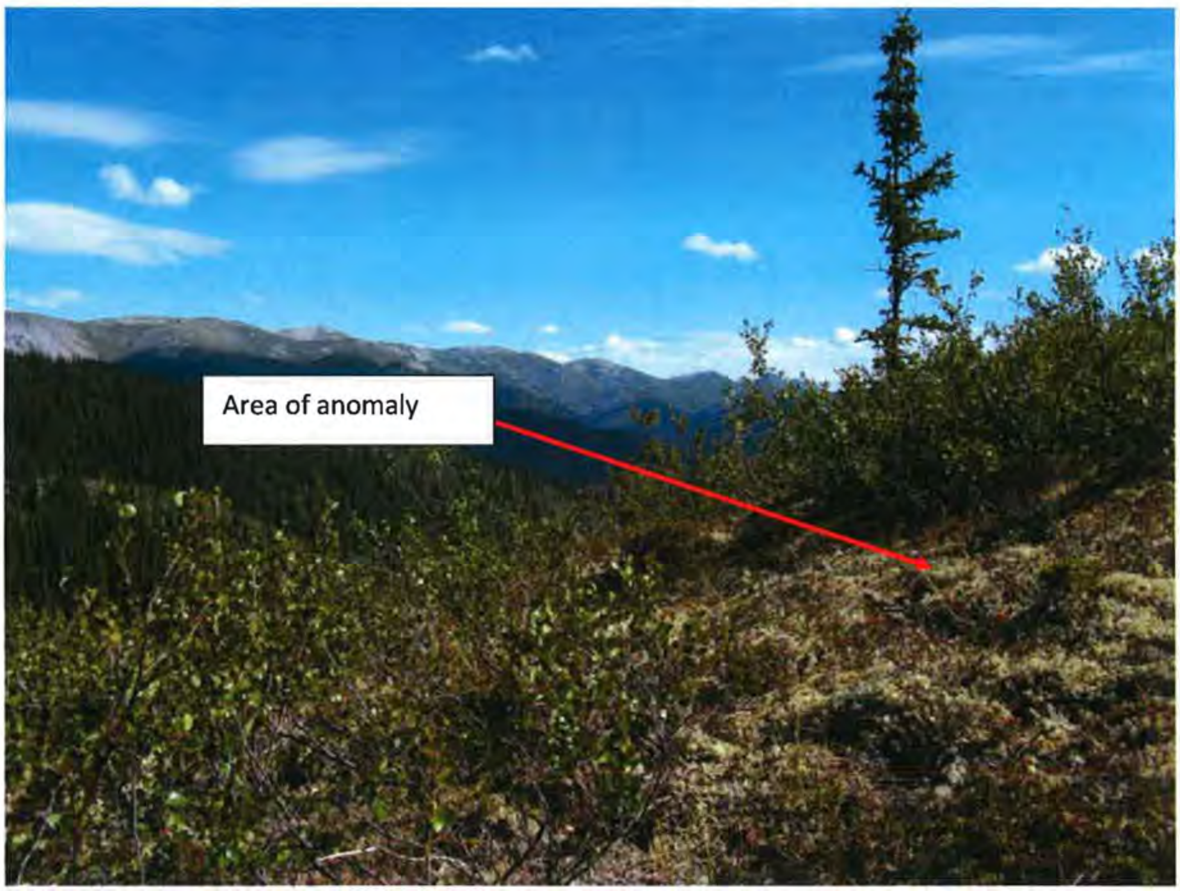


Figure: 6 RAD_222 ANOMALY.

The area was assayed in the field with a hand held scintillometer and the results of this are shown in table 4 below.

	PPM	CPM
TOTAL	**12.4**	**476**
POTASSIUM	**0.1%**	**46**
URANIUM	**10**	**39**
THORAMIUM	**2.4**	**3**

Table 4: SCINTILLOMETER READINGS FOR RAD_222.

RAD_333

Rad_333 is located on the north facing slope of a moderate hill just west of where Logan Resources had their 2007 camp. The anomaly is hosted in an oxidised med-grained quartzite sequence. It is easily discovered with the hand held scintillometer because of the low levels of radiation in the carbonates as you traverse the area. Typically the carbonates have a count of roughly 50 to 60 C/M, where as the quartzite typically has values of around 1200 C/M. The geology in this area generally displays an east west orientation as does the Quartzite bed which has a bearing of roughly 112°. Because of the blocky and broken nature of the area a structural dip for the quartzite bed was difficult to determine. One grab sample was taken and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

The area was assayed in the field with a hand held scintillometer and the results of this are shown in table 5 below.

	PPM	CPM
TOTAL	**76.1**	**2925**
POTASSIUM	**8.1%**	**451**
URANIUM	**9.7**	**204**
THORAMIUM	**122.4**	**100**

Table 5: SCINTILLOMETER READINGS FOR RAD_333.

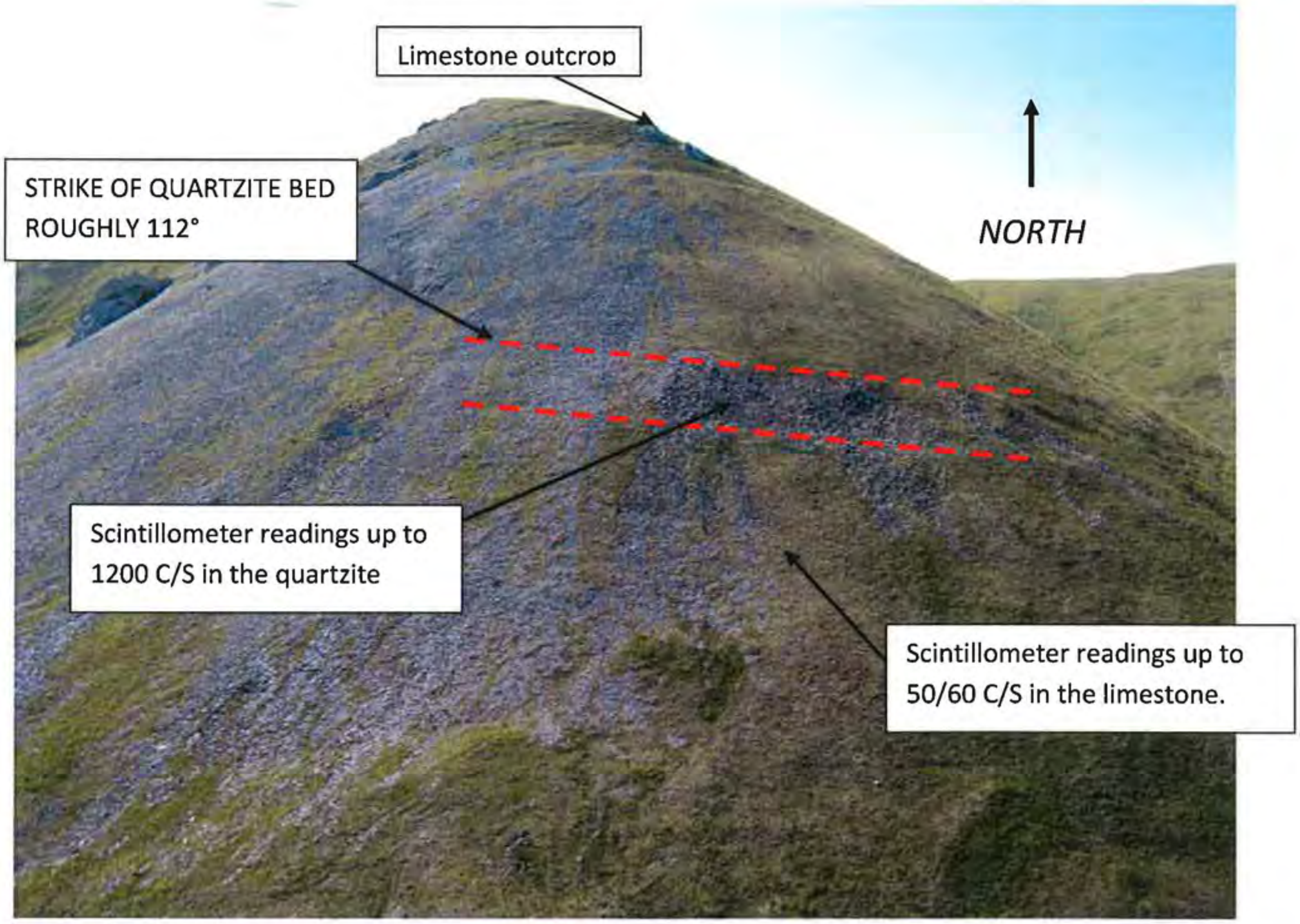


Figure 7: RAD_333

RAD_444

The location of Rad_444 is difficult to determine as there is no obvious zone. It appears that the coordinates point to a contact between the limestones to the north and some green chloritized phyllites to the south, See fig 4. The contact runs roughly 100° to 110° with a dip difficult to determine. See fig 7. There is an abundance of bull quartz that is common at Shell creek and appears to be the source of the chlorite. Unlike other quartz in the area there is no visible gold, chalchocite or malachite staining.

Figure 8: Dark green heavily chloritized sediments.

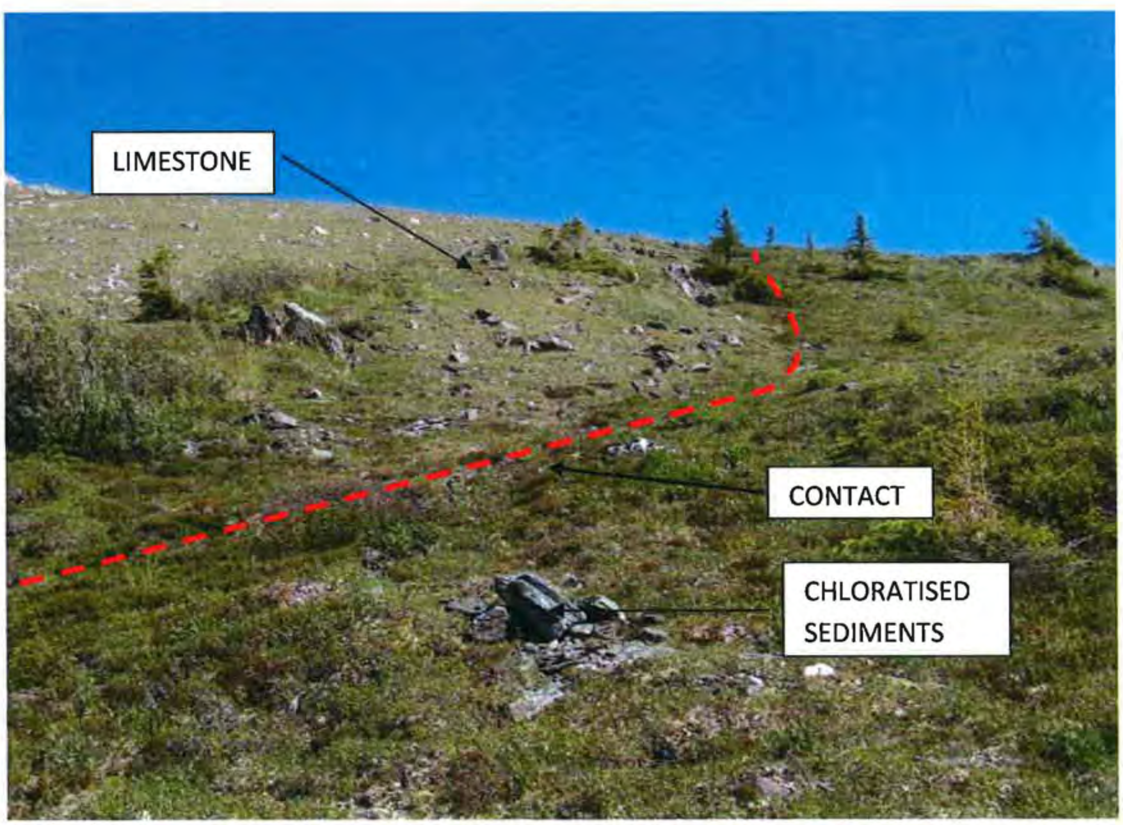


Figure 9: Contact between limestone and chloritic sediments.

Rad_555

The anomaly is located in a narrow medium grained oxidised quartzite bed roughly 25m across at surface. Mineralization in the quartzite is dissemimated oxidized pyrite. The quartzite horizon is flanked on both sides by shale units. Thinly bedded platy dark gray / black shale to the north that grades into winey/purple shale and then winey shale to the south that grades into a limestone.

Scintillometer readings 300m to the north of the quartzite bed putting you in the limestone give scintillometer readings of 30 C/S. Radiometric counts increase slightly as you cross into the shales where readings of 95 C/S are seen. Five small pits were dug in the quartzite horizon and are labelled 816901, 816902, 816903, 816904 and 816905. Assay results of the quartzite from these test pits can be seen in Appendix 1.

816901	ELEMENT	PPM	CPM
TOTAL		56.6	2178
	POTASSIUM	7.3%	389
	URANIUM	22.1	153
	THORIUM	55.5	46
816902	ELEMENT	PPM	CPM
TOTAL		79.9	3072
	POTASSIUM	7.2%	461
	URANIUM	11.6	242
	THORIUM	144.7	118
816903	ELEMENT	PPM	CPM
TOTAL		91.3	3513
	POTASSIUM	3.7%	419
	URANIUM	21	305
	THORIUM	164.8	136
816904	ELEMENT	PPM	CPM
TOTAL		61.5	2365
	POTASSIUM	10.9%	447
	URANIUM	0	116
	THORIUM	98.1	79
816905	ELEMENT	PPM	CPM
TOTAL		71.7	2757
	POTASSIUM	11.0%	501
	URANIUM	0.0	169
	THORIUM	126.3	103

Table 6: SCINTILLOMETER READINGS FOR RADD_555

Two Mobile Metal Ion (MMI) soil sample lines were placed over the quartzite horizon in a north south orientation to see if any anomalous geochemical signature could be picked up. There were 8 points in each line with a line spacing and sample spacing of 25 metres. The results of these are in appendix 2, (MMI results).

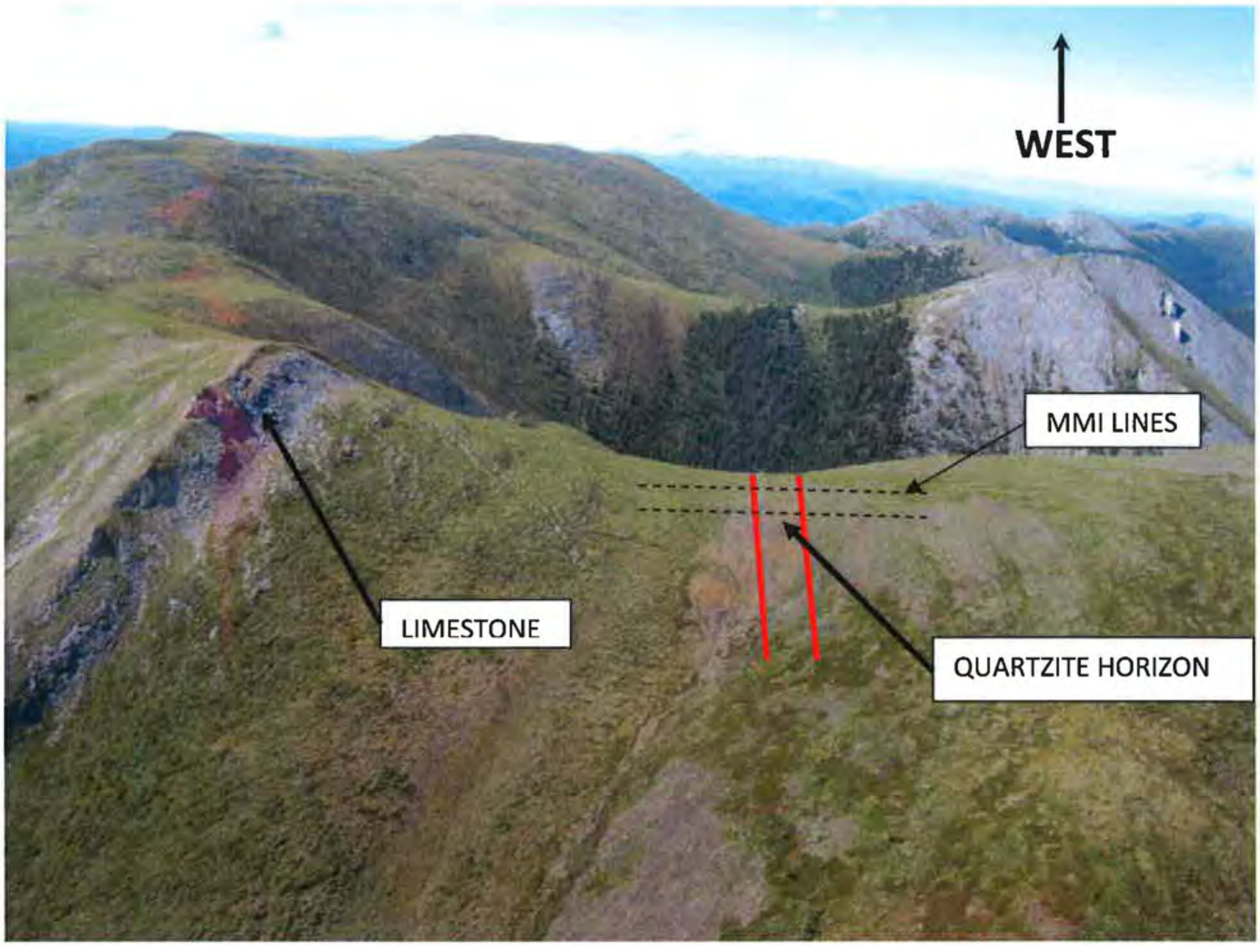


Figure 8: Aerial photograph of RADD_555, looking west.

RAD_666

Figure 9: RAD 666

Rad 666 is located in a densely wooded area of stunted poplar and black spruce that suffered a burn in the recent past (last 10 years or so). The anomaly seems to be coming from an exposed area see (Fig 11) that is generally composed of a silty cream to light brown coloured clay with minor amounts of ash. The area was mapped in as Arkosic sandstone ?. The photo above is looking in a north direction so flight lines would have picked the exposed face head on and this could have influenced the anomaly i.e. made it stand out.

Below is a table showing the observed ground readings from the hand held scintilometer at UTM coordinates 0534644, 7156156

	PPM	CPM
TOTAL		215 to 286
POTASSIUM	2.7%	663
URANIUM	0.0	22
THORIUM	17.1	14

INTERPRETATION AND RECOMMENDATIONS:

The higher radiometric anomalies on the property appear to be mainly associated with an oxidised, fine to medium grained pebbly quartzite horizon. It has been postulated that detrital zircons could be responsible for the slightly elevated radiometric readings, but more likely is that remobilised fluids with a slightly elevated uranium signature have preferentially passed through some of the quartzite beds.

The anomalies are weak and as of yet not given any indication to be of any economic potential however some of the radiometric readings with the hand held scintilometer did increase when an effort was made to dig down to less weathered material. One or two of the anomalies are coincident with magnetic highs (see mag map with rads on it), and could represent fluids from a buried intrusion that were mobilised and concentrated in the favourable matrix of the quartzite. This would also account for the slight pyritization of these quartzite units.

A recent soil survey in the area of RAD 111 noted that "Two metallogenetically significant anomalies have been defined by the survey. These include an ovoid to semi-circular AuRR-URR-CeRR anomaly and a linear northeast-trending Bi-Pb-Zn-Cu anomaly that is encapsulated by the former. The morphology and constituent elements contained within these two anomalies are suggestive of Olympic Dam-type mineralization with a base metal overprint"

- The area should be trenched to see if less weathered material could be revealed.

- These areas of coincident radiometric and magnetic highs warrant further investigation, as they are potential targets for economic mineralisation.

Appendix G

Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on the Shell Creek Property of Logan Resources Ltd.

Prepared By: Mount Morgan Resources Ltd.

Results Of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on The Shell Creek Property of Logan Resources Ltd., Ogilvie Mountains, Dawson Mining District, Yukon Territory, Canada

February 9, 2009

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EXECUTIVE SUMMARY

A Mobile Metal Ions (MMI-M) soil geochemical survey undertaken on the Shell Creek property of Logan Resources has delineated two distinctive and yet associated anomalies that are metallogenetically significant. These include a large, ovoid-shaped Au-U-Ce anomaly that is developed over 50% of the claim group. Within this anomaly and at its western edge is a linear, northeast-trending Bi-Pb-Zn-Cu anomaly that trends off of the claim group to the southwest. These anomalies are primarily developed in inorganic soil samples but there are contributions to the overall pattern by organic soil samples.

The Au-U-Ce anomaly has overtones of Olympic Dam type mineralization however integrated geophysical and geological surveys may provide more evidence for this possibility. The Bi-Pb-Zn-Cu anomaly appears to be the geochemical signature of a separate mineralizing event.

The analysis of inorganic and organic soil using MMI-M extraction, sample spacing on the grid and the character of the samples are adequate to delineate precious and base metal anomalies.

Data integration should be attempted prior to further exploration on the property including diamond drilling.

PREAMBLE

The exploitation of mineral commodities in the near-surface geological environment has become increasingly difficult due to the exhaustion of mineralization exposed at surface and the mantling of prospective bedrock by glacially transported till and its derivatives. Thick glaciofluvial and glaciolacustrine sediments topped by organic deposits make mineral exploration in these terrains challenging. For this reason a plethora of innovative exploration geochemical selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-parts per billion ranges, have been developed. These techniques offer the explorationist tools to "see through" overburden and derive useful mineral exploration data for integration with geology and geophysics and ultimately for drill-testing multivariate anomalies. Disrupted overburden, such as that observed with logging practices (scarification), tends to complicate MMI responses although modified sampling practices can be adopted to rectify this disturbed environment. Areas affected by landslide are also complicating factors.

The proprietary Mobile Metal Ions Process (MMI) soil geochemical technique has been utilized on a wide range of commodity types from base and precious metals to diamonds worldwide. The Process is based upon proprietary partial extraction techniques, specific combinations of ligands to keep metals in solution, and relies on strict adherence to sampling protocols usually established during an

orientation program. Geochemical data resulting from MMI analysis of improperly collected soils cannot be ameliorated with univariate and/or multivariate statistical and/or graphical solutions.

The recognition of anomalies in geochemical data has progressed from simple visual inspection in small data sets to multivariate, parametric and non-parametric or robust statistical methods for large datasets usually extracted from regional geochemical surveys. Derived parameters from these statistical exercises, such as factor scores or discriminant functions, have been successfully utilized in reducing a large number of potentially useful variables to a select few variables that identify and localize anomalous geochemical signatures. These statistical approaches have been required to manipulate accurate and precise, low-cost, multi-element geochemical data.

The MMI technology uses a different approach to exploration geochemistry by analyzing soils for a select few commodity elements upon which to base property evaluations. Having stated this, the MMI-M multi-element suite that was utilized to analyze inorganic soils from the Shell Creek property survey comprises analyses for 45 elements. These consist of a multi-element suite that reports ppb and sub-ppb analyses for base and precious metals, pathfinder elements for these commodities, as well as elements useful for mapping bedrock geology obscured by glacial overburden and its derivatives. A small number of elements in this package report in the parts per million ("ppm") concentration range (Al, Ca,

Mg, and Fe). The large number of elements in the database provides an opportunity to assess an area of interest for a wide range of metallic mineral deposits with only minor drawbacks in terms of lower limits of determination. The specific details of this assessment are described below.

TERMS OF REFERENCE

The author of this report was contracted by Mr. Seamus Young of Logan Resources Ltd. to undertake the interpretation of Mobile Metal Ions soil geochemical survey data from the Shell Creek property of Logan Resources Ltd. The Shell Creek property is located in west-central Yukon Territory, Canada, on the north shore of the Yukon River approximately 75 km (47 miles) northwest of Dawson City. This report represents a final interpretation of work and is completed with recommendations for follow-up exploration. The MMI-M survey was undertaken to assess the property for MMI-M geochemical signatures related to Olympic Dam-type copper-uranium-gold-rare earth element mineralization in the area. Anomalous copper and uranium in stream sediment geochemical samples in the area plus gold showings on the property support the potential for the existence of this type of mineralization in the Proterozoic-age rocks on the property.

APPROACH TO THE SURVEY

The Shell Creek MMI-M exploration survey, including the use of Mobile Metal Ions Technology undertaken by Logan Resources was designed to assess the

survey area for high-contrast geochemical signatures for Olympic Dam-type Cu-Au-U-REE (rare earth element) mineralization. Overburden cover and mineralization that is essentially blind in many parts of the property has hindered exploration and the MMI survey is an attempt to provide a tool for focused exploration. The proximity of Wernecke breccias nearby has prompted the search for the Olympic Dam mineralization.

SAMPLE COLLECTION AND ANALYSIS

In MMI surveys there are some general approaches that are used to guide sample collection including preferred depths of sampling and these are described briefly here. Additional information is also available from the SGS website (www.sgs/geochemistry.com).

Soil samples, each weighing approximately 250 grams, are usually collected at variable sample spacing along single transects over known mineralized zones or extrapolated trends of these zones. Generally, 25-m stations in precious metal exploration and up to 50 m in the case of base metals are the routine spacing. Sample spacing should be established on the basis of a "best-estimate" of the likely target being sought with estimates from historical data or exploration results from nearby programs. Initially, samples are often collected at a closer spacing until it is determined that a larger spacing is appropriate to the target being sought. At the Heidi property soils were sampled at a depth of 10-25 cm below the active or live organic layer or the point at which soil formation is initiated in

this environment. The sample collected between10-25 cm is a continuous 15 cm long plug of sediment or a continuous vertical channel of sediment.

Samples are bagged on site without preparation and shipped to SGS Laboratories (Toronto, Ont.) for MMI-M analysis. The MMI-M is a neutral extraction with analytical finish by inductively coupled plasma-mass spectrometry (ICP-MS).

A review of sample collection information provided by Logan Resources indicates that this approach to sampling has resulted in both inorganic and organic soil samples being submitted for analysis. Sampled material was a variably-colored sand-silt-clay collected from the B-horizon and humified organic material from the A-horizon. Gentle to steep slopes are present in the survey area and permafrost was encountered locally. Most samples were described as being damp. A total of 336 soil samples were collected for this survey.

DATA TREATMENT AND PRESENTATION

In exploration surveys where sampling and analytical protocols have been determined by an orientation survey, analytical data is examined visually for analyses less than the lower limit of detection (<LLD) for ICP-MS. Data <LLD are replaced with a value ½ of the LLD for statistical calculations and graphical representation. For most exploration surveys, MMI data is plotted as response ratios. For the calculation of response ratios the 25th percentile is determined

using the software program SYSTAT (V10) and the arithmetic mean of the lower quartile used to normalize all analyses. The normalized data represent "response ratios" which are then utilized in subsequent plots. Zeros resulting from this calculation are replaced with "1". Response ratios are a simple way to compare MMI data collected from different grids, areas and environments from year to year. This normalized approach also significantly removes or "smoothes" analytical variability due to inconsistent dissolution or instrument instability. For the Shell Creek survey the interpretation is based on response ratios.

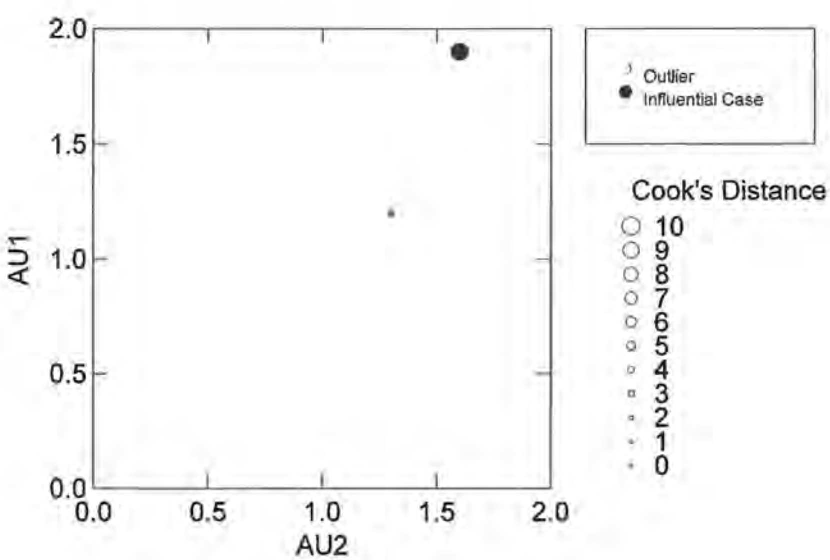
Analytical data as received from SGS Mineral Services and Logan Resources is presented in Appendix 1 along with sample descriptions. Analytical data from analytical duplicates, replicate analyses of standard MMI reference materials and analytical blanks are given in Appendix 2 as "QAQC". The 25th percentiles and backgrounds used to calculate response ratios are included in Appendix 2 with the edited analytical data. The variation in concentration of MMI-M suite elements on the property is discussed in a geochemical narrative based on bubble plots produced with ARCVIEW software. Prior to plotting organic and inorganic samples were separated and response ratios calculated separately. In this way geochemical flux in both organic and inorganic samples can be reviewed for each population.

RESULTS

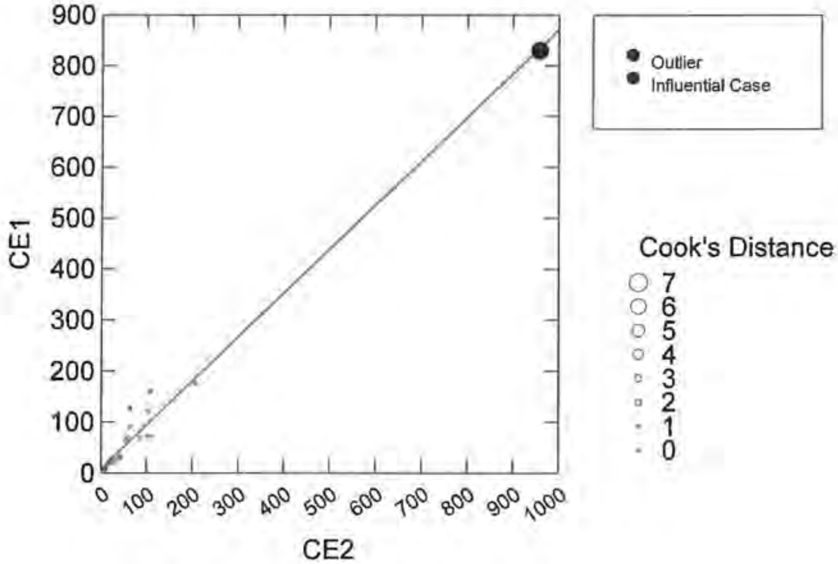
Data Reproducibility-Analytical Duplicates

Analytical duplicate sample analyses are presented below as simple linear regression plots and in Appendix 2 and permit an assessment of the ability to reproduce analyses at a wide range in concentration. It is observed that the duplicate pairs exhibit a very high degree of reproducibility across a wide range in concentration for most MMI-M elements including the base metal commodity elements Au, Cu, Ce and U. Any variability that exists between duplicates is within +/- 25% and as such is interpreted not to be a hindrance to interpretation and the recognition of *bona fide* trends in the dataset. Most variability occurs at or near the lower limit of determination ("LLD"). The excellent analytical reproducibility for the important commodity elements Au, Cu, Ce and U is demonstrated in the simple linear regression plots below.

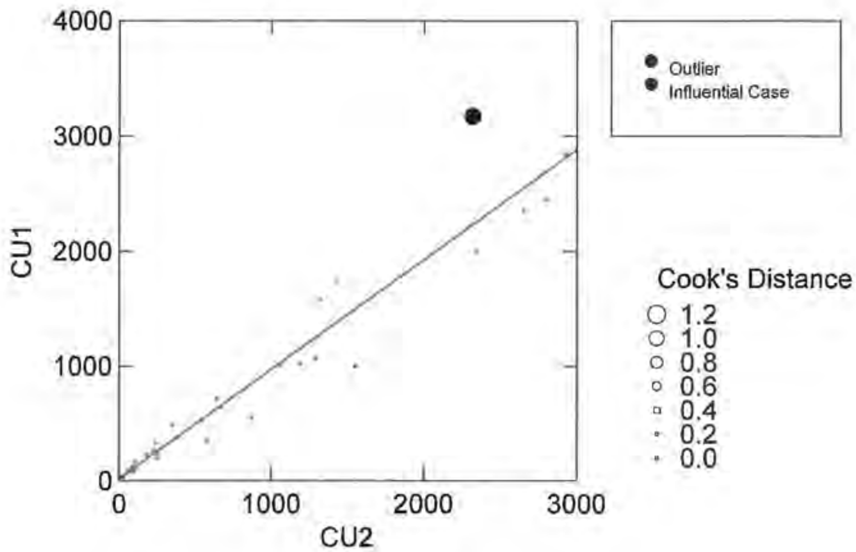
Outliers and Influence

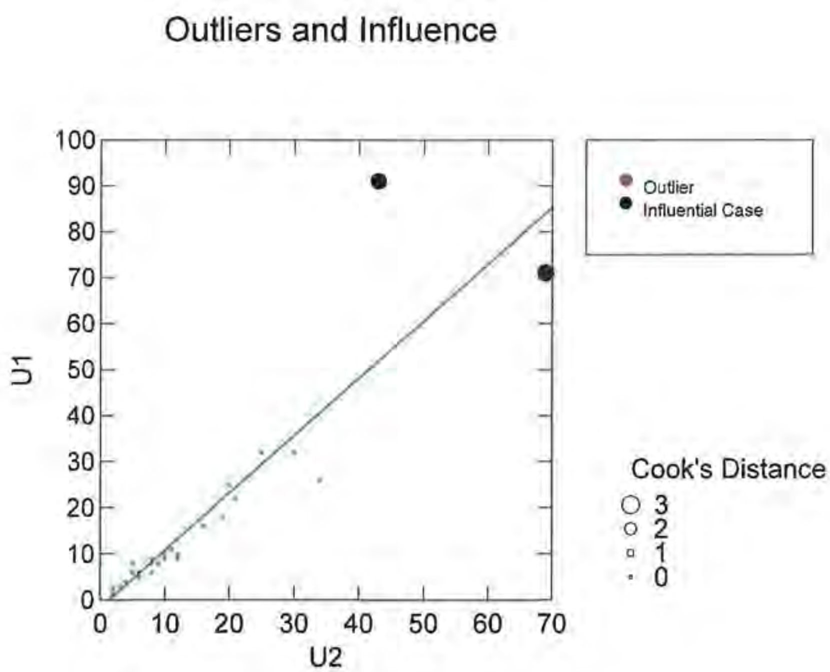


Outliers and Influence



Outliers and Influence





Note: ***Cook's distance is a commonly used estimate of the influence of a data point when doing regression. Cook's distance measures the effect of deleting a given observation. Data points with large residuals (outliers) may distort the outcome and accuracy of a regression.***

Standard Reference Materials

A review of the QC analytical data in Appendix 2 indicates there is excellent agreement of the replicate analyses for the standard reference material MMISRM16 with the accepted or recommended values. This is particularly true for the commodity elements. Minor variation in reproducibility in expected values is observed for some of the rare earths.

Analytical Blank Replicates

A review of the replicate analyses of the analytical blanks (Appendix 2) indicates minor amounts of contamination are present in the blanks. The table below summarizes the elements present and in what quantities for the blanks. This demonstrates the absence of **significant** laboratory-based contamination that is being introduced into the sample.

Summary of detected contaminants in analytical blanks, Shell Creek MMI-M survey.

Element	Samples Reporting	Concentration Level
Al	5	4@ 1ppm, 1@2 ppm
As	1	10 ppb
Au	1	0.3 ppb
Ba	1	10 ppb
Ce	1	5 ppb
Cu	1	20 ppb
Dy	2	1 ppb
Fe	2	1@1 ppm, 1@ 2 ppm
Gd	2	1 ppb
La	6	5@1 ppb, 1@ 2 ppb
Nd	8	5@ 1 ppb, 3@ 2 ppb
Ni	2	1@ 10 ppb, 1@ 9 ppb
Pb	1	10 ppb
Pr	1	1 ppb
Sm	2	1 ppb
Sr	5	2@ 10 ppb, 2@ 20 ppb
Th	3	1@ 0.6 ppb, 1@ 0.7 ppb, 1@ 0.8 ppb
Ti	4	2@ 3 ppb, 1@ 4 ppb, 1@ 5 ppb
U	1	1 ppb
W	2	1 ppb
Y	2	1@ 6 ppb, 1@ 8 ppb
Zn	1	20 ppb

Data Description

The Shell Creek MMI-M dataset is marked by several elements that are at or below the LLD. These include Au, Bi, Cr, Li, Mo, Nb, Pd, Pt, Sb, Sn, Ta, Tb, Te, Tl and W. Some of these elements are typically less mobile than Cu or Zn and their presence in measurable quantities in a small number of samples is testament to this. The high percentage of samples with Au contents <LLD in this survey is not surprising given the very low mobility of Au in the surficial/secondary environment. It is worth noting that the diagnostic signal of a significantly mineralized zone will generally produce moderate- to high-contrast apical responses over the target; however, away from the mineralization at "background" locations there may be no trace of the presence of a specific metal in the analysis. This is another consideration when viewing MMI data-the presence of significant numbers of elements < the LLD is not necessarily cause for concern or that the MMI extraction is not working or has been "buffered" by soil composition. The MMI process is designed to only extract metals that are moving from source to surface and characteristically report metal contents in low ppb concentrations.

Method of Interpretation

Multivariate statistical and graphical techniques were not utilized for the interpretation of MMI data in the Shell Creek survey interpretation. A simple

visual approach was used. The MMI-M data was examined for anomalous spikes or groups of elevated responses for single and/or coincident elements. Element groupings such as Au-Ag, Au-Ag-Pd, Zn-Cd, Ni-Co, Ni-Co-Ag and Ni-Cu all have relevance to underlying geological conditions and their contained mineralization and are used to assist the rankings of any particular MMI response in terms of follow-up.

When concentration-only data is reviewed unique "spikes" or anomalous responses are assessed. When response ratios are used there are general guidelines brought to bear on the interpretation. Generally, a response ratio of <10 indicates less than interesting responses and is usually an indication of the lack of a significant mineralized zone in the bedrock underpinning the survey area. A response ratio >20 or 20 times background is an initial indication of a low-contrast anomalous response although this "threshold" is not universal. A response of between 21 and 50 is used as a moderate response with RR>50 being referred to as high contrast. Often, pattern recognition in the interpretation of geochemical data is paramount. These parameters were applied to the interpretation of MMI-M geochemical data from the Shell Creek property.

AREAL DISTRIBUTION OF ANOMALOUS RESPONSES IN THE SHELL CREEK MMI-M SURVEY AREA

ARCVIEW Bubble Plots

The variation in concentration and the resulting morphologies of anomalous responses in the MMI-M data from the Shell Creek survey area are described in

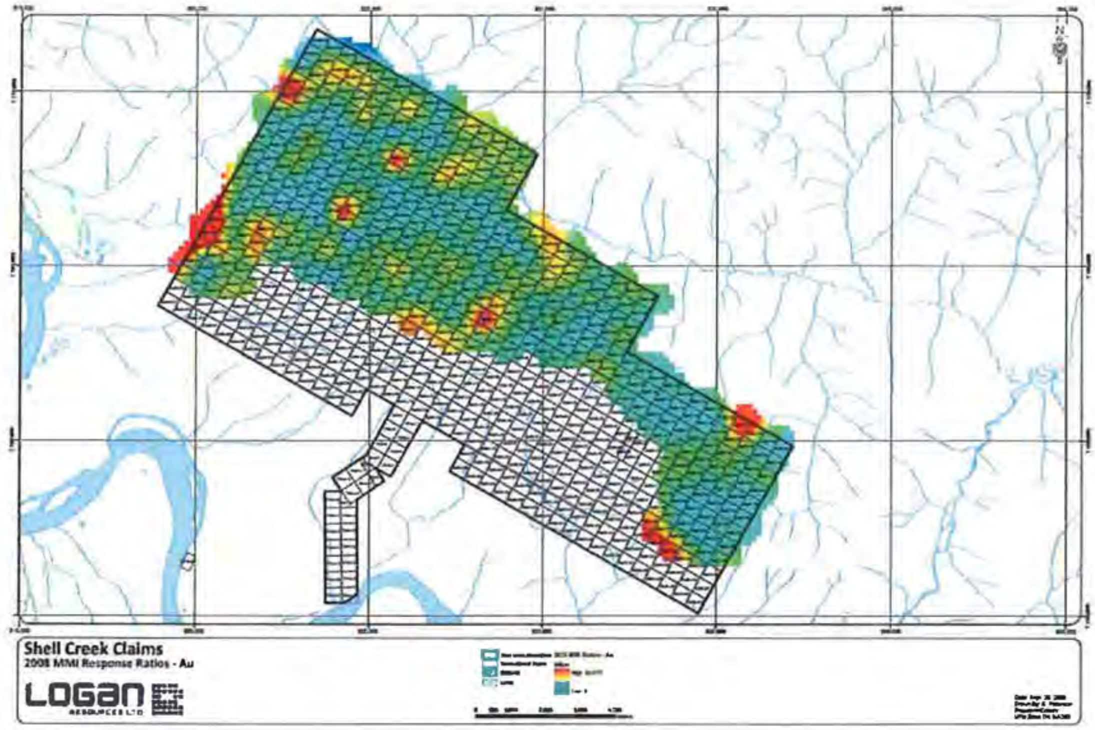
the following section. All plots of MMI-M suite elements considered to be significant are available for viewing in Appendix 3. The plots are produced so as to provide a different symbology for the individual sample types. That is, organic and inorganic soils are given a distinctive symbol (triangles for inorganic soils and circles for organic soils) so that responses on the grid for each of these different sample types can be deduced from one another. Plots of MMI-M geochemistry are draped upon topography including streams and lakes and also claim boundaries. The individual responses are presented as bubbles whose diameter is directly proportional to the magnitude of the geochemical response (as response ratios) and they are also color-coded so that hot colors represent high responses and the cooler colors indicate low responses.

Precious and Related Metal Responses (Au, Ag and As)

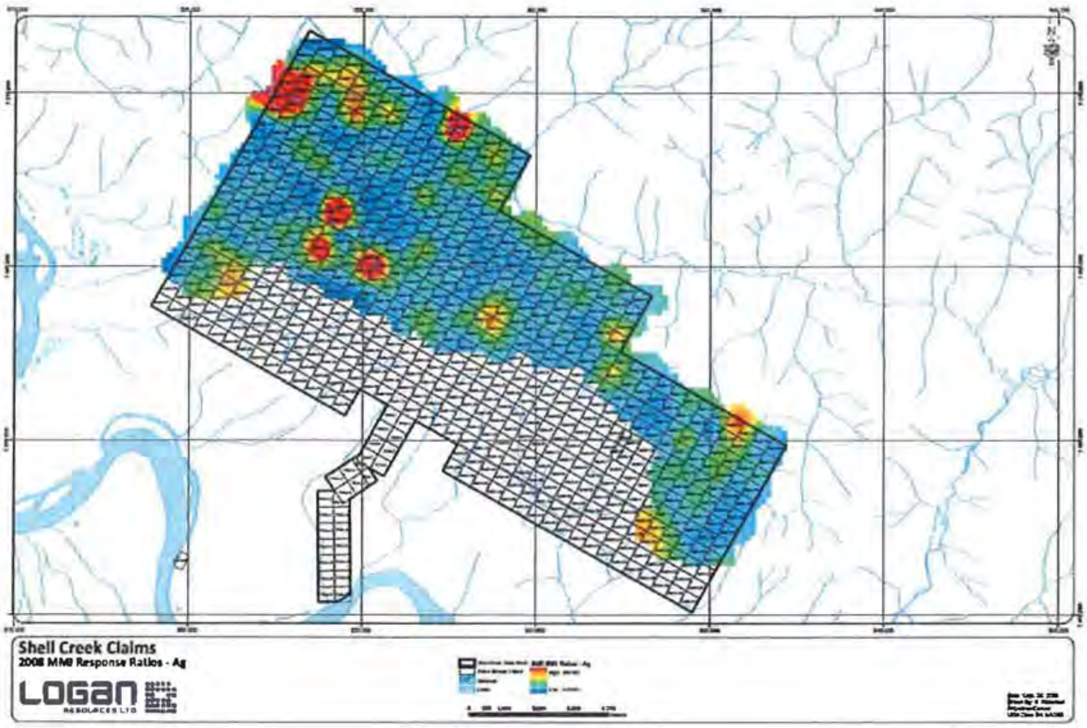
AuRR (1- 76): Gold anomalies on the property are entirely single-sample responses that are widely scattered across the survey area and are without apparent linkage. There is limited correspondence between Au and As responses except for the area near the western edge of the survey grid where overlap between these two elements is noted. There is a total of seven AuRR single-sample anomalies on the property.

If lower-contrast responses (yellow on the figure) are combined with the high-contrast responses then a crude, large scale ovoid anomaly is developed and centered in the more northerly portion of the claim group. This anomaly covers approximately 50% of the survey area. The origin of this anomaly is unknown

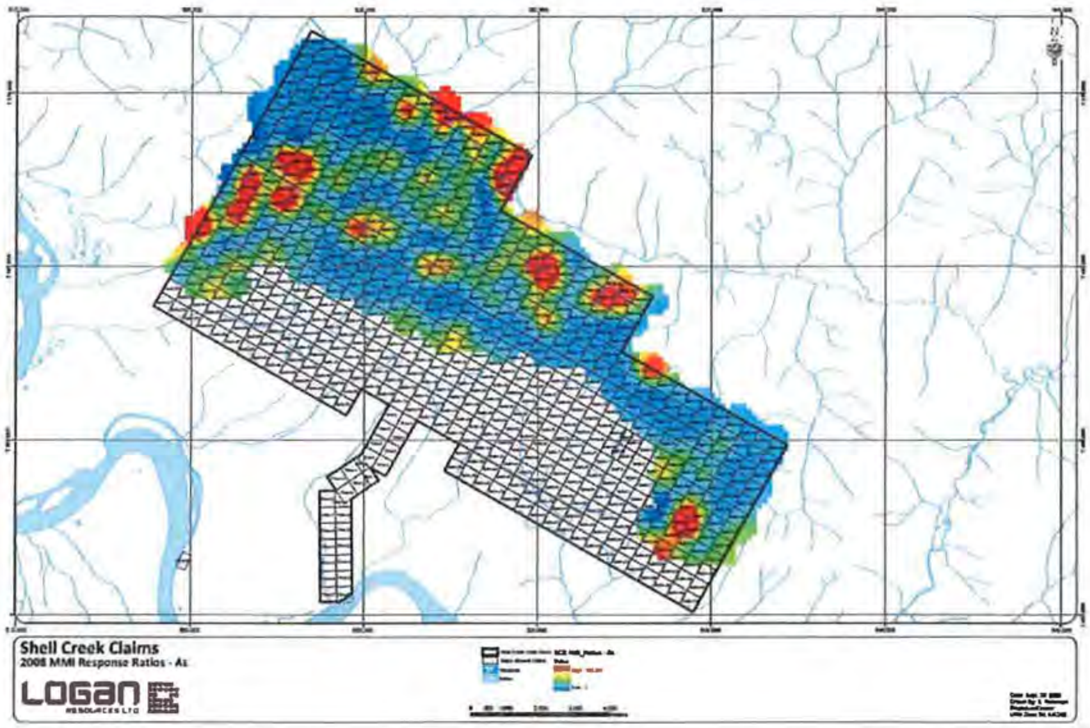
however it is likely directly linked to the distribution of Au in the rocks that underpin the survey area.



AgRR (1- 395): The Shell Creek grid is marked by five areas of significantly elevated Ag responses. Four of these are single sample anomalies and include both organic and inorganic soil samples. The main area of elevated response occurs at the northern tip of the claim group and consists of multiple inorganic soil samples with moderate- to high-contrast responses. The anomaly has a somewhat arcuate morphology band is open to the west. The maximum response in the survey area is 395 times background.

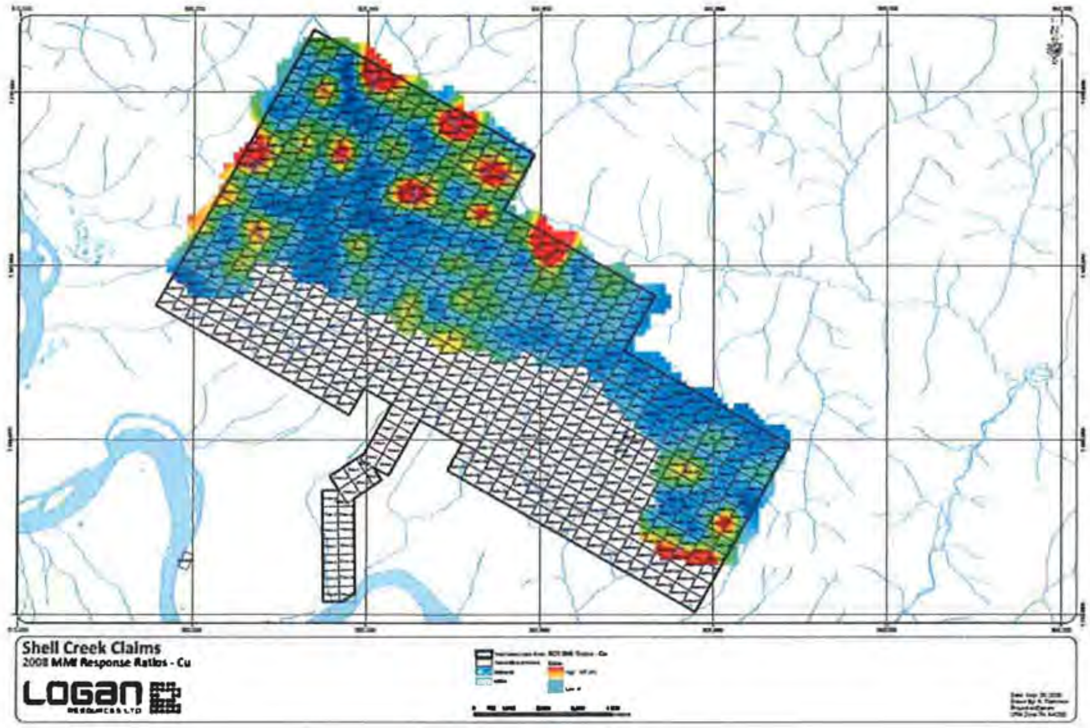


AsRR (1- 200): There are numerous one to three sample AsRR anomalies on the Shell Creek grid although none of these are coincident with the AgRR anomalies. Some of the anomalies are noted to be adjacent to stream courses suggesting the possibility that the elevated responses in both organic and inorganic samples are related to hydromorphic dispersion of As from arsenopyrite-bearing mineralization. The northeast area of the grid and to a lesser extent the western edge of the grid are marked by anomalous responses developed at the extremity of sampling. This suggests the anomalies are not truncated and are open in these areas.

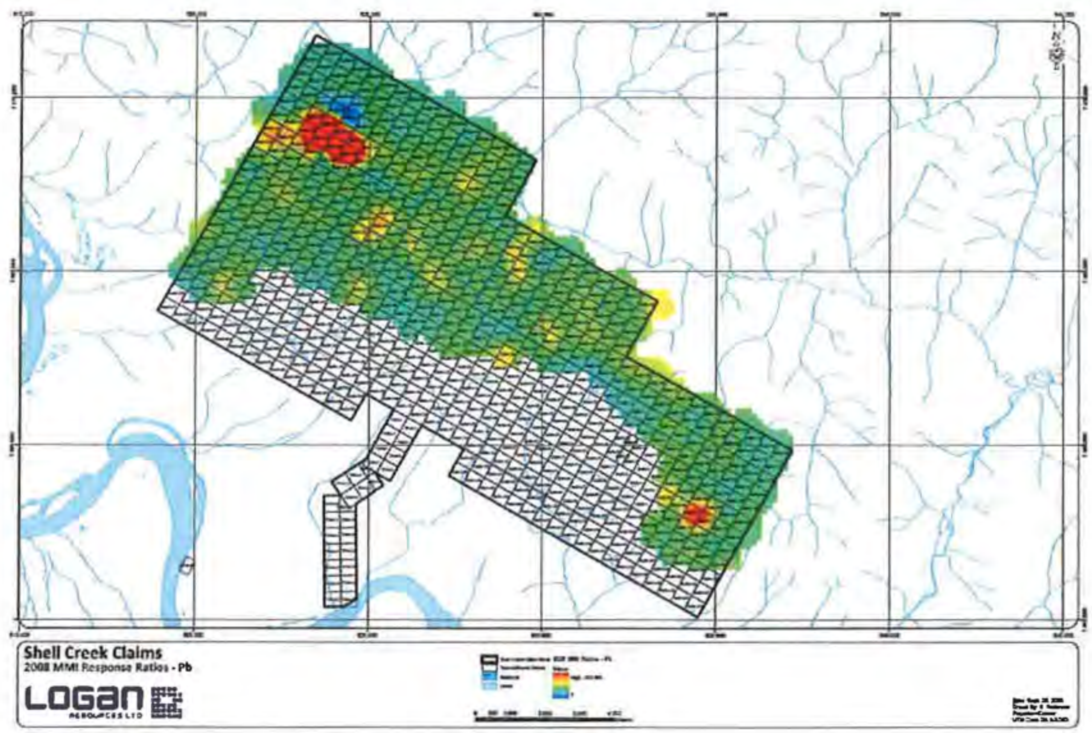


Base and Related Metal Responses (Cu, Pb, Zn and Bi)

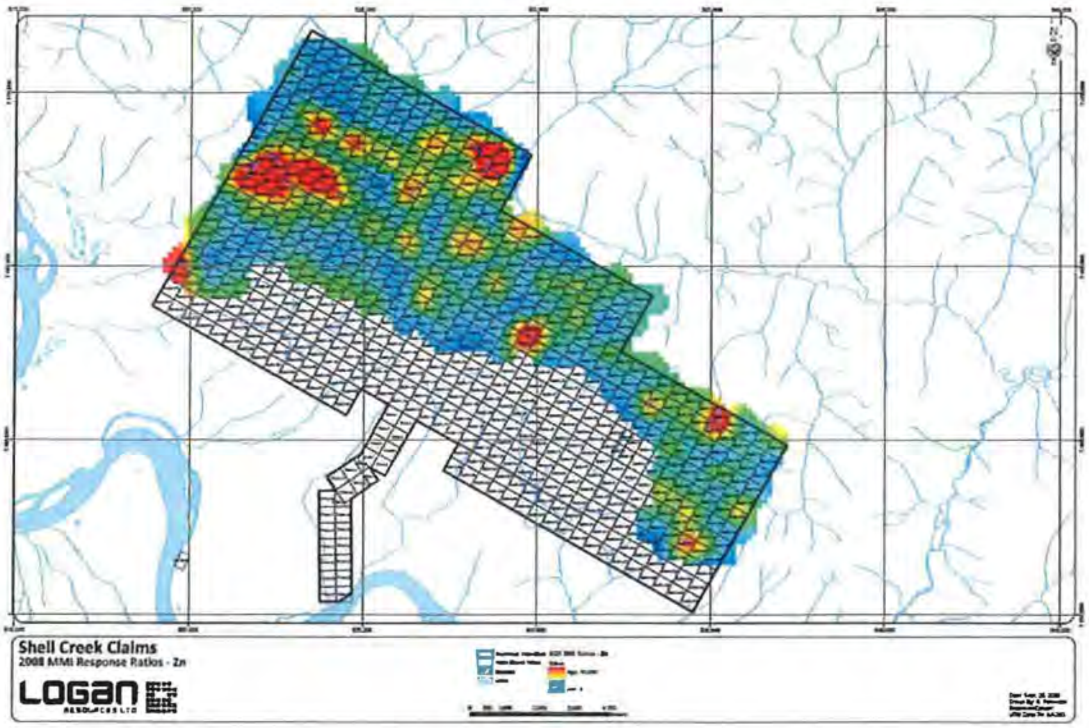
CuRR (1-176): There are ten individual CuRR anomalies defined on the Shell Creek grid and interestingly all of these anomalies are developed in organic soil samples. The anomalies are present along the northern portion of the survey area and also provide a crude indication of the areally-extensive ovoid of AuRR responses. The Cu anomalies are one- to three-sample anomalies and in many cases are situated adjacent to stream courses. Single-sample anomalies are developed in association with the linear Bi-Pb-Zn anomaly described below.



PbRR (1- 401): The northern Shell Creek survey area has a single, multi-sample anomaly that is developed in both organic and inorganic soils. The Pb anomaly is coincident with the northeast tip of the linear Bi anomaly and is encapsulated by the circular AuRR anomaly. This observation tends to support the presence of metal zonation in the bedrock underpinning the claim group in this area.

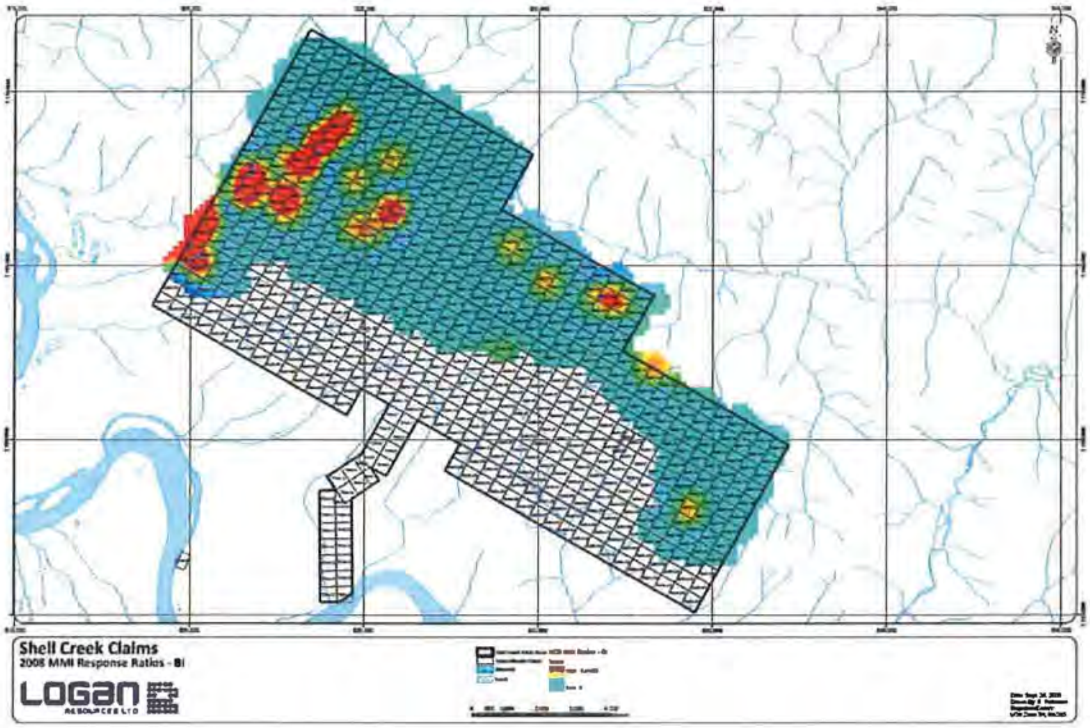


ZnRR (1- 142): Similar to the PbRR anomaly, the most significant ZnRR anomaly, comprising multiple organic and inorganic soil samples, is coincident with the linear Bi anomaly. Elsewhere on the claim group ZnRR anomalies tend to be single-sample elevated responses developed in isolation from one another. They do not define a cohesive anomalous response.



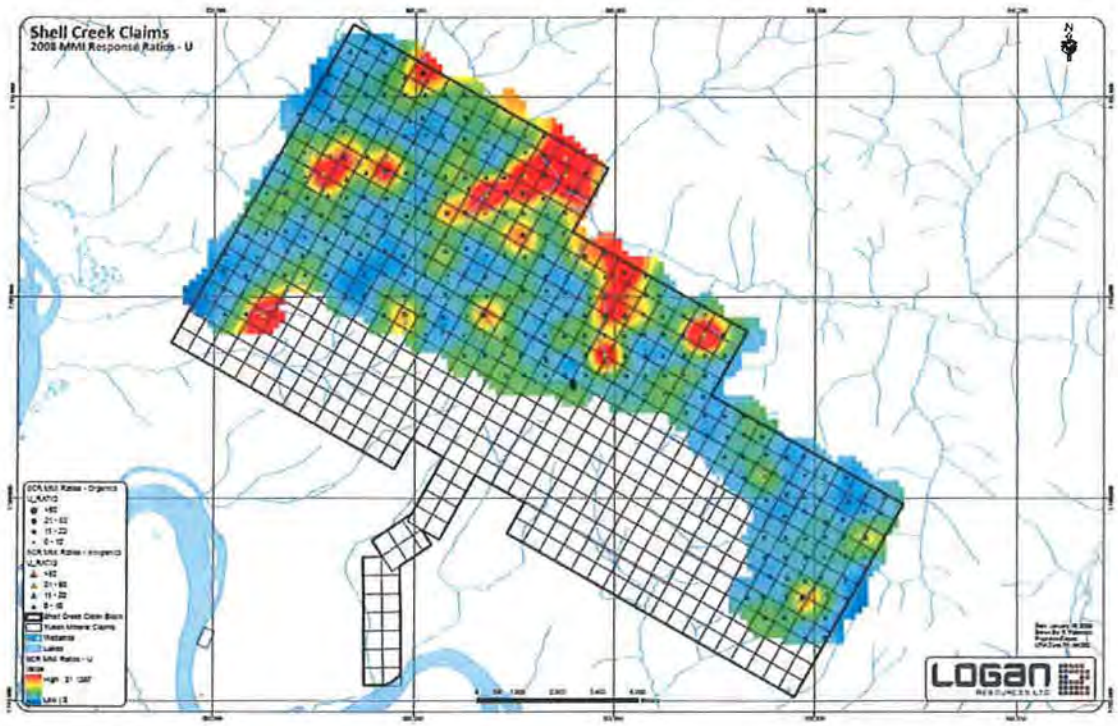
BiRR (1- 38): A very-high-contrast, multi-sample, northeast-trending Bi anomaly is documented from the western edge of the grid. This anomaly trends off of the claim group and likely continues to the southwest. This anomalous response is strongly coincident with elevated AsRR but much less coincident with observed Au and Ag anomalies. This is strongly suggestive of metal zonation in the bedrock in this area. Elsewhere on the grid, particularly to the east and southwest, elevated BiRR consisting of widely separated, low-contrast responses predominate. There is no indication of the circular or ovoid anomaly documented in the Au data for the Bi results. All BiRR anomalous responses are developed

from the analysis of inorganic soil samples.

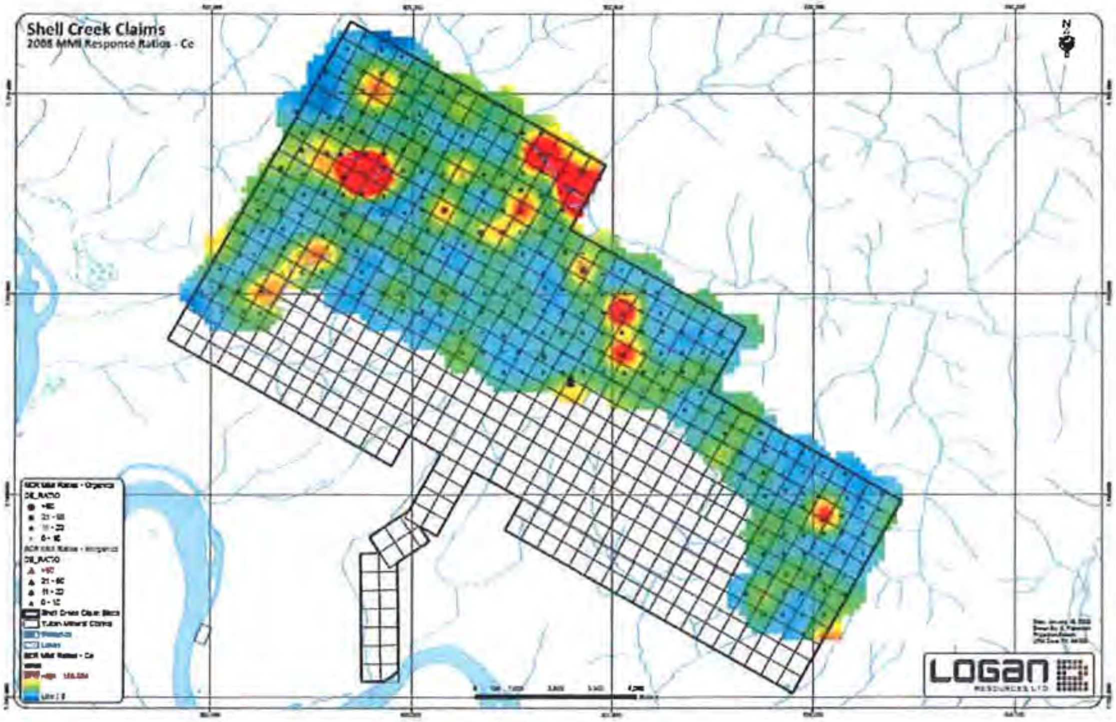


Additional Commodity Elements (U and Ce)

URR (1-31): Broad, moderate-contrast URR responses with maximum responses of 31 times background are observed along the northern edge of the claim boundary. These are multi-sample responses for primarily inorganic soils but also for lesser numbers of organic soil samples. The shape of the anomaly is arcuate and approximates the ovoid shape of the previously described AuRR anomaly although the URR anomaly is less well-defined. Elsewhere on the claim group elevated URR are present as single-sample, isolated responses.



CeRR (1- 160): The light rare earth element Ce, as a representative of the geochemically coherent REE, produces patterns of anomalous responses that approximate those for AuRR and URR. The CeRR anomaly is developed at the northern claim boundary and has an arcuate morphology. The definition of the anomaly is based upon organic and inorganic soil sample analyses. The maximum response ratios are 160 times background.



OBSERVATIONS and DISCUSSION

General Comments

This MMI-M survey at the Shell Creek property of Logan Resources has identified two significant types of anomalies based on constituent elements and anomaly morphology. The first of these is an arcuate to ovoid AuRR-URR-CeRR anomaly situated at the northern claim boundary. Despite the crude definition of this circular response it is present in multiple samples and for the elements U and Ce as well. This anomaly likely extends past the claim boundaries. The second significant feature is a somewhat linear, northeast-trending Bi anomaly that extends off of the claim group to the southwest. This is a strong base metal anomaly with associated Pb-Zn-Cu anomalous responses albeit there are only single sample anomalies for Cu in this feature. The Bi-Pb-Zn-Cu anomaly is

developed within the larger Au-U-Ce ovoid and both of these features are interpreted to be reflective of mineralization within the bedrock. It is possible the ovoid Au-U-Ce anomaly is an earlier phase of mineralization and the linear Bi-Pb-Zn-Cu anomaly has been subsequently superimposed on the ovoid although follow-up examination of this possibility would determine the validity of this scenario.

Soil Types

In the Shell Creek survey, soil samples were collected at a consistent depth of 10-25 cm below the active or non-humified organic layer. In the majority of cases this depth resulted in the collection of an inorganic soil sample. In some cases this resulted in the collection of an organic sample. Although there is no statistically significant difference in metal contents between organic and inorganic soil samples analyzed with MMI-M the results from the Shell Creek survey indicate that the inclusion of organic soil samples can result in some variance in the geochemical patterns observed in the survey results. This variance can be recognized by the nature of the response whereby a single elevated organic soil sample that is developed in isolation from adjacent organic and inorganic soil samples can likely be ignored. Further, if there is available geophysics or geology in the vicinity of the organic anomaly then the possibility of a *bona fide* anomaly can be reviewed in terms of additional information. This feature does not seem to place any restrictions of the *bona fide* nature of the anomalies at Shell Creek. In the Shell Creek survey the multi-element and multi-sample anomalies are based

primarily on inorganic soil samples and the results are not skewed by the inclusion of organic soils in the database. This possibility was avoided by extracting the organic soils from the database and calculating response ratios for them separately.

Data Quality

The Shell Creek survey was undertaken with a significant component of quality control sampling. Analytical duplicates were assessed with simple linear regression and demonstrate the quality of data used for interpretation is excellent such that the data is not a hindrance to the recognition of *bona fide* anomalies. Replicate analyses of analytical blanks indicates no significant contamination is being introduced into the sample and the analyses are interpreted to be accurate based on the agreement between the recommended and observed analytical data for the MMI standard MMISRM16.

These observations are of prime importance since properly collected samples without a framework of "QC" provides no assurance that the data is genuinely reflecting the accurate and reproducible distribution of elements of interest in the survey area.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are evident from this MMI-M exploration survey on the Shell Creek property.

1. The survey has successfully demonstrated that MMI-M partial extractions on inorganic and organic soil samples collected from the Shell Creek claim group can isolate MMI-M precious and base metal anomalies. This includes the commodity elements Au, U and Ce and Bi-Pb-Zn-Cu.

2. The Shell Creek survey area is characterized by multiple high-contrast generally coincident and aerially extensive precious metal and associated metal anomalies in the northern portion of the survey area.

3. Two metallogenetically significant anomalies have been defined by the survey. These include an ovoid to semi-circular AuRR-URR-CeRR anomaly and a linear northeast-trending Bi-Pb-Zn-Cu anomaly that is encapsulated by the former.

4. The morphology and constituent elements contained within these two anomalies are suggestive of Olympic Dam-type mineralization with a base metal overprint.

5. Variability in analytical duplicate samples is present but is insignificant in terms of anomaly definition.

6. Sampling materials collected for MMI analysis are effective and appropriate sample media for an MMI survey.

7. The analyses generated by the MMI-M extraction are accurate and precise and are effective for the detection of low- to high-contrast anomalies.

The recommendations that flow from this survey are as follows:

1. The MMI process does not indicate the grade of mineralization responsible for the production of an MMI anomaly nor does it indicate the depth of the source region for the anomaly. Accordingly, it is strongly recommended that an attempt at modeling the geological setting of the target mineralization based on their geophysical responses with emphasis on depth to source be undertaken prior to a diamond drill program. This exercise can greatly assist the drilling when attempting to provide explanations for the geological context of geophysical and MMI anomalies. The attitude of the target can be effectively delineated in this manner.

2. Prior to diamond drill testing the MMI dataset should be integrated with all available geophysical and geological surveys so that multivariate drill targets can be determined.

3. The inclusion of a soil sample to act as a standard in the future is an absolute necessity if the quality of analytical data is to be monitored with field

duplicates. The necessary standards should have a significant range in concentration for the commodity elements of interest.

Mark Fedikow

Mount Morgan Resources Ltd.

Lac du Bonnet, Manitoba

February 9, 2009

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CERTIFICATE of AUTHOR

I, Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P.Eng., P.Geo., do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with a field office at:

   50 Dobals Road North,
   Lac du Bonnet, Manitoba, Canada R0E 1A0.

2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975. In addition, I earned an M.Sc. in geophysics and geochemistry from the University of Windsor and a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney) in 1982.

3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba. I am also a Fellow of the Association of Exploration (Applied) Geochemists, and a Member of the Prospectors and Developers Association of Canada. I am registered as a Professional Engineer (P.Eng.) and a Professional Geologist (P.Eng.) by the Association of Professional Engineers and Geoscientists of Manitoba (APEGM). I am registered as a Certified Professional Geologist (C.P.G.) by the American Association of Professional geologists (Westminster, Colorado, U.S.A.).

4. I have worked as a geologist for a total of thirty-three years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.

5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.

6. I am responsible for the preparation of the technical report titled " Results Of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on The Shell Creek Property of Logan Resources Ltd., Wernecke Mountains, Dawson Mining District, Yukon Territory, Canada"

7. I have not had prior involvement with the property that is the subject of the Technical Report.

8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

9. I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.

10. I consent to the filing of the Technical Report with any stock exchanges or other regulatory authority and any publication by them, including electronic publication in the public company files on the web-sites accessible by the public, of the Technical Report.

Dated this 9th Day of February, 2009.

SIGNED BY MARK FEDIKOW

__________________________.
Signature of Qualified Person

"M.A.F. Fedikow" .
Print name of Qualified Person

APPENDIX 1

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
1	SCRS_1_08	1	Gentle to W, in forest	Moderate	Wet	A	4	Black	No
10	SCRS_10_08	10	Flat, base of mountain, next to creek,	Moderate	Damp/wet	A	3	Black	No
11	SCRS_11_08	11	Steep NW, deep forest	Well	Damp	A	3	Black	No
12	SCRS_12_08	12	Moderate slope W	Well	Damp	B	3	Grey	Yes
13	SCRS_13_08	13	Steep E, deep forest	Well	Damp	B	3	Brown	No
14	SCRS_14_08	14	Moderate slope SW	Well	Damp	B	2.5	Brown	No
15	SCRS_15_08	15	Moderate slope to SE, forest	Well	Damp	B	3	Brown	No
16	SCRS_16_08	16	Flat, deep forest, base of mountain, creek	Well	Damp	A	3	Black	No
17	SCRS_17_08	17	Steep to S, deep forest	Well	Damp	A	3	Black	Yes
18	SCRS_18_08	18	Gentle slope, many trees	Moderate	Damp	B	3	Brown	No
19	SCRS_19_08	19	Gentle slope W, many trees	Moderate	Damp	B	3	Dark brown	No
2	SCRS_2_08	2	Moderate slope to S, thick forest	Well	Damp	B	3	Brown	No
20	SCRS_20_08	20	Gentle slope, grass and tree covered	Well	Damp	B	3	Grey brown	Yes, 250m E
21	SCRS_21_08	21	Moderate slope to E and creek, grass and trees uderlain by broken rock	Well	Damp/dry	A	2	Dark brown	Yes, 250m E downhill at creek - limestone
22	SCRS_22_08	22	Moderate slope W, some trees	Well	Damp	A	3	Dark brown	Yes
23	SCRS_23_08	23	Moderate SE slope, grass covered, some	Well	Damp	A	2	Very dark brown	Yes, to SE on ridge
24	SCRS_24_08	24	Steep E facing slope, vegetation	Good	Moist	B	2	Light brown and	
25	SCRS_25_08	25	Moderate slope to W, near bottom of valley	Moderate	Soggy	B	4	Dark brown and	No
26	SCRS_26_08	26	Downward, NW, valley, some flowers	Well	Damp	B	3	Grey	No
27	SCRS_27_08	27	Steep slope S	Well	Damp	B	3	Dark brown	Yes, at 1m
28	SCRS_28_08	28	Slope S, few trees, lots of shale	Good	Moist	B	2	Black	No
29	SCRS_29_08	29	Grass and moss, 45deg slope N	Well	Damp	B	4	Grey	No
3	SCRS_3_08	3	Moderate slope to S, thick forest	Well	Damp	B	3	Grey brown	No
30	SCRS_30_08	30	Steep to S, very vegetated area	Good	Damp	B	4	Silvery grey	No
4	SCRS_4_08	4	Gentle to W, bottom valley	Moderate	Damp	B	4	Dark grey	No
43	SCRS_43_08	43	Moderate W slope	Well	Wet	B	3	Greyish brown	Yes
44	SCRS_44_08	44	Moderate W slope	Moderate	Wet	A	2	Black	No
45	SCRS_45_08	45	Steep W slope	Well	Dry	A	1	Brown	No
46	SCRS_46_08	46	Steep E slope	Well	Damp	A	2	Black	Yes
47	SCRS_47_08	47	Gentle	Moderate	Dry	A	2	Brown	Yes
48	SCRS_48_08	48	Steep W slope	Well	Dry	B	2	Brown	Yes
49	SCRS_49_08	49	Moderate SE slope	Well	Wet	B	3	Brown	No
5	SCRS_5_08	5	Moderate slope to N	Moderate	Damp	A	4	Black	No
51	SCRS_51_08	51	Steep slope W	Moderate	Damp	B	3	Dark - black	No
52	SCRS_52_08	52	Steep slope	Well	Dry	B	2	Dark Grey	Yes, lots
53	SCRS_53_08	53	Steep slope SE	Well	Dry	B	2	Dark	Yes, lots
54	SCRS_54_08	54	Steep slope S	Well to moderate	Dry/Damp	B	1	Dark Grey	Yes
6	SCRS_6_08	6	Steep slope to SW	Well	Damp	B	3	Dark brown	No
7	SCRS_7_08	7	Moderate to S, near top of hill	Well	Damp	B	3	Brown	No
8	SCRS_8_08	8	Steep slope to E	Well	Damp	B	3	Brown	Yes, at 40m
9	SCRS_9_08	9	Steep SW, deep forest	Well	Damp	A	3	Black	No
100	SCRS_100_08	100	Steep slope W	Well	Dry	B	3	Dark grey	Yes
101	SCRS_101_08	101	Steep slope N	Well	Dry	B	3	Dark grey	No
102	SCRS_102_08	102	Steep slope SE	Well	Dry	B	4	Light brown	No
103	SCRS_103_08	103	Steep slope E	Well	Dry	B	3	Dark brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
104	SCRS_104_08	104	Steep slope E	Poor	Wet	B	4	Dark brown	No
105	SCRS_105_08	105	Moderate slope to S, above creek, thick moss and spruce	Moderate	Damp	B	4	Dark grey to brown	No
106	SCRS_106_08	106	Top of small hill - flat area	Moderate	Damp	B	4	Creamy orangey light brown	No
114	SCRS_114_08	114	Moderate slope toN	Well	Damp	A	4	Black	No
115	SCRS_115_08	115	Flat, 5m from creek	Moderate	Wet	B	4	Grey with some orange brown	No
116	SCRS_116_08	116	Flat, top of hill	Moderate	Damp	B	3	Brown	No
117	SCRS_117_08	117	Flat, top pf hill	Well	Damp	B	2	Grey brown	No
118	SCRS_118_08	118	Moderate slope to E	Well	Damp	A	4	Black	No
119	SCRS_119_08	119	Moderate slope to W	Moderate	Damp	B	3	Grey	No
120	SCRS_120_08	120	Flat, on top of hill	Well	Damp	B	3	Brown	No
121	SCRS_121_08	121	Flat, 7m from creek	Moderate	Damp	B	4	Grey	No
122	SCRS_122_08	122	Flat forest	Moderate	Wet	B	2	Grey	No
123	SCRS_123_08	123	Gentle to E	Moderate	Wet	B	3	Grey brown	No
124	SCRS_124_08	124	Gentle slope to E, forest in valley	Moderate	Damp	B	2	Brown	No
125	SCRS_125_08	125	S facing slope, moss and trees	Well	Damp	A	2	Light brown	No
126	SCRS_126_08	126	Flat ridge with moss	Well	Damp	A	4	Light grey	No
127	SCRS_127_08	127	Flat	Moderate	Damp	B	2	Brown	Yes
128	SCRS_128_08	128	Gentle slope	Moderate	Damp	A	1	Brown	No
129	SCRS_129_08	129	Moderate slope	Well	Damp	A	2	Brown	No
130	SCRS_130_08	130	Gentle slope with a lot of trees	Well	Dry	A	1	Light brown	No
55	SCRS_55_08	55	Steep slope S	Moderate	Damp	B	3	Dark Grey	No
56	SCRS_56_08	56	Steep slope NE	Moderate	Damp	B	3	Dark Grey	No
57	SCRS_57_08	57	Steep slope W	Moderate	Damp	B	2	Dark brown	No
58	SCRS_58_08	58	Steep	Well	Damp	B	3	Grey	Yes
59	SCRS_59_08	59	Steep	Well	Damp	B	2	Grey	Yes
60	SCRS_60_08	60	Steep	Well	Damp	B	3	Brown, grey	Yes
61	SCRS_61_08	61	Steep	Well	Damp	B	2	Brown, grey	No
62	SCRS_62_08	62	Steep	Well	Damp	B	2	Grey	Yes
63	SCRS_63_08	63	Steep	Well	Damp	A	1	Brown	Yes
64	SCRS_64_08	64	Steep	Well	Damp	A	1	Brown	Yes
65	SCRS_65_08	65	Moderate	Well	Damp	A	1	Dark brown	Yes
66	SCRS_66_08	66	Steep	Well	Damp	B	2	Grey	Yes
68	SCRS_68_08	68	Moderate	Well	Damp	B	3	Grey brown	Yes
69	SCRS_69_08	69	Moderate	Well	Damp	B	3	Dark brown	No
70	SCRS_70_08	70	Gentle slope, trees	Moderate	Damp	A	2	Brown	No
71	SCRS_71_08	71	Flat, lots of trees	Poor	Damp	B	2	Grey brown	No
72	SCRS_72_08	72	Flat	Poor	Damp	A	2	Brown	No
73	SCRS_73_08	73	Flat	Moderate	Damp	B	3	Grey brown	No
74	SCRS_74_08	74	Very gentle, trees	Poor	Damp	A	2.5	Brown	No
75	SCRS_75_08	75	Flat, trees	Well	Wet	B	3	Grey	Yes
76	SCRS_76_08	76	Moss covered plateau, slight dip to N	Well	Wet/damp	B	3	Yellowish grey brown	No
77	SCRS_77_08	77	Very gentle E facing slope, beside small drainage channel, very dense vegetation	Well	Damp	B	3	Grey brown	No
78	SCRS_78_08	78	Moderate to steep W facing slope, spruce and moss underlain by boulders	Well	Damp	A	2	Black, hint of grey brown	No
79	SCRS_79_08	79	Top of ridge trending N-S, steep to E and W,	Well	Damp	B	4	Medium grey brown	Yes, along ridge

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
	SCRS_9104_08	9104	Steep slope E	Poor	Wet	B	4	Dark brown	No
98	SCRS_98_08	98	Steep slope W	Well	Dry	B	3	Dark grey	Yes
99	SCRS_99_08	99	Steep	Well	Dry	B	3	Light brown	No
	555_1_08	555108		Well	Damp	B	3	Grey	Yes, uphill
	555_2_08	555208		Well	Damp	B	1	Grey brown	
	555_3_08	555308		Well	Damp	B	1	Greyish yellowish brown	
	555_4_08	555408		Well	Damp	B	3	Brown	
	555_5_08	555508		Well	Damp	B	1	Dark brown	
	555_6_08	555608		Well	Damp	B	4	Brown	
	555_7_08	555708		Well	Damp	B	1	Medium to dark grey brown	
	555_8_08	555808		Well	Damp	B	2	Brown	
	555_91_08	5559108		Well	Damp	B	3	Grey	Yes, 50m S
110	SCRS_110_08	110	Gentle slope to NE	Well	Damp	B	3	Grey	No
111	SCRS_111_08	111	Flat valley	Well	Damp	B	4	Grey	No
112	SCRS_112_08	112	Flat, on a small ridge	Well	Damp	B	4	Grey	No
113	SCRS_113_08	113	Steep slope to NE	Well	Damp	B	2	Grey	Yes, at 40m
149	SCRS_149_08	149	Gentle slope to SW, top of hill	Moderate	Damp	B	3	Brown grey	No
150	SCRS_150_08	150	Moderate slope to SW	Well	Damp	A	4	Black	No
151	SCRS_151_08	151	Moderate slope to E, thick forest	Well	Damp	B	4	Grey brown	No
152	SCRS_152_08	152	Gentle slope to S in a valley, 20m from	Well	Damp	B	3	Grey	No
153	SCRS_153_08	153	Moderate slope to W	Moderate	Damp	B	2	Grey	No
154	SCRS_154_08	154	Flat, on a ridge	Well	Damp	B	3	Brown	Yes, at 15m
155	SCRS_155_08	155	Gentle slope to SW, top of hill	Well	Damp	B	3	Brown	No
156	SCRS_156_08	156	Moderate slope to N	Well	Damp	A	4	Black	No
157	SCRS_157_08	157	Gentle slope to N, 15m from creek	Moderate	Damp	A	4	Black	No
158	SCRS_158_08	158	Gentle slope to W	Moderate	Damp	B	4	Grey	No
170	SCRS_170_08	170	Gentle slope	Well	Dry	B	1	Grey	No
171	SCRS_171_08	171	Gentle slope	Moderate	Dry	A	1	Brown	Yes
172	SCRS_172_08	172	Moderate slope	Well	Damp	A	2	Brown	No
173	SCRS_173_08	173	Gentle slope to E	Well	Damp	B	3	Grey	No
174	SCRS_174_08	174	Moderate slope to SW	Well	Damp	B	2	Grey brown	Yes, at 30m
183	SCRS_183_08	183	Flat, lots of trees	Well	Damp	A	2	Black and brown	Yes
184	SCRS_184_08	184	Flat, trees	Moderate	Damp	A	2	Black and brown	Yes
185	SCRS_185_08	185	Flat	Moderate	Wet	B	2	Grey brown	Yes
186	SCRS_186_08	186	Gentle slope, trees	Well	Damp	B	2	Brown grey	Yes
187	SCRS_187_08	187	Moderate slope, trees	Well	Wet	A	2	Brown	No
188	SCRS_188_08	188	Flat, forest	Moderate	Damp	A	2	Brown	Yes
189	SCRS_189_08	189	Very gentle slope, trees	Well	Wet	B	3	Grey	No
199	SCRS_199_08	199	Gentle slope	Well	Damp	B	2	Brown	Yes
200	SCRS_200_08	200	Moderate slope	Well	Dry	A	2	Brown	Yes
201	SCRS_201_08	201	Steep	Well	Damp	A	2	Brown	No
202	SCRS_202_08	202	Moderate slope	Well	Damp	A	2	Dark brown	Yes
203	SCRS_203_08	203	Flat	Well	Damp	A	2	Brown	Yes
204	SCRS_204_08	204	Gentle slope	Moderate	Damp/dry	A	2	Brown black	No
205	SCRS_205_08	205	Gentle slope	Well	Damp	A	2	Brown	Yes
211	SCRS_211_08	211	Steep slope W	Well	Dry	A	1	Black	Yes
212	SCRS_212_08	212	Steep slope	Well	Dry	A	1	Black	Yes

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
213	SCRS_213_08	213	Steep slope NE	Well	Dry	B	4	Creamy brown	Yes
214	SCRS_214_08	214	Steep slope N	Well	Damp	B	3	Grey to black	Yes
215	SCRS_215_08	215	Steep slope NE	Well	Dry	B	3	Grey	Yes
216	SCRS_216_08	216	Steep slope S	Well	Dry	A	1	Light brown	No
217	SCRS_217_08	217	Moderate slope E	Moderate	Damp	A	1	Black	No
218	SCRS_218_08	218	Moderate slope NW	Moderate	Damp	A	1	Dark, black	No
219	SCRS_219_08	219	Moderate slope SW	Well	Dry	B	3	Dark grey	No
220	SCRS_220_08	220	Moderate slope SE	Well	Dry	B	4	Grey	No
221	SCRS_221_08	221	Moderate slope	Well	Dry	A	1	Orangey brown	No
222	SCRS_222_08	222	Flat	Moderate	Damp	B	4	Grey	No
229	SCRS_229_08	229	Moderate slope NE	Well	Damp	B	3	Brown	No
230	SCRS_230_08	230	Steep slope E, bushes and forest	Well	Damp	B	2.5	Grey brown	No
231	SCRS_231_08	231	Moderate slope W	Well	Damp	B	4	Brown grey	No
232	SCRS_232_08	232	Flat,ridge, bushes	Well	Dry	B	4	Light brown	No
233	SCRS_233_08	233	Steep slope SW, forest	Well	Dry	B	3	Light brown	No
234	SCRS_234_08	234	Flat, by creek, base of mountain	Poor	Damp/wet	B	4	Grey	No
235	SCRS_235_08	235	Gentle slope E, moss, forest	Well	Damp/wet	B	3	Grey	No
236	SCRS_236_08	236	Gentle slope W, moss, forest	Moderate	Damp	B	4	Grey	No
237	SCRS_237_08	237	Gentle slope E	Moderate	Damp/wet	B	3	Grey	No
238	SCRS_238_08	238	Flat, swampy, moss, forest	Moderate	Damp/wet	A	3	Black	No
239	SCRS_239_08	239	Flat, swampy	Moderate	Damp	B	4	Grey	No
244	SCRS_244_08	244	Gentle slope to NW	Moderate	Damp	B	3	Grey	No
245	SCRS_245_08	245	Flat valley	Well	Damp	A	4	Black	No
246	SCRS_246_08	246	Gentle slope to S	Well	Damp	B	3	Brown	No
247	SCRS_247_08	247	Moderate slope to S	Well	Damp	B	2	Brown	No
248	SCRS_248_08	248	Gentle slope to NW	Moderate	Wet	B	2	Grey	No
249	SCRS_249_08	249	Gentle slope to W, near top of hill	Well	Damp	B	2	Brown	No
250	SCRS_250_08	250	Gentle to E	Moderate	Damp	B	4	Grey	No
251	SCRS_251_08	251	Moderate slope to N	Moderate	Damp	B	4	Grey	No
252	SCRS_252_08	252	Flat	Moderate	Wet	B	4	Grey	No
253	SCRS_253_08	253	Gentle slope to E	Moderate	Damp	B	4	Grey	No
254	SCRS_254_08	254	Flat, near swamp	Poor	Wet	B	4	Grey	No
255	SCRS_255_08	255	Gentle slope to S	Moderate	Damp	B	3	Brown	No
277	SCRS_277_08	277	Moderate slope	Well	Damp	A	2	Brown	Yes
278	SCRS_278_08	278	Steep slope	Moderate	Damp	A	3	Dark brown	Yes
279	SCRS_279_08	279	Gentle	Moderate	Damp	B	2	Brown	Yes
280	SCRS_280_08	280	Flat	Well	Damp	A	3	Brown	No
281	SCRS_281_08	281	Gentle	Well	Damp	A	3	Brown	No
282	SCRS_282_08	282	Flat	Moderate	Wet	A	2	Brown black	No
283	SCRS_283_08	283	Flat, trees	Moderate	Wet	B	2	Brown	No
	5552_1_08	5552108		Moderate	Wet	B	3	Dark grey brown	
	5552_2_08	5552208		Moderate	Damp	B	1	Yellowish brown	
	5552_3_08	5552308		Well	Damp	B	2	Light yellowish brown	
	5552_4_08	5552408		Well	Damp	B	2	Brown	
	5552_5_08	5552508		Well	Damp	B	1	Dark grey brown	
	5552_6_08	5552608		Well	Damp	B	1	Brown	
	5552_7_08	5552708		Well	Damp	B	1	Light greyish brown	
	5552_8_08	5552808		Well	Damp	B	1	Light yellowish brown	
107	SCRS_107_08	107	Steep slope to NE	Moderate	Damp	B	2	Brown	No
108	SCRS_108_08	108	Moderate slopeto NW, 15m from creek	Well	Damp	B	2	Brown	No

GRID_ID	ELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
109	SCRS_109_08	109	Moderate slope to N	Moderate	Wet	B	2	Grey brown	No
190	SCRS_190_08	190	Steep slope SW	Well	Dry	B	3	Dark grey	No
191	SCRS_191_08	191	Flat, top of a hill	Well	Dry	B	4	Grey	No
192	SCRS_192_08	192	Steep slope	Well	Dry	B	3	Orangey brown	Yes
193	SCRS_193_08	193	Steep slope E	Well	Dry	A	1	Black	Yes
194	SCRS_194_08	194	Steep slope	Well	Dry	B	3	Dark grey	No
195	SCRS_195_08	195	Steep slope S	Well	Dry	B	3	Grey	Yes
196	SCRS_196_08	196	Steep slope SE	Well	Dry	B	3	Grey	Yes
197	SCRS_197_08	197	Steep slope W	Well	Dry	A	3	Dark grey	Yes
198	SCRS_198_08	198	Steep slope E	Well	Dry	A	1	Black	Yes
207	SCRS_207_08	207	Steep slope E	Well	Dry	A	1	Black	No
208	SCRS_208_08	208	Steep slope NW	Well	Dry	B	4	Brown to grey	No
209	SCRS_209_08	209	Flat, top of a hill	Well	Dry	B	4	Orangey brown	No
210	SCRS_210_08	210	Steep slope N	Well	Dry	B	4	Grey	No
223	SCRS_223_08	223	Steep slope NW	Well	Damp	A	3	Black	No
224	SCRS_224_08	224	Moderate slope W	Poor	Damp	B	3	Grey	No
225	SCRS_225_08	225	Steep slope W	Well	Damp	B	2	Orangey brown	No
226	SCRS_226_08	226	Steep slope W	Well	Damp	B	3	Brown to grey	No
227	SCRS_227_08	227	Steep slope SW	Well	Dry	B	3	Orangey brown	No
228	SCRS_228_08	228	Flat, top of a hill	Well	Damp/dry	B	3	Orangey grey	Yes
236	SCRS_236_08	236	Gentle slope W, moss, forest	Moderate	Damp	B	4	Grey	No
240	SCRS_240_08	240	Steep slope E	Well to moderate	Damp	A	1	Black	No
241	SCRS_241_08	241	Steep slope	Well	Damp	A	1	Black	No
242	SCRS_242_08	242	Steep slope N	Moderate	Damp	B	4	Orangey grey	No
243	SCRS_243_08	243	Steep slope NE	Moderate	Damp	B	4	Grey	No
257	SCRS_257_08	257	Gentle slope	Moderate	Wet	A	2	Brown	No
258	SCRS_258_08	258	Flat by the creek, swampy	Moderate	Damp/wet	A	3	Black	No
259	SCRS_259_08	259	Flat slope W, next to creek, forest	Moderate	Damp/wet	B	4	Dark grey	No
260	SCRS_260_08	260	Gentle slope SW, forest	Well	Damp	B	3	Grey	No
271	SCRS_271_08	271	Moderate slope	Well	Damp	A	2	Dark brown	Yes
272	SCRS_272_08	272	Gentle slope	Well	Damp	A	2	Brown	No
273	SCRS_273_08	273	Moderate slope	Well	Damp	A	2	Brown	Yes
274	SCRS_274_08	274	Flat, top of mountain	Moderate	Damp	A	2	Brown	Yes
275	SCRS_275_08	275	Moderate with trees	Well	Damp	A	2	Brown	Yes
276	SCRS_276_08	276	Flat	Well	Damp	B	3	Brown	Yes
284	SCRS_284_08	284	Slope	Well	Damp	B	3	Dark grey	No
285	SCRS_285_08	285	Steep slope W	Well	Damp	B	2.5	Grey	Yes
286	SCRS_286_08	286	Moderate slope N	Well	Damp	B	2	Brown	No
287	SCRS_287_08	287	Moderate slope SW, top of mountain	Well	Damp	B	3	Brown	Yes
288	SCRS_288_08	288	Steep slope E, forest	Well	Damp	A	3	Black	Yes
289	SCRS_289_08	289	Moderate slope N	Well	Damp	B	3	Brown	No
290	SCRS_290_08	290	Steep slope NE	Well	Damp	B	3	Brown	No
291	SCRS_291_08	291	Moderate slope W, forest	Moderate	Damp	B	3	Grey	No
292	SCRS_292_08	292	Gentle slope NE	Moderate	Damp	B	3	Grey	No
293	SCRS_293_08	293	Gentle slope E	Well	Damp	A	3	Black	No
294	SCRS_294_08	294	Flat, next to creek, base of mountain	Moderate	Damp	B	3	Grey	No
295	SCRS_295_08	295	Moderate slope to SW	Well	Damp	B	4	Grey brown	No
296	SCRS_296_08	296	Moderate slope to W	Well	Damp	A	4	Black	No
297	SCRS_297_08	297	Gentle slope to S	Well	Damp	A	4	Black	No
298	SCRS_298_08	298	Moderate slope to E	Well	Damp	B	3	Brown	No
299	SCRS_299_08	299	Gentle slope to SE	Well	Damp	B	4	Grey brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
300	SCRS_300_08	300	Flat valley,15m from creek	Moderate	Damp	B	4	Grey brown	No
301	SCRS_301_08	301	Moderate slope to SW	Well	Damp	B	4	Brown	Yes, at 15m
302	SCRS_302_08	302	Gentle slope to SE	Moderate	Damp	B	2	Grey	No
303	SCRS_303_08	303	Gentle slope to N	Well	Damp	B	4	Grey	No
304	SCRS_304_08	304	Gentle slope to NE, 10m from creek	Well	Damp	B	4	Grey	No
305	SCRS_305_08	305	Moderate slope to W	Well	Damp	B	4	Brown	No
306	SCRS_306_08	306	Flat, on top of hill	Well	Damp	B	3	Grey brown	No
307	SCRS_307_08	307	Flat, on a ridge	Well	Damp	B	4	Brown	Yes, at 20m
308	SCRS_308_08	308	Flat, next to creek, swampy	Moderate	Damp/wet	A	3	Black	No
309	SCRS_309_08	309	Moderate slope N	Well	Damp	B	3	Grey	No
310	SCRS_310_08	310	Moderate slope SW	Well	Damp	B	4	Grey brown	No
311	SCRS_311_08	311	Steep slope SE, forest	Well	Damp	B	2.5	Brown	No
312	SCRS_312_08	312	Gentle slope E, next to creek	Well	Damp	B	3	Grey	No
313	SCRS_313_08	313	Gentle slope NW	Well	Damp	B	2	Grey	Yes
50	SCRS_50_08	50	Moderate slope to SW	Well	Damp	B	2	Grey	No
67	SCRS_67_08	67	Gentle slope to N	Well	Damp	B	4	Light brown	No
	SCRS_9211_08	9211	Steep slope	Moderate	Damp	B	3	Grey to brown	No
131	SCRS_131_08	131	Steep hill NW togully. Grassy,underlain by	Well	Damp	B	3	Dark brown	Yes, just uphill
132	SCRS_132_08	132	Moderate slope SE to valley, just below	Well	Damp	B	2	Dark brown	Yes, S along ridge
133	SCRS_133_08	133	Very gentle slope N, forest	Well	Damp	A	3	Dark brown	No
134	SCRS_134_08	134	Very gentle slope W to creek	Well	Damp	B	3	Medium grey brown	No
135	SCRS_135_08	135	Moderate NE slope, just above dense	Well	Damp	B	2	Grey	Yes, limeston OC
136	SCRS_136_08	136	Gentle slope SE, forest	Well	Damp	B	4	Light brown	No
137	SCRS_137_08	137	Moderate slope W, forest	Well	Damp	B	4	Dark grey	No
138	SCRS_138_08	138	Gentle slope N	Moderate	Damp	B	3	Grey brown	No
139	SCRS_139_08	139	Gentle slope N	Moderate	Damp/wet	B	4	Grey	No
140	SCRS_140_08	140	Gentle slope NW	Well	Damp	B	3	Grey	No
141	SCRS_141_08	141	Gentle slope E	Well	Damp	B	4	Brown	No
142	SCRS_142_08	142	Moderate slope W	Well	Damp	B	4	Dark grey	Yes
143	SCRS_143_08	143	Gentle slope N	Well	Damp	B	3	Brown grey	No
144	SCRS_144_08	144	Flat, swampy	Poor	Wet	B	3	Dark grey	No
145	SCRS_145_08	145	flat, bushes	Moderate	Damp/wet	B	4	Brown	No
146	SCRS_146_08	146	Flat, small bushes	Well	Damp	B	4	Light brown	No
147	SCRS_147_08	147	Flat, small bushes	Well	Damp	B	4	Brown grey	No
148	SCRS_148_08	148	Moderate slope	Moderate	Damp	B	2	Grey brown	No
159	SCRS_159_08	159	Steep slope E	Well	Dry	A	2	Brown	Yes
160	SCRS_160_08	160	Steep slope W	Well	Dry	A	1	Orangey brown	Yes
161	SCRS_161_08	161	Flat	Well	Dry	B	4	Grey	No
162	SCRS_162_08	162	Moderate slope N	Well	Dry	A	1	Black	No
163	SCRS_163_08	163	Moderate slope N	Well	Dry	A	1	Dark	No
164	SCRS_164_08	164	Moderate slope E	Well	Dry	B	3	Grey	No
165	SCRS_165_08	165	Moderate slope E	Well	Dry	A	1	Black	No
166	SCRS_166_08	166	Moderate slope NE	Well	Dry	A	1	Orangey brown	No
167	SCRS_167_08	167	Moderate slope SW	Moderate	Damp	B	4	Grey	No
168	SCRS_168_08	168	Pretty flat	Well	Dry	A	3	Dark	No
169	SCRS_169_08	169	Moderate slope N	Well	Dry	A	3	Dark brown	No
175	SCRS_175_08	175	Steep S, cliffs	Well	Damp/dry	B	3	Brown	Yes
176	SCRS_176_08	176	Steep W, forest	Well	Damp	B	1	Grey	No
177	SCRS_177_08	177	Moderate slope E, ridge	Well	Damp	B	2.5	Dark brown	Yes
178	SCRS_178_08	178	Moderate slope W	Well	Damp	B	3	Light brown	No
179	SCRS_179_08	179	Gentle slope NE	Well	Damp/dry	B	3	Light brown	No
180	SCRS_180_08	180	Flat, slope towards creek 40m SW	Well	Damp	B	2.5	Light brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
181	SCRS_181_08	181	Flat, swampy, next to creek	Moderate	Damp/wet	B	3	Grey	No
182	SCRS_182_08	182	Gentle slope W	Well	Damp	B	3	Light brown	No
206	SCRS_206_08	206	Flat, swampy area	Poor	Wet	B	4	Brown	No
261	SCRS_261_08	261	Steep slope S	Well	Dry	A	1	Brown to black	Yes
262	SCRS_262_08	262	Moderate slope W	Well	Dry	A	1	Dark brown	No
263	SCRS_263_08	263	Steep slope NE	Well	Dry	A	1	Brown to black	No
264	SCRS_264_08	264	Flat	Well	Damp/dry	A	1	Black	No
265	SCRS_265_08	265	Steep slope NW	Well	Damp	A	1	Black	No
266	SCRS_266_08	266	Moderate slope S	Well	Dry	A	1	Black	No
267	SCRS_267_08	267	Steep slope E	Well	Dry	A	1	Black	No
268	SCRS_268_08	268	Moderate slope NE	Well	Damp/dry	A	1	Black	No
269	SCRS_269_08	269	Flat, next to lake	Poor	Damp	B	4	Grey	No
270	SCRS_270_08	270	Moderate slope S	Moderate	Damp/dry	B	4	Grey	No
31	SCRS_31_08	31	Ridge	Well	Damp	B	4	Grey	Yes
32	SCRS_32_08	32	Ridge	Well	Damp	B	3.5	Brown	Yes
33	SCRS_33_08	33	Ridge	Well	Damp	B	2	Dark grey	Yes
34	SCRS_34_08	34	Steep SE, forest begins here	Well	Damp	A	3	Black	Yes
35	SCRS_35_08	35	Steep S, deep forest	Well	Damp	B	3	Dark brown	Yes
36	SCRS_36_08	36	Moderate slope W, forest	Moderate	Damp	B	1	Grey	Yes
37	SCRS_37_08	37	Steep W, giant gully between two mountains	Well	Damp	B	2	Bluish grey	Yes
38	SCRS_38_08	38	Moderate slope N	Well	Damp	B	3	Dark grey	No
39	SCRS_39_08	39	Steep NW, forest	Well	Damp	B		Dark grey	Yes
40	SCRS_40_08	40	Moderate slope W	Well	Damp	B	2	Grey	No
41	SCRS_41_08	41	Steep NE, shales, small boulders	Well	Damp	A	3	Black	Yes
42	SCRS_42_08	42	Flat, plateau on ridge	Well	Damp	A	3	Black	Yes
80	SCRS_80_08	80	Flat	Well	Damp	B	2	Grey	Yes
81	SCRS_81_08	81	Steep	Well	Damp	B	2	Grey	Yes
82	SCRS_82_08	82	Steep	Well	Damp	B	3	Grey	Yes
83	SCRS_83_08	83	Steep	Well	Damp	B	2	Brown	Yes
84	SCRS_84_08	84	Flat	Well	Damp	B	3	Grey, brown	Yes
85	SCRS_85_08	85	Steep	Well	Damp	B	2	Brown	Yes
86	SCRS_86_08	86	Steep	Well	Damp	B	2	Brown	Yes
87	SCRS_87_08	87	Steep	Well	Damp	B	2	Brown	Yes
88	SCRS_88_08	88	Steep	Well	Wet	B	3	Grey	Yes
89	SCRS_89_08	89	Moderate	Well	Damp	B	3	Grey	Yes
90	SCRS_90_08	90	Steep slope to SW	Well	Damp	A	3	Black	No
91	SCRS_91_08	91	Moderate slope to E	Well	Damp	A	3	Black	No
92	SCRS_92_08	92	Moderate slope to N	Well	Damp	A	4	Black	No
93	SCRS_93_08	93	Moderate slope to E	Well	Damp	A	4	Black	No
94	SCRS_94_08	94	Moderate slope to N	Well	Damp	B	4	Grey	No
95	SCRS_95_08	95	Moderate slope to E	Well	Damp	A	4	Black	No
96	SCRS_96_08	96	Gentle slope to W, 30m from creek	Moderate	Damp	B	3	Grey	No
967	SCRS_967_08	967	Moderate slope to E	Well	Damp	B	3	Grey	No
968	SCRS_968_08	968	Moderate slope to W	Well	Damp	B	3	Grey	No
97	SCRS_97_08	97	Flat	Well	Damp	B	4	Grey	No
	SCRS_980_08	980	Steep	Well	Damp	B	3	Grey	Yes

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
1	SCRS_1_08		Thomas	7156557.14	534765.26	TO102352	SCRS_1_08	0.5	24
10	SCRS_10_08		Kevin	7157539.63	534692.87	TO102352	SCRS_10_08	0.5	1
11	SCRS_11_08		Kevin	7157635.29	535287.86	TO102352	SCRS_11_08	0.5	43
12	SCRS_12_08		Kevin	7157540.75	535789.89	TO102352	SCRS_12_08	1	110
13	SCRS_13_08		Kevin	7158083.80	533897.12	TO102352	SCRS_13_08	0.5	0.5
14	SCRS_14_08		Kevin	7158038.69	534321.02	TO102352	SCRS_14_08	8	0.5
15	SCRS_15_08		Kevin	7157959.75	534759.18	TO102352	SCRS_15_08	7	0.5
16	SCRS_16_08		Kevin	7158026.62	535160.48	TO102352	SCRS_16_08	0.5	25
17	SCRS_17_08		Kevin	7157959.29	535762.59	TO102352	SCRS_17_08	0.5	17
18	SCRS_18_08		Sarah	7158544.74	533754.00	TO102352	SCRS_18_08	3	0.5
19	SCRS_19_08		Sarah	7158551.15	534257.40	TO102352	SCRS_19_08	3	42
2	SCRS_2_08		Thomas	7156569.46	535244.57	TO102352	SCRS_2_08	10	23
20	SCRS_20_08		Sarah	7158554.84	534767.54	TO102352	SCRS_20_08	11	53
21	SCRS_21_08		Sarah	7158543.44	535226.04	TO102352	SCRS_21_08	0.5	24
22	SCRS_22_08		Sarah	7158555.67	535756.77	TO102352	SCRS_22_08	0.5	47
23	SCRS_23_08		Sarah	7158550.87	536241.93	TO102352	SCRS_23_08	0.5	49
24	SCRS_24_08	Clay	Bronwyn	7159059.20	533747.02	TO102352	SCRS_24_08	9	19
25	SCRS_25_08	Clay	Bronwyn	7159037.36	534275.64	TO102352	SCRS_25_08	12	15
26	SCRS_26_08	Fairly rocky with lots of heavy moss, grey clay, small creek a few metres away	Bronwyn	7159015.26	534768.89	TO102352	SCRS_26_08	1	33
27	SCRS_27_08	Clay	Bronwyn	7159048.68	535258.44	TO102352	SCRS_27_08	17	13
28	SCRS_28_08	Silty dirt	Bronwyn	7159053.55	535714.89	TO102352	SCRS_28_08	0.5	14
29	SCRS_29_08	Clay	Bronwyn	7159039.17	536262.89	TO102352	SCRS_29_08	10	35
3	SCRS_3_08		Thomas	7157046.78	533764.43	TO102352	SCRS_3_08	18	17
30	SCRS_30_08	Clay	Bronwyn	7159592.25	534243.14	TO102352	SCRS_30_08	4	27
4	SCRS_4_08	Some permafrost	Thomas	7157059.01	534243.64	TO102352	SCRS_4_08	3	43
43	SCRS_43_08	Big OC 150m E, very good sample, big trees	Archie	7160532.24	533243.13	TO102352	SCRS_43_08	0.5	31
44	SCRS_44_08	Big trees, vegetation thick	Archie	7160548.84	533756.88	TO102352	SCRS_44_08	0.5	64
45	SCRS_45_08	Boulder field, trees starting to grow	Archie	7160536.86	534256.19	TO102352	SCRS_45_08	2	11
46	SCRS_46_08	Boulder field, sample taken on OC, black soil	Archie	7160571.74	534744.61	TO102352	SCRS_46_08	0.5	18
47	SCRS_47_08	Beside creek, 10m, Vegetation is thick, big	Archie	7160541.96	535252.60	TO102352	SCRS_47_08	0.5	60
48	SCRS_48_08	Boulder field	Archie	7160540.64	535786.72	TO102352	SCRS_48_08	45	12
49	SCRS_49_08	Very bushy	Archie	7161050.83	532757.57	TO102352	SCRS_49_08	2	26
5	SCRS_5_08		Thomas	7157019.28	534714.20	TO102352	SCRS_5_08	0.5	34
51	SCRS_51_08	Spruce and lots of deadwood	Phil	7161100.90	533778.64	TO102352	SCRS_51_08	0.5	27
52	SCRS_52_08	Hard to get sample	Phil	7161027.66	534297.44	TO102352	SCRS_52_08	10	15
53	SCRS_53_08	Really steep, some spruce, can't find really	Phil	7161066.83	534712.29	TO102352	SCRS_53_08	8	64
54	SCRS_54_08	Lots of rock and trees, hard to find sample without roots.	Phil	7161568.11	532303.25	TO102352	SCRS_54_08	6	41
6	SCRS_6_08		Thomas	7157058.72	535259.79	TO102352	SCRS_6_08	0.5	15
7	SCRS_7_08		Thomas	7157564.86	533323.74	TO102352	SCRS_7_08	30	11
8	SCRS_8_08		Thomas	7157576.18	533705.83	TO102352	SCRS_8_08	13	35
9	SCRS_9_08		Kevin	7157586.99	534283.30	TO102352	SCRS_9_08	0.5	4
100	SCRS_100_08	Lots of rocks, hard to find sample	Phil and Daithi	7164042.21	530238.99	TO102353	SCRS_100_08	2	170
101	SCRS_101_08	Spruce, permafrost, lots of gravel	Phil and Daithi	7164090.51	530738.16	TO102353	SCRS_101_08	4	177
102	SCRS_102_08	Permafrost, creek above	Phil and Daithi	7164078.42	531233.61	TO102353	SCRS_102_08	16	201
103	SCRS_103_08	Above fast-going creek, permafrost	Phil and Daithi	7164079.38	531723.74	TO102353	SCRS_103_08	2	77

GRID_ID	..ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
104	SCRS_104_08	2 samples at this point	Phil and Daithi	7164063.71	532218.90	TO102353	SCRS_104_08	11	109
105	SCRS_105_08	Thick moss cover, soil moisture almost wet	Phil and Daithi	7164079.23	532712.07	TO102353	SCRS_105_08	1	40
106	SCRS_106_08	Good sample, dense clay, not much stones or chips	Phil and Daithi	7164057.12	533251.41	TO102353	SCRS_106_08	5	187
114	SCRS_114_08		Thomas	7164520.13	526311.29	TO102353	SCRS_114_08	0.5	48
115	SCRS_115_08	Some permafrost	Thomas	7164571.99	526736.48	TO102353	SCRS_115_08	10	59
116	SCRS_116_08		Thomas	7164567.63	527240.56	TO102353	SCRS_116_08	6	204
117	SCRS_117_08		Thomas	7164587.39	527753.64	TO102353	SCRS_117_08	3	154
118	SCRS_118_08		Thomas	7164588.99	528256.77	TO102353	SCRS_118_08	0.5	16
119	SCRS_119_08	Really thick layer of moss	Thomas	7164548.13	528753.36	TO102353	SCRS_119_08	2	68
120	SCRS_120_08		Thomas	7164555.27	529241.69	TO102353	SCRS_120_08	5	172
121	SCRS_121_08		Thomas	7164539.39	529758.83	TO102353	SCRS_121_08	0.5	80
122	SCRS_122_08		Thomas	7164539.13	530252.94	TO102353	SCRS_122_08	12	225
123	SCRS_123_08		Thomas	7164575.38	530721.14	TO102353	SCRS_123_08	5	82
124	SCRS_124_08		Thomas	7164519.91	531196.69	TO102353	SCRS_124_08	9	196
125	SCRS_125_08	Fairly rocky, very silty	Bronwyn	7164545.04	531748.96	TO102353	SCRS_125_08	2	251
126	SCRS_126_08	Clay	Bronwyn	7164563.11	532265.90	TO102353	SCRS_126_08	10	250
127	SCRS_127_08		Lukas	7165035.62	519756.33	TO102353	SCRS_127_08	0.5	17
128	SCRS_128_08		Lukas	7165137.40	520232.43	TO102353	SCRS_128_08	3	109
129	SCRS_129_08		Lukas	7165056.74	520692.45	TO102353	SCRS_129_08	3	11
130	SCRS_130_08		Lukas	7165094.08	521261.52	TO102353	SCRS_130_08	16	267
55	SCRS_55_08	Dead trees around	Phil	7161525.79	532804.40	TO102353	SCRS_55_08	8	19
56	SCRS_56_08	Leafy trees	Phil	7161599.40	533228.08	TO102353	SCRS_56_08	3	27
57	SCRS_57_08	Can't find good clay, creek above, spruce everywhere	Phil	7161542.01	533689.36	TO102353	SCRS_57_08	2	46
58	SCRS_58_08	Cliffs, trees	Tubs	7162129.20	531799.17	TO102353	SCRS_58_08	7	35
59	SCRS_59_08	Trees	Tubs	7162069.02	532257.26	TO102353	SCRS_59_08	31	18
60	SCRS_60_08	Trees	Tubs	7162051.16	532752.09	TO102353	SCRS_60_08	5	32
61	SCRS_61_08	Trees, willows	Tubs	7162045.07	533252.55	TO102353	SCRS_61_08	4	185
62	SCRS_62_08	Trees, willows	Tubs	7162563.34	530274.16	TO102353	SCRS_62_08	3	58
63	SCRS_63_08	Cliffs, trees	Tubs	7162569.93	530747.11	TO102353	SCRS_63_08	1	69
64	SCRS_64_08	Vegetation, boulders	Tubs	7162592.41	531250.04	TO102353	SCRS_64_08	2	35
65	SCRS_65_08	Cliffs, trees	Tubs	7162539.53	531743.93	TO102353	SCRS_65_08	2	28
66	SCRS_66_08	Trees, willows	Tubs	7162544.99	532210.07	TO102353	SCRS_66_08	1	57
68	SCRS_68_08	Small sample	Lukas	7163062.00	528753.00	TO102353	SCRS_68_08	18	29
69	SCRS_69_08	Small sample	Lukas	7163062.72	529273.87	TO102353	SCRS_69_08	4	37
70	SCRS_70_08	Small sample	Lukas	7163080.40	529777.45	TO102353	SCRS_70_08	2	19
71	SCRS_71_08	Small sample	Lukas	7163042.33	530296.11	TO102353	SCRS_71_08	2	74
72	SCRS_72_08	Small sample	Lukas	7163047.59	530761.18	TO102353	SCRS_72_08	5	38
73	SCRS_73_08	Small sample	Lukas	7163052.20	531257.40	TO102353	SCRS_73_08	2	74
74	SCRS_74_08	Small sample	Lukas	7163053.23	531742.66	TO102353	SCRS_74_08	1	43
75	SCRS_75_08	Small sample	Lukas	7163045.43	532253.93	TO102353	SCRS_75_08	42	26
76	SCRS_76_08	Good clay, some organic matter and a few rock chips, some of which are rusty	Sarah	7163548.94	526246.03	TO102353	SCRS_76_08	3	88
77	SCRS_77_08		Sarah	7163548.13	526757.65	TO102353	SCRS_77_08	20	44
78	SCRS_78_08	Lots of organic matter and rootlets in sample, some decent clay though	Sarah	7163548.07	527252.11	TO102353	SCRS_78_08	2	58
79	SCRS_79_08	Good clay sample	Sarah	7163560.07	527653.48	TO102353	SCRS_79_08	11	84

GRID_ID	.ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
	SCRS_9104_08	2 samples at this point	Phil and Daithi	7164063.71	532218.90	TO102353	SCRS_9104_08	6	103
98	SCRS_98_08		Phil and Daithi	7164060.00	529250.00	TO102353	SCRS_98_08	6	53
99	SCRS_99_08	Roots, lots of small trees, creek above	Phil and Daithi	7164052.00	529754.00	TO102353	SCRS_99_08	0.5	115
	555_1_08		Sarah	7162754.81	528950.19	TO102355	555_1_08	16	13
	555_2_08	Very poor sample	Sarah	7162777.67	528952.45	TO102355	555_2_08	8	194
	555_3_08	Very poor sample	Sarah	7162803.94	528948.28	TO102355	555_3_08	35	155
	555_4_08		Sarah	7162827.31	528943.44	TO102355	555_4_08	2	271
	555_5_08	Poor sample, lots of grit and chips	Sarah	7162852.34	528939.09	TO102355	555_5_08	5	103
	555_6_08		Sarah	7162877.10	528934.60	TO102355	555_6_08	24	201
	555_7_08		Sarah	7162899.79	528931.15	TO102355	555_7_08	6	120
	555_8_08		Sarah	7162925.64	528926.71	TO102355	555_8_08	2	272
	555_91_08		Sarah	7162753.00	528957.13	TO102355	555_91_08	12	7
110	SCRS_110_08		Thomas	7164562.59	524230.06	TO102355	SCRS_110_08	0.5	28
111	SCRS_111_08		Thomas	7164588.60	524754.83	TO102355	SCRS_111_08	4	74
112	SCRS_112_08		Thomas	7164564.94	525238.73	TO102355	SCRS_112_08	1	72
113	SCRS_113_08		Thomas	7164503.79	525714.26	TO102355	SCRS_113_08	12	3
149	SCRS_149_08		Thomas	7165525.38	520786.66	TO102355	SCRS_149_08	26	9
150	SCRS_150_08		Thomas	7165612.99	521236.76	TO102355	SCRS_150_08	0.5	20
151	SCRS_151_08		Thomas	7165542.66	521747.91	TO102355	SCRS_151_08	4	16
152	SCRS_152_08		Thomas	7165544.66	522258.21	TO102355	SCRS_152_08	1	118
153	SCRS_153_08	Horizon partially frozen	Thomas	7165562.98	522769.55	TO102355	SCRS_153_08	9	37
154	SCRS_154_08		Thomas	7165629.43	523246.49	TO102355	SCRS_154_08	3	239
155	SCRS_155_08		Thomas	7165563.70	523747.68	TO102355	SCRS_155_08	91	12
156	SCRS_156_08		Thomas	7165563.50	524247.95	TO102355	SCRS_156_08	0.5	21
157	SCRS_157_08		Thomas	7165581.68	524736.28	TO102355	SCRS_157_08	11	40
158	SCRS_158_08		Thomas	7165565.43	525246.93	TO102355	SCRS_158_08	1	38
170	SCRS_170_08		Lukas	7166078.49	520282.44	TO102355	SCRS_170_08	2	126
171	SCRS_171_08		Lukas	7165948.40	520724.77	TO102355	SCRS_171_08	0.5	6
172	SCRS_172_08		Lukas	7165968.05	521067.01	TO102355	SCRS_172_08	0.5	18
173	SCRS_173_08		Thomas	7166159.22	521798.05	TO102355	SCRS_173_08	12	21
174	SCRS_174_08		Thomas	7166024.74	522187.49	TO102355	SCRS_174_08	4	76
183	SCRS_183_08		Lukas	7166044.34	526789.87	TO102355	SCRS_183_08	0.5	274
184	SCRS_184_08		Lukas	7166076.99	527244.79	TO102355	SCRS_184_08	0.5	200
185	SCRS_185_08		Lukas	7166014.53	527755.68	TO102355	SCRS_185_08	9	136
186	SCRS_186_08		Lukas	7166030.63	528201.35	TO102355	SCRS_186_08	0.5	239
187	SCRS_187_08		Lukas	7166042.13	528807.26	TO102355	SCRS_187_08	3	22
188	SCRS_188_08		Lukas	7166016.97	529245.90	TO102355	SCRS_188_08	0.5	91
189	SCRS_189_08		Lukas	7166097.24	529737.87	TO102355	SCRS_189_08	12	236
199	SCRS_199_08		Lukas	7166606.69	525384.68	TO102355	SCRS_199_08	2	300
200	SCRS_200_08		Lukas	7166512.06	525763.52	TO102355	SCRS_200_08	0.5	239
201	SCRS_201_08	Hard to find a good sample here	Lukas	7166550.22	526223.61	TO102355	SCRS_201_08	0.5	167
202	SCRS_202_08		Lukas	7166534.45	526702.42	TO102355	SCRS_202_08	0.5	241
203	SCRS_203_08		Lukas	7166529.04	527233.44	TO102355	SCRS_203_08	4	274
204	SCRS_204_08		Lukas	7166535.03	527698.68	TO102355	SCRS_204_08	3	196
205	SCRS_205_08		Lukas	7166549.92	528277.24	TO102355	SCRS_205_08	0.5	47
211	SCRS_211_08	Organic rich, small leafy trees, moss	Phil	7167001.89	523315.08	TO102355	SCRS_211_08	0.5	201
212	SCRS_212_08	Some moss, lots of rock, no trees	Phil	7166982.24	523799.00	TO102355	SCRS_212_08	1	43

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
213	SCRS_213_08	Moss, small spruce, flowers	Phil	7167018.43	524274.33	TO102355	SCRS_213_08	21	24
214	SCRS_214_08	Moss, leafy trees, small spruce	Phil	7167027.74	524796.70	TO102355	SCRS_214_08	4	67
215	SCRS_215_08	Lots of rock, soe moss, small spruce	Phil	7167110.17	525246.84	TO102355	SCRS_215_08	0.5	196
216	SCRS_216_08	Organic rich, leafy trees, spruce, moss, rock	Phil	7167081.14	525803.36	TO102355	SCRS_216_08	1	112
217	SCRS_217_08	Organic rich, spruce, moss	Phil	7167091.61	526266.09	TO102355	SCRS_217_08	0.5	14
218	SCRS_218_08	Organic rich, moss, leafy trees, spruce	Phil	7167075.99	526764.58	TO102355	SCRS_218_08	20	232
219	SCRS_219_08	Organic rich, moss, leafy trees, spruce	Phil	7167106.94	527251.21	TO102355	SCRS_219_08	0.5	300
220	SCRS_220_08	Dry clay, leafy trees, spruce	Phil	7167091.60	527710.72	TO102355	SCRS_220_08	4	176
221	SCRS_221_08	Organic rich, moss, small spruce	Phil	7167044.64	528298.44	TO102355	SCRS_221_08	2	297
222	SCRS_222_08	Creek above, moss, small spruce	Phil	7167104.83	528752.51	TO102355	SCRS_222_08	26	50
229	SCRS_229_08		Kevin	7167469.54	524277.57	TO102355	SCRS_229_08	2	266
230	SCRS_230_08		Kevin	7167421.47	524652.16	TO102355	SCRS_230_08	0.5	183
231	SCRS_231_08		Kevin	7167415.70	525251.45	TO102355	SCRS_231_08	0.5	172
232	SCRS_232_08		Kevin	7167602.04	525763.81	TO102355	SCRS_232_08	0.5	265
233	SCRS_233_08		Kevin	7167711.27	526340.43	TO102355	SCRS_233_08	1	300
234	SCRS_234_08		Kevin	7167558.15	526766.13	TO102355	SCRS_234_08	0.5	22
235	SCRS_235_08		Kevin	7167639.72	527272.85	TO102355	SCRS_235_08	5	58
236	SCRS_236_08		Kevin	7167604.77	527705.37	TO102355	SCRS_236_08	26	43
237	SCRS_237_08		Kevin	7167455.21	528217.95	TO102355	SCRS_237_08	9	45
238	SCRS_238_08	Deep A horizon, then permafrost	Kevin	7167531.50	528666.36	TO102355	SCRS_238_08	0.5	59
239	SCRS_239_08		Kevin	7167667.35	529036.67	TO102355	SCRS_239_08	3	23
244	SCRS_244_08		Thomas	7168101.78	523771.86	TO102355	SCRS_244_08	19	72
245	SCRS_245_08		Thomas	7168137.74	524262.74	TO102355	SCRS_245_08	0.5	75
246	SCRS_246_08		Thomas	7168100.11	524762.16	TO102355	SCRS_246_08	5	203
247	SCRS_247_08		Thomas	7168057.35	525232.55	TO102355	SCRS_247_08	7	208
248	SCRS_248_08		Thomas	7168003.98	525756.22	TO102355	SCRS_248_08	11	111
249	SCRS_249_08		Thomas	7167979.76	526254.75	TO102355	SCRS_249_08	2	105
250	SCRS_250_08		Thomas	7167978.34	526772.81	TO102355	SCRS_250_08	4	41
251	SCRS_251_08		Thomas	7167990.63	527227.71	TO102355	SCRS_251_08	3	30
252	SCRS_252_08		Thomas	7168024.55	527753.50	TO102355	SCRS_252_08	12	44
253	SCRS_253_08		Thomas	7168045.80	528251.45	TO102355	SCRS_253_08	2	44
254	SCRS_254_08		Thomas	7168067.50	528757.19	TO102355	SCRS_254_08	25	35
255	SCRS_255_08		Thomas	7168094.47	529255.92	TO102355	SCRS_255_08	1	156
277	SCRS_277_08		Lukas	7169024.64	525274.31	TO102355	SCRS_277_08	0.5	79
278	SCRS_278_08		Lukas	7169060.01	525679.56	TO102355	SCRS_278_08	3	45
279	SCRS_279_08		Lukas	7168955.80	526237.12	TO102355	SCRS_279_08	1	49
280	SCRS_280_08		Lukas	7169097.25	526799.13	TO102355	SCRS_280_08	2	39
281	SCRS_281_08		Lukas	7169088.26	527257.47	TO102355	SCRS_281_08	0.5	34
282	SCRS_282_08		Lukas	7169009.52	527744.12	TO102355	SCRS_282_08	90	17
283	SCRS_283_08		Lukas	7169004.65	528224.14	TO102355	SCRS_283_08	0.5	88
	5552_1_08		Sarah	7162744.94	528980.66	TO102356	5552_1_08	0.5	34
	5552_2_08		Sarah	7162771.49	528978.86	TO102356	5552_2_08	6	174
	5552_3_08		Sarah	7162797.48	528978.20	TO102356	5552_3_08	3	258
	5552_4_08		Sarah	7162822.26	528976.53	TO102356	5552_4_08	10	254
	5552_5_08		Sarah	7162844.68	528975.50	TO102356	5552_5_08	0.5	158
	5552_6_08		Sarah	7162872.00	528975.47	TO102356	5552_6_08	2	212
	5552_7_08		Sarah	7162897.63	528974.28	TO102356	5552_7_08	0.5	191
	5552_8_08		Sarah	7162924.16	528974.11	TO102356	5552_8_08	3	278
107	SCRS_107_08	Thick moss layer	Thomas	7164579.17	520272.25	TO102356	SCRS_107_08	13	210
108	SCRS_108_08		Thomas	7164577.56	520794.25	TO102356	SCRS_108_08	19	100

GRID_ID	..ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
109	SCRS_109_08		Thomas	7164534.76	521218.24	TO102356	SCRS_109_08	33	57
190	SCRS_190_08	Organic rich, leafy trees, spruce, moss	Phil	7166528.00	520811.31	TO102356	SCRS_190_08	13	3
191	SCRS_191_08	Leafy trees, moss, spruce	Phil	7166591.40	521282.45	TO102356	SCRS_191_08	0.5	90
192	SCRS_192_08	Organic rich, leafy trees, spruce, moss	Phil	7166644.50	521776.28	TO102356	SCRS_192_08	2	300
193	SCRS_193_08	Organic rich, leafy trees, spruce, moss	Phil	7166477.40	522249.97	TO102356	SCRS_193_08	0.5	19
194	SCRS_194_08	Organic rich, leafy trees, spruce, moss	Phil	7166488.88	522776.92	TO102356	SCRS_194_08	0.5	154
195	SCRS_195_08	Lots of rock, some moss	Phil	7166584.53	523286.28	TO102356	SCRS_195_08	7	275
196	SCRS_196_08	Moss, small leafy trees	Phil	7166563.02	523816.85	TO102356	SCRS_196_08	2	298
197	SCRS_197_08	Lots of rock, some moss	Phil	7166542.68	524214.45	TO102356	SCRS_197_08	106	6
198	SCRS_198_08	Organic rich, moss, spruce	Phil	7166634.16	524727.37	TO102356	SCRS_198_08	0.5	58
207	SCRS_207_08	Organic rich, leafy trees, spruce, moss	Phil	7167059.88	521173.09	TO102356	SCRS_207_08	3	28
208	SCRS_208_08	Moss, leafy trees	Phil	7167110.49	521739.92	TO102356	SCRS_208_08	6	137
209	SCRS_209_08	Moss	Phil	7166999.04	522223.59	TO102356	SCRS_209_08	2	256
210	SCRS_210_08	Leafy trees, moss, spruce	Phil	7167052.00	522653.00	TO102356	SCRS_210_08	3	252
223	SCRS_223_08	Organic rich, moss, spruce, leafy trees	Phil	7167572.86	521295.50	TO102356	SCRS_223_08	0.5	40
224	SCRS_224_08	Organic rich, moss, spruce, leafy trees	Phil	7167606.27	521774.33	TO102356	SCRS_224_08	4	163
225	SCRS_225_08	Organic rich, moss, spruce, leafy trees	Phil	7167486.72	522304.03	TO102356	SCRS_225_08	7	218
226	SCRS_226_08	Organic rich, moss, spruce, leafy trees	Phil	7167534.00	522815.00	TO102356	SCRS_226_08	2	109
227	SCRS_227_08	Leafy trees,spruce,moss	Phil	7167481.75	523282.49	TO102356	SCRS_227_08	0.5	95
228	SCRS_228_08	Small spruce, moss	Phil	7167496.51	523737.44	TO102356	SCRS_228_08	3	217
236	SCRS_236_08		Kevin	7167604.77	527705.37	TO102356	SCRS_236_08	5	82
240	SCRS_240_08	Organic rich, moss, spruce, leafy trees	Phil	7168116.45	521734.27	TO102356	SCRS_240_08	2	25
241	SCRS_241_08	Organic rich, moss, spruce, leafy trees	Phil	7167984.75	522261.29	TO102356	SCRS_241_08	0.5	73
242	SCRS_242_08	Moss,leafy trees, spruce	Phil	7168094.01	522703.82	TO102356	SCRS_242_08	2	113
243	SCRS_243_08	Moss, spruce, rock	Phil	7167942.33	523284.48	TO102356	SCRS_243_08	2	129
257	SCRS_257_08		Lukas	7168571.95	522248.48	TO102356	SCRS_257_08	0.5	67
258	SCRS_258_08		Kevin	7168498.25	522877.90	TO102356	SCRS_258_08	5	114
259	SCRS_259_08		Kevin	7168483.41	523220.95	TO102356	SCRS_259_08	16	94
260	SCRS_260_08		Kevin	7168514.10	523808.44	TO102356	SCRS_260_08	0.5	125
271	SCRS_271_08		Lukas	7169012.04	522276.78	TO102356	SCRS_271_08	0.5	83
272	SCRS_272_08		Lukas	7169034.39	522780.02	TO102356	SCRS_272_08	0.5	77
273	SCRS_273_08		Lukas	7169105.63	523228.58	TO102356	SCRS_273_08	0.5	126
274	SCRS_274_08		Lukas	7169054.08	523753.43	TO102356	SCRS_274_08	3	204
275	SCRS_275_08		Lukas	7169089.72	524283.07	TO102356	SCRS_275_08	0.5	128
276	SCRS_276_08		Lukas	7169010.01	524751.79	TO102356	SCRS_276_08	3	278
284	SCRS_284_08		Kevin	7169565.36	522082.60	TO102356	SCRS_284_08	0.5	53
285	SCRS_285_08		Kevin	7169414.35	522913.69	TO102356	SCRS_285_08	20	17
286	SCRS_286_08		Kevin	7169408.31	523239.36	TO102356	SCRS_286_08	16	74
287	SCRS_287_08		Kevin	7169531.37	523745.31	TO102356	SCRS_287_08	7	53
288	SCRS_288_08		Kevin	7169447.29	524101.04	TO102356	SCRS_288_08	0.5	3
289	SCRS_289_08		Kevin	7169395.44	524851.51	TO102356	SCRS_289_08	45	41
290	SCRS_290_08		Kevin	7169481.13	525170.78	TO102356	SCRS_290_08	1	142
291	SCRS_291_08		Kevin	7169457.26	525801.55	TO102356	SCRS_291_08	40	8
292	SCRS_292_08	Permafrost in soil	Kevin	7169476.88	526248.46	TO102356	SCRS_292_08	0.5	39
293	SCRS_293_08		Kevin	7169557.31	526793.26	TO102356	SCRS_293_08	1	66
294	SCRS_294_08		Kevin	7169670.72	527258.75	TO102356	SCRS_294_08	0.5	7
295	SCRS_295_08	Area has had recent fires	Thomas	7170118.96	522768.17	TO102356	SCRS_295_08	265	8
296	SCRS_296_08		Thomas	7170020.80	523254.48	TO102356	SCRS_296_08	26	32
297	SCRS_297_08		Thomas	7170061.06	523758.39	TO102356	SCRS_297_08	2	13
298	SCRS_298_08	Area has had recent fires	Thomas	7170062.69	524208.80	TO102356	SCRS_298_08	2	55
299	SCRS_299_08		Thomas	7170050.77	524759.73	TO102356	SCRS_299_08	38	51

GRID_ID	..ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
300	SCRS_300_08		Thomas	7170055.84	525247.92	TO102356	SCRS_300_08	17	44
301	SCRS_301_08		Thomas	7170070.27	525742.84	TO102356	SCRS_301_08	2	68
302	SCRS_302_08		Thomas	7170054.57	526242.01	TO102356	SCRS_302_08	6	106
303	SCRS_303_08	Area has had recent fires	Thomas	7170538.04	522827.17	TO102356	SCRS_303_08	20	4
304	SCRS_304_08	Area has had recent fires	Thomas	7170559.81	523286.19	TO102356	SCRS_304_08	44	39
305	SCRS_305_08	Area has had recent fires	Thomas	7170554.22	523750.95	TO102356	SCRS_305_08	25	22
306	SCRS_306_08		Thomas	7170522.78	524217.54	TO102356	SCRS_306_08	26	53
307	SCRS_307_08		Thomas	7170457.71	524731.09	TO102356	SCRS_307_08	27	74
308	SCRS_308_08		Kevin	7170578.55	525203.37	TO102356	SCRS_308_08	2	26
309	SCRS_309_08		Kevin	7171116.45	523374.19	TO102356	SCRS_309_08	0.5	37
310	SCRS_310_08		Kevin	7171129.67	523748.65	TO102356	SCRS_310_08	2	122
311	SCRS_311_08		Kevin	7171095.48	524231.04	TO102356	SCRS_311_08	2	27
312	SCRS_312_08		Kevin	7170934.80	524739.56	TO102356	SCRS_312_08	17	4
313	SCRS_313_08		Kevin	7171455.79	523798.38	TO102356	SCRS_313_08	0.5	85
50	SCRS_50_08		Thomas	7161046.22	533219.51	TO102356	SCRS_50_08	0.5	31
67	SCRS_67_08		Thomas	7163049.16	527288.39	TO102356	SCRS_67_08	5	130
	SCRS_9211_08	Organic rich, moss	Phil	7167002.72	523235.08	TO102356	SCRS_9211_0	0.5	160
131	SCRS_131_08	Good sample	Sarah	7165002.63	523290.54	TO102354	SCRS_131_08	3	25
132	SCRS_132_08	Constant strong wind from SE	Sarah	7165050.40	523747.74	TO102354	SCRS_132_08	7	32
133	SCRS_133_08	Thick A horizon, good sample	Sarah	7165017.01	524302.70	TO102354	SCRS_133_08	5	86
134	SCRS_134_08	Spruce, willows, moss. Very good sample, just	Sarah	7165034.30	524744.70	TO102354	SCRS_134_08	15	165
135	SCRS_135_08		Sarah	7165036.37	525234.67	TO102354	SCRS_135_08	106	4
136	SCRS_136_08		Kevin	7165086.62	525767.86	TO102354	SCRS_136_08	10	124
137	SCRS_137_08		Kevin	7165028.31	526303.33	TO102354	SCRS_137_08	12	27
138	SCRS_138_08		Kevin	7165026.02	526801.63	TO102354	SCRS_138_08	1	300
139	SCRS_139_08		Kevin	7165014.86	527338.96	TO102354	SCRS_139_08	3	129
140	SCRS_140_08		Kevin	7165154.82	527706.25	TO102354	SCRS_140_08	6	45
141	SCRS_141_08		Kevin	7165151.08	528289.74	TO102354	SCRS_141_08	2	61
142	SCRS_142_08		Kevin	7165109.80	528748.23	TO102354	SCRS_142_08	0.5	28
143	SCRS_143_08		Kevin	7164973.83	529366.85	TO102354	SCRS_143_08	1	300
144	SCRS_144_08		Kevin	7164994.50	529743.04	TO102354	SCRS_144_08	0.5	66
145	SCRS_145_08		Kevin	7165029.19	530296.90	TO102354	SCRS_145_08	2	103
146	SCRS_146_08		Kevin	7165077.33	530786.36	TO102354	SCRS_146_08	8	264
147	SCRS_147_08		Kevin	7165039.55	531111.45	TO102354	SCRS_147_08	1	167
148	SCRS_148_08		Lukas	7165638.75	520230.38	TO102354	SCRS_148_08	9	7
159	SCRS_159_08	Very organic, lots of spruce	Phil	7165546.39	525825.17	TO102354	SCRS_159_08	2	46
160	SCRS_160_08	Organic rich, lots of rock and moss	Phil	7165575.12	526246.09	TO102354	SCRS_160_08	0.5	269
161	SCRS_161_08	Spruce, leafy trees, moss	Phil	7165501.33	526756.80	TO102354	SCRS_161_08	23	119
162	SCRS_162_08	Moss, spruce, creek above, organic rich	Phil	7165498.13	527252.46	TO102354	SCRS_162_08	0.5	106
163	SCRS_163_08	Organic rich, lots of spruce, some leafy trees	Phil	7165526.84	527759.52	TO102354	SCRS_163_08	0.5	57
164	SCRS_164_08	Spruce, leafy trees, moss	Phil	7165534.78	528263.76	TO102354	SCRS_164_08	1	300
165	SCRS_165_08	Can not find clay around, lots of spruce	Phil	7165534.83	528789.40	TO102354	SCRS_165_08	0.5	36
166	SCRS_166_08	Organic rich, lots of spruce	Phil	7165589.27	529272.43	TO102354	SCRS_166_08	3	180
167	SCRS_167_08	Very good sample, perfect clay, lots of spruce	Phil	7165502.99	529760.61	TO102354	SCRS_167_08	4	199
168	SCRS_168_08	Spruce all around, lots of moss	Phil	7165601.27	530218.92	TO102354	SCRS_168_08	9	128
169	SCRS_169_08	Spruce all around, creek above, lots of roots	Phil	7165514.24	530769.85	TO102354	SCRS_169_08	2	89
175	SCRS_175_08		Kevin	7166104.88	522813.98	TO102354	SCRS_175_08	14	158
176	SCRS_176_08	Roots in sample, but horizon and depth is	Kevin	7166143.70	523289.33	TO102354	SCRS_176_08	7	41
177	SCRS_177_08		Kevin	7166089.76	523635.30	TO102354	SCRS_177_08	15	22
178	SCRS_178_08		Kevin	7166163.80	524248.65	TO102354	SCRS_178_08	1	300
179	SCRS_179_08		Kevin	7166037.52	524715.06	TO102354	SCRS_179_08	0.5	253
180	SCRS_180_08		Kevin	7166030.20	525258.13	TO102354	SCRS_180_08	1	282

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
181	SCRS_181_08		Kevin	7166157.55	525766.12	TO102354	SCRS_181_08	0.5	60
182	SCRS_182_08		Kevin	7166224.50	526296.10	TO102354	SCRS_182_08	1	300
206	SCRS_206_08		Thomas	7166598.53	528714.85	TO102354	SCRS_206_08	4	76
261	SCRS_261_08	Leafy trees, spruce, moss, organic rich sample	Phil	7168499.15	524297.53	TO102354	SCRS_261_08	1	243
262	SCRS_262_08	Moss, spruce, leafy trees, organic rich soil	Phil	7168588.21	524768.95	TO102354	SCRS_262_08	0.5	90
263	SCRS_263_08	Moss, leafy trees, spruce, organic rich	Phil	7168589.91	525303.67	TO102354	SCRS_263_08	0.5	140
264	SCRS_264_08	Next to a creek, moss, leafy trees and spruce,	Phil	7168522.23	525789.76	TO102354	SCRS_264_08	1	43
265	SCRS_265_08	Spruce, moss, leafy trees, organic rich sample	Phil	7168588.93	526255.51	TO102354	SCRS_265_08	0.5	76
266	SCRS_266_08	Leafy trees, spruce, moss, organic rich sample	Phil	7168581.82	526781.25	TO102354	SCRS_266_08	0.5	24
267	SCRS_267_08	Moss, leafy trees, spruces, creek above	Phil	7168537.58	527302.42	TO102354	SCRS_267_08	2	23
268	SCRS_268_08	Leafy trees, spruce, moss	Phil	7168592.89	527765.34	TO102354	SCRS_268_08	0.5	7
269	SCRS_269_08	Moss, spruce	Phil	7168536.71	528195.08	TO102354	SCRS_269_08	6	144
270	SCRS_270_08	Good clay, leaves, spruce, moss	Phil	7168486.59	528731.79	TO102354	SCRS_270_08	18	130
31	SCRS_31_08		Kevin	7159700.12	534739.52	TO102354	SCRS_31_08	4	67
32	SCRS_32_08		Kevin	7159428.77	535275.96	TO102354	SCRS_32_08	17	81
33	SCRS_33_08		Kevin	7159494.16	535697.68	TO102354	SCRS_33_08	10	34
34	SCRS_34_08		Kevin	7159666.86	536226.63	TO102354	SCRS_34_08	2	18
35	SCRS_35_08		Kevin	7159646.95	536645.30	TO102354	SCRS_35_08	1	35
36	SCRS_36_08		Kevin	7159967.95	533794.37	TO102354	SCRS_36_08	1	26
37	SCRS_37_08		Kevin	7160123.20	534299.82	TO102354	SCRS_37_08	22	2
38	SCRS_38_08		Kevin	7160048.61	534749.83	TO102354	SCRS_38_08	0.5	14
39	SCRS_39_08		Kevin	7159993.98	535137.29	TO102354	SCRS_39_08	0.5	11
40	SCRS_40_08	OC hard to judge, too foggy to see	Kevin	7159926.25	535829.12	TO102354	SCRS_40_08	21	10
41	SCRS_41_08		Kevin	7160078.46	536252.30	TO102354	SCRS_41_08	1	8
42	SCRS_42_08	Deep A horizon here	Kevin	7160032.25	536716.93	TO102354	SCRS_42_08	1	40
80	SCRS_80_08	Trees	Tubs	7163500.12	528275.55	TO102354	SCRS_80_08	4	57
81	SCRS_81_08	Trees, bushy	Tubs	7163543.61	528749.07	TO102354	SCRS_81_08	40	10
82	SCRS_82_08	Trees, bushy	Tubs	7163572.54	529260.45	TO102354	SCRS_82_08	10	33
83	SCRS_83_08	Trees, willows	Tubs	7163562.49	529751.99	TO102354	SCRS_83_08	6	103
84	SCRS_84_08	Trees, bushy	Tubs	7163545.15	530254.51	TO102354	SCRS_84_08	5	197
85	SCRS_85_08	Trees, boulders	Tubs	7163542.28	530770.00	TO102354	SCRS_85_08	3	186
86	SCRS_86_08	Trees, boulders	Tubs	7163537.15	531208.24	TO102354	SCRS_86_08	0.5	248
87	SCRS_87_08	Trees, bushy	Tubs	7163549.42	531752.57	TO102354	SCRS_87_08	2	267
88	SCRS_88_08	Trees, bushy	Tubs	7163559.43	532252.05	TO102354	SCRS_88_08	4	17
89	SCRS_89_08	Trees, willows	Tubs	7163548.27	532746.89	TO102354	SCRS_89_08	3	122
90	SCRS_90_08		Thomas	7164062.37	525274.42	TO102354	SCRS_90_08	1	5
91	SCRS_91_08		Thomas	7164098.82	525702.18	TO102354	SCRS_91_08	4	70
92	SCRS_92_08		Thomas	7164040.77	526235.12	TO102354	SCRS_92_08	1	49
93	SCRS_93_08		Thomas	7164047.35	526750.15	TO102354	SCRS_93_08	2	48
94	SCRS_94_08		Thomas	7163979.91	527275.63	TO102354	SCRS_94_08	0.5	48
95	SCRS_95_08		Thomas	7164043.92	527758.47	TO102354	SCRS_95_08	0.5	22
96	SCRS_96_08		Thomas	7164053.95	528256.32	TO102354	SCRS_96_08	2	66
967	SCRS_967_08		Thomas	7163067.47	527750.56	TO102354	SCRS_967_08	2	10
968	SCRS_968_08		Thomas	7163060.27	528271.86	TO102354	SCRS_968_08	4	53
97	SCRS_97_08		Thomas	7164025.84	528737.85	TO102354	SCRS_97_08	16	136
	SCRS_980_08	Trees, boulders	Tubs	7163415.45	528291.93	TO102354	SCRS_980_08	33	18

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
1	SCRS_1_08	10	0.05	840	0.5	730	6	10	146	0.5	1540	1	0.7
10	SCRS_10_08	10	0.05	290	0.5	530	3	2.5	63	0.5	30	0.5	0.7
11	SCRS_11_08	0.5	0.1	340	0.5	660	4	37	88	0.5	1410	7	4.8
12	SCRS_12_08	10	0.05	1220	0.5	80	6	70	355	0.5	1020	12	5.9
13	SCRS_13_08	0.5	0.05	2070	0.5	80	10	7	299	0.5	100	1	1.9
14	SCRS_14_08	40	0.05	2240	1	30	24	177	455	200	610	31	13.9
15	SCRS_15_08	10	0.05	1890	0.5	50	8	121	131	0.5	1240	21	10.1
16	SCRS_16_08	0.5	0.05	510	0.5	730	52	26	24	0.5	140	12	6.7
17	SCRS_17_08	0.5	0.05	910	0.5	660	47	8	70	0.5	30	4	2.8
18	SCRS_18_08	0.5	0.05	2220	0.5	100	81	75	104	0.5	310	12	6.6
19	SCRS_19_08	0.5	0.05	980	0.5	770	19	25	22	0.5	160	12	5.5
2	SCRS_2_08	10	0.2	1590	0.5	670	9	238	176	0.5	2710	27	15
20	SCRS_20_08	0.5	0.05	1600	0.5	730	7	26	13	0.5	220	43	19.4
21	SCRS_21_08	0.5	0.05	590	0.5	740	14	5	9	0.5	70	9	4.7
22	SCRS_22_08	0.5	0.05	440	0.5	700	16	10	11	0.5	30	10	5.6
23	SCRS_23_08	0.5	0.05	460	0.5	680	14	2.5	8	0.5	20	5	2.9
24	SCRS_24_08	20	0.2	960	0.5	750	6	122	136	0.5	3170	15	6.6
25	SCRS_25_08	0.5	0.2	600	0.5	730	15	93	379	0.5	4990	11	8.7
26	SCRS_26_08	10	0.05	350	0.5	570	4	54	173	0.5	1890	8	5.5
27	SCRS_27_08	0.5	0.2	480	0.5	650	13	18	65	0.5	310	7	3.5
28	SCRS_28_08	0.5	0.05	190	0.5	500	5	15	211	0.5	940	2	1.7
29	SCRS_29_08	0.5	0.2	900	0.5	1090	10	49	173	0.5	2070	8	4.3
3	SCRS_3_08	30	0.7	3460	0.5	690	5	92	136	0.5	4680	14	7.5
30	SCRS_30_08	10	0.2	1010	0.5	710	12	97	151	0.5	2030	18	10.7
4	SCRS_4_08	0.5	0.1	920	0.5	650	41	23	84	0.5	1000	5	3.1
43	SCRS_43_08	0.5	0.05	470	0.5	680	7	5	14	0.5	110	2	1.2
44	SCRS_44_08	0.5	0.05	480	0.5	660	29	42	25	0.5	70	17	11.4
45	SCRS_45_08	0.5	0.05	300	0.5	610	23	2.5	10	0.5	50	3	1.9
46	SCRS_46_08	0.5	0.05	250	0.5	620	14	2.5	8	0.5	20	1	0.8
47	SCRS_47_08	0.5	0.05	390	0.5	580	44	11	17	0.5	30	5	3.2
48	SCRS_48_08	0.5	1.2	720	0.5	490	10	2.5	21	0.5	240	10	4.1
49	SCRS_49_08	0.5	0.05	890	0.5	600	5	237	75	0.5	1190	24	14.1
5	SCRS_5_08	0.5	0.05	320	0.5	550	8	2.5	55	0.5	220	0.5	0.25
51	SCRS_51_08	0.5	0.05	280	0.5	620	10	6	40	0.5	80	2	1.1
52	SCRS_52_08	0.5	0.05	190	0.5	630	25	25	25	0.5	270	7	3.5
53	SCRS_53_08	0.5	0.05	630	0.5	580	10	2.5	2.5	0.5	230	4	2.3
54	SCRS_54_08	0.5	0.05	530	0.5	600	15	2.5	2.5	0.5	460	3	1.8
6	SCRS_6_08	10	0.05	290	0.5	450	7	57	162	0.5	1350	6	4.9
7	SCRS_7_08	0.5	0.6	1240	0.5	580	15	2.5	31	0.5	910	7	3.2
8	SCRS_8_08	0.5	0.05	1740	0.5	590	9	229	246	0.5	1260	18	10.3
9	SCRS_9_08	70	0.05	220	0.5	690	33	8	85	0.5	30	8	5.4
100	SCRS_100_08	0.5	0.05	430	0.5	0.5	0.5	25	63	0.5	440	5	3.8
101	SCRS_101_08	0.5	0.05	1060	0.5	20	2	26	195	0.5	1540	38	35.9
102	SCRS_102_08	10	0.2	2540	0.5	0.5	6	61	46	0.5	410	19	11.6
103	SCRS_103_08	40	0.1	5500	1	60	13	14	68	0.5	1370	5	4.6

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppb	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
104	SCRS_104_08	30	0.2	5800	0.5	10	5	16	12	0.5	2500	4	3.6
105	SCRS_105_08	30	0.2	3090	0.5	290	32	20	253	0.5	1080	5	3
106	SCRS_106_08	0.5	0.1	660	0.5	0.5	9	44	78	0.5	260	9	4.3
114	SCRS_114_08	0.5	0.05	140	0.5	540	3	11	32	0.5	180	2	1
115	SCRS_115_08	0.5	0.2	1090	0.5	290	16	91	94	0.5	1440	54	30.8
116	SCRS_116_08	0.5	0.2	1840	0.5	0.5	7	55	59	0.5	380	18	13.3
117	SCRS_117_08	0.5	0.05	640	0.5	10	1	73	63	0.5	200	9	6.4
118	SCRS_118_08	10	0.05	200	0.5	540	5	11	38	0.5	330	2	1.3
119	SCRS_119_08	0.5	0.05	1850	0.5	210	14	17	139	0.5	780	11	8.5
120	SCRS_120_08	0.5	0.3	1560	0.5	10	8	80	466	0.5	1200	12	6.2
121	SCRS_121_08	0.5	0.3	810	0.5	180	0.5	29	148	0.5	2430	8	4.7
122	SCRS_122_08	40	0.3	6120	1	20	13	862	363	200	2790	194	99.9
123	SCRS_123_08	10	0.2	3270	0.5	120	9	43	244	0.5	1590	20	12.8
124	SCRS_124_08	0.5	0.1	6530	0.5	70	25	39	93	0.5	520	43	24.3
125	SCRS_125_08	10	0.05	2200	0.5	0.5	31	18	106	0.5	340	14	14.6
126	SCRS_126_08	20	0.2	6710	0.5	50	40	15	305	0.5	260	10	6.6
127	SCRS_127_08	0.5	0.3	230	0.5	180	9	2.5	23	0.5	50	5	3.4
128	SCRS_128_08	10	0.05	1500	2	10	5	30	27	0.5	240	3	1.8
129	SCRS_129_08	0.5	0.05	2640	0.5	640	50	25	25	0.5	90	10	5.1
130	SCRS_130_08	20	0.05	4340	0.5	20	31	104	281	200	560	27	16.2
55	SCRS_55_08	0.5	0.1	580	0.5	580	11	73	73	0.5	350	12	7.4
56	SCRS_56_08	0.5	0.05	860	0.5	580	10	147	139	0.5	780	9	5.3
57	SCRS_57_08	0.5	0.1	380	0.5	550	18	41	31	0.5	170	10	6.1
58	SCRS_58_08	0.5	0.4	90	0.5	450	7	5	2.5	0.5	80	4	2.8
59	SCRS_59_08	0.5	0.1	400	0.5	510	14	112	158	0.5	1220	11	6.4
60	SCRS_60_08	0.5	0.1	200	0.5	600	14	44	56	0.5	260	13	7.4
61	SCRS_61_08	40	0.05	860	1	20	7	120	339	0.5	350	28	12.7
62	SCRS_62_08	0.5	0.1	330	0.5	270	11	168	121	0.5	1040	21	12.9
63	SCRS_63_08	0.5	0.05	250	0.5	520	16	6	2.5	0.5	30	3	2
64	SCRS_64_08	0.5	0.1	150	0.5	560	10	48	33	0.5	120	7	4.2
65	SCRS_65_08	0.5	0.05	90	0.5	440	15	2.5	2.5	0.5	30	1	0.9
66	SCRS_66_08	0.5	0.05	260	0.5	300	6	21	200	0.5	90	7	4
68	SCRS_68_08	0.5	0.2	290	0.5	570	13	2.5	2.5	0.5	330	4	1.9
69	SCRS_69_08	0.5	0.05	290	0.5	630	23	35	37	0.5	120	6	3.9
70	SCRS_70_08	0.5	0.05	180	0.5	650	21	8	6	0.5	20	3	2
71	SCRS_71_08	0.5	0.05	330	0.5	440	9	26	25	0.5	30	7	3.8
72	SCRS_72_08	0.5	0.05	260	0.5	630	18	28	6	0.5	130	17	10
73	SCRS_73_08	0.5	0.05	350	0.5	440	10	74	44	0.5	110	46	30
74	SCRS_74_08	0.5	0.05	260	0.5	540	14	40	44	0.5	210	12	7.3
75	SCRS_75_08	0.5	0.3	1030	0.5	500	16	145	139	0.5	1100	27	13
76	SCRS_76_08	10	0.6	1420	0.5	40	7	138	142	0.5	3420	23	12.3
77	SCRS_77_08	0.5	0.3	1280	0.5	570	13	35	13	0.5	630	9	4.6
78	SCRS_78_08	0.5	0.05	270	0.5	630	20	7	5	0.5	40	4	3.1
79	SCRS_79_08	0.5	0.05	1020	0.5	360	11	16	2.5	0.5	60	16	7.5

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
	SCRS_9104_08	40	0.1	7190	2	10	4	14	16	100	480	5	3.9
98	SCRS_98_08	0.5	0.1	610	0.5	350	7	29	16	0.5	230	18	7.2
99	SCRS_99_08	20	0.05	1220	0.5	20	2	34	35	0.5	1100	7	5.2
	555_1_08	0.5	0.2	4280	0.5	770	8	2.5	220	0.5	2840	3	2.8
	555_2_08	10	0.05	830	1	60	16	651	139	0.5	290	41	17
	555_3_08	40	2.9	1180	19	90	6	2630	26	0.5	1010	597	237
	555_4_08	0.5	0.3	280	0.5	0.5	5	59	151	0.5	460	19	10.9
	555_5_08	0.5	0.5	30	0.5	90	7	328	109	0.5	1430	119	63.1
	555_6_08	10	0.7	850	0.5	30	5	737	22	0.5	1720	185	88.9
	555_7_08	0.5	0.3	140	0.5	190	6	55	6	100	680	49	31.5
	555_8_08	0.5	0.05	460	0.5	20	4	62	45	0.5	1530	59	40.2
	555_91_08	0.5	0.1	11400	0.5	890	6	2.5	142	0.5	890	1	1.1
110	SCRS_110_08	0.5	0.05	270	0.5	380	18	21	110	0.5	320	3	1.9
111	SCRS_111_08	0.5	0.2	930	0.5	400	29	53	46	0.5	2190	13	7.9
112	SCRS_112_08	0.5	0.05	450	0.5	270	19	33	147	0.5	1240	7	4.2
113	SCRS_113_08	0.5	0.3	100	0.5	390	3	9	71	0.5	530	2	1
149	SCRS_149_08	0.5	0.7	1690	0.5	600	15	7	201	0.5	970	9	5.2
150	SCRS_150_08	0.5	0.05	350	0.5	540	21	2.5	15	0.5	30	2	1.3
151	SCRS_151_08	0.5	0.7	2640	0.5	640	3	200	140	0.5	3270	25	12
152	SCRS_152_08	20	0.05	890	0.5	310	39	157	378	0.5	1240	42	22.6
153	SCRS_153_08	0.5	0.2	1790	0.5	490	7	46	186	0.5	690	7	3.3
154	SCRS_154_08	10	0.1	2260	0.5	100	4	96	172	0.5	570	18	9
155	SCRS_155_08	0.5	0.5	520	0.5	350	8	16	66	0.5	390	9	4
156	SCRS_156_08	0.5	0.05	180	0.5	450	5	2.5	39	0.5	40	1	0.8
157	SCRS_157_08	0.5	0.1	490	0.5	560	10	2.5	43	0.5	790	3	1.5
158	SCRS_158_08	0.5	0.2	750	0.5	480	9	44	99	0.5	1120	6	3.2
170	SCRS_170_08	60	3.8	2210	3	70	3	232	81	200	4430	45	20.9
171	SCRS_171_08	0.5	0.05	500	0.5	510	26	2.5	23	0.5	40	5	5
172	SCRS_172_08	0.5	0.05	740	0.5	550	35	19	21	0.5	40	9	5.4
173	SCRS_173_08	0.5	0.7	570	0.5	470	6	51	297	0.5	7000	11	5.8
174	SCRS_174_08	0.5	0.4	1450	0.5	300	6	248	672	0.5	3160	174	99
183	SCRS_183_08	0.5	0.05	650	0.5	40	2	2.5	30	0.5	0.5	0.5	0.25
184	SCRS_184_08	0.5	0.05	1130	0.5	20	2	23	126	0.5	50	5	6
185	SCRS_185_08	10	0.2	3360	0.5	60	37	40	460	0.5	960	12	8.6
186	SCRS_186_08	0.5	0.05	340	0.5	0.5	8	24	19	0.5	70	4	2.6
187	SCRS_187_08	0.5	0.05	3200	0.5	600	12	35	43	0.5	140	4	1.4
188	SCRS_188_08	0.5	0.05	1940	0.5	130	190	23	493	0.5	380	30	31.4
189	SCRS_189_08	20	0.4	4100	0.5	30	62	105	202	0.5	2130	88	41
199	SCRS_199_08	10	0.05	560	0.5	0.5	8	22	42	0.5	110	9	4.9
200	SCRS_200_08	0.5	0.05	560	2	0.5	14	21	83	0.5	100	4	3.2
201	SCRS_201_08	0.5	0.05	460	0.5	0.5	5	15	96	0.5	30	7	5.8
202	SCRS_202_08	10	0.05	1310	0.5	0.5	13	68	240	0.5	180	26	12.3
203	SCRS_203_08	20	0.1	1530	0.5	0.5	15	89	88	0.5	390	27	15
204	SCRS_204_08	10	0.05	3110	0.5	10	80	15	101	0.5	210	7	10.3
205	SCRS_205_08	0.5	0.05	3630	0.5	340	16	30	124	0.5	1170	4	1.7
211	SCRS_211_08	0.5	0.05	2600	0.5	40	20	68	55	0.5	60	35	20.5
212	SCRS_212_08	0.5	0.05	300	0.5	450	13	7	2.5	0.5	20	3	1.8

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
213	SCRS_213_08	0.5	0.3	480	0.5	510	20	16	19	0.5	570	11	4.7
214	SCRS_214_08	0.5	0.3	870	0.5	360	68	29	94	0.5	800	13	7.1
215	SCRS_215_08	0.5	0.05	360	0.5	0.5	2	19	57	0.5	60	7	4.9
216	SCRS_216_08	0.5	0.05	1500	0.5	210	339	128	124	0.5	700	25	13.2
217	SCRS_217_08	10	0.1	1090	0.5	410	123	13	199	0.5	1580	2	1.2
218	SCRS_218_08	0.5	0.05	4140	0.5	20	16	2.5	110	0.5	830	8	15
219	SCRS_219_08	0.5	0.05	2740	0.5	30	2	2.5	28	0.5	40	0.5	1.6
220	SCRS_220_08	10	0.05	5940	0.5	220	20	503	170	0.5	290	60	23.6
221	SCRS_221_08	0.5	0.05	760	0.5	0.5	17	13	98	0.5	80	4	3.1
222	SCRS_222_08	0.5	0.1	3280	0.5	600	53	129	33	0.5	850	35	16.1
229	SCRS_229_08	20	0.05	500	0.5	10	11	40	99	0.5	210	15	6.3
230	SCRS_230_08	0.5	0.05	300	1	0.5	5	13	41	0.5	60	3	2
231	SCRS_231_08	0.5	0.05	540	0.5	50	2	25	72	0.5	180	3	1.9
232	SCRS_232_08	0.5	0.05	610	0.5	10	2	2.5	21	0.5	20	0.5	0.6
233	SCRS_233_08	0.5	0.05	1960	0.5	120	14	21	111	0.5	120	9	4.9
234	SCRS_234_08	30	0.3	920	0.5	380	36	55	230	0.5	3120	10	5.6
235	SCRS_235_08	0.5	0.6	1450	0.5	430	26	127	307	0.5	2000	31	14.5
236	SCRS_236_08	0.5	0.4	1650	0.5	680	65	131	129	0.5	3650	37	20.5
237	SCRS_237_08	0.5	0.3	2250	0.5	480	56	127	171	0.5	2760	27	14.2
238	SCRS_238_08	0.5	0.05	1490	0.5	260	25	2.5	60	0.5	1450	1	0.9
239	SCRS_239_08	100	0.4	9570	0.5	200	18	1130	264	0.5	5600	142	77
244	SCRS_244_08	0.5	0.05	6830	0.5	590	30	2650	77	0.5	520	77	24.2
245	SCRS_245_08	0.5	0.1	2860	0.5	220	7	72	123	0.5	1200	18	9.6
246	SCRS_246_08	10	0.2	1140	0.5	10	26	155	49	0.5	290	25	11.2
247	SCRS_247_08	10	0.05	1560	0.5	40	5	24	346	0.5	560	5	3.7
248	SCRS_248_08	20	1	4180	1	230	16	127	420	300	1920	47	18.9
249	SCRS_249_08	0.5	0.2	2670	0.5	260	9	373	274	0.5	570	72	28.7
250	SCRS_250_08	0.5	0.1	1670	0.5	520	27	74	56	0.5	1100	15	6.4
251	SCRS_251_08	10	0.3	800	0.5	570	10	161	314	0.5	2350	21	11.4
252	SCRS_252_08	0.5	0.4	1960	0.5	520	79	79	87	0.5	3470	15	7.6
253	SCRS_253_08	20	0.3	1060	0.5	530	36	39	107	0.5	4430	6	3.7
254	SCRS_254_08	0.5	0.3	5250	0.5	410	592	543	218	100	4010	106	52.6
255	SCRS_255_08	30	0.1	1500	0.5	0.5	1	90	98	0.5	1080	11	5.7
277	SCRS_277_08	0.5	0.05	440	0.5	380	33	20	11	0.5	30	7	4
278	SCRS_278_08	0.5	0.05	510	0.5	490	34	5	2.5	0.5	30	2	1.2
279	SCRS_279_08	0.5	0.05	1170	0.5	410	29	11	8	0.5	20	8	3.8
280	SCRS_280_08	0.5	0.05	1230	0.5	520	38	19	6	0.5	70	9	4.9
281	SCRS_281_08	30	0.1	890	0.5	410	11	28	136	0.5	1390	4	2.6
282	SCRS_282_08	0.5	0.5	3050	0.5	770	72	43	186	0.5	2650	10	4.7
283	SCRS_283_08	30	0.3	4420	0.5	100	6	74	265	0.5	1380	13	7.9
	5552_1_08	0.5	0.05	3660	0.5	750	5	30	199	0.5	1740	3	1.9
	5552_2_08	0.5	0.1	430	0.5	30	4	775	7	0.5	160	65	26.2
	5552_3_08	0.5	0.05	520	0.5	10	4	61	91	0.5	300	60	37.1
	5552_4_08	20	1	210	0.5	20	4	169	39	0.5	12300	92	50
	5552_5_08	0.5	0.3	100	0.5	220	17	63	42	0.5	2290	62	45
	5552_6_08	0.5	0.05	720	0.5	110	9	88	137	0.5	1190	25	15.9
	5552_7_08	0.5	0.05	480	0.5	70	13	42	117	0.5	780	15	12.3
	5552_8_08	0.5	0.05	380	0.5	30	7	38	90	0.5	1050	30	20.2
107	SCRS_107_08	10	0.05	1910	0.5	70	6	29	65	0.5	380	4	2.6
108	SCRS_108_08	20	0.3	2090	0.5	260	22	117	188	0.5	1390	28	12.4

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
109	SCRS_109_08	0.5	0.3	1470	0.5	420	52	65	420	0.5	640	19	10.1
190	SCRS_190_08	0.5	0.2	390	0.5	590	9	18	39	0.5	370	6	2.5
191	SCRS_191_08	50	0.05	800	0.5	120	0.5	22	228	0.5	520	4	2.3
192	SCRS_192_08	10	0.05	620	0.5	10	18	16	221	0.5	250	15	9.7
193	SCRS_193_08	0.5	0.05	400	0.5	590	13	5	15	0.5	20	3	2.1
194	SCRS_194_08	10	0.05	460	1	30	1	14	100	0.5	190	4	3.8
195	SCRS_195_08	0.5	0.05	600	0.5	0.5	2	20	76	0.5	340	6	4.6
196	SCRS_196_08	20	0.05	1780	0.5	30	4	215	326	0.5	220	38	12.4
197	SCRS_197_08	0.5	1.1	130	0.5	440	5	18	39	0.5	210	3	1.7
198	SCRS_198_08	0.5	0.05	420	0.5	540	14	13	6	0.5	20	7	3.5
207	SCRS_207_08	0.5	0.05	790	0.5	510	28	39	61	0.5	800	8	4.9
208	SCRS_208_08	40	0.1	2120	2	20	1	82	161	0.5	960	16	8.5
209	SCRS_209_08	0.5	0.05	180	0.5	0.5	0.5	20	25	0.5	490	4	2.4
210	SCRS_210_08	70	0.05	2140	2	40	11	110	475	0.5	630	67	34.2
223	SCRS_223_08	0.5	0.05	430	0.5	590	21	11	11	0.5	40	5	3
224	SCRS_224_08	50	0.1	2550	2	20	5	63	163	100	930	15	8.8
225	SCRS_225_08	0.5	0.05	1220	0.5	110	18	31	428	0.5	1030	15	12.4
226	SCRS_226_08	0.5	0.05	1470	0.5	160	9	17	451	0.5	2340	15	13.3
227	SCRS_227_08	20	0.05	970	0.5	120	4	22	321	0.5	1600	7	4.9
228	SCRS_228_08	0.5	0.05	1050	0.5	100	14	49	457	0.5	430	34	23.7
236	SCRS_236_08	20	0.05	1720	0.5	70	27	69	631	0.5	110	9	8.7
240	SCRS_240_08	0.5	0.05	1700	0.5	610	7	50	115	0.5	1460	4	1.4
241	SCRS_241_08	0.5	0.05	720	0.5	350	36	15	91	0.5	370	12	9.9
242	SCRS_242_08	70	0.3	3850	1	200	7	266	331	0.5	2160	93	50.9
243	SCRS_243_08	50	0.05	2050	2	130	4	92	996	100	1010	20	8.3
257	SCRS_257_08	0.5	0.05	3200	0.5	420	81	50	50	0.5	580	20	12.2
258	SCRS_258_08	0.5	0.05	4000	0.5	360	19	73	313	0.5	320	16	7.4
259	SCRS_259_08	0.5	0.3	3050	0.5	560	164	80	133	0.5	4940	28	14.3
260	SCRS_260_08	10	0.05	1470	2	100	8	46	276	0.5	780	7	5
271	SCRS_271_08	0.5	0.05	740	0.5	630	102	26	21	0.5	140	13	8.2
272	SCRS_272_08	0.5	0.05	1490	0.5	590	57	36	36	0.5	160	22	13.3
273	SCRS_273_08	0.5	0.05	1450	0.5	390	70	42	41	0.5	330	51	40.3
274	SCRS_274_08	0.5	0.05	2200	0.5	220	121	47	273	0.5	250	21	12
275	SCRS_275_08	0.5	0.05	850	2	250	5	9	533	0.5	130	4	8.3
276	SCRS_276_08	0.5	0.1	650	0.5	30	2	10	89	0.5	220	2	1.4
284	SCRS_284_08	0.5	0.05	680	0.5	230	3	11	186	0.5	130	2	1.6
285	SCRS_285_08	0.5	0.05	440	0.5	690	10	2.5	13	0.5	720	7	3.8
286	SCRS_286_08	0.5	0.05	560	0.5	390	24	30	17	0.5	290	10	4.9
287	SCRS_287_08	0.5	0.05	1800	0.5	590	9	39	61	0.5	390	5	2.5
288	SCRS_288_08	0.5	0.05	280	0.5	600	8	2.5	5	0.5	0.5	1	0.5
289	SCRS_289_08	0.5	0.5	1480	0.5	550	15	87	16	0.5	260	72	30.4
290	SCRS_290_08	0.5	0.1	640	0.5	90	10	51	559	0.5	440	15	5.9
291	SCRS_291_08	0.5	0.4	2280	0.5	550	10	39	163	0.5	2020	7	3.5
292	SCRS_292_08	50	0.5	3740	0.5	440	6	237	291	0.5	3460	37	21.1
293	SCRS_293_08	0.5	0.05	610	0.5	520	17	11	77	0.5	370	2	1
294	SCRS_294_08	50	0.05	1070	0.5	450	3	66	199	0.5	210	9	5.9
295	SCRS_295_08	0.5	1.3	930	0.5	700	8	2.5	2.5	0.5	1340	7	3.3
296	SCRS_296_08	0.5	0.2	1100	0.5	880	64	2.5	2.5	0.5	150	4	2
297	SCRS_297_08	0.5	0.3	440	0.5	680	6	70	266	0.5	1070	11	5.5
298	SCRS_298_08	0.5	0.05	1380	0.5	560	6	400	250	0.5	790	26	15.5
299	SCRS_299_08	0.5	0.3	1230	0.5	820	65	24	15	0.5	190	15	7.4

GRID_ID	.LD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_pp.	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
300	SCRS_300_08	0.5	0.3	5700	0.5	890	51	101	51	0.5	4050	30	16.4
301	SCRS_301_08	0.5	0.1	3000	0.5	510	2	53	307	0.5	3860	14	9.2
302	SCRS_302_08	0.5	0.1	3980	0.5	590	26	98	283	0.5	1320	20	11.7
303	SCRS_303_08	0.5	0.05	400	0.5	580	189	2.5	91	0.5	1080	21	9.2
304	SCRS_304_08	0.5	0.2	720	0.5	870	23	8	2.5	0.5	460	8	3.5
305	SCRS_305_08	0.5	0.5	1020	0.5	830	4	123	120	0.5	810	16	7
306	SCRS_306_08	0.5	0.5	2410	0.5	530	12	177	30	0.5	260	130	49.3
307	SCRS_307_08	0.5	0.5	1180	0.5	410	13	140	196	0.5	780	12	6.6
308	SCRS_308_08	30	0.2	490	0.5	630	4	19	237	0.5	2070	4	2.3
309	SCRS_309_08	0.5	0.05	1300	0.5	710	3	33	190	0.5	1000	4	2.4
310	SCRS_310_08	0.5	0.1	3790	0.5	150	6	39	698	0.5	3010	18	13.8
311	SCRS_311_08	0.5	0.1	1770	0.5	870	8	2.5	52	0.5	1000	6	3.6
312	SCRS_312_08	0.5	0.05	220	0.5	430	6	2.5	35	0.5	670	1	0.7
313	SCRS_313_08	0.5	0.05	4870	0.5	320	9	22	414	0.5	2110	9	6.5
50	SCRS_50_08	0.5	0.05	600	0.5	560	7	5	45	0.5	290	0.5	0.6
67	SCRS_67_08	10	0.4	1020	0.5	40	4	26	303	0.5	3770	10	8.5
	SCRS_9211_08	20	0.05	2550	1	40	3	36	66	0.5	300	16	8.8
131	SCRS_131_08	0.5	0.05	80	0.5	390	19	2.5	2.5	0.5	50	1	0.7
132	SCRS_132_08	0.5	0.05	70	0.5	450	17	2.5	2.5	0.5	80	2	0.9
133	SCRS_133_08	0.5	0.1	140	0.5	690	17	36	11	0.5	140	17	10.2
134	SCRS_134_08	0.5	0.2	810	0.5	420	12	145	29	0.5	680	55	32.4
135	SCRS_135_08	0.5	0.2	130	0.5	550	5	17	11	0.5	500	6	2.5
136	SCRS_136_08	0.5	0.4	1160	0.5	530	6	167	336	0.5	730	35	18.7
137	SCRS_137_08	0.5	0.2	310	0.5	780	9	26	67	0.5	380	4	2.1
138	SCRS_138_08	30	0.05	530	0.5	10	6	52	55	100	190	27	14.8
139	SCRS_139_08	30	0.4	2460	0.5	30	2	46	200	0.5	3030	10	6.2
140	SCRS_140_08	10	0.2	1180	0.5	540	5	70	326	0.5	2770	8	4.7
141	SCRS_141_08	0.5	0.05	430	0.5	760	8	26	45	0.5	240	6	3.8
142	SCRS_142_08	20	0.3	490	0.5	580	5	15	93	0.5	2290	3	1.5
143	SCRS_143_08	0.5	0.05	520	0.5	20	6	101	40	0.5	110	12	5
144	SCRS_144_08	40	0.1	970	0.5	180	1	38	193	0.5	530	12	6.6
145	SCRS_145_08	60	0.4	2830	0.5	20	4	51	183	0.5	3480	12	9
146	SCRS_146_08	0.5	0.4	480	0.5	0.5	11	41	27	0.5	290	25	13
147	SCRS_147_08	0.5	0.2	650	0.5	20	1	6	12	0.5	160	1	0.9
148	SCRS_148_08	0.5	0.4	410	0.5	570	3	2.5	34	0.5	480	1	0.9
159	SCRS_159_08	0.5	0.05	190	0.5	770	12	2.5	2.5	0.5	30	0.5	0.6
160	SCRS_160_08	0.5	0.1	260	0.5	90	8	6	41	0.5	80	7	4.7
161	SCRS_161_08	0.5	0.3	1020	0.5	790	18	107	116	0.5	1210	25	13.8
162	SCRS_162_08	0.5	0.05	290	0.5	510	12	14	23	0.5	70	5	2.8
163	SCRS_163_08	0.5	0.05	190	0.5	620	42	19	73	0.5	90	8	4.8
164	SCRS_164_08	0.5	0.05	380	0.5	10	9	8	100	0.5	210	14	9.3
165	SCRS_165_08	0.5	0.05	300	0.5	640	12	5	10	0.5	30	2	0.9
166	SCRS_166_08	20	0.05	1360	1	90	4	132	208	0.5	240	28	8.9
167	SCRS_167_08	0.5	0.1	4880	0.5	120	3	17	180	0.5	1260	5	3.8
168	SCRS_168_08	10	0.6	1100	0.5	20	3	6	26	0.5	4070	3	2.9
169	SCRS_169_08	0.5	0.1	1630	0.5	50	3	16	60	0.5	420	2	2.2
175	SCRS_175_08	0.5	0.3	580	0.5	290	1	413	465	0.5	1960	151	102
176	SCRS_176_08	0.5	0.05	160	0.5	710	6	30	20	0.5	120	13	6.2
177	SCRS_177_08	0.5	0.1	200	0.5	630	3	6	65	0.5	290	3	1.7
178	SCRS_178_08	0.5	0.05	410	0.5	0.5	1	12	72	0.5	500	2	1.2
179	SCRS_179_08	40	0.05	430	1	30	3	165	47	0.5	160	18	8
180	SCRS_180_08	20	0.05	910	1	20	9	83	274	300	270	23	10.5

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
181	SCRS_181_08	20	0.1	530	0.5	430	3	23	352	0.5	750	5	3
182	SCRS_182_08	0.5	0.1	600	0.5	20	11	16	150	0.5	130	22	12.9
206	SCRS_206_08	0.5	0.1	2070	0.5	210	4	9	156	0.5	1550	3	2.1
261	SCRS_261_08	0.5	0.05	880	0.5	340	137	45	245	0.5	810	64	54.3
262	SCRS_262_08	0.5	0.05	430	0.5	660	93	49	19	0.5	90	15	9.9
263	SCRS_263_08	0.5	0.05	250	0.5	430	51	28	27	0.5	190	12	7.4
264	SCRS_264_08	0.5	0.05	280	0.5	580	17	12	64	0.5	500	2	1
265	SCRS_265_08	0.5	0.05	210	0.5	710	19	7	37	0.5	80	3	2.1
266	SCRS_266_08	0.5	0.05	290	0.5	800	19	2.5	23	0.5	40	3	1.4
267	SCRS_267_08	0.5	0.05	330	0.5	740	60	2.5	2.5	0.5	30	3	1.2
268	SCRS_268_08	0.5	0.05	90	0.5	520	14	2.5	11	0.5	50	0.5	0.25
269	SCRS_269_08	20	0.2	6980	0.5	360	48	962	840	0.5	1180	142	66.9
270	SCRS_270_08	0.5	0.3	4570	0.5	500	42	192	337	0.5	1820	65	36.2
31	SCRS_31_08	0.5	0.1	340	0.5	570	11	20	34	0.5	160	5	2.6
32	SCRS_32_08	0.5	0.2	600	0.5	390	7	725	16	0.5	740	172	107
33	SCRS_33_08	0.5	0.1	110	0.5	390	11	2.5	2.5	0.5	100	1	1.2
34	SCRS_34_08	0.5	0.05	80	0.5	340	12	2.5	2.5	0.5	30	1	1
35	SCRS_35_08	0.5	0.05	330	0.5	590	6	75	78	0.5	360	10	6
36	SCRS_36_08	0.5	0.1	150	0.5	320	3	28	188	0.5	350	3	1.8
37	SCRS_37_08	0.5	0.1	50	0.5	650	7	2.5	56	0.5	910	4	2.2
38	SCRS_38_08	0.5	0.1	140	0.5	630	3	37	237	0.5	1920	8	5.3
39	SCRS_39_08	10	0.2	130	0.5	670	1	48	545	0.5	2190	8	4.8
40	SCRS_40_08	0.5	0.2	160	0.5	810	23	5	14	0.5	350	12	6
41	SCRS_41_08	0.5	0.05	60	0.5	490	11	2.5	2.5	0.5	10	2	1.7
42	SCRS_42_08	0.5	0.05	50	0.5	390	14	2.5	2.5	0.5	10	1	0.8
80	SCRS_80_08	0.5	1.9	370	0.5	370	22	176	721	0.5	2450	16	8.4
81	SCRS_81_08	0.5	0.3	150	0.5	510	12	11	72	0.5	1540	6	3.4
82	SCRS_82_08	0.5	0.2	380	0.5	540	3	73	229	0.5	1230	15	8.4
83	SCRS_83_08	0.5	0.1	370	0.5	520	10	93	163	0.5	1210	24	12.8
84	SCRS_84_08	30	0.2	2100	0.5	110	13	588	197	0.5	750	203	113
85	SCRS_85_08	0.5	0.1	970	0.5	160	6	128	208	0.5	1430	29	15.9
86	SCRS_86_08	0.5	0.05	590	0.5	20	3	14	181	0.5	1320	15	14
87	SCRS_87_08	0.5	0.05	340	0.5	40	5	9	71	0.5	830	10	7.5
88	SCRS_88_08	0.5	0.05	190	0.5	620	3	19	124	0.5	1030	3	1.8
89	SCRS_89_08	0.5	0.05	620	0.5	290	5	18	67	0.5	400	14	7.4
90	SCRS_90_08	0.5	0.05	150	0.5	810	9	2.5	2.5	0.5	60	1	0.7
91	SCRS_91_08	0.5	0.05	60	0.5	540	18	2.5	2.5	0.5	20	5	3.4
92	SCRS_92_08	0.5	0.05	190	0.5	710	4	28	155	0.5	550	3	2.2
93	SCRS_93_08	0.5	0.1	80	0.5	680	16	2.5	2.5	0.5	10	3	1.8
94	SCRS_94_08	0.5	0.1	270	0.5	640	1	49	422	0.5	1170	7	4
95	SCRS_95_08	0.5	0.1	80	0.5	580	5	9	52	0.5	660	3	1.6
96	SCRS_96_08	0.5	0.2	180	0.5	640	9	28	185	0.5	2020	8	5.2
967	SCRS_967_08	20	0.3	210	0.5	480	3	19	95	0.5	3020	2	1.5
968	SCRS_968_08	0.5	0.1	220	0.5	710	5	20	141	0.5	1160	3	2.2
97	SCRS_97_08	10	0.5	1650	0.5	160	10	85	317	0.5	1820	44	29.3
	SCRS_980_08	0.5	0.4	160	0.5	590	7	6	9	0.5	560	6	2.9

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
1	SCRS_1_08	0.25	24	2	4	2.5	30	11	0.9	7	497	60
10	SCRS_10_08	0.25	11	0.5	0.5	2.5	95	2.5	0.25	1	190	50
11	SCRS_11_08	1.6	56	8	13	2.5	11	2.5	1	22	389	110
12	SCRS_12_08	2.8	437	12	41	2.5	12	2.5	2.3	49	722	30
13	SCRS_13_08	0.25	109	0.5	5	19	99	2.5	0.25	4	599	0.5
14	SCRS_14_08	7.7	196	34	84	2.5	7	2.5	5.5	110	249	890
15	SCRS_15_08	5.7	92	24	57	2.5	14	2.5	2.5	86	300	630
16	SCRS_16_08	2.6	20	13	14	5	30	2.5	0.25	26	564	40
17	SCRS_17_08	0.25	10	3	3	2.5	25	2.5	0.25	5	39	80
18	SCRS_18_08	2.5	88	11	24	2.5	13	2.5	2.6	32	136	420
19	SCRS_19_08	4.6	21	16	14	2.5	37	2.5	0.25	31	448	50
2	SCRS_2_08	8.2	93	38	81	2.5	14	6	1.6	149	184	180
20	SCRS_20_08	13.5	15	57	48	2.5	3	2.5	0.25	106	177	70
21	SCRS_21_08	1.8	13	11	5	2.5	10	2.5	0.25	17	135	0.5
22	SCRS_22_08	2.1	12	12	12	2.5	30	2.5	0.25	26	109	30
23	SCRS_23_08	0.8	6	5	3	2.5	4	2.5	0.25	9	45	30
24	SCRS_24_08	5.3	43	23	43	2.5	16	14	1.4	88	580	90
25	SCRS_25_08	3.6	58	17	36	2.5	20	8	1.1	66	3310	70
26	SCRS_26_08	1.8	54	9	18	2.5	3	2.5	1.3	32	277	50
27	SCRS_27_08	1.8	25	10	9	2.5	6	2.5	0.25	24	203	20
28	SCRS_28_08	0.25	31	2	5	2.5	4	6	1.1	8	228	30
29	SCRS_29_08	2.2	18	11	19	2.5	19	2.5	0.7	32	1470	40
3	SCRS_3_08	3.7	55	19	24	2.5	12	10	1.8	56	417	70
30	SCRS_30_08	5	80	22	36	2.5	25	7	1.7	66	580	110
4	SCRS_4_08	1.1	47	6	11	2.5	10	2.5	0.6	18	564	230
43	SCRS_43_08	0.5	15	3	4	2.5	9	2.5	0.25	7	87	20
44	SCRS_44_08	2.8	25	16	13	2.5	6	2.5	0.25	28	97	160
45	SCRS_45_08	0.25	10	2	1	2.5	13	2.5	0.25	2	82	20
46	SCRS_46_08	0.25	6	0.5	1	2.5	17	2.5	0.25	2	61	20
47	SCRS_47_08	0.6	15	4	4	2.5	13	2.5	0.25	8	47	170
48	SCRS_48_08	2.7	6	16	2	2.5	17	2.5	0.25	21	130	20
49	SCRS_49_08	7	72	35	70	2.5	14	2.5	0.7	127	54	20
5	SCRS_5_08	0.25	19	0.5	1	2.5	6	6	0.25	1	43	40
51	SCRS_51_08	0.25	11	2	2	2.5	15	2.5	0.25	4	57	40
52	SCRS_52_08	1.6	17	9	7	2.5	24	2.5	0.25	19	219	20
53	SCRS_53_08	1.3	11	6	9	2.5	9	2.5	0.25	16	76	20
54	SCRS_54_08	0.9	10	4	6	2.5	18	2.5	0.25	12	118	10
6	SCRS_6_08	1.4	62	7	21	2.5	11	2.5	1	32	213	20
7	SCRS_7_08	1.5	10	9	4	2.5	7	2.5	0.25	13	120	80
8	SCRS_8_08	5.6	56	28	79	2.5	11	2.5	0.25	125	129	20
9	SCRS_9_08	1	15	6	3	2.5	45	2.5	0.25	7	86	90
100	SCRS_100_08	0.9	184	3	13	2.5	0.5	2.5	3.5	11	61	30
101	SCRS_101_08	2	177	10	16	2.5	2	2.5	0.9	19	64	90
102	SCRS_102_08	4.2	72	18	27	2.5	1	2.5	2.1	42	34	230
103	SCRS_103_08	1.5	423	4	7	6	16	82	3.9	10	242	20

GRID_ID	...LD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
104	SCRS_104_08	1.6	357	4	9	2.5	3	85	4.1	10	185	50
105	SCRS_105_08	1.5	199	5	7	2.5	108	83	1	14	502	40
106	SCRS_106_08	2.2	63	9	18	2.5	1	2.5	1.7	24	51	310
114	SCRS_114_08	0.25	15	2	4	2.5	10	2.5	0.25	5	68	40
115	SCRS_115_08	8.2	254	43	36	2.5	23	2.5	0.25	71	537	190
116	SCRS_116_08	2.5	170	11	24	2.5	0.5	2.5	3	29	133	220
117	SCRS_117_08	2	315	9	29	2.5	1	2.5	2.5	31	119	20
118	SCRS_118_08	0.5	44	2	5	2.5	7	2.5	0.25	8	96	100
119	SCRS_119_08	1.6	194	8	7	2.5	16	7	1	13	83	60
120	SCRS_120_08	2.8	95	10	21	2.5	1	2.5	1.1	27	107	130
121	SCRS_121_08	1.6	238	7	14	2.5	28	8	0.8	20	190	40
122	SCRS_122_08	40.8	225	197	319	2.5	2	8	5.4	528	195	180
123	SCRS_123_08	3.1	306	14	20	2.5	13	10	1	30	415	50
124	SCRS_124_08	6.5	152	33	13	2.5	12	7	1.8	45	694	180
125	SCRS_125_08	1	161	4	9	2.5	6	2.5	2.4	10	135	150
126	SCRS_126_08	2.1	85	6	7	2.5	15	6	1.3	11	414	100
127	SCRS_127_08	0.8	4	4	2	2.5	49	2.5	0.25	5	88	40
128	SCRS_128_08	1	329	4	16	2.5	6	5	7.7	14	74	70
129	SCRS_129_08	2.6	13	12	10	2.5	48	2.5	0.25	24	284	80
130	SCRS_130_08	4.9	163	21	59	18	18	5	6.3	66	314	170
55	SCRS_55_08	3.1	18	15	15	2.5	10	2.5	0.25	38	216	20
56	SCRS_56_08	3	64	13	37	2.5	13	2.5	0.25	58	102	40
57	SCRS_57_08	2.2	40	11	15	2.5	21	2.5	0.25	26	237	230
58	SCRS_58_08	0.7	7	4	2	2.5	14	2.5	0.25	6	125	10
59	SCRS_59_08	3.2	38	14	27	2.5	12	6	0.6	53	414	20
60	SCRS_60_08	3.3	47	16	19	2.5	18	2.5	0.25	39	261	180
61	SCRS_61_08	7.1	265	31	43	2.5	2	8	6.3	75	119	170
62	SCRS_62_08	4.9	79	24	56	2.5	6	5	0.5	96	167	40
63	SCRS_63_08	0.25	4	3	3	2.5	2	2.5	0.25	6	61	10
64	SCRS_64_08	1.5	28	8	13	2.5	12	2.5	0.25	24	214	30
65	SCRS_65_08	0.25	5	0.5	0.5	7	16	2.5	0.25	1	92	0.5
66	SCRS_66_08	1.6	53	8	6	7	12	2.5	0.5	14	66	240
68	SCRS_68_08	1.1	8	5	3	2.5	2	2.5	0.25	11	139	10
69	SCRS_69_08	1.6	33	7	10	2.5	3	2.5	0.25	19	275	20
70	SCRS_70_08	0.6	8	3	3	2.5	16	2.5	0.25	6	84	20
71	SCRS_71_08	1.5	44	7	6	2.5	14	2.5	0.25	13	82	350
72	SCRS_72_08	3.5	16	17	12	2.5	13	2.5	0.25	27	317	80
73	SCRS_73_08	6.9	61	36	28	2.5	11	2.5	0.25	55	136	180
74	SCRS_74_08	2.6	63	13	16	2.5	13	2.5	0.25	30	185	170
75	SCRS_75_08	7.7	24	35	28	2.5	24	6	0.25	73	606	30
76	SCRS_76_08	5.3	461	21	57	2.5	8	2.5	3.6	69	312	20
77	SCRS_77_08	2.6	7	12	9	2.5	1	2.5	0.25	24	105	20
78	SCRS_78_08	0.8	6	4	4	2.5	4	2.5	0.25	8	86	60
79	SCRS_79_08	4.4	6	22	28	2.5	3	2.5	0.25	56	55	80

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
	SCRS_9104_08	1.9	380	5	8	2.5	3	118	5.6	11	179	110
98	SCRS_98_08	6	17	24	21	2.5	3	2.5	0.25	50	59	30
99	SCRS_99_08	1.2	373	5	17	2.5	8	2.5	4.5	16	67	20
	555_1_08	0.25	18	2	0.5	2.5	6	8	0.25	0.5	1060	20
	555_2_08	14.4	83	64	354	2.5	7	5	3.5	301	174	730
	555_3_08	324	23	1480	11600	2.5	19	2.5	0.7	9090	114	370
	555_4_08	3.2	23	14	26	2.5	0.5	2.5	1	44	207	60
	555_5_08	46.1	21	219	366	2.5	18	2.5	0.7	820	553	50
	555_6_08	53.6	23	257	412	2.5	0.5	2.5	1.4	827	52	140
	555_7_08	9.5	9	53	36	2.5	6	2.5	1.2	115	103	40
	555_8_08	6.9	34	35	24	2.5	3	2.5	2.9	62	96	140
	555_91_08	0.25	9	0.5	0.5	6	9	6	0.25	0.5	228	0.5
110	SCRS_110_08	0.7	28	3	8	2.5	6	2.5	0.25	11	249	30
111	SCRS_111_08	2.4	125	12	22	2.5	6	2.5	0.7	37	460	370
112	SCRS_112_08	1.3	194	6	11	2.5	4	2.5	0.25	19	405	50
113	SCRS_113_08	0.25	11	3	2	2.5	14	2.5	0.25	4	792	0.5
149	SCRS_149_08	1.7	13	11	0.5	2.5	20	2.5	0.25	8	241	20
150	SCRS_150_08	0.25	8	2	0.5	2.5	36	2.5	0.25	3	56	50
151	SCRS_151_08	8	46	40	68	2.5	23	2.5	0.5	142	254	10
152	SCRS_152_08	8.7	164	46	56	2.5	159	2.5	0.9	107	356	80
153	SCRS_153_08	1.6	27	9	10	2.5	33	2.5	0.25	22	119	0.5
154	SCRS_154_08	4.1	89	18	37	2.5	7	2.5	2.2	50	83	110
155	SCRS_155_08	1.9	5	13	5	2.5	37	2.5	0.25	23	405	0.5
156	SCRS_156_08	0.25	11	2	1	2.5	46	2.5	0.25	3	48	50
157	SCRS_157_08	0.6	12	3	1	2.5	25	2.5	0.25	6	192	0.5
158	SCRS_158_08	1.5	73	8	16	2.5	17	2.5	0.6	28	352	90
170	SCRS_170_08	10.2	173	57	139	2.5	9	5	17.2	186	107	220
171	SCRS_171_08	0.6	12	3	1	2.5	12	2.5	0.25	4	53	50
172	SCRS_172_08	1.6	16	10	7	2.5	25	2.5	0.25	18	134	50
173	SCRS_173_08	2.9	64	14	19	2.5	55	7	0.6	39	464	10
174	SCRS_174_08	32.7	25	168	210	2.5	119	2.5	0.25	407	247	20
183	SCRS_183_08	0.25	114	0.5	0.5	2.5	7	2.5	1.1	0.5	46	0.5
184	SCRS_184_08	0.9	189	4	12	7	4	2.5	2.4	12	76	30
185	SCRS_185_08	2	369	9	17	2.5	18	2.5	1.8	26	422	60
186	SCRS_186_08	0.7	149	3	13	2.5	1	2.5	7.3	10	27	160
187	SCRS_187_08	2.1	15	8	15	2.5	28	6	0.25	27	795	30
188	SCRS_188_08	3.8	120	20	8	2.5	47	6	0.25	27	175	60
189	SCRS_189_08	10.3	180	56	38	2.5	7	8	2	85	449	300
199	SCRS_199_08	1.5	89	6	8	2.5	1	2.5	2.4	16	58	470
200	SCRS_200_08	0.6	128	3	11	2.5	1	2.5	7.2	9	67	200
201	SCRS_201_08	1.1	140	6	7	2.5	3	2.5	1.3	11	53	30
202	SCRS_202_08	4.8	150	25	25	2.5	3	2.5	3.7	45	84	190
203	SCRS_203_08	4.7	159	21	39	2.5	1	2.5	3.8	57	174	130
204	SCRS_204_08	1.1	204	6	8	2.5	5	7	3.5	12	173	50
205	SCRS_205_08	1.5	191	5	12	2.5	82	13	1	21	1090	20
211	SCRS_211_08	6.8	121	38	26	2.5	8	2.5	3.6	55	110	130
212	SCRS_212_08	0.7	5	4	2	2.5	35	2.5	0.25	5	128	0.5

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
213	SCRS_213_08	3.4	13	19	11	2.5	91	2.5	0.25	32	237	40
214	SCRS_214_08	2.6	29	13	14	2.5	53	2.5	0.25	30	184	70
215	SCRS_215_08	1	170	6	8	2.5	3	2.5	2.1	12	45	50
216	SCRS_216_08	7.7	93	28	72	2.5	12	2.5	0.25	103	495	20
217	SCRS_217_08	0.8	45	3	5	2.5	96	36	0.25	10	1420	20
218	SCRS_218_08	0.25	246	3	2	2.5	5	2.5	0.25	4	419	30
219	SCRS_219_08	0.25	100	0.5	0.5	2.5	5	2.5	0.25	0.5	62	0.5
220	SCRS_220_08	20.1	70	87	207	2.5	49	2.5	1.2	292	425	130
221	SCRS_221_08	0.25	125	2	6	7	6	2.5	2	6	125	50
222	SCRS_222_08	11	56	48	64	2.5	87	2.5	0.25	117	595	150
229	SCRS_229_08	3.7	174	19	13	2.5	3	2.5	3	28	152	170
230	SCRS_230_08	0.5	171	3	7	2.5	3	2.5	3	6	36	110
231	SCRS_231_08	0.7	206	3	10	2.5	6	2.5	1.4	13	65	0.5
232	SCRS_232_08	0.25	120	0.5	0.5	2.5	2	2.5	0.25	0.5	29	0.5
233	SCRS_233_08	1.5	70	7	7	2.5	24	2.5	2.3	16	131	280
234	SCRS_234_08	2.8	103	13	20	2.5	61	79	0.9	41	2190	20
235	SCRS_235_08	8.1	118	39	47	12	47	2.5	0.6	102	568	130
236	SCRS_236_08	6.4	75	36	44	2.5	32	2.5	0.6	86	1420	580
237	SCRS_237_08	6.1	230	31	47	2.5	31	2.5	0.6	85	784	180
238	SCRS_238_08	0.25	149	0.5	2	2.5	67	15	0.25	2	287	20
239	SCRS_239_08	40.4	393	192	451	2.5	78	8	2.1	717	617	70
244	SCRS_244_08	50.7	27	176	496	2.5	23	2.5	0.8	753	687	70
245	SCRS_245_08	4.6	205	17	39	2.5	29	31	1.5	55	750	20
246	SCRS_246_08	7.5	34	31	62	2.5	0.5	2.5	1.2	103	49	150
247	SCRS_247_08	0.7	287	3	8	2.5	22	2.5	3.7	10	200	30
248	SCRS_248_08	11.3	145	54	50	2.5	33	11	0.6	96	512	240
249	SCRS_249_08	25.2	110	109	191	2.5	10	2.5	0.8	310	229	70
250	SCRS_250_08	5.1	58	23	34	5	32	2.5	0.25	63	1000	180
251	SCRS_251_08	5.6	118	29	59	2.5	20	6	0.7	105	464	50
252	SCRS_252_08	3.6	81	20	32	2.5	66	12	0.6	56	1100	160
253	SCRS_253_08	1.7	93	8	17	2.5	24	10	1	27	732	150
254	SCRS_254_08	27.7	40	148	207	2.5	198	10	0.25	411	2730	180
255	SCRS_255_08	2.4	375	11	41	2.5	2	2.5	3.1	39	119	20
277	SCRS_277_08	1.1	12	6	11	2.5	4	2.5	0.25	18	47	40
278	SCRS_278_08	0.7	6	3	3	2.5	4	2.5	0.25	7	61	10
279	SCRS_279_08	1.8	11	10	9	2.5	137	2.5	0.25	23	186	30
280	SCRS_280_08	2	13	12	8	2.5	55	2.5	0.25	21	241	30
281	SCRS_281_08	1	132	5	10	2.5	37	20	1	17	571	100
282	SCRS_282_08	3.1	22	15	5	7	62	12	0.25	28	1160	20
283	SCRS_283_08	2.2	449	13	32	2.5	46	8	2.3	41	444	20
	5552_1_08	0.7	62	4	15	2.5	14	23	0.6	18	1340	30
	5552_2_08	29.8	16	123	577	2.5	0.5	2.5	1.4	687	22	1320
	5552_3_08	7.2	48	37	34	2.5	3	2.5	1.5	67	135	160
	5552_4_08	19.6	21	91	114	2.5	1	5	0.7	239	131	50
	5552_5_08	10	43	58	41	2.5	23	2.5	0.7	115	368	20
	5552_6_08	4.1	74	21	25	2.5	6	5	1.9	45	214	130
	5552_7_08	1.6	98	8	9	2.5	9	2.5	2.3	16	71	190
	5552_8_08	3.4	28	17	15	2.5	3	2.5	0.8	31	109	240
107	SCRS_107_08	0.7	249	4	15	2.5	46	2.5	1.3	13	248	10
108	SCRS_108_08	7.2	183	36	45	2.5	70	2.5	1.6	82	612	360

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
109	SCRS_109_08	3.8	68	21	24	7	103	2.5	0.25	45	4520	40
190	SCRS_190_08	1.8	9	9	6	5	17	2.5	0.25	18	205	20
191	SCRS_191_08	0.7	403	3	8	7	16	5	1.6	10	247	30
192	SCRS_192_08	1.2	79	7	6	14	2	2.5	1.3	10	86	240
193	SCRS_193_08	0.25	12	3	3	5	40	2.5	0.25	6	53	30
194	SCRS_194_08	0.8	309	4	6	10	6	2.5	2.4	10	72	0.5
195	SCRS_195_08	1	71	4	8	7	0.5	2.5	1	10	123	190
196	SCRS_196_08	12.7	84	60	61	7	5	2.5	3.1	95	294	170
197	SCRS_197_08	0.9	8	5	3	2.5	69	2.5	0.25	10	170	20
198	SCRS_198_08	1.3	12	8	7	2.5	38	2.5	0.25	16	40	30
207	SCRS_207_08	1.8	141	9	14	2.5	14	2.5	0.25	25	441	60
208	SCRS_208_08	4.5	491	21	37	2.5	3	7	5.1	47	209	30
209	SCRS_209_08	0.8	54	4	9	6	0.5	2.5	1	10	126	60
210	SCRS_210_08	11.7	133	63	39	5	8	2.5	3.9	89	239	270
223	SCRS_223_08	1	10	5	4	2.5	32	2.5	0.25	9	88	50
224	SCRS_224_08	3.6	351	18	27	2.5	5	9	4.8	38	195	40
225	SCRS_225_08	1.4	161	8	12	2.5	16	2.5	1.9	17	144	190
226	SCRS_226_08	1	163	7	7	2.5	20	2.5	0.25	13	136	120
227	SCRS_227_08	0.9	299	5	10	2.5	20	2.5	2.8	13	87	20
228	SCRS_228_08	2.8	80	22	18	2.5	19	2.5	1.3	36	189	80
236	SCRS_236_08	2.2	297	11	32	2.5	18	23	1.6	36	230	20
240	SCRS_240_08	1.9	21	7	19	2.5	168	18	1.2	31	791	20
241	SCRS_241_08	1.6	40	10	7	2.5	26	2.5	0.25	15	71	110
242	SCRS_242_08	21.6	231	118	102	2.5	52	15	3	228	221	110
243	SCRS_243_08	6.4	175	33	26	5	32	6	4.1	59	210	60
257	SCRS_257_08	3.7	28	20	17	2.5	38	5	0.25	38	1180	250
258	SCRS_258_08	5.4	79	24	34	8	68	2.5	1.9	67	336	80
259	SCRS_259_08	5.4	123	28	33	2.5	70	10	0.7	58	3060	580
260	SCRS_260_08	1	323	6	17	2.5	21	2.5	1.7	19	166	80
271	SCRS_271_08	2.2	24	13	17	2.5	18	2.5	0.25	28	82	500
272	SCRS_272_08	3.7	17	22	20	2.5	67	2.5	0.25	39	74	410
273	SCRS_273_08	4.6	85	28	18	2.5	78	2.5	0.25	41	101	550
274	SCRS_274_08	2.8	72	15	16	2.5	47	2.5	1	28	166	4100
275	SCRS_275_08	0.25	132	3	5	7	10	2.5	0.25	8	37	40
276	SCRS_276_08	0.25	119	1	4	2.5	3	2.5	1	4	50	0.5
284	SCRS_284_08	0.25	174	2	5	2.5	10	2.5	1	6	54	20
285	SCRS_285_08	1.1	9	7	0.5	2.5	7	2.5	0.25	2	92	30
286	SCRS_286_08	3.1	13	16	26	2.5	13	2.5	0.25	55	96	680
287	SCRS_287_08	1.6	65	7	22	2.5	14	2.5	0.25	30	72	50
288	SCRS_288_08	0.25	3	1	0.5	2.5	32	2.5	0.25	1	30	30
289	SCRS_289_08	22.3	25	119	75	2.5	30	2.5	0.25	288	91	30
290	SCRS_290_08	3	119	17	14	2.5	22	2.5	0.25	35	181	70
291	SCRS_291_08	2	19	10	15	2.5	198	5	0.25	32	1140	0.5
292	SCRS_292_08	8.6	338	43	89	2.5	128	9	1.5	148	696	30
293	SCRS_293_08	0.25	31	2	5	2.5	49	2.5	0.25	7	96	20
294	SCRS_294_08	2.5	97	12	25	2.5	74	56	0.7	45	1230	20
295	SCRS_295_08	1.2	7	8	0.5	2.5	9	2.5	0.25	1	179	10
296	SCRS_296_08	1.1	11	6	6	2.5	5	2.5	0.25	15	245	10
297	SCRS_297_08	2.7	93	15	23	2.5	30	2.5	0.25	56	665	30
298	SCRS_298_08	8	122	38	141	2.5	9	2.5	0.5	189	127	40
299	SCRS_299_08	3.9	22	22	19	2.5	96	2.5	0.25	48	436	40

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
300	SCRS_300_08	6.7	38	37	38	2.5	98	2.5	0.25	79	1530	80
301	SCRS_301_08	2.9	113	14	29	2.5	18	2.5	0.25	42	175	0.5
302	SCRS_302_08	4.2	46	22	39	2.5	44	2.5	0.25	64	588	30
303	SCRS_303_08	5.1	7	34	0.5	2.5	3	2.5	0.25	6	599	40
304	SCRS_304_08	2	16	11	7	2.5	10	2.5	0.25	25	303	20
305	SCRS_305_08	6.1	47	29	47	2.5	16	2.5	0.5	122	261	10
306	SCRS_306_08	44.1	27	220	147	2.5	48	2.5	0.25	577	195	70
307	SCRS_307_08	3.7	116	18	63	2.5	11	2.5	0.25	79	100	30
308	SCRS_308_08	0.9	110	6	8	2.5	18	32	0.5	16	1310	40
309	SCRS_309_08	1	71	5	11	2.5	28	2.5	0.8	18	179	0.5
310	SCRS_310_08	2.6	247	13	15	2.5	11	2.5	0.8	25	458	20
311	SCRS_311_08	1	14	5	1	2.5	53	2.5	0.25	5	360	0.5
312	SCRS_312_08	0.25	14	1	0.5	12	60	6	0.25	2	1070	10
313	SCRS_313_08	1.4	191	7	9	2.5	28	2.5	0.6	16	482	20
50	SCRS_50_08	0.25	15	1	2	2.5	18	2.5	0.6	3	65	20
67	SCRS_67_08	1.2	155	6	9	2.5	4	2.5	0.6	14	104	50
	SCRS_9211_08	2.8	266	15	15	2.5	13	2.5	1.1	22	115	20
131	SCRS_131_08	0.25	5	0.5	0.5	2.5	5	2.5	0.25	1	96	10
132	SCRS_132_08	0.25	6	1	0.5	2.5	4	2.5	0.25	1	167	0.5
133	SCRS_133_08	3	14	16	11	2.5	20	2.5	0.25	26	131	100
134	SCRS_134_08	10.3	24	59	60	2.5	17	2.5	0.25	119	287	70
135	SCRS_135_08	1.6	7	10	6	2.5	42	2.5	0.25	23	177	0.5
136	SCRS_136_08	7.4	56	41	74	2.5	18	2.5	0.25	116	256	40
137	SCRS_137_08	1.2	28	5	7	2.5	30	2.5	0.25	14	397	10
138	SCRS_138_08	3.3	280	17	18	2.5	2	2.5	7.8	32	91	320
139	SCRS_139_08	2.4	508	9	20	2.5	6	2.5	1.6	26	325	20
140	SCRS_140_08	2.5	138	12	25	2.5	11	2.5	1.4	41	101	60
141	SCRS_141_08	1.7	34	8	12	2.5	5	2.5	0.25	22	143	20
142	SCRS_142_08	0.8	107	3	6	2.5	21	6	0.7	10	307	30
143	SCRS_143_08	3.7	64	16	40	2.5	2	2.5	2.3	60	51	370
144	SCRS_144_08	2.8	386	14	14	2.5	65	13	1	29	234	70
145	SCRS_145_08	2.9	605	12	22	2.5	7	13	2.6	31	542	20
146	SCRS_146_08	3.5	72	17	15	2.5	0.5	2.5	0.9	36	87	220
147	SCRS_147_08	0.25	308	1	3	2.5	1	2.5	1.2	3	96	0.5
148	SCRS_148_08	0.25	9	0.5	0.5	2.5	44	2.5	0.25	0.5	534	0.5
159	SCRS_159_08	0.25	7	1	1	2.5	35	2.5	0.25	3	72	20
160	SCRS_160_08	0.8	140	4	3	2.5	13	2.5	1.2	5	82	330
161	SCRS_161_08	5.3	52	29	41	2.5	20	2.5	0.25	65	623	70
162	SCRS_162_08	1	38	5	6	2.5	13	2.5	0.25	12	71	120
163	SCRS_163_08	1.6	35	9	6	2.5	16	2.5	0.25	14	62	190
164	SCRS_164_08	1.3	203	8	3	2.5	2	2.5	3	8	112	270
165	SCRS_165_08	0.6	7	3	1	2.5	79	2.5	0.25	3	174	40
166	SCRS_166_08	10.4	76	54	52	2.5	15	2.5	2	88	155	480
167	SCRS_167_08	1.6	380	3	8	2.5	49	2.5	0.25	9	392	0.5
168	SCRS_168_08	0.9	449	3	3	6	6	24	3.1	6	593	10
169	SCRS_169_08	0.9	482	2	8	8	14	7	2.3	8	79	0.5
175	SCRS_175_08	19.5	79	139	168	2.5	166	2.5	0.8	274	350	70
176	SCRS_176_08	3.7	12	21	14	2.5	38	2.5	0.25	41	155	0.5
177	SCRS_177_08	1.1	8	5	3	2.5	82	2.5	0.25	10	263	0.5
178	SCRS_178_08	0.25	217	2	6	2.5	2	2.5	2.5	5	72	10
179	SCRS_179_08	6.7	188	30	56	2.5	3	2.5	7	98	65	380
180	SCRS_180_08	6.1	235	26	30	7	6	2.5	3.3	59	215	260

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
181	SCRS_181_08	1.4	340	7	8	2.5	72	8	1	18	204	30
182	SCRS_182_08	2	126	12	6	2.5	3	2.5	1.6	13	108	240
206	SCRS_206_08	0.8	500	2	4	2.5	27	2.5	0.25	5	1620	0.5
261	SCRS_261_08	5.5	112	37	29	2.5	34	2.5	0.25	62	117	4350
262	SCRS_262_08	2.5	16	15	13	2.5	93	2.5	0.25	27	95	230
263	SCRS_263_08	1.5	43	10	15	2.5	39	2.5	0.25	22	107	250
264	SCRS_264_08	0.7	66	3	5	2.5	15	8	0.25	8	341	30
265	SCRS_265_08	0.6	45	3	3	2.5	17	2.5	0.25	6	96	70
266	SCRS_266_08	0.5	9	3	2	2.5	9	2.5	0.25	4	84	40
267	SCRS_267_08	0.6	7	3	2	2.5	168	2.5	0.25	6	163	20
268	SCRS_268_08	0.25	3	0.5	0.5	2.5	21	2.5	0.25	0.5	116	0.5
269	SCRS_269_08	27.4	211	193	352	2.5	76	2.5	1.4	558	625	150
270	SCRS_270_08	11.9	84	71	76	2.5	139	2.5	0.25	152	822	160
31	SCRS_31_08	1.5	16	7	10	2.5	2	2.5	0.25	19	84	30
32	SCRS_32_08	35	30	208	147	2.5	5	2.5	0.25	460	635	150
33	SCRS_33_08	0.25	6	1	0.5	2.5	4	2.5	0.25	1	175	0.5
34	SCRS_34_08	0.25	4	0.5	0.5	2.5	7	2.5	0.25	0.5	59	0.5
35	SCRS_35_08	2.3	79	13	22	2.5	4	2.5	1	40	73	30
36	SCRS_36_08	1.2	104	6	11	2.5	42	9	0.9	17	196	120
37	SCRS_37_08	0.8	12	5	0.5	2.5	29	2.5	0.25	4	526	10
38	SCRS_38_08	1.9	95	9	14	2.5	13	9	0.25	27	1220	110
39	SCRS_39_08	2.1	90	11	15	2.5	19	7	0.25	30	1080	60
40	SCRS_40_08	2.7	8	15	3	2.5	10	2.5	0.25	19	474	20
41	SCRS_41_08	0.25	5	1	0.5	2.5	9	2.5	0.25	0.5	69	20
42	SCRS_42_08	0.25	7	0.5	0.5	2.5	5	2.5	0.25	0.5	62	0.5
80	SCRS_80_08	4.5	201	20	35	2.5	19	2.5	0.25	64	601	50
81	SCRS_81_08	1.3	9	8	3	2.5	13	2.5	0.25	12	305	0.5
82	SCRS_82_08	4.1	95	21	28	2.5	24	10	0.25	53	418	20
83	SCRS_83_08	5.3	116	28	44	2.5	9	2.5	0.25	69	388	190
84	SCRS_84_08	48	80	242	333	2.5	6	2.5	2.7	602	214	220
85	SCRS_85_08	6.4	45	34	63	2.5	18	2.5	0.9	88	153	60
86	SCRS_86_08	1.3	176	6	7	2.5	4	2.5	0.9	10	65	200
87	SCRS_87_08	1	114	4	4	2.5	4	2.5	0.25	6	81	140
88	SCRS_88_08	0.8	58	4	8	2.5	45	5	0.25	12	305	50
89	SCRS_89_08	2.7	230	16	9	2.5	13	2.5	0.8	18	122	110
90	SCRS_90_08	0.25	5	2	0.5	2.5	39	2.5	0.25	3	102	0.5
91	SCRS_91_08	0.6	7	4	1	2.5	6	2.5	0.25	5	153	0.5
92	SCRS_92_08	0.9	42	5	10	2.5	5	7	0.25	16	207	0.5
93	SCRS_93_08	0.25	8	3	1	2.5	5	2.5	0.25	4	85	0.5
94	SCRS_94_08	1.7	113	9	17	2.5	11	2.5	0.7	29	301	10
95	SCRS_95_08	0.5	55	3	4	2.5	43	2.5	0.25	6	204	60
96	SCRS_96_08	1.8	57	8	12	2.5	40	2.5	0.25	23	313	0.5
967	SCRS_967_08	0.7	31	3	5	2.5	22	19	0.9	10	850	60
968	SCRS_968_08	1	43	4	10	2.5	11	2.5	0.6	16	220	10
97	SCRS_97_08	7.5	265	38	44	2.5	13	2.5	1.1	75	474	90
	SCRS_980_08	1.2	7	8	4	2.5	4	2.5	0.25	13	137	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
1	SCRS_1_08	0.5	2	0.5	2.5	0.5	2.5	2	0.5	4210	0.5	0.5	0.5
10	SCRS_10_08	0.5	0.5	0.5	15	0.5	8	0.5	0.5	5360	0.5	0.5	0.5
11	SCRS_11_08	0.5	5	0.5	9	0.5	8	6	0.5	3460	0.5	1	0.5
12	SCRS_12_08	0.5	12	0.5	41	0.5	29	11	0.5	510	0.5	2	0.5
13	SCRS_13_08	0.5	1	0.5	17	0.5	13	0.5	0.5	1130	0.5	0.5	0.5
14	SCRS_14_08	0.5	26	0.5	99	1	51	30	0.5	230	0.5	6	0.5
15	SCRS_15_08	0.5	19	0.5	115	0.5	27	20	0.5	370	0.5	4	0.5
16	SCRS_16_08	0.5	5	0.5	31	0.5	2.5	8	0.5	4170	0.5	2	0.5
17	SCRS_17_08	0.5	0.5	0.5	20	0.5	2.5	2	0.5	4000	0.5	0.5	0.5
18	SCRS_18_08	0.5	8	0.5	120	0.5	31	8	0.5	790	0.5	2	0.5
19	SCRS_19_08	0.5	6	0.5	33	0.5	9	11	0.5	4740	0.5	2	0.5
2	SCRS_2_08	0.5	32	0.5	10	2	14	36	0.5	3140	0.5	6	0.5
20	SCRS_20_08	0.5	20	0.5	21	0.5	8	37	0.5	3230	0.5	8	0.5
21	SCRS_21_08	0.5	3	0.5	25	0.5	2.5	7	0.5	5130	0.5	2	0.5
22	SCRS_22_08	0.5	5	0.5	28	0.5	5	8	0.5	3230	0.5	2	0.5
23	SCRS_23_08	0.5	2	0.5	9	0.5	2.5	3	0.5	2680	0.5	0.5	0.5
24	SCRS_24_08	0.5	19	0.5	11	2	8	22	0.5	3530	0.5	3	0.5
25	SCRS_25_08	0.5	14	0.5	15	0.5	10	15	0.5	4290	0.5	2	0.5
26	SCRS_26_08	0.5	7	0.5	12	1	7	7	0.5	1790	0.5	2	0.5
27	SCRS_27_08	0.5	5	0.5	26	1	2.5	7	0.5	2920	0.5	1	0.5
28	SCRS_28_08	0.5	2	0.5	7	2	2.5	2	0.5	1740	0.5	0.5	0.5
29	SCRS_29_08	0.5	7	0.5	13	2	2.5	8	0.5	6860	0.5	2	0.5
3	SCRS_3_08	0.5	12	0.5	2.5	4	8	16	0.5	3740	0.5	3	0.5
30	SCRS_30_08	0.5	14	0.5	27	1	14	18	0.5	3850	0.5	3	0.5
4	SCRS_4_08	0.5	4	0.5	8	2	5	5	0.5	2570	0.5	0.5	0.5
43	SCRS_43_08	0.5	2	0.5	11	0.5	2.5	2	0.5	4240	0.5	0.5	0.5
44	SCRS_44_08	0.5	6	0.5	6	0.5	6	10	0.5	3310	0.5	3	0.5
45	SCRS_45_08	0.5	0.5	0.5	25	0.5	2.5	1	0.5	2710	0.5	0.5	0.5
46	SCRS_46_08	0.5	0.5	0.5	20	0.5	2.5	0.5	0.5	2300	0.5	0.5	0.5
47	SCRS_47_08	0.5	2	0.5	5	0.5	2.5	2	0.5	1660	0.5	0.5	0.5
48	SCRS_48_08	0.5	2	0.5	28	0.5	2.5	10	0.5	1420	0.5	2	0.5
49	SCRS_49_08	0.5	27	0.5	38	0.5	16	30	0.5	4250	0.5	5	0.5
5	SCRS_5_08	0.5	0.5	0.5	13	1	2.5	0.5	0.5	1850	0.5	0.5	0.5
51	SCRS_51_08	0.5	0.5	0.5	8	0.5	2.5	1	0.5	3130	0.5	0.5	0.5
52	SCRS_52_08	0.5	4	0.5	25	0.5	2.5	6	0.5	1430	0.5	1	0.5
53	SCRS_53_08	0.5	3	0.5	27	0.5	2.5	4	0.5	1410	0.5	0.5	0.5
54	SCRS_54_08	0.5	2	0.5	26	0.5	2.5	3	0.5	1520	0.5	0.5	0.5
6	SCRS_6_08	0.5	8	0.5	31	0.5	19	7	0.5	1870	0.5	1	0.5
7	SCRS_7_08	0.5	2	0.5	21	0.5	2.5	5	0.5	1740	0.5	1	0.5
8	SCRS_8_08	0.5	29	0.5	22	0.5	29	26	0.5	2800	0.5	4	0.5
9	SCRS_9_08	0.5	1	0.5	72	0.5	2.5	3	0.5	2460	0.5	1	0.5
100	SCRS_100_08	0.5	3	0.5	46	0.5	25	3	0.5	60	0.5	0.5	0.5
101	SCRS_101_08	0.5	4	0.5	110	0.5	48	6	0.5	90	0.5	3	0.5
102	SCRS_102_08	0.5	9	0.5	78	0.5	69	13	0.5	40	0.5	3	0.5
103	SCRS_103_08	0.5	2	0.5	24	10	37	3	0.5	610	0.5	0.5	0.5

GRID_ID	_LD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_pp	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
104	SCRS_104_08	0.5	2	0.5	60	42	34	3	0.5	190	0.5	0.5	0.5
105	SCRS_105_08	0.5	3	0.5	2.5	2	31	4	0.5	850	0.5	0.5	0.5
106	SCRS_106_08	0.5	6	0.5	208	0.5	33	7	0.5	60	0.5	2	0.5
114	SCRS_114_08	0.5	1	0.5	2.5	2	5	1	0.5	860	0.5	0.5	0.5
115	SCRS_115_08	0.5	14	0.5	16	0.5	97	25	0.5	1070	0.5	8	0.5
116	SCRS_116_08	0.5	7	0.5	96	0.5	61	7	0.5	70	0.5	2	0.5
117	SCRS_117_08	0.5	7	0.5	101	0.5	29	7	0.5	120	0.5	1	0.5
118	SCRS_118_08	0.5	2	0.5	2.5	1	8	2	0.5	1240	0.5	0.5	0.5
119	SCRS_119_08	0.5	3	0.5	36	2	60	4	0.5	490	0.5	2	0.5
120	SCRS_120_08	0.5	7	0.5	173	0.5	61	8	0.5	160	0.5	2	0.5
121	SCRS_121_08	0.5	4	0.5	37	0.5	31	5	0.5	650	0.5	1	0.5
122	SCRS_122_08	0.5	113	0.5	89	4	323	148	0.5	110	0.5	32	0.5
123	SCRS_123_08	0.5	6	0.5	33	2	68	9	0.5	480	0.5	3	0.5
124	SCRS_124_08	0.5	7	0.5	65	3	36	18	0.5	530	0.5	6	0.5
125	SCRS_125_08	0.5	2	0.5	70	1	45	2	0.5	140	0.5	1	0.5
126	SCRS_126_08	0.5	2	0.5	60	2	43	4	0.5	450	0.5	1	0.5
127	SCRS_127_08	0.5	0.5	0.5	12	0.5	2.5	2	0.5	610	0.5	0.5	0.5
128	SCRS_128_08	0.5	3	0.5	32	1	42	3	0.5	120	0.5	0.5	0.5
129	SCRS_129_08	0.5	4	0.5	17	0.5	12	8	0.5	1460	0.5	2	0.5
130	SCRS_130_08	0.5	16	0.5	30	1	120	16	2	180	0.5	4	0.5
55	SCRS_55_08	0.5	7	0.5	63	0.5	13	11	0.5	3550	0.5	2	0.5
56	SCRS_56_08	0.5	13	0.5	21	0.5	20	12	0.5	1510	0.5	2	0.5
57	SCRS_57_08	0.5	5	0.5	2.5	0.5	12	8	0.5	1540	0.5	2	0.5
58	SCRS_58_08	0.5	1	0.5	6	0.5	2.5	2	0.5	1190	0.5	0.5	0.5
59	SCRS_59_08	0.5	11	0.5	16	0.5	11	13	0.5	1060	0.5	2	0.5
60	SCRS_60_08	0.5	8	0.5	2.5	0.5	12	12	0.5	1600	0.5	2	0.5
61	SCRS_61_08	0.5	16	0.5	132	1	72	23	0.5	130	0.5	5	0.5
62	SCRS_62_08	0.5	21	0.5	18	0.5	68	21	0.5	540	0.5	4	0.5
63	SCRS_63_08	0.5	1	0.5	11	0.5	2.5	2	0.5	2040	0.5	0.5	0.5
64	SCRS_64_08	0.5	5	0.5	12	0.5	6	6	0.5	1510	0.5	1	0.5
65	SCRS_65_08	0.5	0.5	0.5	2.5	0.5	2.5	0.5	0.5	1190	0.5	0.5	0.5
66	SCRS_66_08	0.5	3	0.5	13	0.5	8	5	0.5	1050	0.5	1	0.5
68	SCRS_68_08	0.5	2	0.5	10	0.5	2.5	4	0.5	990	0.5	0.5	0.5
69	SCRS_69_08	0.5	4	0.5	5	0.5	8	6	0.5	1330	0.5	1	0.5
70	SCRS_70_08	0.5	1	0.5	2.5	0.5	2.5	2	0.5	2370	0.5	0.5	0.5
71	SCRS_71_08	0.5	3	0.5	8	0.5	11	5	0.5	960	0.5	1	0.5
72	SCRS_72_08	0.5	5	0.5	8	0.5	6	10	0.5	2600	0.5	3	0.5
73	SCRS_73_08	0.5	11	0.5	5	0.5	33	20	0.5	1580	0.5	7	0.5
74	SCRS_74_08	0.5	6	0.5	2.5	0.5	18	9	0.5	2340	0.5	2	0.5
75	SCRS_75_08	0.5	13	0.5	10	0.5	23	26	0.5	1520	0.5	5	0.5
76	SCRS_76_08	0.5	16	0.5	114	0.5	124	17	0.5	270	0.5	4	0.5
77	SCRS_77_08	0.5	4	0.5	36	0.5	2.5	8	0.5	2450	0.5	2	0.5
78	SCRS_78_08	0.5	2	0.5	10	0.5	5	3	0.5	1570	0.5	0.5	0.5
79	SCRS_79_08	0.5	11	0.5	36	0.5	10	17	0.5	1000	0.5	3	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
	SCRS_9104_08	0.5	2	0.5	80	62	51	3	2	220	0.5	0.5	0.5
98	SCRS_98_08	0.5	9	0.5	51	0.5	10	18	0.5	2110	0.5	3	0.5
99	SCRS_99_08	0.5	4	0.5	25	0.5	29	3	0.5	190	0.5	0.5	0.5
	555_1_08	0.5	0.5	0.5	8	1	6	0.5	0.5	3560	0.5	0.5	0.5
	555_2_08	2	80	0.5	178	4	54	61	0.5	130	0.5	9	0.5
	555_3_08	2	2480	0.5	109	0.5	235	1650	0.5	240	0.5	161	0.5
	555_4_08	0.5	9	0.5	91	0.5	27	13	0.5	30	0.5	3	0.5
	555_5_08	1	160	0.5	159	0.5	132	208	0.5	430	0.5	25	0.5
	555_6_08	0.5	167	0.5	144	1	124	217	0.5	30	0.5	36	0.5
	555_7_08	0.5	20	0.5	72	0.5	19	39	0.5	120	0.5	8	0.5
	555_8_08	0.5	12	0.5	129	1	60	22	0.5	40	0.5	7	0.5
	555_91_08	0.5	0.5	0.5	2.5	1	2.5	0.5	0.5	4500	0.5	0.5	0.5
110	SCRS_110_08	0.5	2	0.5	8	0.5	7	3	0.5	1280	0.5	0.5	0.5
111	SCRS_111_08	0.5	8	0.5	15	2	28	10	0.5	1090	0.5	2	0.5
112	SCRS_112_08	0.5	4	0.5	20	1	26	5	0.5	1000	0.5	1	0.5
113	SCRS_113_08	0.5	0.5	0.5	11	0.5	10	2	0.5	640	0.5	0.5	0.5
149	SCRS_149_08	0.5	0.5	0.5	7	0.5	14	6	0.5	2670	0.5	2	0.5
150	SCRS_150_08	0.5	0.5	0.5	11	0.5	10	1	0.5	2290	0.5	0.5	0.5
151	SCRS_151_08	0.5	28	0.5	7	3	23	37	0.5	2030	0.5	5	0.5
152	SCRS_152_08	0.5	22	0.5	91	0.5	129	33	0.5	580	0.5	7	0.5
153	SCRS_153_08	0.5	4	0.5	15	0.5	19	7	0.5	390	0.5	1	0.5
154	SCRS_154_08	0.5	11	0.5	103	0.5	28	14	0.5	230	0.5	3	0.5
155	SCRS_155_08	0.5	3	0.5	16	0.5	11	9	0.5	430	0.5	2	0.5
156	SCRS_156_08	0.5	0.5	0.5	2.5	0.5	6	1	0.5	700	0.5	0.5	0.5
157	SCRS_157_08	0.5	0.5	0.5	10	0.5	11	2	0.5	390	0.5	0.5	0.5
158	SCRS_158_08	0.5	6	0.5	8	2	21	7	0.5	1280	0.5	1	0.5
170	SCRS_170_08	0.5	40	0.5	54	3	51	47	2	260	0.5	9	40
171	SCRS_171_08	0.5	0.5	0.5	51	0.5	12	2	0.5	2980	0.5	0.5	0.5
172	SCRS_172_08	0.5	3	0.5	18	0.5	14	7	0.5	1160	0.5	2	0.5
173	SCRS_173_08	0.5	8	0.5	13	0.5	29	11	0.5	490	0.5	2	0.5
174	SCRS_174_08	0.5	79	0.5	24	0.5	296	118	0.5	510	0.5	27	0.5
183	SCRS_183_08	0.5	0.5	0.5	8	0.5	7	0.5	0.5	460	0.5	0.5	0.5
184	SCRS_184_08	0.5	3	0.5	33	0.5	11	4	0.5	270	0.5	0.5	0.5
185	SCRS_185_08	0.5	5	0.5	119	2	46	8	0.5	520	0.5	2	0.5
186	SCRS_186_08	0.5	3	0.5	40	0.5	12	2	0.5	60	0.5	0.5	0.5
187	SCRS_187_08	0.5	5	0.5	11	1	2.5	7	0.5	2220	0.5	0.5	0.5
188	SCRS_188_08	0.5	5	0.5	2.5	1	22	11	0.5	1020	0.5	4	0.5
189	SCRS_189_08	0.5	16	0.5	124	3	81	33	0.5	390	0.5	13	0.5
199	SCRS_199_08	0.5	3	0.5	251	0.5	15	4	0.5	70	0.5	1	0.5
200	SCRS_200_08	0.5	2	0.5	39	0.5	22	2	0.5	60	0.5	0.5	0.5
201	SCRS_201_08	0.5	2	0.5	26	0.5	16	4	0.5	90	0.5	0.5	0.5
202	SCRS_202_08	0.5	9	0.5	99	0.5	39	16	0.5	100	0.5	4	0.5
203	SCRS_203_08	0.5	12	0.5	179	1	33	16	0.5	90	0.5	4	0.5
204	SCRS_204_08	0.5	2	0.5	29	3	40	4	0.5	290	0.5	0.5	0.5
205	SCRS_205_08	0.5	4	0.5	2.5	0.5	25	5	0.5	2330	0.5	0.5	0.5
211	SCRS_211_08	0.5	11	0.5	21	0.5	18	23	0.5	350	0.5	6	0.5
212	SCRS_212_08	0.5	0.5	0.5	20	0.5	2.5	2	0.5	430	0.5	0.5	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
213	SCRS_213_08	0.5	5	0.5	21	0.5	2.5	13	0.5	430	0.5	2	0.5
214	SCRS_214_08	0.5	6	0.5	28	0.5	18	9	0.5	360	0.5	2	0.5
215	SCRS_215_08	0.5	3	0.5	54	0.5	6	4	0.5	90	0.5	1	0.5
216	SCRS_216_08	0.5	23	0.5	43	0.5	109	24	0.5	810	0.5	4	0.5
217	SCRS_217_08	0.5	2	0.5	2.5	7	10	2	0.5	1860	0.5	0.5	0.5
218	SCRS_218_08	0.5	0.5	0.5	100	2	18	2	0.5	430	0.5	0.5	0.5
219	SCRS_219_08	0.5	0.5	0.5	100	0.5	20	0.5	0.5	440	0.5	0.5	0.5
220	SCRS_220_08	0.5	63	0.5	132	0.5	52	74	0.5	1240	0.5	12	0.5
221	SCRS_221_08	0.5	1	0.5	28	0.5	12	2	0.5	130	0.5	0.5	0.5
222	SCRS_222_08	0.5	23	0.5	15	1	23	36	0.5	1800	0.5	7	0.5
229	SCRS_229_08	0.5	5	0.5	182	0.5	19	13	0.5	50	0.5	3	0.5
230	SCRS_230_08	0.5	2	0.5	44	0.5	10	2	0.5	60	0.5	0.5	0.5
231	SCRS_231_08	0.5	3	0.5	27	0.5	2.5	3	0.5	290	0.5	0.5	0.5
232	SCRS_232_08	0.5	0.5	0.5	7	0.5	2.5	0.5	0.5	240	0.5	0.5	0.5
233	SCRS_233_08	0.5	3	0.5	38	0.5	5	5	0.5	1290	0.5	1	0.5
234	SCRS_234_08	0.5	8	0.5	8	2	17	11	0.5	1490	0.5	2	0.5
235	SCRS_235_08	0.5	20	0.5	15	1	51	31	0.5	1650	0.5	6	0.5
236	SCRS_236_08	0.5	18	0.5	10	3	52	25	0.5	2210	0.5	6	0.5
237	SCRS_237_08	0.5	18	0.5	7	2	57	24	0.5	1760	0.5	5	0.5
238	SCRS_238_08	0.5	0.5	0.5	2.5	1	7	0.5	0.5	860	0.5	0.5	0.5
239	SCRS_239_08	1	154	0.5	18	7	157	168	0.5	1090	0.5	27	0.5
244	SCRS_244_08	0.5	160	0.5	32	0.5	10	166	0.5	2540	0.5	20	0.5
245	SCRS_245_08	0.5	12	0.5	23	4	12	14	0.5	2710	0.5	3	0.5
246	SCRS_246_08	0.5	22	0.5	165	2	34	26	0.5	50	0.5	5	0.5
247	SCRS_247_08	0.5	2	0.5	119	1	14	3	0.5	310	0.5	0.5	0.5
248	SCRS_248_08	0.5	19	0.5	100	3	108	37	0.5	910	0.5	9	0.5
249	SCRS_249_08	0.5	66	0.5	171	0.5	103	88	0.5	800	0.5	15	0.5
250	SCRS_250_08	0.5	12	0.5	26	1	19	18	0.5	1820	0.5	3	0.5
251	SCRS_251_08	0.5	22	0.5	13	2	39	26	0.5	2420	0.5	4	0.5
252	SCRS_252_08	0.5	11	0.5	10	4	21	15	0.5	1110	0.5	3	0.5
253	SCRS_253_08	0.5	6	0.5	7	2	14	7	0.5	910	0.5	1	0.5
254	SCRS_254_08	0.5	81	0.5	18	1	55	116	0.5	870	0.5	20	0.5
255	SCRS_255_08	1	10	0.5	211	2	20	10	0.5	40	0.5	2	0.5
277	SCRS_277_08	0.5	4	0.5	17	0.5	2.5	5	0.5	1980	0.5	0.5	0.5
278	SCRS_278_08	0.5	1	0.5	21	0.5	2.5	2	0.5	2190	0.5	0.5	0.5
279	SCRS_279_08	0.5	4	0.5	27	0.5	5	7	0.5	480	0.5	1	0.5
280	SCRS_280_08	0.5	4	0.5	9	0.5	2.5	8	0.5	650	0.5	2	0.5
281	SCRS_281_08	0.5	4	0.5	8	4	13	4	0.5	510	0.5	0.5	0.5
282	SCRS_282_08	0.5	4	0.5	10	2	12	11	0.5	2160	0.5	2	0.5
283	SCRS_283_08	0.5	9	0.5	85	2	40	11	0.5	860	0.5	2	0.5
	5552_1_08	0.5	4	0.5	8	0.5	2.5	3	0.5	2850	0.5	0.5	0.5
	5552_2_08	0.5	188	0.5	152	0.5	60	131	0.5	20	0.5	16	0.5
	5552_3_08	0.5	13	0.5	103	0.5	73	23	0.5	70	0.5	8	0.5
	5552_4_08	0.5	51	0.5	79	0.5	115	76	0.5	30	0.5	16	0.5
	5552_5_08	0.5	22	0.5	63	0.5	61	39	0.5	430	0.5	10	0.5
	5552_6_08	0.5	9	0.5	159	0.5	70	14	0.5	400	0.5	4	0.5
	5552_7_08	0.5	3	0.5	42	0.5	57	5	0.5	140	0.5	2	0.5
	5552_8_08	0.5	6	0.5	111	0.5	28	11	0.5	80	0.5	4	0.5
107	SCRS_107_08	0.5	3	0.5	65	0.5	17	3	0.5	460	0.5	0.5	0.5
108	SCRS_108_08	0.5	18	0.5	65	2	32	26	0.5	1050	0.5	6	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
109	SCRS_109_08	0.5	10	0.5	19	1	26	14	0.5	930	0.5	4	0.5
190	SCRS_190_08	0.5	3	0.5	14	0.5	2.5	6	0.5	1030	0.5	1	0.5
191	SCRS_191_08	0.5	2	0.5	48	0.5	14	3	0.5	360	0.5	0.5	0.5
192	SCRS_192_08	0.5	2	0.5	195	0.5	22	4	0.5	130	0.5	2	0.5
193	SCRS_193_08	0.5	1	0.5	19	0.5	2.5	2	0.5	220	0.5	0.5	0.5
194	SCRS_194_08	0.5	2	0.5	56	0.5	24	3	0.5	170	0.5	0.5	0.5
195	SCRS_195_08	0.5	2	0.5	90	0.5	23	3	0.5	10	0.5	0.5	0.5
196	SCRS_196_08	0.5	20	0.5	272	0.5	38	45	0.5	120	0.5	9	0.5
197	SCRS_197_08	0.5	2	0.5	15	0.5	2.5	3	0.5	170	0.5	0.5	0.5
198	SCRS_198_08	0.5	3	0.5	27	0.5	2.5	5	0.5	260	0.5	1	0.5
207	SCRS_207_08	0.5	5	0.5	11	0.5	20	7	0.5	1280	0.5	1	0.5
208	SCRS_208_08	0.5	11	0.5	109	2	41	17	0.5	120	0.5	3	0.5
209	SCRS_209_08	0.5	2	0.5	102	0.5	14	3	0.5	20	0.5	0.5	0.5
210	SCRS_210_08	0.5	17	0.5	143	1	96	40	0.5	180	0.5	11	0.5
223	SCRS_223_08	0.5	2	0.5	6	0.5	2.5	3	0.5	1280	0.5	0.5	0.5
224	SCRS_224_08	0.5	9	0.5	130	2	75	14	0.5	180	0.5	3	0.5
225	SCRS_225_08	0.5	4	0.5	57	0.5	94	5	0.5	250	0.5	2	0.5
226	SCRS_226_08	0.5	3	0.5	39	0.5	101	4	0.5	340	0.5	2	0.5
227	SCRS_227_08	0.5	3	0.5	167	0.5	114	4	0.5	190	0.5	0.5	0.5
228	SCRS_228_08	0.5	7	0.5	80	0.5	118	12	0.5	170	0.5	5	0.5
236	SCRS_236_08	0.5	9	0.5	38	1	33	8	0.5	410	0.5	2	0.5
240	SCRS_240_08	0.5	7	0.5	21	0.5	2.5	7	0.5	2680	0.5	0.5	0.5
241	SCRS_241_08	0.5	3	0.5	2.5	0.5	14	6	0.5	410	0.5	2	0.5
242	SCRS_242_08	0.5	46	0.5	125	5	185	79	0.5	590	0.5	18	0.5
243	SCRS_243_08	0.5	12	0.5	155	1	44	24	0.5	410	0.5	5	0.5
257	SCRS_257_08	0.5	7	0.5	2.5	2	12	12	0.5	670	0.5	3	0.5
258	SCRS_258_08	0.5	14	0.5	98	0.5	21	19	0.5	1480	0.5	3	0.5
259	SCRS_259_08	0.5	12	0.5	26	3	65	18	0.5	560	0.5	5	0.5
260	SCRS_260_08	0.5	5	0.5	36	0.5	33	5	0.5	230	0.5	0.5	0.5
271	SCRS_271_08	0.5	6	0.5	11	0.5	19	9	0.5	460	0.5	2	0.5
272	SCRS_272_08	0.5	8	0.5	20	0.5	13	13	0.5	640	0.5	4	0.5
273	SCRS_273_08	0.5	8	0.5	35	0.5	72	16	0.5	430	0.5	6	0.5
274	SCRS_274_08	0.5	6	0.5	128	0.5	62	10	0.5	550	0.5	3	0.5
275	SCRS_275_08	0.5	2	0.5	42	0.5	37	2	0.5	330	0.5	0.5	0.5
276	SCRS_276_08	0.5	1	0.5	390	0.5	6	0.5	0.5	250	0.5	0.5	0.5
284	SCRS_284_08	0.5	1	0.5	13	0.5	18	1	0.5	260	0.5	0.5	0.5
285	SCRS_285_08	0.5	0.5	0.5	25	0.5	6	3	0.5	3980	0.5	1	0.5
286	SCRS_286_08	0.5	11	0.5	106	0.5	2.5	14	0.5	360	0.5	2	0.5
287	SCRS_287_08	0.5	7	0.5	36	0.5	9	6	0.5	620	0.5	1	0.5
288	SCRS_288_08	0.5	0.5	0.5	9	0.5	2.5	0.5	0.5	640	0.5	0.5	0.5
289	SCRS_289_08	0.5	50	0.5	62	0.5	75	94	0.5	1420	0.5	16	0.5
290	SCRS_290_08	0.5	7	0.5	229	0.5	38	13	0.5	350	0.5	3	0.5
291	SCRS_291_08	0.5	6	0.5	12	0.5	11	9	0.5	370	0.5	1	0.5
292	SCRS_292_08	0.5	34	0.5	14	3	98	36	0.5	740	0.5	7	0.5
293	SCRS_293_08	0.5	2	0.5	29	0.5	2.5	2	0.5	430	0.5	0.5	0.5
294	SCRS_294_08	0.5	10	0.5	6	2	16	11	0.5	1010	0.5	2	0.5
295	SCRS_295_08	0.5	0.5	0.5	17	0.5	2.5	3	0.5	3190	0.5	1	0.5
296	SCRS_296_08	0.5	3	0.5	13	0.5	2.5	5	0.5	4880	0.5	0.5	0.5
297	SCRS_297_08	0.5	12	0.5	10	0.5	13	15	0.5	1720	0.5	2	0.5
298	SCRS_298_08	0.5	46	0.5	37	0.5	65	36	0.5	3370	0.5	5	0.5
299	SCRS_299_08	0.5	9	0.5	17	0.5	8	16	0.5	1900	0.5	3	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
300	SCRS_300_08	0.5	16	0.5	15	0.5	35	25	0.5	1070	0.5	6	0.5
301	SCRS_301_08	0.5	10	0.5	49	0.5	107	11	0.5	900	0.5	2	0.5
302	SCRS_302_08	0.5	14	0.5	36	0.5	45	17	0.5	790	0.5	4	0.5
303	SCRS_303_08	0.5	0.5	0.5	47	0.5	8	14	0.5	1730	0.5	4	0.5
304	SCRS_304_08	0.5	5	0.5	18	0.5	2.5	8	0.5	3320	0.5	2	0.5
305	SCRS_305_08	0.5	25	0.5	16	0.5	15	30	0.5	3180	0.5	4	0.5
306	SCRS_306_08	0.5	101	0.5	56	0.5	66	192	0.5	1270	0.5	29	0.5
307	SCRS_307_08	0.5	19	0.5	32	0.5	40	16	0.5	520	0.5	3	0.5
308	SCRS_308_08	0.5	3	0.5	16	4	16	5	0.5	650	0.5	0.5	0.5
309	SCRS_309_08	0.5	4	0.5	17	0.5	18	4	0.5	1260	0.5	0.5	0.5
310	SCRS_310_08	0.5	5	0.5	61	0.5	193	8	0.5	410	0.5	3	0.5
311	SCRS_311_08	0.5	0.5	0.5	44	0.5	29	2	0.5	920	0.5	0.5	0.5
312	SCRS_312_08	0.5	0.5	0.5	76	0.5	2.5	0.5	0.5	410	0.5	0.5	0.5
313	SCRS_313_08	0.5	3	0.5	40	0.5	81	5	0.5	500	0.5	1	0.5
50	SCRS_50_08	0.5	0.5	0.5	17	0.5	2.5	0.5	0.5	2540	0.5	0.5	0.5
67	SCRS_67_08	0.5	3	0.5	94	0.5	77	4	0.5	190	0.5	1	0.5
	SCRS_9211_08	0.5	5	0.5	50	0.5	54	10	0.5	310	0.5	3	0.5
131	SCRS_131_08	0.5	0.5	0.5	9	0.5	2.5	0.5	0.5	1100	0.5	0.5	0.5
132	SCRS_132_08	0.5	0.5	0.5	10	0.5	2.5	0.5	0.5	1260	0.5	0.5	0.5
133	SCRS_133_08	0.5	4	0.5	8	0.5	11	9	0.5	1050	0.5	3	0.5
134	SCRS_134_08	0.5	23	0.5	53	0.5	79	35	0.5	630	0.5	9	0.5
135	SCRS_135_08	0.5	3	0.5	18	0.5	16	7	0.5	240	0.5	1	0.5
136	SCRS_136_08	0.5	25	0.5	32	0.5	52	29	0.5	1160	0.5	6	0.5
137	SCRS_137_08	0.5	3	0.5	13	0.5	2.5	4	0.5	1230	0.5	0.5	0.5
138	SCRS_138_08	0.5	7	0.5	109	0.5	75	11	0.5	70	0.5	4	0.5
139	SCRS_139_08	0.5	6	0.5	73	2	49	6	0.5	250	0.5	1	0.5
140	SCRS_140_08	0.5	9	0.5	32	0.5	31	9	0.5	650	0.5	2	0.5
141	SCRS_141_08	0.5	4	0.5	18	0.5	9	5	0.5	820	0.5	1	0.5
142	SCRS_142_08	0.5	2	0.5	5	0.5	11	3	0.5	360	0.5	0.5	0.5
143	SCRS_143_08	0.5	14	0.5	264	0.5	23	13	0.5	60	0.5	2	0.5
144	SCRS_144_08	0.5	5	0.5	19	1	47	10	0.5	610	0.5	2	0.5
145	SCRS_145_08	0.5	7	0.5	90	3	63	8	0.5	260	0.5	2	0.5
146	SCRS_146_08	0.5	7	0.5	138	0.5	46	11	0.5	10	0.5	4	0.5
147	SCRS_147_08	0.5	0.5	0.5	105	0.5	17	0.5	0.5	120	0.5	0.5	0.5
148	SCRS_148_08	0.5	0.5	0.5	30	0.5	2.5	0.5	0.5	4710	0.5	0.5	0.5
159	SCRS_159_08	0.5	0.5	0.5	8	0.5	2.5	0.5	0.5	1110	0.5	0.5	0.5
160	SCRS_160_08	0.5	0.5	0.5	25	0.5	15	2	0.5	280	0.5	0.5	0.5
161	SCRS_161_08	0.5	13	0.5	22	0.5	59	18	0.5	780	0.5	4	0.5
162	SCRS_162_08	0.5	2	0.5	13	0.5	13	3	0.5	380	0.5	0.5	0.5
163	SCRS_163_08	0.5	3	0.5	7	0.5	7	5	0.5	390	0.5	1	0.5
164	SCRS_164_08	0.5	1	0.5	97	0.5	33	3	0.5	60	0.5	2	0.5
165	SCRS_165_08	0.5	0.5	0.5	2.5	0.5	2.5	1	0.5	3970	0.5	0.5	0.5
166	SCRS_166_08	0.5	17	0.5	159	0.5	31	36	0.5	210	0.5	7	0.5
167	SCRS_167_08	0.5	2	0.5	67	0.5	40	2	0.5	1350	0.5	0.5	0.5
168	SCRS_168_08	0.5	1	0.5	49	6	19	2	0.5	430	0.5	0.5	0.5
169	SCRS_169_08	0.5	2	0.5	12	0.5	28	2	0.5	430	0.5	0.5	0.5
175	SCRS_175_08	0.5	54	0.5	28	0.5	1060	79	0.5	270	0.5	24	0.5
176	SCRS_176_08	0.5	7	0.5	46	0.5	18	15	0.5	370	0.5	3	0.5
177	SCRS_177_08	0.5	1	0.5	14	0.5	2.5	3	0.5	290	0.5	0.5	0.5
178	SCRS_178_08	0.5	1	0.5	118	0.5	18	0.5	0.5	70	0.5	0.5	0.5
179	SCRS_179_08	0.5	21	0.5	241	0.5	50	24	0.5	70	0.5	4	0.5
180	SCRS_180_08	0.5	12	0.5	160	0.5	82	18	0.5	110	0.5	4	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
181	SCRS_181_08	0.5	3	0.5	50	0.5	30	5	0.5	610	0.5	1	0.5
182	SCRS_182_08	0.5	2	0.5	114	0.5	30	6	0.5	90	0.5	3	0.5
206	SCRS_206_08	0.5	1	0.5	27	0.5	30	1	0.5	990	0.5	0.5	0.5
261	SCRS_261_08	0.5	12	0.5	89	0.5	118	19	0.5	390	0.5	8	0.5
262	SCRS_262_08	0.5	5	0.5	18	0.5	13	9	0.5	510	0.5	2	0.5
263	SCRS_263_08	0.5	5	0.5	39	0.5	30	6	0.5	250	0.5	2	0.5
264	SCRS_264_08	0.5	2	0.5	2.5	0.5	9	2	0.5	3250	0.5	0.5	0.5
265	SCRS_265_08	0.5	1	0.5	2.5	0.5	8	2	0.5	1260	0.5	0.5	0.5
266	SCRS_266_08	0.5	0.5	0.5	5	0.5	2.5	1	0.5	760	0.5	0.5	0.5
267	SCRS_267_08	0.5	0.5	0.5	23	0.5	2.5	2	0.5	610	0.5	0.5	0.5
268	SCRS_268_08	0.5	0.5	0.5	14	0.5	2.5	0.5	0.5	680	0.5	0.5	0.5
269	SCRS_269_08	0.5	119	0.5	66	1	159	134	0.5	1280	0.5	28	0.5
270	SCRS_270_08	0.5	30	0.5	52	0.5	116	45	0.5	1090	0.5	11	0.5
31	SCRS_31_08	0.5	4	0.5	23	0.5	5	5	0.5	1200	0.5	0.5	0.5
32	SCRS_32_08	0.5	80	0.5	25	0.5	22	131	0.5	1320	0.5	29	0.5
33	SCRS_33_08	0.5	0.5	0.5	8	0.5	2.5	0.5	0.5	1230	0.5	0.5	0.5
34	SCRS_34_08	0.5	0.5	0.5	5	0.5	2.5	0.5	0.5	3250	0.5	0.5	0.5
35	SCRS_35_08	0.5	8	0.5	10	0.5	15	9	0.5	3150	0.5	2	0.5
36	SCRS_36_08	0.5	4	0.5	26	2	11	4	0.5	1110	0.5	0.5	0.5
37	SCRS_37_08	0.5	0.5	0.5	5	0.5	2.5	3	0.5	2810	0.5	0.5	0.5
38	SCRS_38_08	0.5	6	0.5	5	1	8	7	0.5	3390	0.5	1	0.5
39	SCRS_39_08	0.5	6	0.5	6	0.5	7	8	0.5	3360	0.5	2	0.5
40	SCRS_40_08	0.5	2	0.5	10	0.5	14	8	0.5	4690	0.5	2	0.5
41	SCRS_41_08	0.5	0.5	0.5	29	0.5	2.5	0.5	0.5	4160	0.5	0.5	0.5
42	SCRS_42_08	0.5	0.5	0.5	6	0.5	2.5	0.5	0.5	2830	0.5	0.5	0.5
80	SCRS_80_08	0.5	14	0.5	21	0.5	50	16	0.5	1150	0.5	3	0.5
81	SCRS_81_08	0.5	2	0.5	11	0.5	7	4	0.5	1440	0.5	1	0.5
82	SCRS_82_08	0.5	11	0.5	7	0.5	17	14	0.5	1320	0.5	3	0.5
83	SCRS_83_08	0.5	15	0.5	26	0.5	43	19	0.5	2320	0.5	4	0.5
84	SCRS_84_08	0.5	125	0.5	123	1	356	161	0.5	260	0.5	37	0.5
85	SCRS_85_08	0.5	19	0.5	193	0.5	40	22	0.5	330	0.5	5	0.5
86	SCRS_86_08	0.5	2	0.5	64	0.5	44	3	0.5	110	0.5	2	0.5
87	SCRS_87_08	0.5	1	0.5	67	0.5	23	2	0.5	120	0.5	1	0.5
88	SCRS_88_08	0.5	3	0.5	2.5	0.5	2.5	3	0.5	1690	0.5	0.5	0.5
89	SCRS_89_08	0.5	3	0.5	100	0.5	25	8	0.5	1080	0.5	3	0.5
90	SCRS_90_08	0.5	0.5	0.5	10	0.5	2.5	0.5	0.5	2300	0.5	0.5	0.5
91	SCRS_91_08	0.5	0.5	0.5	6	0.5	2.5	2	0.5	1840	0.5	0.5	0.5
92	SCRS_92_08	0.5	4	0.5	5	0.5	2.5	4	0.5	2270	0.5	0.5	0.5
93	SCRS_93_08	0.5	0.5	0.5	6	0.5	2.5	2	0.5	1710	0.5	0.5	0.5
94	SCRS_94_08	0.5	6	0.5	8	0.5	18	6	0.5	2260	0.5	1	0.5
95	SCRS_95_08	0.5	1	0.5	2.5	0.5	2.5	2	0.5	1350	0.5	0.5	0.5
96	SCRS_96_08	0.5	5	0.5	6	0.5	21	6	0.5	690	0.5	1	0.5
967	SCRS_967_08	0.5	2	0.5	9	0.5	2.5	2	0.5	3950	0.5	0.5	0.5
968	SCRS_968_08	0.5	3	0.5	14	0.5	5	4	0.5	2710	0.5	0.5	0.5
97	SCRS_97_08	0.5	15	0.5	64	2	151	23	0.5	390	0.5	7	0.5
	SCRS_980_08	0.5	2	0.5	26	0.5	8	5	0.5	1550	0.5	1	0.5

GRID_ID	FIELD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
1	SCRS_1_08	4.3	32	0.25	6	0.5	8	0.5	30	2.5
10	SCRS_10_08	0.25	17	0.25	41	0.5	6	0.5	570	2.5
11	SCRS_11_08	5.5	60	0.6	16	0.5	54	4	100	8
12	SCRS_12_08	16.5	749	0.25	6	0.5	47	4	160	26
13	SCRS_13_08	2.1	33	0.25	0.5	0.5	6	3	410	6
14	SCRS_14_08	81.8	2760	0.25	13	1	115	10	780	130
15	SCRS_15_08	31.6	1100	0.25	8	0.5	102	7	190	108
16	SCRS_16_08	3.5	11	0.25	8	0.5	92	5	550	2.5
17	SCRS_17_08	1	22	0.25	2	0.5	22	2	1830	2.5
18	SCRS_18_08	18.1	1110	0.25	8	0.5	62	5	710	98
19	SCRS_19_08	2.1	11	0.6	8	0.5	73	4	160	2.5
2	SCRS_2_08	29.5	17	0.25	9	0.5	174	13	80	41
20	SCRS_20_08	5.4	5	0.25	9	0.5	260	12	200	13
21	SCRS_21_08	3.9	13	0.25	10	0.5	54	3	60	5
22	SCRS_22_08	4.2	29	0.25	13	0.5	67	4	200	6
23	SCRS_23_08	0.8	21	0.25	4	0.5	35	2	300	2.5
24	SCRS_24_08	22.8	46	0.25	9	0.5	80	5	120	14
25	SCRS_25_08	13.4	41	0.25	9	0.5	100	9	150	10
26	SCRS_26_08	6	37	0.25	12	0.5	69	5	210	9
27	SCRS_27_08	4.2	13	0.25	5	0.5	48	3	470	2.5
28	SCRS_28_08	1.4	36	0.25	8	0.5	16	2	290	13
29	SCRS_29_08	6.8	12	0.25	38	0.5	56	3	100	7
3	SCRS_3_08	27.1	18	0.25	20	1	82	7	40	43
30	SCRS_30_08	16.7	57	0.6	7	0.5	119	11	220	13
4	SCRS_4_08	3.4	27	0.25	15	0.5	39	3	1240	7
43	SCRS_43_08	1.6	9	0.25	7	0.5	16	0.5	70	2.5
44	SCRS_44_08	2.5	14	0.25	26	0.5	139	8	170	8
45	SCRS_45_08	0.7	20	0.25	4	0.5	21	1	1030	2.5
46	SCRS_46_08	0.25	21	0.25	5	0.5	8	0.5	1210	2.5
47	SCRS_47_08	1.3	24	0.25	10	0.5	38	3	3970	5
48	SCRS_48_08	3.9	7	0.25	3	0.5	60	3	120	2.5
49	SCRS_49_08	16.4	16	0.25	11	0.5	182	11	40	33
5	SCRS_5_08	0.8	28	0.25	4	0.5	2.5	0.5	1740	2.5
51	SCRS_51_08	1.3	13	0.25	4	0.5	13	0.5	420	2.5
52	SCRS_52_08	5.7	23	0.25	3	0.5	48	3	470	2.5
53	SCRS_53_08	3.5	10	0.25	7	0.5	30	2	180	11
54	SCRS_54_08	2.5	12	0.25	3	0.5	22	1	170	7
6	SCRS_6_08	8.2	70	0.25	6	0.5	44	5	110	31
7	SCRS_7_08	2.6	7	0.25	5	0.5	45	2	170	9
8	SCRS_8_08	14.7	11	0.25	11	0.5	130	10	10	29
9	SCRS_9_08	0.9	20	0.25	1	0.5	44	4	1130	2.5
100	SCRS_100_08	12.6	818	0.8	5	0.5	22	3	100	94
101	SCRS_101_08	8.7	355	0.6	5	0.5	217	30	160	19
102	SCRS_102_08	31.5	984	0.6	15	0.5	98	9	210	104
103	SCRS_103_08	10.8	741	0.25	25	1	27	5	320	45

GRID_ID	.LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
104	SCRS_104_08	11.7	879	5.1	99	1	21	6	160	60
105	SCRS_105_08	6.4	136	0.25	27	0.5	29	3	180	22
106	SCRS_106_08	26.9	703	0.25	9	0.5	34	3	180	78
114	SCRS_114_08	1.5	21	0.25	5	0.5	11	0.5	180	5
115	SCRS_115_08	57.1	47	0.25	68	0.5	324	23	610	38
116	SCRS_116_08	49.9	459	1	13	0.5	85	11	360	118
117	SCRS_117_08	49.9	630	0.25	5	0.5	42	6	180	56
118	SCRS_118_08	4.8	25	0.25	3	0.5	13	1	270	2.5
119	SCRS_119_08	7.7	303	0.25	8	0.5	74	7	860	20
120	SCRS_120_08	32.6	502	0.25	11	0.5	43	5	150	74
121	SCRS_121_08	10.5	206	0.25	60	0.5	44	4	100	33
122	SCRS_122_08	111	2170	1.1	45	3	1060	67	560	262
123	SCRS_123_08	13.9	438	0.25	35	0.5	108	10	310	37
124	SCRS_124_08	12.7	799	0.6	12	0.5	264	17	680	38
125	SCRS_125_08	23.4	646	0.25	11	0.5	69	12	580	36
126	SCRS_126_08	19.5	509	0.25	14	0.5	56	5	900	40
127	SCRS_127_08	1.2	14	0.25	2	0.5	26	3	1370	2.5
128	SCRS_128_08	19.8	1890	0.25	6	1	13	2	230	64
129	SCRS_129_08	16.8	8	0.25	8	0.5	54	4	100	5
130	SCRS_130_08	31.1	2730	0.9	12	1	140	11	230	106
55	SCRS_55_08	10.9	8	0.25	8	0.5	79	6	60	14
56	SCRS_56_08	12.4	9	0.25	12	0.5	62	5	110	19
57	SCRS_57_08	5.4	8	0.25	16	0.5	74	5	280	9
58	SCRS_58_08	3	1.5	0.25	16	0.5	27	2	10	2.5
59	SCRS_59_08	14.1	12	0.25	6	0.5	70	6	170	12
60	SCRS_60_08	9.3	5	0.25	7	0.5	90	6	190	6
61	SCRS_61_08	83.9	2840	0.25	17	0.5	115	10	280	143
62	SCRS_62_08	11.8	47	0.25	12	0.5	142	12	40	46
63	SCRS_63_08	1.2	4	0.25	6	0.5	22	1	460	2.5
64	SCRS_64_08	4	3	0.25	17	0.5	50	4	120	2.5
65	SCRS_65_08	0.9	1.5	0.25	2	0.5	8	0.5	840	2.5
66	SCRS_66_08	8.7	90	0.25	6	0.5	33	3	410	15
68	SCRS_68_08	2.8	3	0.25	2	0.5	23	1	110	2.5
69	SCRS_69_08	2.2	3	0.25	5	0.5	44	3	460	2.5
70	SCRS_70_08	1.2	1.5	0.25	8	0.5	22	2	4420	2.5
71	SCRS_71_08	5.6	37	0.25	4	0.5	35	3	390	15
72	SCRS_72_08	5.4	1.5	0.25	9	0.5	107	8	520	2.5
73	SCRS_73_08	18	20	0.25	16	0.5	309	23	220	15
74	SCRS_74_08	8.3	18	0.25	20	0.5	81	6	140	8
75	SCRS_75_08	24.6	1.5	0.25	11	0.5	150	11	60	20
76	SCRS_76_08	75.4	654	0.6	18	0.5	96	10	70	71
77	SCRS_77_08	3.3	3	0.25	8	0.5	54	3	50	5
78	SCRS_78_08	2.7	9	0.25	17	0.5	34	3	650	7
79	SCRS_79_08	5.1	9	0.25	6	0.5	87	5	60	7

GRID_ID	_D_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
	SCRS_9104_08	11.7	1430	4.2	129	2	26	7	70	87
98	SCRS_98_08	11.1	11	0.25	10	0.5	77	5	70	14
99	SCRS_99_08	20.7	1040	0.25	8	0.5	29	5	50	61
	555_1_08	4	1.5	1.1	8	0.5	22	3	30	2.5
	555_2_08	173	735	2.1	45	1	170	13	510	176
	555_3_08	524	160	0.9	77	1	3020	169	180	280
	555_4_08	23.4	435	1	6	0.5	88	8	250	39
	555_5_08	40.7	212	0.7	14	0.5	691	56	160	67
	555_6_08	35.7	811	1.1	19	2	988	74	90	93
	555_7_08	6.8	215	0.25	7	0.5	293	27	260	27
	555_8_08	23.3	1500	0.6	8	0.5	321	33	340	68
	555_91_08	0.9	1.5	0.25	3	2	8	1	90	2.5
110	SCRS_110_08	1.2	13	0.5	7	0.5	21	2	380	2.5
111	SCRS_111_08	5.2	61	0.25	51	0.5	96	7	220	17
112	SCRS_112_08	4	60	0.25	14	0.5	48	4	160	18
113	SCRS_113_08	1.7	11	0.25	1	0.5	16	0.5	50	2.5
149	SCRS_149_08	4	5	0.25	4	0.5	59	4	40	9
150	SCRS_150_08	0.9	13	0.25	7	0.5	14	1	280	2.5
151	SCRS_151_08	31.6	8	0.25	14	0.5	156	11	30	43
152	SCRS_152_08	27.1	204	0.25	28	0.5	240	20	120	62
153	SCRS_153_08	6.9	11	0.25	3	0.5	35	3	130	9
154	SCRS_154_08	17.6	1520	0.25	6	0.5	89	6	130	64
155	SCRS_155_08	2.3	4	0.25	2	0.5	54	3	70	2.5
156	SCRS_156_08	1.4	9	0.25	2	0.5	9	0.5	130	2.5
157	SCRS_157_08	1.1	7	0.25	3	0.5	19	1	80	2.5
158	SCRS_158_08	4.3	53	0.25	11	0.5	39	3	210	9
170	SCRS_170_08	41.7	3990	0.8	5	0.5	246	13	320	81
171	SCRS_171_08	0.9	20	0.25	3	0.5	40	4	670	2.5
172	SCRS_172_08	5.4	56	0.25	3	0.5	54	4	250	13
173	SCRS_173_08	5.7	21	0.25	5	0.5	72	5	80	8
174	SCRS_174_08	11.2	174	0.25	14	0.5	1020	77	140	46
183	SCRS_183_08	2.4	275	0.25	2	0.5	2.5	1	40	16
184	SCRS_184_08	8.1	563	0.25	6	0.5	26	6	120	28
185	SCRS_185_08	40.4	374	0.25	22	0.5	65	7	630	108
186	SCRS_186_08	11.7	2010	0.25	7	0.5	18	2	430	130
187	SCRS_187_08	1.6	9	0.25	11	0.5	21	0.5	70	2.5
188	SCRS_188_08	3.8	62	0.25	35	0.5	253	32	2050	13
189	SCRS_189_08	40.3	412	1	37	0.5	475	25	880	119
199	SCRS_199_08	9.8	1030	0.6	3	0.5	45	4	200	59
200	SCRS_200_08	17.9	1560	0.25	6	1	19	3	330	116
201	SCRS_201_08	8.7	572	0.25	2	0.5	32	7	140	30
202	SCRS_202_08	30.2	1020	0.6	11	0.5	109	9	440	85
203	SCRS_203_08	33.5	957	0.8	22	0.5	129	11	140	127
204	SCRS_204_08	10.7	573	0.5	42	0.5	41	17	630	61
205	SCRS_205_08	3	85	0.25	7	0.5	21	1	170	19
211	SCRS_211_08	11.8	902	0.25	6	0.5	190	17	700	92
212	SCRS_212_08	0.9	4	0.25	3	0.5	23	1	350	2.5

GRID_ID	LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
109	SCRS_109_08	7.2	14	0.25	91	0.5	136	8	290	20
190	SCRS_190_08	5.6	7	0.25	4	0.5	38	2	180	2.5
191	SCRS_191_08	11.3	586	0.25	8	0.5	19	2	100	50
192	SCRS_192_08	12	501	0.25	4	0.5	83	7	760	62
193	SCRS_193_08	1.6	30	0.25	2	0.5	21	2	720	6
194	SCRS_194_08	12.5	711	0.25	4	0.5	23	5	410	28
195	SCRS_195_08	18.6	440	0.5	7	0.5	28	4	270	48
196	SCRS_196_08	68.1	1370	1	15	1	124	8	640	133
197	SCRS_197_08	1.8	29	0.25	2	0.5	24	1	340	2.5
198	SCRS_198_08	1.7	18	0.25	6	0.5	46	2	530	8
207	SCRS_207_08	4.8	44	0.25	15	0.5	61	4	520	11
208	SCRS_208_08	52.7	2000	0.5	15	1	71	7	260	143
209	SCRS_209_08	16.7	369	0.25	6	0.5	14	2	400	38
210	SCRS_210_08	77	2190	0.25	22	1	320	23	950	149
223	SCRS_223_08	1.7	13	0.25	8	0.5	38	2	2050	2.5
224	SCRS_224_08	50.3	2010	0.8	25	1	66	7	3220	151
225	SCRS_225_08	14.8	1280	0.25	8	0.5	97	13	2670	62
226	SCRS_226_08	6.3	139	0.6	11	0.5	108	12	570	13
227	SCRS_227_08	17.4	1690	0.25	11	2	39	5	990	81
228	SCRS_228_08	12	1190	0.25	5	0.5	200	18	2950	38
236	SCRS_236_08	8.3	433	1.6	38	0.5	62	10	1000	47
240	SCRS_240_08	2.3	21	0.25	5	0.5	20	0.5	280	2.5
241	SCRS_241_08	2.4	64	0.25	6	0.5	102	9	4700	8
242	SCRS_242_08	38.3	1530	0.9	91	1	500	42	1020	161
243	SCRS_243_08	36.5	1920	0.6	16	1	87	6	1510	94
257	SCRS_257_08	1.7	32	0.25	20	0.5	154	9	470	7
258	SCRS_258_08	11	125	0.25	14	0.5	79	5	970	40
259	SCRS_259_08	8.1	89	0.25	62	0.5	189	11	240	25
260	SCRS_260_08	15.5	648	0.25	20	0.5	34	5	110	38
271	SCRS_271_08	5.1	34	0.25	11	0.5	101	6	270	17
272	SCRS_272_08	2.6	21	0.25	8	0.5	166	10	690	7
273	SCRS_273_08	12.8	41	0.25	14	0.5	387	32	360	19
274	SCRS_274_08	18.5	433	0.25	5	0.5	103	9	4210	33
275	SCRS_275_08	6.8	85	0.25	6	0.5	26	31	20	19
276	SCRS_276_08	6.8	327	1.5	3	0.5	7	1	10	26
284	SCRS_284_08	4.7	309	0.25	7	0.5	13	1	60	21
285	SCRS_285_08	2.9	1.5	0.25	4	0.5	42	3	90	2.5
286	SCRS_286_08	7.2	30	0.6	4	0.5	57	4	710	12
287	SCRS_287_08	3.4	11	0.6	8	0.5	33	2	40	9
288	SCRS_288_08	0.25	1.5	0.25	2	0.5	7	0.5	610	2.5
289	SCRS_289_08	22.8	10	0.25	8	0.5	448	21	80	18
290	SCRS_290_08	12.5	151	0.7	5	0.5	67	4	210	33
291	SCRS_291_08	6.3	4	0.25	4	0.5	46	3	30	8
292	SCRS_292_08	29.9	173	0.25	24	0.5	241	20	100	77
293	SCRS_293_08	1	13	0.25	4	0.5	14	0.5	230	5
294	SCRS_294_08	9	40	0.25	33	0.5	66	6	130	15
295	SCRS_295_08	1.5	1.5	0.25	2	0.5	43	2	80	7
296	SCRS_296_08	1.7	1.5	0.25	12	0.5	32	1	10	2.5
297	SCRS_297_08	15.2	8	0.25	9	0.5	77	5	130	2.5
298	SCRS_298_08	22.2	30	0.25	9	0.5	205	14	70	41
299	SCRS_299_08	3.1	4	0.25	29	0.5	113	5	100	9

GRID_ID	FIELD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
300	SCRS_300_08	5.3	4	0.25	17	0.5	232	13	240	8
301	SCRS_301_08	4.1	27	0.25	9	0.5	108	8	30	18
302	SCRS_302_08	5.3	19	0.25	13	0.5	148	10	210	16
303	SCRS_303_08	3.4	1.5	1	3	0.5	165	6	280	2.5
304	SCRS_304_08	4	1.5	0.25	8	0.5	57	3	140	2.5
305	SCRS_305_08	9.6	21	0.25	4	0.5	108	6	50	10
306	SCRS_306_08	40.6	8	0.25	16	0.5	709	31	130	18
307	SCRS_307_08	7.4	34	0.25	20	0.5	90	6	30	25
308	SCRS_308_08	3.4	33	0.25	47	0.5	31	2	520	5
309	SCRS_309_08	2.9	43	0.25	9	0.5	30	2	30	7
310	SCRS_310_08	11.9	233	0.6	10	0.5	137	14	10	55
311	SCRS_311_08	2.1	6	0.25	6	0.5	37	3	10	6
312	SCRS_312_08	0.8	7	7.5	12	0.5	9	0.5	230	2.5
313	SCRS_313_08	3.6	153	0.25	6	0.5	68	7	170	12
50	SCRS_50_08	1.1	22	0.25	14	0.5	7	0.5	1120	2.5
67	SCRS_67_08	13.3	565	1	17	0.5	60	8	140	53
	SCRS_9211_08	23.2	377	0.25	14	0.5	73	6	610	27
131	SCRS_131_08	0.25	7	0.25	2	0.5	9	0.5	420	2.5
132	SCRS_132_08	0.25	6	0.25	1	0.5	13	0.5	80	2.5
133	SCRS_133_08	3.3	12	0.25	21	0.5	150	8	150	10
134	SCRS_134_08	12	42	0.25	10	0.5	469	26	200	26
135	SCRS_135_08	4.5	7	0.25	1	0.5	48	2	120	5
136	SCRS_136_08	14.3	26	0.25	12	0.5	267	16	10	30
137	SCRS_137_08	3.9	6	0.25	11	0.5	34	2	50	2.5
138	SCRS_138_08	61.8	2900	0.25	9	1	131	10	190	170
139	SCRS_139_08	31.2	477	0.7	25	0.5	59	5	100	85
140	SCRS_140_08	17	176	0.25	21	0.5	56	5	150	41
141	SCRS_141_08	2.4	16	0.25	8	0.5	56	3	10	7
142	SCRS_142_08	2.9	63	0.25	9	0.5	23	2	140	6
143	SCRS_143_08	14.3	1350	0.25	3	0.5	72	4	180	92
144	SCRS_144_08	10.8	330	0.25	58	0.5	76	6	110	35
145	SCRS_145_08	29	721	0.25	24	0.5	78	8	110	111
146	SCRS_146_08	18.2	325	0.25	23	0.5	168	10	90	59
147	SCRS_147_08	9.7	364	0.25	8	0.5	9	0.5	10	42
148	SCRS_148_08	0.25	4	0.25	2	0.5	9	0.5	150	2.5
159	SCRS_159_08	1.1	7	0.25	3	0.5	8	0.5	110	2.5
160	SCRS_160_08	6.9	305	0.25	2	0.5	51	4	2550	20
161	SCRS_161_08	9.9	18	0.25	10	0.5	222	12	70	45
162	SCRS_162_08	2.6	88	0.25	5	0.5	41	2	620	15
163	SCRS_163_08	1.9	34	0.25	6	0.5	64	4	2010	8
164	SCRS_164_08	15.1	944	0.25	4	0.5	91	7	1130	46
165	SCRS_165_08	0.25	3	0.25	1	0.5	14	0.5	640	2.5
166	SCRS_166_08	41.5	1330	0.25	7	0.5	141	7	930	89
167	SCRS_167_08	18.7	97	0.25	15	0.5	29	3	110	27
168	SCRS_168_08	5.1	894	2.1	72	0.5	23	4	180	46
169	SCRS_169_08	8.2	919	0.25	11	0.5	17	4	100	43
175	SCRS_175_08	24.7	1420	0.25	14	2	1100	104	290	61
176	SCRS_176_08	10.5	37	0.25	10	0.5	100	5	40	13
177	SCRS_177_08	1.8	13	0.25	4	0.5	29	1	180	2.5
178	SCRS_178_08	13.2	1340	0.25	5	0.5	11	1	140	91
179	SCRS_179_08	31.1	4350	0.25	7	0.5	105	7	220	116
180	SCRS_180_08	25.9	1470	0.25	12	0.5	144	9	750	108

GRID_ID	.LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
181	SCRS_181_08	9.7	263	0.25	39	0.5	39	3	50	22
182	SCRS_182_08	19.6	651	0.25	5	0.5	132	8	470	48
206	SCRS_206_08	7.6	131	0.25	15	0.5	20	2	110	33
261	SCRS_261_08	24.7	167	0.25	25	0.5	588	45	1100	43
262	SCRS_262_08	2.6	30	0.25	6	0.5	136	8	3790	9
263	SCRS_263_08	9.5	117	0.25	7	0.5	118	6	990	40
264	SCRS_264_08	1.7	29	0.25	4	0.5	20	1	860	6
265	SCRS_265_08	1	35	0.25	25	0.5	34	2	320	6
266	SCRS_266_08	0.25	11	0.25	2	0.5	23	1	1930	2.5
267	SCRS_267_08	1.4	4	0.25	8	0.5	25	1	2040	2.5
268	SCRS_268_08	0.25	4	0.25	7	0.5	2.5	0.5	790	2.5
269	SCRS_269_08	45.8	412	0.25	52	2	1050	47	1490	116
270	SCRS_270_08	14	50	0.25	117	0.5	499	30	660	64
31	SCRS_31_08	1.9	10	0.25	6	0.5	37	2	90	2.5
32	SCRS_32_08	22.7	83	0.25	18	2	2100	80	130	67
33	SCRS_33_08	0.25	1.5	0.25	2	0.5	13	0.5	100	2.5
34	SCRS_34_08	0.25	1.5	0.25	2	0.5	10	0.5	510	2.5
35	SCRS_35_08	5.5	28	0.25	5	0.5	90	6	30	14
36	SCRS_36_08	16.2	193	0.25	7	0.5	24	2	480	24
37	SCRS_37_08	4.7	1.5	0.25	5	0.5	37	2	70	2.5
38	SCRS_38_08	10.3	20	0.25	10	0.5	71	6	370	2.5
39	SCRS_39_08	13	17	0.25	4	0.5	75	5	140	2.5
40	SCRS_40_08	4.8	1.5	0.25	2	0.5	104	5	260	2.5
41	SCRS_41_08	0.5	1.5	0.25	3	0.5	18	2	280	2.5
42	SCRS_42_08	0.25	1.5	0.25	8	0.5	11	1	1110	2.5
80	SCRS_80_08	19.8	48	0.25	22	0.5	95	8	320	26
81	SCRS_81_08	3	1.5	0.25	7	0.5	52	3	60	2.5
82	SCRS_82_08	14.4	17	0.25	6	0.5	122	9	50	10
83	SCRS_83_08	15.8	61	0.25	97	0.5	166	12	80	17
84	SCRS_84_08	64.1	2330	0.5	13	3	1680	95	350	119
85	SCRS_85_08	12	1310	0.25	5	0.5	207	12	210	41
86	SCRS_86_08	10.9	708	0.25	2	0.5	107	14	670	31
87	SCRS_87_08	5.5	243	0.25	2	0.5	60	7	60	17
88	SCRS_88_08	6.9	13	0.25	7	0.5	26	2	140	2.5
89	SCRS_89_08	10.1	211	0.25	10	0.5	90	5	190	40
90	SCRS_90_08	0.6	10	0.25	1	0.5	13	0.5	880	2.5
91	SCRS_91_08	1.2	6	0.25	3	0.5	46	3	130	2.5
92	SCRS_92_08	2.9	27	0.25	8	0.5	31	2	310	2.5
93	SCRS_93_08	0.7	11	0.25	7	0.5	28	2	2030	2.5
94	SCRS_94_08	4.6	55	0.25	24	0.5	59	4	30	10
95	SCRS_95_08	2.9	14	0.25	4	0.5	23	2	750	2.5
96	SCRS_96_08	3.8	29	0.25	7	0.5	71	5	130	10
967	SCRS_967_08	5.8	18	0.25	17	0.5	21	2	30	2.5
968	SCRS_968_08	2.5	22	0.25	8	0.5	34	2	30	8
97	SCRS_97_08	43.4	680	0.25	31	0.5	344	26	250	117
	SCRS_980_08	2.5	5	0.25	2	0.5	53	3	70	7

SGS

Certificate of Analysis

Work Order: TO102352

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
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Date: Sep 16, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	42
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 42 Soils

Certified By : ____________________
Gavin McGill
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
n.a. = Not applicable
I.S. = Insufficient Sample
– = 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

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
CHYS_545_08	18	186	10	<0.1	1160	<1	690	18	829	334
*Rep CHYS_545_08	17	174	10	<0.1	1110	<1	700	17	958	283
SCRS_1_08	<1	24	10	<0.1	840	<1	730	6	10	146
SCRS_2_08	10	23	10	0.2	1590	<1	670	9	238	176
SCRS_3_08	18	17	30	0.7	3460	<1	690	5	92	136
SCRS_4_08	3	43	<10	0.1	920	<1	650	41	23	84
SCRS_5_08	<1	34	<10	<0.1	320	<1	550	8	<5	55
SCRS_6_08	<1	15	10	<0.1	290	<1	450	7	57	162
SCRS_7_08	30	11	<10	0.6	1240	<1	580	15	<5	31
SCRS_8_08	13	35	<10	<0.1	1740	<1	590	9	229	246
SCRS_9_08	<1	4	70	<0.1	220	<1	690	33	8	85
SCRS_10_08	<1	1	10	<0.1	290	<1	530	3	<5	63
SCRS_11_08	<1	43	<10	0.1	340	<1	660	4	37	88
SCRS_12_08	1	110	10	<0.1	1220	<1	80	6	70	355
*Rep SCRS_12_08	<1	102	10	<0.1	1160	1	80	4	57	286
SCRS_13_08	<1	<1	<10	<0.1	2070	<1	80	10	7	299
SCRS_14_08	8	<1	40	<0.1	2240	1	30	24	177	455
SCRS_15_08	7	<1	10	<0.1	1890	<1	50	8	121	131
SCRS_16_08	<1	25	<10	<0.1	510	<1	730	52	26	24
SCRS_17_08	<1	17	<10	<0.1	910	<1	660	47	8	70
SCRS_18_08	3	<1	<10	<0.1	2220	<1	100	81	75	104
SCRS_19_08	3	42	<10	<0.1	980	<1	770	19	25	22
SCRS_20_08	11	53	<10	<0.1	1600	<1	730	7	26	13
SCRS_21_08	<1	24	<10	<0.1	590	<1	740	14	5	9
SCRS_22_08	<1	47	<10	<0.1	440	<1	700	16	10	11
SCRS_23_08	<1	49	<10	<0.1	460	<1	680	14	<5	8
SCRS_24_08	9	19	20	0.2	960	<1	750	6	122	136
*Rep SCRS_24_08	9	17	10	0.2	750	<1	750	7	103	110
SCRS_25_08	12	15	<10	0.2	600	<1	730	15	93	379
SCRS_26_08	1	33	10	<0.1	350	<1	570	4	54	173
SCRS_27_08	17	13	<10	0.2	480	<1	650	13	18	65
SCRS_28_08	<1	14	<10	<0.1	190	<1	500	5	15	211
SCRS_29_08	10	35	<10	0.2	900	<1	1090	10	49	173
SCRS_30_08	4	27	10	0.2	1010	<1	710	12	97	151
SCRS_43_08	<1	31	<10	<0.1	470	<1	680	7	5	14
SCRS_44_08	<1	64	<10	<0.1	480	<1	660	29	42	25
SCRS_45_08	2	11	<10	<0.1	300	<1	610	23	<5	10
SCRS_46_08	<1	18	<10	<0.1	250	<1	620	14	<5	8
SCRS_47_08	<1	60	<10	<0.1	390	<1	580	44	11	17
SCRS_48_08	45	12	<10	1.2	720	<1	490	10	<5	21
*Rep SCRS_48_08	44	13	<10	1.3	710	<1	470	12	<5	41
SCRS_49_08	2	26	<10	<0.1	890	<1	600	5	237	75
SCRS_51_08	<1	27	<10	<0.1	280	<1	620	10	6	40

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
SCRS_52_08	10	15	<10	<0.1	190	<1	630	25	25	25
SCRS_53_08	8	64	<10	<0.1	630	<1	580	10	<5	<5
SCRS_54_08	6	41	<10	<0.1	530	<1	600	15	<5	<5
*Std MMISRM16	17	63	20	28.2	90	<1	250	5	27	77
*Std MMISRM16	17	59	20	28.4	90	<1	240	5	27	77
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
CHYS_545_08	<100	260	187	115	38.7	44	191	391	7	92
*Rep CHYS_545_08	<100	230	177	107	39.8	36	195	438	7	90
SCRS_1_08	<100	1540	1	0.7	<0.5	24	2	4	<5	30
SCRS_2_08	<100	2710	27	15.0	8.2	93	38	81	<5	14
SCRS_3_08	<100	4680	14	7.5	3.7	55	19	24	<5	12
SCRS_4_08	<100	1000	5	3.1	1.1	47	6	11	<5	10
SCRS_5_08	<100	220	<1	<0.5	<0.5	19	<1	1	<5	6
SCRS_6_08	<100	1350	6	4.9	1.4	62	7	21	<5	11
SCRS_7_08	<100	910	7	3.2	1.5	10	9	4	<5	7
SCRS_8_08	<100	1260	18	10.3	5.6	56	28	79	<5	11
SCRS_9_08	<100	30	8	5.4	1.0	15	6	3	<5	45
SCRS_10_08	<100	30	<1	0.7	<0.5	11	<1	<1	<5	95
SCRS_11_08	<100	1410	7	4.8	1.6	56	8	13	<5	11
SCRS_12_08	<100	1020	12	5.9	2.8	437	12	41	<5	12
*Rep SCRS_12_08	<100	1190	9	5.0	2.1	441	10	31	<5	13
SCRS_13_08	<100	100	1	1.9	<0.5	109	<1	5	19	99
SCRS_14_08	200	610	31	13.9	7.7	196	34	84	<5	7
SCRS_15_08	<100	1240	21	10.1	5.7	92	24	57	<5	14
SCRS_16_08	<100	140	12	6.7	2.6	20	13	14	5	30
RS_17_08	<100	30	4	2.8	<0.5	10	3	3	<5	25
RS_18_08	<100	310	12	6.6	2.5	88	11	24	<5	13
SCRS_19_08	<100	160	12	5.5	4.6	21	16	14	<5	37
SCRS_20_08	<100	220	43	19.4	13.5	15	57	48	<5	3
SCRS_21_08	<100	70	9	4.7	1.8	13	11	5	<5	10
SCRS_22_08	<100	30	10	5.6	2.1	12	12	12	<5	30
SCRS_23_08	<100	20	5	2.9	0.8	6	5	3	<5	4
SCRS_24_08	<100	3170	15	6.6	5.3	43	23	43	<5	16
*Rep SCRS_24_08	<100	2320	12	5.8	4.6	40	19	36	<5	15
SCRS_25_08	<100	4990	11	8.7	3.6	58	17	36	<5	20
SCRS_26_08	<100	1890	8	5.5	1.8	54	9	18	<5	3
SCRS_27_08	<100	310	7	3.5	1.8	25	10	9	<5	6
SCRS_28_08	<100	940	2	1.7	<0.5	31	2	5	<5	4
SCRS_29_08	<100	2070	8	4.3	2.2	18	11	19	<5	19
SCRS_30_08	<100	2030	18	10.7	5.0	80	22	36	<5	25
SCRS_43_08	<100	110	2	1.2	0.5	15	3	4	<5	9
SCRS_44_08	<100	70	17	11.4	2.8	25	16	13	<5	6
SCRS_45_08	<100	50	3	1.9	<0.5	10	2	1	<5	13
SCRS_46_08	<100	20	1	0.8	<0.5	6	<1	1	<5	17
SCRS_47_08	<100	30	5	3.2	0.6	15	4	4	<5	13
SCRS_48_08	<100	240	10	4.1	2.7	6	16	2	<5	17
*Rep SCRS_48_08	<100	250	10	4.1	2.5	5	15	2	<5	17
SCRS_49_08	<100	1190	24	14.1	7.0	72	35	70	<5	14
SCRS_51_08	<100	80	2	1.1	<0.5	11	2	2	<5	15

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_52_08	<100	270	7	3.5	1.6	17	9	7	<5	24
SCRS_53_08	<100	230	4	2.3	1.3	11	6	9	<5	9
SCRS_54_08	<100	460	3	1.8	0.9	10	4	6	<5	18
*Std MMISRM16	<100	700	4	1.3	1.6	4	7	7	<5	39
*Std MMISRM16	<100	730	4	1.4	1.7	4	7	8	<5	39
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	<5	<0.5	576	3400	630	<1	132	<1	167	<1
*Rep CHYS_545_08	<5	<0.5	615	3130	560	<1	142	<1	162	<1
SCRS_1_08	11	0.9	7	497	60	<1	2	<1	<5	<1
SCRS_2_08	6	1.6	149	184	180	<1	32	<1	10	2
SCRS_3_08	10	1.8	56	417	70	<1	12	<1	<5	4
SCRS_4_08	<5	0.6	18	564	230	<1	4	<1	8	2
SCRS_5_08	6	<0.5	1	43	40	<1	<1	<1	13	1
SCRS_6_08	<5	1.0	32	213	20	<1	8	<1	31	<1
SCRS_7_08	<5	<0.5	13	120	80	<1	2	<1	21	<1
SCRS_8_08	<5	<0.5	125	129	20	<1	29	<1	22	<1
SCRS_9_08	<5	<0.5	7	86	90	<1	1	<1	72	<1
SCRS_10_08	<5	<0.5	1	190	50	<1	<1	<1	15	<1
SCRS_11_08	<5	1.0	22	389	110	<1	5	<1	9	<1
SCRS_12_08	<5	2.3	49	722	30	<1	12	<1	41	<1
*Rep SCRS_12_08	<5	2.8	37	591	30	<1	9	<1	44	<1
SCRS_13_08	<5	<0.5	4	599	<10	<1	1	<1	17	<1
SCRS_14_08	<5	5.5	110	249	890	<1	26	<1	99	1
SCRS_15_08	<5	2.5	86	300	630	<1	19	<1	115	<1
SCRS_16_08	<5	<0.5	26	564	40	<1	5	<1	31	<1
RS_17_08	<5	<0.5	5	39	80	<1	<1	<1	20	<1
RS_18_08	<5	2.6	32	136	420	<1	8	<1	120	<1
SCRS_19_08	<5	<0.5	31	448	50	<1	6	<1	33	<1
SCRS_20_08	<5	<0.5	106	177	70	<1	20	<1	21	<1
SCRS_21_08	<5	<0.5	17	135	<10	<1	3	<1	25	<1
SCRS_22_08	<5	<0.5	26	109	30	<1	5	<1	28	<1
SCRS_23_08	<5	<0.5	9	45	30	<1	2	<1	9	<1
SCRS_24_08	14	1.4	88	580	90	<1	19	<1	11	2
*Rep SCRS_24_08	9	1.1	76	438	60	<1	16	<1	9	1
SCRS_25_08	8	1.1	66	3310	70	<1	14	<1	15	<1
SCRS_26_08	<5	1.3	32	277	50	<1	7	<1	12	1
SCRS_27_08	<5	<0.5	24	203	20	<1	5	<1	26	1
SCRS_28_08	6	1.1	8	228	30	<1	2	<1	7	2
SCRS_29_08	<5	0.7	32	1470	40	<1	7	<1	13	2
SCRS_30_08	7	1.7	66	580	110	<1	14	<1	27	1
SCRS_43_08	<5	<0.5	7	87	20	<1	2	<1	11	<1
SCRS_44_08	<5	<0.5	28	97	160	<1	6	<1	6	<1
SCRS_45_08	<5	<0.5	2	82	20	<1	<1	<1	25	<1
SCRS_46_08	<5	<0.5	2	61	20	<1	<1	<1	20	<1
SCRS_47_08	<5	<0.5	8	47	170	<1	2	<1	5	<1
SCRS_48_08	<5	<0.5	21	130	20	<1	2	<1	28	<1
*Rep SCRS_48_08	<5	<0.5	19	126	20	<1	2	<1	36	<1
SCRS_49_08	<5	0.7	127	54	20	<1	27	<1	38	<1
SCRS_51_08	<5	<0.5	4	57	40	<1	<1	<1	8	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	<5	<0.5	19	219	20	<1	4	<1	25	<1
SCRS_53_08	<5	<0.5	16	76	20	<1	3	<1	27	<1
SCRS_54_08	<5	<0.5	12	118	10	<1	2	<1	26	<1
*Std MMISRM16	55	<0.5	24	288	150	29	4	<1	378	<1
*Std MMISRM16	57	<0.5	24	292	150	31	4	<1	380	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	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
CHYS_545_08	129	143	<1	3430	<1	32	<10	175	9	4.5
*Rep CHYS_545_08	119	155	<1	3420	<1	31	<10	156	11	4.3
SCRS_1_08	<5	2	<1	4210	<1	<1	<10	4.3	32	<0.5
SCRS_2_08	14	36	<1	3140	<1	6	<10	29.5	17	<0.5
SCRS_3_08	8	16	<1	3740	<1	3	<10	27.1	18	<0.5
SCRS_4_08	5	5	<1	2570	<1	<1	<10	3.4	27	<0.5
SCRS_5_08	<5	<1	<1	1850	<1	<1	<10	0.8	28	<0.5
SCRS_6_08	19	7	<1	1870	<1	1	<10	8.2	70	<0.5
SCRS_7_08	<5	5	<1	1740	<1	1	<10	2.6	7	<0.5
SCRS_8_08	29	26	<1	2800	<1	4	<10	14.7	11	<0.5
SCRS_9_08	<5	3	<1	2460	<1	1	<10	0.9	20	<0.5
SCRS_10_08	8	<1	<1	5360	<1	<1	<10	<0.5	17	<0.5
SCRS_11_08	8	6	<1	3460	<1	1	<10	5.5	60	0.6
SCRS_12_08	29	11	<1	510	<1	2	<10	16.5	749	<0.5
*Rep SCRS_12_08	28	8	<1	510	<1	2	<10	15.7	879	<0.5
SCRS_13_08	13	<1	<1	1130	<1	<1	<10	2.1	33	<0.5
SCRS_14_08	51	30	<1	230	<1	6	<10	81.6	2760	<0.5
SCRS_15_08	27	20	<1	370	<1	4	<10	31.6	1100	<0.5
SCRS_16_08	<5	8	<1	4170	<1	2	<10	3.5	11	<0.5
SCRS_17_08	<5	2	<1	4000	<1	<1	<10	1.0	22	<0.5
SCRS_18_08	31	8	<1	790	<1	2	<10	18.1	1110	<0.5
SCRS_19_08	9	11	<1	4740	<1	2	<10	2.1	11	0.6
SCRS_20_08	8	37	<1	3230	<1	8	<10	5.4	5	<0.5
SCRS_21_08	<5	7	<1	5130	<1	2	<10	3.9	13	<0.5
SCRS_22_08	5	8	<1	3230	<1	2	<10	4.2	29	<0.5
SCRS_23_08	<5	3	<1	2680	<1	<1	<10	0.8	21	<0.5
SCRS_24_08	8	22	<1	3530	<1	3	<10	22.8	46	<0.5
*Rep SCRS_24_08	6	18	<1	3490	<1	3	<10	16.1	36	<0.5
SCRS_25_08	10	15	<1	4290	<1	2	<10	13.4	41	<0.5
SCRS_26_08	7	7	<1	1790	<1	2	<10	6.0	37	<0.5
SCRS_27_08	<5	7	<1	2920	<1	1	<10	4.2	13	<0.5
SCRS_28_08	<5	2	<1	1740	<1	<1	<10	1.4	36	<0.5
SCRS_29_08	<5	8	<1	6860	<1	2	<10	6.8	12	<0.5
SCRS_30_08	14	18	<1	3850	<1	3	<10	16.7	57	0.6
SCRS_43_08	<5	2	<1	4240	<1	<1	<10	1.6	9	<0.5
SCRS_44_08	6	10	<1	3310	<1	3	<10	2.5	14	<0.5
SCRS_45_08	<5	1	<1	2710	<1	<1	<10	0.7	20	<0.5
SCRS_46_08	<5	<1	<1	2300	<1	<1	<10	<0.5	21	<0.5
SCRS_47_08	<5	2	<1	1660	<1	<1	<10	1.3	24	<0.5
SCRS_48_08	<5	10	<1	1420	<1	2	<10	3.9	7	<0.5
*Rep SCRS_48_08	<5	10	<1	1380	<1	2	<10	4.2	4	<0.5
SCRS_49_08	16	30	<1	4250	<1	5	<10	16.4	16	<0.5
SCRS_51_08	<5	1	<1	3130	<1	<1	<10	1.3	13	<0.5

Final : TO102352 Order:

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	<5	6	<1	1430	<1	1	<10	5.7	23	<0.5
SCRS_53_08	<5	4	<1	1410	<1	<1	<10	3.5	10	<0.5
SCRS_54_08	<5	3	<1	1520	<1	<1	<10	2.5	12	<0.5
*Std MMISRM16	16	7	<1	510	<1	<1	<10	34.1	6	<0.5
*Std MMISRM16	15	7	<1	520	<1	<1	<10	34.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

SGS

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	71	<1	1160	87	440	216
*Rep CHYS_545_08	69	<1	1080	80	370	227
SCRS_1_08	6	<1	8	<1	30	<5
SCRS_2_08	9	<1	174	13	80	41
SCRS_3_08	20	1	82	7	40	43
SCRS_4_08	15	<1	39	3	1240	7
SCRS_5_08	4	<1	<5	<1	1740	<5
SCRS_6_08	6	<1	44	5	110	31
SCRS_7_08	5	<1	45	2	170	9
SCRS_8_08	11	<1	130	10	<20	29
SCRS_9_08	1	<1	44	4	1130	<5
SCRS_10_08	41	<1	6	<1	570	<5
SCRS_11_08	16	<1	54	4	100	8
SCRS_12_08	6	<1	47	4	160	26
*Rep SCRS_12_08	6	<1	36	4	140	26
SCRS_13_08	<1	<1	6	3	410	6
SCRS_14_08	13	1	115	10	780	130
SCRS_15_08	8	<1	102	7	190	108
SCRS_16_08	8	<1	92	5	550	<5
~RS_17_08	2	<1	22	2	1830	<5
RS_18_08	8	<1	62	5	710	98
SCRS_19_08	8	<1	73	4	160	<5
SCRS_20_08	9	<1	260	12	200	13
SCRS_21_08	10	<1	54	3	60	5
SCRS_22_08	13	<1	67	4	200	6
SCRS_23_08	4	<1	35	2	300	<5
SCRS_24_08	9	<1	80	5	120	14
*Rep SCRS_24_08	8	<1	71	5	150	10
SCRS_25_08	9	<1	100	9	150	10
SCRS_26_08	12	<1	69	5	210	9
SCRS_27_08	5	<1	48	3	470	<5
SCRS_28_08	8	<1	16	2	290	13
SCRS_29_08	38	<1	56	3	100	7
SCRS_30_08	7	<1	119	11	220	13
SCRS_43_08	7	<1	16	<1	70	<5
SCRS_44_08	26	<1	139	8	170	8
SCRS_45_08	4	<1	21	1	1030	<5
SCRS_46_08	5	<1	8	<1	1210	<5
SCRS_47_08	10	<1	38	3	3970	5
SCRS_48_08	3	<1	60	3	120	<5
*Rep SCRS_48_08	3	<1	57	3	180	<5
SCRS_49_08	11	<1	182	11	40	33
SCRS_51_08	4	<1	13	<1	420	<5

SGS

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	3	<1	48	3	470	<5
SCRS_53_08	7	<1	30	2	180	11
SCRS_54_08	3	<1	22	1	170	7
*Std MMISRM16	54	<1	14	<1	250	18
*Std MMISRM16	56	<1	15	1	250	18
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

Certificate of Analysis

Work Order: TO102354

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 23, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	81
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 81 Soils

Certified By : ____________________
Gavin McGill
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

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
SCRS_31_08	4	67	<10	0.1	340	<1	570	11	20	34
*Rep SCRS_31_08	3	71	<10	0.1	360	<1	560	9	15	22
SCRS_32_08	17	81	<10	0.2	600	<1	390	7	725	16
SCRS_33_08	10	34	<10	0.1	110	<1	390	11	<5	<5
SCRS_34_08	2	18	<10	<0.1	80	<1	340	12	<5	<5
SCRS_35_08	1	35	<10	<0.1	330	<1	590	6	75	78
SCRS_36_08	1	26	<10	0.1	150	<1	320	3	28	188
SCRS_37_08	22	2	<10	0.1	50	<1	650	7	<5	56
SCRS_38_08	<1	14	<10	0.1	140	<1	630	3	37	237
SCRS_39_08	<1	11	10	0.2	130	<1	670	1	48	545
SCRS_40_08	21	10	<10	0.2	160	<1	810	23	5	14
SCRS_41_08	1	8	<10	<0.1	60	<1	490	11	<5	<5
SCRS_42_08	1	40	<10	<0.1	50	<1	390	14	<5	<5
SCRS_80_08	4	57	<10	1.9	370	<1	370	22	176	721
*Rep SCRS_80_08	3	48	<10	1.6	380	<1	350	14	206	695
SCRS_81_08	40	10	<10	0.3	150	<1	510	12	11	72
SCRS_82_08	10	33	<10	0.2	380	<1	540	3	73	229
SCRS_83_08	6	103	<10	0.1	370	<1	520	10	93	163
SCRS_84_08	5	197	30	0.2	2100	<1	110	13	588	197
RS_85_08	3	186	<10	0.1	970	<1	160	6	128	208
RS_86_08	<1	248	<10	<0.1	590	<1	20	3	14	181
SCRS_87_08	2	267	<10	<0.1	340	<1	40	5	9	71
SCRS_88_08	4	17	<10	<0.1	190	<1	620	3	19	124
SCRS_89_08	3	122	<10	<0.1	620	<1	290	5	18	67
SCRS_90_08	1	5	<10	<0.1	150	<1	810	9	<5	<5
SCRS_91_08	4	70	<10	<0.1	60	<1	540	18	<5	<5
SCRS_92_08	1	49	<10	<0.1	190	<1	710	4	28	155
*Rep SCRS_92_08	1	51	<10	<0.1	220	<1	680	4	35	201
SCRS_93_08	2	48	<10	0.1	80	<1	680	16	<5	<5
SCRS_94_08	<1	48	<10	0.1	270	<1	640	1	49	422
SCRS_95_08	<1	22	<10	0.1	80	<1	580	5	9	52
SCRS_96_08	2	66	<10	0.2	180	<1	640	9	28	185
SCRS_97_08	16	136	10	0.5	1650	<1	160	10	85	317
SCRS_131_08	3	25	<10	<0.1	80	<1	390	19	<5	<5
SCRS_132_08	7	32	<10	<0.1	70	<1	450	17	<5	<5
SCRS_133_08	5	86	<10	0.1	140	<1	690	17	36	11
SCRS_134_08	15	165	<10	0.2	810	<1	420	12	145	29
SCRS_135_08	106	4	<10	0.2	130	<1	550	5	17	11
SCRS_136_08	10	124	<10	0.4	1160	<1	530	6	167	336
SCRS_137_08	12	27	<10	0.2	310	<1	780	9	26	67
*Rep SCRS_137_08	7	27	<10	0.1	260	<1	700	9	24	67
SCRS_138_08	1	>300	30	<0.1	530	<1	10	6	52	55
SCRS_139_08	3	129	30	0.4	2460	<1	30	2	46	200

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
SCRS_140_08	6	45	10	0.2	1180	<1	540	5	70	326
SCRS_141_08	2	61	<10	<0.1	430	<1	760	8	26	45
SCRS_142_08	<1	28	20	0.3	490	<1	580	5	15	93
SCRS_143_08	1	>300	<10	<0.1	520	<1	20	6	101	40
SCRS_144_08	<1	66	40	0.1	970	<1	180	1	38	193
SCRS_145_08	2	103	60	0.4	2830	<1	20	4	51	183
SCRS_146_08	8	264	<10	0.4	480	<1	<10	11	41	27
SCRS_147_08	1	167	<10	0.2	650	<1	20	1	6	12
SCRS_148_08	9	7	<10	0.4	410	<1	570	3	<5	34
SCRS_159_08	2	46	<10	<0.1	190	<1	770	12	<5	<5
*Rep SCRS_159_08	1	48	<10	<0.1	120	<1	640	13	<5	<5
SCRS_160_08	<1	269	<10	0.1	260	<1	90	8	6	41
SCRS_161_08	23	119	<10	0.3	1020	<1	790	18	107	116
SCRS_162_08	<1	106	<10	<0.1	290	<1	510	12	14	23
SCRS_163_08	<1	57	<10	<0.1	190	<1	620	42	19	73
SCRS_164_08	1	>300	<10	<0.1	380	<1	10	9	8	100
SCRS_165_08	<1	36	<10	<0.1	300	<1	640	12	5	10
SCRS_166_08	3	180	20	<0.1	1360	1	90	4	132	208
SCRS_167_08	4	199	<10	0.1	4880	<1	120	3	17	180
RS_168_08	9	128	10	0.6	1100	<1	20	3	6	26
RS_169_08	2	89	<10	0.1	1630	<1	50	3	16	60
SCRS_175_08	14	158	<10	0.3	580	<1	290	1	413	465
SCRS_176_08	7	41	<10	<0.1	160	<1	710	6	30	20
*Rep SCRS_176_08	6	40	<10	<0.1	130	<1	750	7	20	13
SCRS_177_08	15	22	<10	0.1	200	<1	630	3	6	65
SCRS_178_08	1	>300	<10	<0.1	410	<1	<10	1	12	72
SCRS_179_08	<1	253	40	<0.1	430	1	30	3	165	47
SCRS_180_08	1	282	20	<0.1	910	1	20	9	83	274
SCRS_181_08	<1	60	20	0.1	530	<1	430	3	23	352
SCRS_182_08	1	>300	<10	0.1	600	<1	20	11	16	150
SCRS_206_08	4	76	<10	0.1	2070	<1	210	4	9	156
SCRS_261_08	1	243	<10	<0.1	880	<1	340	137	45	245
SCRS_262_08	<1	90	<10	<0.1	430	<1	660	93	49	19
SCRS_263_08	<1	140	<10	<0.1	250	<1	430	51	28	27
SCRS_264_08	1	43	<10	<0.1	280	<1	580	17	12	64
SCRS_265_08	<1	76	<10	<0.1	210	<1	710	19	7	37
*Rep SCRS_265_08	<1	68	<10	<0.1	190	<1	660	28	6	46
SCRS_266_08	<1	24	<10	<0.1	290	<1	800	19	<5	23
SCRS_267_08	2	23	<10	<0.1	330	<1	740	60	<5	<5
SCRS_268_08	<1	7	<10	<0.1	90	<1	520	14	<5	11
SCRS_269_08	6	144	20	0.2	6980	<1	360	48	962	840
SCRS_270_08	18	130	<10	0.3	4570	<1	500	42	192	337
SCRS_967_08	2	10	20	0.3	210	<1	480	3	19	95

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
SCRS_968_08	4	53	<10	0.1	220	<1	710	5	20	141
SCRS_980_08	33	18	<10	0.4	160	<1	590	7	6	9
*Std MMISRM16	17	43	10	27.1	30	<1	280	3	10	51
*Std MMISRM16	16	47	20	25.8	50	<1	280	3	11	56
*Std MMISRM16	16	49	10	26.0	160	<1	280	3	14	55
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	2	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_31_08	<100	160	5	2.6	1.5	16	7	10	<5	2
*Rep SCRS_31_08	<100	110	4	2.5	1.4	13	7	9	<5	2
SCRS_32_08	<100	740	172	107	35.0	30	208	147	<5	5
SCRS_33_08	<100	100	1	1.2	<0.5	6	1	<1	<5	4
SCRS_34_08	<100	30	1	1.0	<0.5	4	<1	<1	<5	7
SCRS_35_08	<100	360	10	6.0	2.3	79	13	22	<5	4
SCRS_36_08	<100	350	3	1.8	1.2	104	6	11	<5	42
SCRS_37_08	<100	910	4	2.2	0.8	12	5	<1	<5	29
SCRS_38_08	<100	1920	8	5.3	1.9	95	9	14	<5	13
SCRS_39_08	<100	2190	8	4.8	2.1	90	11	15	<5	19
SCRS_40_08	<100	350	12	6.0	2.7	8	15	3	<5	10
SCRS_41_08	<100	10	2	1.7	<0.5	5	1	<1	<5	9
SCRS_42_08	<100	10	1	0.8	<0.5	7	<1	<1	<5	5
SCRS_80_08	<100	2450	16	8.4	4.5	201	20	35	<5	19
*Rep SCRS_80_08	<100	2800	16	9.1	4.8	234	22	40	<5	17
SCRS_81_08	<100	1540	6	3.4	1.3	9	8	3	<5	13
SCRS_82_08	<100	1230	15	8.4	4.1	95	21	28	<5	24
SCRS_83_08	<100	1210	24	12.8	5.3	116	28	44	<5	9
SCRS_84_08	<100	750	203	113	48.0	80	242	333	<5	6
RS_85_08	<100	1430	29	15.9	6.4	45	34	63	<5	18
RS_86_08	<100	1320	15	14.0	1.3	176	6	7	<5	4
SCRS_87_08	<100	830	10	7.5	1.0	114	4	4	<5	4
SCRS_88_08	<100	1030	3	1.8	0.8	58	4	8	<5	45
SCRS_89_08	<100	400	14	7.4	2.7	230	16	9	<5	13
SCRS_90_08	<100	60	1	0.7	<0.5	5	2	<1	<5	39
SCRS_91_08	<100	20	5	3.4	0.6	7	4	1	<5	6
SCRS_92_08	<100	550	3	2.2	0.9	42	5	10	<5	5
*Rep SCRS_92_08	<100	870	4	2.4	1.2	55	6	12	<5	5
SCRS_93_08	<100	10	3	1.8	<0.5	8	3	1	<5	5
SCRS_94_08	<100	1170	7	4.0	1.7	113	9	17	<5	11
SCRS_95_08	<100	660	3	1.6	0.5	55	3	4	<5	43
SCRS_96_08	<100	2020	8	5.2	1.8	57	8	12	<5	40
SCRS_97_08	<100	1820	44	29.3	7.5	265	38	44	<5	13
SCRS_131_08	<100	50	1	0.7	<0.5	5	<1	<1	<5	5
SCRS_132_08	<100	80	2	0.9	<0.5	6	1	<1	<5	4
SCRS_133_08	<100	140	17	10.2	3.0	14	16	11	<5	20
SCRS_134_08	<100	680	55	32.4	10.3	24	59	60	<5	17
SCRS_135_08	<100	500	6	2.5	1.6	7	10	6	<5	42
SCRS_136_08	<100	730	35	18.7	7.4	56	41	74	<5	18
SCRS_137_08	<100	380	4	2.1	1.2	28	5	7	<5	30
*Rep SCRS_137_08	<100	380	4	2.1	1.0	34	5	7	<5	30
SCRS_138_08	100	190	27	14.8	3.3	280	17	18	<5	2
SCRS_139_08	<100	3030	10	6.2	2.4	508	9	20	<5	6

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_140_08	<100	2770	8	4.7	2.5	138	12	25	<5	11
SCRS_141_08	<100	240	6	3.8	1.7	34	8	12	<5	5
SCRS_142_08	<100	2290	3	1.5	0.8	107	3	6	<5	21
SCRS_143_08	<100	110	12	5.0	3.7	64	16	40	<5	2
SCRS_144_08	<100	530	12	6.6	2.8	386	14	14	<5	65
SCRS_145_08	<100	3480	12	9.0	2.9	605	12	22	<5	7
SCRS_146_08	<100	290	25	13.0	3.5	72	17	15	<5	<1
SCRS_147_08	<100	160	1	0.9	<0.5	308	1	3	<5	1
SCRS_148_08	<100	480	1	0.9	<0.5	9	<1	<1	<5	44
SCRS_159_08	<100	30	<1	0.6	<0.5	7	1	1	<5	35
*Rep SCRS_159_08	<100	20	<1	<0.5	<0.5	6	<1	<1	<5	36
SCRS_160_08	<100	80	7	4.7	0.8	140	4	3	<5	13
SCRS_161_08	<100	1210	25	13.8	5.3	52	29	41	<5	20
SCRS_162_08	<100	70	5	2.8	1.0	38	5	6	<5	13
SCRS_163_08	<100	90	8	4.8	1.6	35	9	6	<5	16
SCRS_164_08	<100	210	14	9.3	1.3	203	6	3	<5	2
SCRS_165_08	<100	30	2	0.9	0.6	7	3	1	<5	79
SCRS_166_08	<100	240	28	8.9	10.4	76	54	52	<5	15
SCRS_167_08	<100	1260	5	3.8	1.6	380	3	8	<5	49
RS_168_08	<100	4070	3	2.9	0.9	449	3	3	6	6
RS_169_08	<100	420	2	2.2	0.9	482	2	8	8	14
SCRS_175_08	<100	1960	151	102	19.5	79	139	168	<5	166
SCRS_176_08	<100	120	13	6.2	3.7	12	21	14	<5	38
*Rep SCRS_176_08	<100	90	11	4.6	3.0	11	18	10	<5	34
SCRS_177_08	<100	290	3	1.7	1.1	8	5	3	<5	82
SCRS_178_08	<100	500	2	1.2	<0.5	217	2	6	<5	2
SCRS_179_08	<100	160	18	8.0	6.7	188	30	56	<5	3
SCRS_180_08	300	270	23	10.5	6.1	235	26	30	7	6
SCRS_181_08	<100	750	5	3.0	1.4	340	7	8	<5	72
SCRS_182_08	<100	130	22	12.9	2.0	126	12	6	<5	3
SCRS_206_08	<100	1550	3	2.1	0.8	500	2	4	<5	27
SCRS_261_08	<100	810	64	54.3	5.5	112	37	29	<5	34
SCRS_262_08	<100	90	15	9.9	2.5	16	15	13	<5	93
SCRS_263_08	<100	190	12	7.4	1.5	43	10	15	<5	39
SCRS_264_08	<100	500	2	1.0	0.7	66	3	5	<5	15
SCRS_265_08	<100	80	3	2.1	0.6	45	3	3	<5	17
*Rep SCRS_265_08	<100	90	3	2.1	<0.5	61	3	2	<5	17
SCRS_266_08	<100	40	3	1.4	0.5	9	3	2	<5	9
SCRS_267_08	<100	30	3	1.2	0.6	7	3	2	<5	168
SCRS_268_08	<100	50	<1	<0.5	<0.5	3	<1	<1	<5	21
SCRS_269_08	<100	1180	142	66.9	27.4	211	193	352	<5	76
SCRS_270_08	<100	1820	65	36.2	11.9	84	71	76	<5	139
SCRS_967_08	<100	3020	2	1.5	0.7	31	3	5	<5	22

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_968_08	<100	1160	3	2.2	1.0	43	4	10	<5	11
SCRS_980_08	<100	560	6	2.9	1.2	7	8	4	<5	4
*Std MMISRM16	<100	550	2	0.7	0.7	3	3	2	<5	41
*Std MMISRM16	<100	600	2	0.9	0.7	4	4	3	<5	39
*Std MMISRM16	<100	600	2	0.8	0.8	3	4	4	<5	41
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	3	<1	1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	2	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	<5	<0.5	19	84	30	<1	4	<1	23	<1
*Rep SCRS_31_08	<5	<0.5	19	73	30	<1	3	<1	23	<1
SCRS_32_08	<5	<0.5	460	635	150	<1	80	<1	25	<1
SCRS_33_08	<5	<0.5	1	175	<10	<1	<1	<1	8	<1
SCRS_34_08	<5	<0.5	<1	59	<10	<1	<1	<1	5	<1
SCRS_35_08	<5	1.0	40	73	30	<1	8	<1	10	<1
SCRS_36_08	9	0.9	17	196	120	<1	4	<1	26	2
SCRS_37_08	<5	<0.5	4	526	10	<1	<1	<1	5	<1
SCRS_38_08	9	<0.5	27	1220	110	<1	6	<1	5	1
SCRS_39_08	7	<0.5	30	1080	60	<1	6	<1	6	<1
SCRS_40_08	<5	<0.5	19	474	20	<1	2	<1	10	<1
SCRS_41_08	<5	<0.5	<1	69	20	<1	<1	<1	29	<1
SCRS_42_08	<5	<0.5	<1	62	<10	<1	<1	<1	6	<1
SCRS_80_08	<5	<0.5	64	601	50	<1	14	<1	21	<1
*Rep SCRS_80_08	<5	<0.5	69	547	60	<1	15	<1	20	<1
SCRS_81_08	<5	<0.5	12	305	<10	<1	2	<1	11	<1
SCRS_82_08	10	<0.5	53	418	20	<1	11	<1	7	<1
SCRS_83_08	<5	<0.5	69	388	190	<1	15	<1	26	<1
SCRS_84_08	<5	2.7	602	214	220	<1	125	<1	123	1
˜RS_85_08	<5	0.9	88	153	60	<1	19	<1	193	<1
,RS_86_08	<5	0.9	10	65	200	<1	2	<1	64	<1
SCRS_87_08	<5	<0.5	6	81	140	<1	1	<1	67	<1
SCRS_88_08	5	<0.5	12	305	50	<1	3	<1	<5	<1
SCRS_89_08	<5	0.8	18	122	110	<1	3	<1	100	<1
SCRS_90_08	<5	<0.5	3	102	<10	<1	<1	<1	10	<1
SCRS_91_08	<5	<0.5	5	153	<10	<1	<1	<1	6	<1
SCRS_92_08	7	<0.5	16	207	<10	<1	4	<1	5	<1
*Rep SCRS_92_08	7	0.5	21	228	<10	<1	4	<1	<5	<1
SCRS_93_08	<5	<0.5	4	85	<10	<1	<1	<1	6	<1
SCRS_94_08	<5	0.7	29	301	10	<1	6	<1	8	<1
SCRS_95_08	<5	<0.5	6	204	60	<1	1	<1	<5	<1
SCRS_96_08	<5	<0.5	23	313	<10	<1	5	<1	6	<1
SCRS_97_08	<5	1.1	75	474	90	<1	15	<1	64	2
SCRS_131_08	<5	<0.5	1	96	10	<1	<1	<1	9	<1
SCRS_132_08	<5	<0.5	1	167	<10	<1	<1	<1	10	<1
SCRS_133_08	<5	<0.5	26	131	100	<1	4	<1	8	<1
SCRS_134_08	<5	<0.5	119	287	70	<1	23	<1	53	<1
SCRS_135_08	<5	<0.5	23	177	<10	<1	3	<1	18	<1
SCRS_136_08	<5	<0.5	116	256	40	<1	25	<1	32	<1
SCRS_137_08	<5	<0.5	14	397	10	<1	3	<1	13	<1
*Rep SCRS_137_08	<5	<0.5	13	359	20	<1	2	<1	11	<1
SCRS_138_08	<5	7.8	32	91	320	<1	7	<1	109	<1
SCRS_139_08	<5	1.6	26	325	20	<1	6	<1	73	2

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	<5	1.4	41	101	60	<1	9	<1	32	<1
SCRS_141_08	<5	<0.5	22	143	20	<1	4	<1	18	<1
SCRS_142_08	6	0.7	10	307	30	<1	2	<1	5	<1
SCRS_143_08	<5	2.3	60	51	370	<1	14	<1	264	<1
SCRS_144_08	13	1.0	29	234	70	<1	5	<1	19	1
SCRS_145_08	13	2.6	31	542	20	<1	7	<1	90	3
SCRS_146_08	<5	0.9	36	87	220	<1	7	<1	138	<1
SCRS_147_08	<5	1.2	3	96	<10	<1	<1	<1	105	<1
SCRS_148_08	<5	<0.5	<1	534	<10	<1	<1	<1	30	<1
SCRS_159_08	<5	<0.5	3	72	20	<1	<1	<1	8	<1
*Rep SCRS_159_08	<5	<0.5	1	59	20	<1	<1	<1	6	<1
SCRS_160_08	<5	1.2	5	82	330	<1	<1	<1	25	<1
SCRS_161_08	<5	<0.5	65	623	70	<1	13	<1	22	<1
SCRS_162_08	<5	<0.5	12	71	120	<1	2	<1	13	<1
SCRS_163_08	<5	<0.5	14	62	190	<1	3	<1	7	<1
SCRS_164_08	<5	3.0	8	112	270	<1	1	<1	97	<1
SCRS_165_08	<5	<0.5	3	174	40	<1	<1	<1	<5	<1
SCRS_166_08	<5	2.0	88	155	480	<1	17	<1	159	<1
SCRS_167_08	<5	<0.5	9	392	<10	<1	2	<1	67	<1
˜RS_168_08	24	3.1	6	593	10	<1	1	<1	49	6
.RS_169_08	7	2.3	8	79	<10	<1	2	<1	12	<1
SCRS_175_08	<5	0.8	274	350	70	<1	54	<1	28	<1
SCRS_176_08	<5	<0.5	41	155	<10	<1	7	<1	46	<1
*Rep SCRS_176_08	<5	<0.5	34	141	<10	<1	5	<1	55	<1
SCRS_177_08	<5	<0.5	10	263	<10	<1	1	<1	14	<1
SCRS_178_08	<5	2.5	5	72	10	<1	1	<1	118	<1
SCRS_179_08	<5	7.0	98	65	380	<1	21	<1	241	<1
SCRS_180_08	<5	3.3	59	215	260	<1	12	<1	160	<1
SCRS_181_08	8	1.0	18	204	30	<1	3	<1	50	<1
SCRS_182_08	<5	1.6	13	108	240	<1	2	<1	114	<1
SCRS_206_08	<5	<0.5	5	1620	<10	<1	1	<1	27	<1
SCRS_261_08	<5	<0.5	62	117	4350	<1	12	<1	89	<1
SCRS_262_08	<5	<0.5	27	95	230	<1	5	<1	18	<1
SCRS_263_08	<5	<0.5	22	107	250	<1	5	<1	39	<1
SCRS_264_08	8	<0.5	8	341	30	<1	2	<1	<5	<1
SCRS_265_08	<5	<0.5	6	96	70	<1	1	<1	<5	<1
*Rep SCRS_265_08	<5	<0.5	4	73	80	<1	<1	<1	<5	<1
SCRS_266_08	<5	<0.5	4	84	40	<1	<1	<1	5	<1
SCRS_267_08	<5	<0.5	6	163	20	<1	<1	<1	23	<1
SCRS_268_08	<5	<0.5	<1	116	<10	<1	<1	<1	14	<1
SCRS_269_08	<5	1.4	558	625	150	<1	119	<1	66	1
SCRS_270_08	<5	<0.5	152	822	160	<1	30	<1	52	<1
SCRS_967_08	19	0.9	10	850	60	<1	2	<1	9	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	<5	0.6	16	220	10	<1	3	<1	14	<1
SCRS_980_08	<5	<0.5	13	137	<10	<1	2	<1	26	<1
*Std MMISRM16	38	<0.5	10	190	70	21	2	<1	318	<1
*Std MMISRM16	40	<0.5	11	212	80	20	2	<1	332	<1
*Std MMISRM16	40	<0.5	12	212	80	20	2	<1	325	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	5	5	<1	1200	<1	<1	<10	1.9	10	<0.5
*Rep SCRS_31_08	<5	5	<1	1200	<1	<1	<10	1.9	5	<0.5
SCRS_32_08	22	131	<1	1320	<1	29	<10	22.7	83	<0.5
SCRS_33_08	<5	<1	<1	1230	<1	<1	<10	<0.5	<3	<0.5
SCRS_34_08	<5	<1	<1	3250	<1	<1	<10	<0.5	<3	<0.5
SCRS_35_08	15	9	<1	3150	<1	2	<10	5.5	28	<0.5
SCRS_36_08	11	4	<1	1110	<1	<1	<10	16.2	193	<0.5
SCRS_37_08	<5	3	<1	2810	<1	<1	<10	4.7	<3	<0.5
SCRS_38_08	8	7	<1	3390	<1	1	<10	10.3	20	<0.5
SCRS_39_08	7	8	<1	3360	<1	2	<10	13.0	17	<0.5
SCRS_40_08	14	8	<1	4690	<1	2	<10	4.8	<3	<0.5
SCRS_41_08	<5	<1	<1	4160	<1	<1	<10	0.5	<3	<0.5
SCRS_42_08	<5	<1	<1	2830	<1	<1	<10	<0.5	<3	<0.5
SCRS_80_08	50	16	<1	1150	<1	3	<10	19.8	48	<0.5
*Rep SCRS_80_08	43	16	<1	1000	<1	3	<10	22.2	68	<0.5
SCRS_81_08	7	4	<1	1440	<1	1	<10	3.0	<3	<0.5
SCRS_82_08	17	14	<1	1320	<1	3	<10	14.4	17	<0.5
SCRS_83_08	43	19	<1	2320	<1	4	<10	15.8	61	<0.5
SCRS_84_08	356	161	<1	260	<1	37	<10	64.1	2330	0.5
RS_85_08	40	22	<1	330	<1	5	<10	12.0	1310	<0.5
RS_86_08	44	3	<1	110	<1	2	<10	10.9	708	<0.5
SCRS_87_08	23	2	<1	120	<1	1	<10	5.5	243	<0.5
SCRS_88_08	<5	3	<1	1690	<1	<1	<10	6.9	13	<0.5
SCRS_89_08	25	8	<1	1080	<1	3	<10	10.1	211	<0.5
SCRS_90_08	<5	<1	<1	2300	<1	<1	<10	0.6	10	<0.5
SCRS_91_08	<5	2	<1	1840	<1	<1	<10	1.2	6	<0.5
SCRS_92_08	<5	4	<1	2270	<1	<1	<10	2.9	27	<0.5
*Rep SCRS_92_08	6	4	<1	2230	<1	<1	<10	3.4	34	<0.5
SCRS_93_08	<5	2	<1	1710	<1	<1	<10	0.7	11	<0.5
SCRS_94_08	18	6	<1	2260	<1	1	<10	4.6	55	<0.5
SCRS_95_08	<5	2	<1	1350	<1	<1	<10	2.9	14	<0.5
SCRS_96_08	21	6	<1	690	<1	1	<10	3.8	29	<0.5
SCRS_97_08	151	23	<1	390	<1	7	<10	43.4	680	<0.5
SCRS_131_08	<5	<1	<1	1100	<1	<1	<10	<0.5	7	<0.5
SCRS_132_08	<5	<1	<1	1260	<1	<1	<10	<0.5	6	<0.5
SCRS_133_08	11	9	<1	1050	<1	3	<10	3.3	12	<0.5
SCRS_134_08	79	35	<1	630	<1	9	<10	12.0	42	<0.5
SCRS_135_08	16	7	<1	240	<1	1	<10	4.5	7	<0.5
SCRS_136_08	52	29	<1	1160	<1	6	<10	14.3	26	<0.5
SCRS_137_08	<5	4	<1	1230	<1	<1	<10	3.9	6	<0.5
*Rep SCRS_137_08	<5	3	<1	1160	<1	<1	<10	3.3	5	<0.5
SCRS_138_08	75	11	<1	70	<1	4	<10	61.8	2900	<0.5
SCRS_139_08	49	6	<1	250	<1	1	<10	31.2	477	0.7

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	31	9	<1	650	<1	2	<10	17.0	176	<0.5
SCRS_141_08	9	5	<1	820	<1	1	<10	2.4	16	<0.5
SCRS_142_08	11	3	<1	360	<1	<1	<10	2.9	63	<0.5
SCRS_143_08	23	13	<1	60	<1	2	<10	14.3	1350	<0.5
SCRS_144_08	47	10	<1	610	<1	2	<10	10.8	330	<0.5
SCRS_145_08	63	8	<1	260	<1	2	<10	29.0	721	<0.5
SCRS_146_08	46	11	<1	10	<1	4	<10	18.2	325	<0.5
SCRS_147_08	17	<1	<1	120	<1	<1	<10	9.7	364	<0.5
SCRS_148_08	<5	<1	<1	4710	<1	<1	<10	<0.5	4	<0.5
SCRS_159_08	<5	<1	<1	1110	<1	<1	<10	1.1	7	<0.5
*Rep SCRS_159_08	<5	<1	<1	940	<1	<1	<10	0.6	6	<0.5
SCRS_160_08	15	2	<1	280	<1	<1	<10	6.9	305	<0.5
SCRS_161_08	59	18	<1	780	<1	4	<10	9.9	18	<0.5
SCRS_162_08	13	3	<1	380	<1	<1	<10	2.6	88	<0.5
SCRS_163_08	7	5	<1	390	<1	1	<10	1.9	34	<0.5
SCRS_164_08	33	3	<1	60	<1	2	<10	15.1	944	<0.5
SCRS_165_08	<5	1	<1	3970	<1	<1	<10	<0.5	3	<0.5
SCRS_166_08	31	36	<1	210	<1	7	<10	41.5	1330	<0.5
SCRS_167_08	40	2	<1	1350	<1	<1	<10	18.7	97	<0.5
RS_168_08	19	2	<1	430	<1	<1	<10	5.1	894	2.1
RS_169_08	28	2	<1	430	<1	<1	<10	8.2	919	<0.5
SCRS_175_08	1060	79	<1	270	<1	24	<10	24.7	1420	<0.5
SCRS_176_08	18	15	<1	370	<1	3	<10	10.5	37	<0.5
*Rep SCRS_176_08	<5	12	<1	360	<1	2	<10	9.7	32	<0.5
SCRS_177_08	<5	3	<1	290	<1	<1	<10	1.8	13	<0.5
SCRS_178_08	18	<1	<1	70	<1	<1	<10	13.2	1340	<0.5
SCRS_179_08	50	24	<1	70	<1	4	<10	31.1	4350	<0.5
SCRS_180_08	82	18	<1	110	<1	4	<10	25.9	1470	<0.5
SCRS_181_08	30	5	<1	610	<1	1	<10	9.7	263	<0.5
SCRS_182_08	30	6	<1	90	<1	3	<10	19.6	651	<0.5
SCRS_206_08	30	1	<1	990	<1	<1	<10	7.6	131	<0.5
SCRS_261_08	118	19	<1	390	<1	8	<10	24.7	167	<0.5
SCRS_262_08	13	9	<1	510	<1	2	<10	2.6	30	<0.5
SCRS_263_08	30	6	<1	250	<1	2	<10	9.5	117	<0.5
SCRS_264_08	9	2	<1	3250	<1	<1	<10	1.7	29	<0.5
SCRS_265_08	8	2	<1	1260	<1	<1	<10	1.0	35	<0.5
*Rep SCRS_265_08	9	1	<1	1120	<1	<1	<10	0.9	60	<0.5
SCRS_266_08	<5	1	<1	760	<1	<1	<10	<0.5	11	<0.5
SCRS_267_08	<5	2	<1	610	<1	<1	<10	1.4	4	<0.5
SCRS_268_08	<5	<1	<1	680	<1	<1	<10	<0.5	4	<0.5
SCRS_269_08	159	134	<1	1280	<1	28	<10	45.8	412	<0.5
SCRS_270_08	116	45	<1	1090	<1	11	<10	14.0	50	<0.5
SCRS_967_08	<5	2	<1	3950	<1	<1	<10	5.8	18	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	5	4	<1	2710	<1	<1	<10	2.5	22	<0.5
SCRS_980_08	8	5	<1	1550	<1	1	<10	2.5	5	<0.5
*Std MMISRM16	9	3	<1	520	<1	<1	<10	19.7	<3	<0.5
*Std MMISRM16	10	3	<1	530	<1	<1	<10	22.6	<3	<0.5
*Std MMISRM16	10	3	<1	540	<1	<1	<10	22.2	3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	6	<1	37	2	90	<5
*Rep SCRS_31_08	6	<1	37	2	70	<5
SCRS_32_08	18	2	2100	80	130	67
SCRS_33_08	2	<1	13	<1	100	<5
SCRS_34_08	2	<1	10	<1	510	<5
SCRS_35_08	5	<1	90	6	30	14
SCRS_36_08	7	<1	24	2	480	24
SCRS_37_08	5	<1	37	2	70	<5
SCRS_38_08	10	<1	71	6	370	<5
SCRS_39_08	4	<1	75	5	140	<5
SCRS_40_08	2	<1	104	5	260	<5
SCRS_41_08	3	<1	18	2	280	<5
SCRS_42_08	8	<1	11	1	1110	<5
SCRS_80_08	22	<1	95	8	320	26
*Rep SCRS_80_08	21	<1	96	9	230	27
SCRS_81_08	7	<1	52	3	60	<5
SCRS_82_08	6	<1	122	9	50	10
SCRS_83_08	97	<1	166	12	80	17
SCRS_84_08	13	3	1680	95	350	119
RS_85_08	5	<1	207	12	210	41
RS_86_08	2	<1	107	14	670	31
SCRS_87_08	2	<1	60	7	60	17
SCRS_88_08	7	<1	26	2	140	<5
SCRS_89_08	10	<1	90	5	190	40
SCRS_90_08	1	<1	13	<1	880	<5
SCRS_91_08	3	<1	46	3	130	<5
SCRS_92_08	8	<1	31	2	310	<5
*Rep SCRS_92_08	9	<1	39	3	330	5
SCRS_93_08	7	<1	28	2	2030	<5
SCRS_94_08	24	<1	59	4	30	10
SCRS_95_08	4	<1	23	2	750	<5
SCRS_96_08	7	<1	71	5	130	10
SCRS_97_08	31	<1	344	26	250	117
SCRS_131_08	2	<1	9	<1	420	<5
SCRS_132_08	1	<1	13	<1	80	<5
SCRS_133_08	21	<1	150	8	150	10
SCRS_134_08	10	<1	469	26	200	26
SCRS_135_08	1	<1	48	2	120	5
SCRS_136_08	12	<1	267	16	<20	30
SCRS_137_08	11	<1	34	2	50	<5
*Rep SCRS_137_08	11	<1	32	2	60	<5
SCRS_138_08	9	1	131	10	190	170
SCRS_139_08	25	<1	59	5	100	85

Final : TO102354 Order

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	21	<1	56	5	150	41
SCRS_141_08	8	<1	56	3	<20	7
SCRS_142_08	9	<1	23	2	140	6
SCRS_143_08	3	<1	72	4	180	92
SCRS_144_08	58	<1	76	6	110	35
SCRS_145_08	24	<1	78	8	110	111
SCRS_146_08	23	<1	168	10	90	59
SCRS_147_08	8	<1	9	<1	<20	42
SCRS_148_08	2	<1	9	<1	150	<5
SCRS_159_08	3	<1	8	<1	110	<5
*Rep SCRS_159_08	2	<1	6	<1	130	<5
SCRS_160_08	2	<1	51	4	2550	20
SCRS_161_08	10	<1	222	12	70	45
SCRS_162_08	5	<1	41	2	620	15
SCRS_163_08	6	<1	64	4	2010	8
SCRS_164_08	4	<1	91	7	1130	46
SCRS_165_08	1	<1	14	<1	640	<5
SCRS_166_08	7	<1	141	7	930	89
SCRS_167_08	15	<1	29	3	110	27
RS_168_08	72	<1	23	4	180	46
RS_169_08	11	<1	17	4	100	43
SCRS_175_08	14	2	1100	104	290	61
SCRS_176_08	10	<1	100	5	40	13
*Rep SCRS_176_08	10	<1	79	3	60	13
SCRS_177_08	4	<1	29	1	180	<5
SCRS_178_08	5	<1	11	1	140	91
SCRS_179_08	7	<1	105	7	220	116
SCRS_180_08	12	<1	144	9	750	108
SCRS_181_08	39	<1	39	3	50	22
SCRS_182_08	5	<1	132	8	470	48
SCRS_206_08	15	<1	20	2	110	33
SCRS_261_08	25	<1	588	45	1100	43
SCRS_262_08	6	<1	136	8	3790	9
SCRS_263_08	7	<1	118	6	990	40
SCRS_264_08	4	<1	20	1	860	6
SCRS_265_08	25	<1	34	2	320	6
*Rep SCRS_265_08	20	<1	26	1	280	5
SCRS_266_08	2	<1	23	1	1930	<5
SCRS_267_08	8	<1	25	1	2040	<5
SCRS_268_08	7	<1	<5	<1	790	<5
SCRS_269_08	52	2	1050	47	1490	116
SCRS_270_08	117	<1	499	30	660	64
SCRS_967_08	17	<1	21	2	30	<5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	8	<1	34	2	30	8
SCRS_980_08	2	<1	53	3	70	7
*Std MMISRM16	38	<1	8	<1	270	12
*Std MMISRM16	41	<1	11	<1	210	14
*Std MMISRM16	41	<1	11	<1	200	14
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

Certificate of Analysis

Work Order: TO102355

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 15, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	84
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 84 Soils

Certified By : Gavin McGill
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
n.a. = Not applicable
I.S. = Insufficient Sample
-- = 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

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
555_1_08	16	13	<10	0.2	4280	<1	770	8	<5	220
*Rep 555_1_08	13	15	<10	0.1	4000	<1	710	9	<5	216
555_2_08	8	194	10	<0.1	830	1	60	16	651	139
555_3_08	35	155	40	2.9	1180	19	90	6	2630	26
555_4_08	2	271	<10	0.3	280	<1	<10	5	59	151
555_5_08	5	103	<10	0.5	30	<1	90	7	328	109
555_6_08	24	201	10	0.7	850	<1	30	5	737	22
555_7_08	6	120	<10	0.3	140	<1	190	6	55	6
555_8_08	2	272	<10	<0.1	460	<1	20	4	62	45
555_91_08	12	7	<10	0.1	11400	<1	890	6	<5	142
SCRS_110_08	<1	28	<10	<0.1	270	<1	380	18	21	110
SCRS_111_08	4	74	<10	0.2	930	<1	400	29	53	46
SCRS_112_08	1	72	<10	<0.1	450	<1	270	19	33	147
SCRS_113_08	12	3	<10	0.3	100	<1	390	3	9	71
*Rep SCRS_113_08	12	3	<10	0.3	100	<1	380	4	9	117
SCRS_149_08	26	9	<10	0.7	1690	<1	600	15	7	201
SCRS_150_08	<1	20	<10	<0.1	350	<1	540	21	<5	15
SCRS_151_08	4	16	<10	0.7	2640	<1	640	3	200	140
SCRS_152_08	1	118	20	<0.1	890	<1	310	39	157	378
CRS_153_08	9	37	<10	0.2	1790	<1	490	7	46	186
RS_154_08	3	239	10	0.1	2260	<1	100	4	96	172
SCRS_155_08	91	12	<10	0.5	520	<1	350	8	16	66
SCRS_156_08	<1	21	<10	<0.1	180	<1	450	5	<5	39
SCRS_157_08	11	40	<10	0.1	490	<1	560	10	<5	43
SCRS_158_08	1	38	<10	0.2	750	<1	480	9	44	99
SCRS_170_08	2	126	60	3.8	2210	3	70	3	232	81
SCRS_171_08	<1	6	<10	<0.1	500	<1	510	26	<5	23
*Rep SCRS_171_08	<1	7	<10	<0.1	420	<1	510	20	<5	17
SCRS_172_08	<1	18	<10	<0.1	740	<1	550	35	19	21
SCRS_173_08	12	21	<10	0.7	570	<1	470	6	51	297
SCRS_174_08	4	76	<10	0.4	1450	<1	300	6	248	672
SCRS_183_08	<1	274	<10	<0.1	650	<1	40	2	<5	30
SCRS_184_08	<1	200	<10	<0.1	1130	<1	20	2	23	126
SCRS_185_08	9	136	10	0.2	3360	<1	60	37	40	460
SCRS_186_08	<1	239	<10	<0.1	340	<1	<10	8	24	19
SCRS_187_08	3	22	<10	<0.1	3200	<1	600	12	35	43
SCRS_188_08	<1	91	<10	<0.1	1940	<1	130	190	23	493
SCRS_189_08	12	236	20	0.4	4100	<1	30	62	105	202
SCRS_199_08	2	>300	10	<0.1	560	<1	<10	8	22	42
SCRS_200_08	<1	239	<10	<0.1	560	2	<10	14	21	83
*Rep SCRS_200_08	<1	259	<10	<0.1	440	1	<10	11	21	69
SCRS_201_08	<1	167	<10	<0.1	460	<1	<10	5	15	96
SCRS_202_08	<1	241	10	<0.1	1310	<1	<10	13	68	240

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
SCRS_203_08	4	274	20	0.1	1530	<1	<10	15	89	88
SCRS_204_08	3	196	10	<0.1	3110	<1	10	80	15	101
SCRS_205_08	<1	47	<10	<0.1	3630	<1	340	16	30	124
SCRS_211_08	<1	201	<10	<0.1	2600	<1	40	20	68	55
SCRS_212_08	1	43	<10	<0.1	300	<1	450	13	7	<5
SCRS_213_08	21	24	<10	0.3	480	<1	510	20	16	19
SCRS_214_08	4	67	<10	0.3	870	<1	360	68	29	94
SCRS_215_08	<1	196	<10	<0.1	360	<1	<10	2	19	57
SCRS_216_08	1	112	<10	<0.1	1500	<1	210	339	128	124
SCRS_217_08	<1	14	10	0.1	1090	<1	410	123	13	199
*Rep SCRS_217_08	<1	10	20	<0.1	1120	<1	410	83	12	149
SCRS_218_08	20	232	<10	<0.1	4140	<1	20	16	<5	110
SCRS_219_08	<1	>300	<10	<0.1	2740	<1	30	2	<5	28
SCRS_220_08	4	176	10	<0.1	5940	<1	220	20	503	170
SCRS_221_08	2	297	<10	<0.1	760	<1	<10	17	13	98
SCRS_222_08	26	50	<10	0.1	3280	<1	600	53	129	33
SCRS_229_08	2	266	20	<0.1	500	<1	10	11	40	99
SCRS_230_08	<1	183	<10	<0.1	300	1	<10	5	13	41
SCRS_231_08	<1	172	<10	<0.1	540	<1	50	2	25	72
SCRS_232_08	<1	265	<10	<0.1	610	<1	10	2	<5	21
SCRS_233_08	1	>300	<10	<0.1	1960	<1	120	14	21	111
SCRS_234_08	<1	22	30	0.3	920	<1	380	36	55	230
SCRS_235_08	5	58	<10	0.6	1450	<1	430	26	127	307
*Rep SCRS_235_08	2	57	<10	0.5	1240	<1	390	26	63	281
SCRS_236_08	26	43	<10	0.4	1650	<1	680	65	131	129
SCRS_237_08	9	45	<10	0.3	2250	<1	480	56	127	171
SCRS_238_08	<1	59	<10	<0.1	1490	<1	260	25	<5	60
SCRS_239_08	3	23	100	0.4	9570	<1	200	18	1130	264
SCRS_244_08	19	72	<10	<0.1	6830	<1	590	30	2650	77
SCRS_245_08	<1	75	<10	0.1	2860	<1	220	7	72	123
SCRS_246_08	5	203	10	0.2	1140	<1	10	26	155	49
SCRS_247_08	7	208	10	<0.1	1560	<1	40	5	24	346
SCRS_248_08	11	111	20	1.0	4180	1	230	16	127	420
SCRS_249_08	2	105	<10	0.2	2670	<1	260	9	373	274
SCRS_250_08	4	41	<10	0.1	1670	<1	520	27	74	56
SCRS_251_08	3	30	10	0.3	800	<1	570	10	161	314
*Rep SCRS_251_08	6	35	<10	0.4	810	<1	570	14	108	229
SCRS_252_08	12	44	<10	0.4	1960	<1	520	79	79	87
SCRS_253_08	2	44	20	0.3	1060	<1	530	36	39	107
SCRS_254_08	25	35	<10	0.3	5250	<1	410	592	543	218
SCRS_255_08	1	156	30	0.1	1500	<1	<10	1	90	98
SCRS_277_08	<1	79	<10	<0.1	440	<1	380	33	20	11
SCRS_278_08	3	45	<10	<0.1	510	<1	490	34	5	<5

Final : TO102355 Order

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
SCRS_279_08	1	49	<10	<0.1	1170	<1	410	29	11	8
SCRS_280_08	2	39	<10	<0.1	1230	<1	520	38	19	6
SCRS_281_08	<1	34	30	0.1	890	<1	410	11	28	136
SCRS_282_08	90	17	<10	0.5	3050	<1	770	72	43	186
SCRS_283_08	<1	88	30	0.3	4420	<1	100	6	74	265
*Std MMISRM16	19	50	20	31.5	70	<1	200	4	23	68
*Std MMISRM16	20	51	20	30.8	70	<1	200	4	24	66
*Std MMISRM16	21	52	20	34.9	70	<1	200	5	22	67
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
555_1_08	<100	2840	3	2.8	<0.5	18	2	<1	<5	6
*Rep 555_1_08	<100	2930	3	2.6	<0.5	19	3	<1	<5	6
555_2_08	<100	290	41	17.0	14.4	83	64	354	<5	7
555_3_08	<100	1010	597	237	324	23	1480	11600	<5	19
555_4_08	<100	460	19	10.9	3.2	23	14	26	<5	<1
555_5_08	<100	1430	119	63.1	46.1	21	219	366	<5	18
555_6_08	<100	1720	185	88.9	53.6	23	257	412	<5	<1
555_7_08	100	680	49	31.5	9.5	9	53	36	<5	6
555_8_08	<100	1530	59	40.2	6.9	34	35	24	<5	3
555_91_08	<100	890	1	1.1	<0.5	9	<1	<1	6	9
SCRS_110_08	<100	320	3	1.9	0.7	28	3	8	<5	6
SCRS_111_08	<100	2190	13	7.9	2.4	125	12	22	<5	6
SCRS_112_08	<100	1240	7	4.2	1.3	194	6	11	<5	4
SCRS_113_08	<100	530	2	1.0	<0.5	11	3	2	<5	14
*Rep SCRS_113_08	<100	540	3	1.2	<0.5	11	3	2	<5	14
SCRS_149_08	<100	970	9	5.2	1.7	13	11	<1	<5	20
SCRS_150_08	<100	30	2	1.3	<0.5	8	2	<1	<5	36
SCRS_151_08	<100	3270	25	12.0	8.0	46	40	68	<5	23
SCRS_152_08	<100	1240	42	22.6	8.7	164	46	56	<5	159
SCRS_153_08	<100	690	7	3.3	1.6	27	9	10	<5	33
SCRS_154_08	<100	570	18	9.0	4.1	89	18	37	<5	7
SCRS_155_08	<100	390	9	4.0	1.9	5	13	5	<5	37
SCRS_156_08	<100	40	1	0.8	<0.5	11	2	1	<5	46
SCRS_157_08	<100	790	3	1.5	0.6	12	3	1	<5	25
SCRS_158_08	<100	1120	6	3.2	1.5	73	8	16	<5	17
SCRS_170_08	200	4430	45	20.9	10.2	173	57	139	<5	9
SCRS_171_08	<100	40	5	5.0	0.6	12	3	1	<5	12
*Rep SCRS_171_08	<100	30	5	4.0	0.5	10	3	2	<5	10
SCRS_172_08	<100	40	9	5.4	1.6	16	10	7	<5	25
SCRS_173_08	<100	7000	11	5.8	2.9	64	14	19	<5	55
SCRS_174_08	<100	3160	174	99.0	32.7	25	168	210	<5	119
SCRS_183_08	<100	<10	<1	<0.5	<0.5	114	<1	<1	<5	7
SCRS_184_08	<100	50	5	6.0	0.9	189	4	12	7	4
SCRS_185_08	<100	960	12	8.6	2.0	369	9	17	<5	18
SCRS_186_08	<100	70	4	2.6	0.7	149	3	13	<5	1
SCRS_187_08	<100	140	4	1.4	2.1	15	8	15	<5	28
SCRS_188_08	<100	380	30	31.4	3.8	120	20	8	<5	47
SCRS_189_08	<100	2130	88	41.0	10.3	180	56	38	<5	7
SCRS_199_08	<100	110	9	4.9	1.5	89	6	8	<5	1
SCRS_200_08	<100	100	4	3.2	0.6	128	3	11	<5	1
*Rep SCRS_200_08	<100	100	3	3.2	0.6	121	2	12	<5	1
SCRS_201_08	<100	30	7	5.8	1.1	140	6	7	<5	3
SCRS_202_08	<100	180	26	12.3	4.8	150	25	25	<5	3

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_203_08	<100	390	27	15.0	4.7	159	21	39	<5	1
SCRS_204_08	<100	210	7	10.3	1.1	204	6	8	<5	5
SCRS_205_08	<100	1170	4	1.7	1.5	191	5	12	<5	82
SCRS_211_08	<100	60	35	20.5	6.8	121	38	26	<5	8
SCRS_212_08	<100	20	3	1.8	0.7	5	4	2	<5	35
SCRS_213_08	<100	570	11	4.7	3.4	13	19	11	<5	91
SCRS_214_08	<100	800	13	7.1	2.6	29	13	14	<5	53
SCRS_215_08	<100	60	7	4.9	1.0	170	6	8	<5	3
SCRS_216_08	<100	700	25	13.2	7.7	93	28	72	<5	12
SCRS_217_08	<100	1580	2	1.2	0.8	45	3	5	<5	96
*Rep SCRS_217_08	<100	1320	1	0.8	0.6	45	3	5	<5	93
SCRS_218_08	<100	830	8	15.0	<0.5	246	3	2	<5	5
SCRS_219_08	<100	40	<1	1.6	<0.5	100	<1	<1	<5	5
SCRS_220_08	<100	290	60	23.6	20.1	70	87	207	<5	49
SCRS_221_08	<100	80	4	3.1	<0.5	125	2	6	7	6
SCRS_222_08	<100	850	35	16.1	11.0	56	48	64	<5	87
SCRS_229_08	<100	210	15	6.3	3.7	174	19	13	<5	3
SCRS_230_08	<100	60	3	2.0	0.5	171	3	7	<5	3
SCRS_231_08	<100	180	3	1.9	0.7	206	3	10	<5	6
ↄRS_232_08	<100	20	<1	0.6	<0.5	120	<1	<1	<5	2
ↄRS_233_08	<100	120	9	4.9	1.5	70	7	7	<5	24
SCRS_234_08	<100	3120	10	5.6	2.8	103	13	20	<5	61
SCRS_235_08	<100	2000	31	14.5	8.1	118	39	47	12	47
*Rep SCRS_235_08	<100	2340	19	9.1	4.2	162	22	23	11	42
SCRS_236_08	<100	3650	37	20.5	6.4	75	36	44	<5	32
SCRS_237_08	<100	2760	27	14.2	6.1	230	31	47	<5	31
SCRS_238_08	<100	1450	1	0.9	<0.5	149	<1	2	<5	67
SCRS_239_08	<100	5600	142	77.0	40.4	393	192	451	<5	78
SCRS_244_08	<100	520	77	24.2	50.7	27	176	496	<5	23
SCRS_245_08	<100	1200	18	9.6	4.6	205	17	39	<5	29
SCRS_246_08	<100	290	25	11.2	7.5	34	31	62	<5	<1
SCRS_247_08	<100	560	5	3.7	0.7	287	3	8	<5	22
SCRS_248_08	300	1920	47	18.9	11.3	145	54	50	<5	33
SCRS_249_08	<100	570	72	28.7	25.2	110	109	191	<5	10
SCRS_250_08	<100	1100	15	6.4	5.1	58	23	34	5	32
SCRS_251_08	<100	2350	21	11.4	5.6	118	29	59	<5	20
*Rep SCRS_251_08	<100	2650	15	7.8	3.9	100	21	38	<5	20
SCRS_252_08	<100	3470	15	7.6	3.6	81	20	32	<5	66
SCRS_253_08	<100	4430	6	3.7	1.7	93	8	17	<5	24
SCRS_254_08	100	4010	106	52.6	27.7	40	148	207	<5	198
SCRS_255_08	<100	1080	11	5.7	2.4	375	11	41	<5	2
SCRS_277_08	<100	30	7	4.0	1.1	12	6	11	<5	4
SCRS_278_08	<100	30	2	1.2	0.7	6	3	3	<5	4

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_279_08	<100	20	8	3.8	1.8	11	10	9	<5	137
SCRS_280_08	<100	70	9	4.9	2.0	13	12	8	<5	55
SCRS_281_08	<100	1390	4	2.6	1.0	132	5	10	<5	37
SCRS_282_08	<100	2650	10	4.7	3.1	22	15	5	7	62
SCRS_283_08	<100	1380	13	7.9	2.2	449	13	32	<5	48
*Std MMISRM16	<100	690	3	1.0	1.3	3	6	6	<5	40
*Std MMISRM16	<100	690	3	0.9	1.2	3	5	6	<5	41
*Std MMISRM16	<100	700	3	1.2	1.3	3	6	5	<5	40
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	100	<10	<1	<0.5	<0.5	2	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	8	<0.5	<1	1060	20	<1	<1	<1	8	1
*Rep 555_1_08	8	<0.5	<1	1130	20	<1	<1	<1	11	1
555_2_08	5	3.5	301	174	730	2	80	<1	178	4
555_3_08	<5	0.7	9090	114	370	2	2480	<1	109	<1
555_4_08	<5	1.0	44	207	60	<1	9	<1	91	<1
555_5_08	<5	0.7	820	553	50	1	160	<1	159	<1
555_6_08	<5	1.4	827	52	140	<1	167	<1	144	1
555_7_08	<5	1.2	115	103	40	<1	20	<1	72	<1
555_8_08	<5	2.9	62	96	140	<1	12	<1	129	1
555_91_08	6	<0.5	<1	228	<10	<1	<1	<1	<5	1
SCRS_110_08	<5	<0.5	11	249	30	<1	2	<1	8	<1
SCRS_111_08	<5	0.7	37	460	370	<1	8	<1	15	2
SCRS_112_08	<5	<0.5	19	405	50	<1	4	<1	20	1
SCRS_113_08	<5	<0.5	4	792	<10	<1	<1	<1	11	<1
*Rep SCRS_113_08	<5	<0.5	5	837	<10	<1	<1	<1	10	<1
SCRS_149_08	<5	<0.5	8	241	20	<1	<1	<1	7	<1
SCRS_150_08	<5	<0.5	3	56	50	<1	<1	<1	11	<1
SCRS_151_08	<5	0.5	142	254	10	<1	28	<1	7	3
SCRS_152_08	<5	0.9	107	356	80	<1	22	<1	91	<1
SCRS_153_08	<5	<0.5	22	119	<10	<1	4	<1	15	<1
SCRS_154_08	<5	2.2	50	83	110	<1	11	<1	103	<1
SCRS_155_08	<5	<0.5	23	405	<10	<1	3	<1	16	<1
SCRS_156_08	<5	<0.5	3	48	50	<1	<1	<1	<5	<1
SCRS_157_08	<5	<0.5	6	192	<10	<1	<1	<1	10	<1
SCRS_158_08	<5	0.6	28	352	90	<1	6	<1	8	2
SCRS_170_08	5	17.2	186	107	220	<1	40	<1	54	3
SCRS_171_08	<5	<0.5	4	53	50	<1	<1	<1	51	<1
*Rep SCRS_171_08	<5	<0.5	4	57	40	<1	<1	<1	57	<1
SCRS_172_08	<5	<0.5	18	134	50	<1	3	<1	18	<1
SCRS_173_08	7	0.6	39	464	10	<1	8	<1	13	<1
SCRS_174_08	<5	<0.5	407	247	20	<1	79	<1	24	<1
SCRS_183_08	<5	1.1	<1	46	<10	<1	<1	<1	8	<1
SCRS_184_08	<5	2.4	12	76	30	<1	3	<1	33	<1
SCRS_185_08	<5	1.8	26	422	60	<1	5	<1	119	2
SCRS_186_08	<5	7.3	10	27	160	<1	3	<1	40	<1
SCRS_187_08	6	<0.5	27	795	30	<1	5	<1	11	1
SCRS_188_08	6	<0.5	27	175	60	<1	5	<1	<5	1
SCRS_189_08	8	2.0	85	449	300	<1	16	<1	124	3
SCRS_199_08	<5	2.4	16	58	470	<1	3	<1	251	<1
SCRS_200_08	<5	7.2	9	67	200	<1	2	<1	39	<1
*Rep SCRS_200_08	<5	6.8	8	51	200	<1	2	<1	53	<1
SCRS_201_08	<5	1.3	11	53	30	<1	2	<1	26	<1
SCRS_202_08	<5	3.7	45	84	190	<1	9	<1	99	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	<5	3.8	57	174	130	<1	12	<1	179	1
SCRS_204_08	7	3.5	12	173	50	<1	2	<1	29	3
SCRS_205_08	13	1.0	21	1090	20	<1	4	<1	<5	<1
SCRS_211_08	<5	3.6	55	110	130	<1	11	<1	21	<1
SCRS_212_08	<5	<0.5	5	128	<10	<1	<1	<1	20	<1
SCRS_213_08	<5	<0.5	32	237	40	<1	5	<1	21	<1
SCRS_214_08	<5	<0.5	30	184	70	<1	6	<1	28	<1
SCRS_215_08	<5	2.1	12	45	50	<1	3	<1	54	<1
SCRS_216_08	<5	<0.5	103	495	20	<1	23	<1	43	<1
SCRS_217_08	36	<0.5	10	1420	20	<1	2	<1	<5	7
*Rep SCRS_217_08	31	<0.5	9	1170	20	<1	2	<1	<5	6
SCRS_218_08	<5	<0.5	4	419	30	<1	<1	<1	100	2
SCRS_219_08	<5	<0.5	<1	62	<10	<1	<1	<1	100	<1
SCRS_220_08	<5	1.2	292	425	130	<1	63	<1	132	<1
SCRS_221_08	<5	2.0	6	125	50	<1	1	<1	28	<1
SCRS_222_08	<5	<0.5	117	595	150	<1	23	<1	15	1
SCRS_229_08	<5	3.0	28	152	170	<1	5	<1	182	<1
SCRS_230_08	<5	3.0	6	36	110	<1	2	<1	44	<1
SCRS_231_08	<5	1.4	13	65	<10	<1	3	<1	27	<1
SCRS_232_08	<5	<0.5	<1	29	<10	<1	<1	<1	7	<1
SCRS_233_08	<5	2.3	16	131	280	<1	3	<1	38	<1
SCRS_234_08	79	0.9	41	2190	20	<1	8	<1	8	2
SCRS_235_08	<5	0.6	102	568	130	<1	20	<1	15	1
*Rep SCRS_235_08	<5	0.7	51	506	120	<1	11	<1	12	1
SCRS_236_08	<5	0.6	86	1420	580	<1	18	<1	10	3
SCRS_237_08	<5	0.6	85	784	180	<1	18	<1	7	2
SCRS_238_08	15	<0.5	2	287	20	<1	<1	<1	<5	1
SCRS_239_08	8	2.1	717	617	70	1	154	<1	18	7
SCRS_244_08	<5	0.8	753	687	70	<1	160	<1	32	<1
SCRS_245_08	31	1.5	55	750	20	<1	12	<1	23	4
SCRS_246_08	<5	1.2	103	49	150	<1	22	<1	165	2
SCRS_247_08	<5	3.7	10	200	30	<1	2	<1	119	1
SCRS_248_08	11	0.6	96	512	240	<1	19	<1	100	3
SCRS_249_08	<5	0.8	310	229	70	<1	66	<1	171	<1
SCRS_250_08	<5	<0.5	63	1000	180	<1	12	<1	26	1
SCRS_251_08	6	0.7	105	464	50	<1	22	<1	13	2
*Rep SCRS_251_08	6	1.0	75	450	50	<1	15	<1	10	2
SCRS_252_08	12	0.6	56	1100	160	<1	11	<1	10	4
SCRS_253_08	10	1.0	27	732	150	<1	6	<1	7	2
SCRS_254_08	10	<0.5	411	2730	180	<1	81	<1	18	1
SCRS_255_08	<5	3.1	39	119	20	1	10	<1	211	2
SCRS_277_08	<5	<0.5	18	47	40	<1	4	<1	17	<1
SCRS_278_08	<5	<0.5	7	61	10	<1	1	<1	21	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	<5	<0.5	23	186	30	<1	4	<1	27	<1
SCRS_280_08	<5	<0.5	21	241	30	<1	4	<1	9	<1
SCRS_281_08	20	1.0	17	571	100	<1	4	<1	8	4
SCRS_282_08	12	<0.5	28	1160	20	<1	4	<1	10	2
SCRS_283_08	8	2.3	41	444	20	<1	9	<1	85	2
*Std MMISRM16	56	<0.5	20	271	120	29	3	<1	367	<1
*Std MMISRM16	56	<0.5	19	237	110	27	3	<1	385	<1
*Std MMISRM16	57	<0.5	19	261	120	29	3	<1	366	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	5	<10	<1	<1	<1	<5	<1

SGS

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	6	<1	<1	3560	<1	<1	<10	4.0	<3	1.1
*Rep 555_1_08	<5	<1	<1	3320	<1	<1	<10	3.7	<3	0.9
555_2_08	54	61	<1	130	<1	9	<10	173	735	2.1
555_3_08	235	1650	<1	240	<1	161	<10	524	160	0.9
555_4_08	27	13	<1	30	<1	3	<10	23.4	435	1.0
555_5_08	132	208	<1	430	<1	25	<10	40.7	212	0.7
555_6_08	124	217	<1	30	<1	36	<10	35.7	811	1.1
555_7_08	19	39	<1	120	<1	8	<10	6.8	215	<0.5
555_8_08	60	22	<1	40	<1	7	<10	23.3	1500	0.6
555_91_08	<5	<1	<1	4500	<1	<1	<10	0.9	<3	<0.5
SCRS_110_08	7	3	<1	1280	<1	<1	<10	1.2	13	0.5
SCRS_111_08	28	10	<1	1090	<1	2	<10	5.2	61	<0.5
SCRS_112_08	26	5	<1	1000	<1	1	<10	4.0	60	<0.5
SCRS_113_08	10	2	<1	640	<1	<1	<10	1.7	11	<0.5
*Rep SCRS_113_08	12	2	<1	640	<1	<1	<10	1.7	6	<0.5
SCRS_149_08	14	6	<1	2670	<1	2	<10	4.0	5	<0.5
SCRS_150_08	10	1	<1	2290	<1	<1	<10	0.9	13	<0.5
SCRS_151_08	23	37	<1	2030	<1	5	<10	31.6	8	<0.5
SCRS_152_08	129	33	<1	580	<1	7	<10	27.1	204	<0.5
SCRS_153_08	19	7	<1	390	<1	1	<10	6.9	11	<0.5
RS_154_08	28	14	<1	230	<1	3	<10	17.6	1520	<0.5
SCRS_155_08	11	9	<1	430	<1	2	<10	2.3	4	<0.5
SCRS_156_08	6	1	<1	700	<1	<1	<10	1.4	9	<0.5
SCRS_157_08	11	2	<1	390	<1	<1	<10	1.1	7	<0.5
SCRS_158_08	21	7	<1	1280	<1	1	<10	4.3	53	<0.5
SCRS_170_08	51	47	2	260	<1	9	40	41.7	3990	0.8
SCRS_171_08	12	2	<1	2980	<1	<1	<10	0.9	20	<0.5
*Rep SCRS_171_08	21	2	<1	3020	<1	<1	<10	0.8	35	<0.5
SCRS_172_08	14	7	<1	1160	<1	2	<10	5.4	56	<0.5
SCRS_173_08	29	11	<1	490	<1	2	<10	5.7	21	<0.5
SCRS_174_08	296	118	<1	510	<1	27	<10	11.2	174	<0.5
SCRS_183_08	7	<1	<1	460	<1	<1	<10	2.4	275	<0.5
SCRS_184_08	11	4	<1	270	<1	<1	<10	8.1	563	<0.5
SCRS_185_08	46	8	<1	520	<1	2	<10	40.4	374	<0.5
SCRS_186_08	12	2	<1	60	<1	<1	<10	11.7	2010	<0.5
SCRS_187_08	<5	7	<1	2220	<1	<1	<10	1.6	9	<0.5
SCRS_188_08	22	11	<1	1020	<1	4	<10	3.8	62	<0.5
SCRS_189_08	81	33	<1	390	<1	13	<10	40.3	412	1.0
SCRS_199_08	15	4	<1	70	<1	1	<10	9.8	1030	0.6
SCRS_200_08	22	2	<1	60	<1	<1	<10	17.9	1560	<0.5
*Rep SCRS_200_08	19	2	<1	50	<1	<1	<10	16.8	1540	<0.5
SCRS_201_08	16	4	<1	90	<1	<1	<10	8.7	572	<0.5
SCRS_202_08	39	16	<1	100	<1	4	<10	30.2	1020	0.6

SGS

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	33	16	<1	90	<1	4	<10	33.5	957	0.8
SCRS_204_08	40	4	<1	290	<1	<1	<10	10.7	573	0.5
SCRS_205_08	25	5	<1	2330	<1	<1	<10	3.0	85	<0.5
SCRS_211_08	18	23	<1	350	<1	6	<10	11.8	902	<0.5
SCRS_212_08	<5	2	<1	430	<1	<1	<10	0.9	4	<0.5
SCRS_213_08	<5	13	<1	430	<1	2	<10	4.1	<3	<0.5
SCRS_214_08	18	9	<1	360	<1	2	<10	1.1	5	<0.5
SCRS_215_08	6	4	<1	90	<1	1	<10	8.9	433	<0.5
SCRS_216_08	109	24	<1	810	<1	4	<10	13.1	51	<0.5
SCRS_217_08	10	2	<1	1860	<1	<1	<10	0.9	18	<0.5
*Rep SCRS_217_08	5	2	<1	1800	<1	<1	<10	0.8	36	<0.5
SCRS_218_08	18	2	<1	430	<1	<1	<10	4.6	60	1.2
SCRS_219_08	20	<1	<1	440	<1	<1	<10	2.6	11	1.0
SCRS_220_08	52	74	<1	1240	<1	12	<10	30.3	476	0.5
SCRS_221_08	12	2	<1	130	<1	<1	<10	8.3	520	<0.5
SCRS_222_08	23	36	<1	1800	<1	7	<10	9.7	4	<0.5
SCRS_229_08	19	13	<1	50	<1	3	<10	25.3	1010	<0.5
SCRS_230_08	10	2	<1	60	<1	<1	<10	9.9	1080	<0.5
SCRS_231_08	<5	3	<1	290	<1	<1	<10	5.8	392	<0.5
SCRS_232_08	<5	<1	<1	240	<1	<1	<10	1.9	159	0.6
RS_233_08	5	5	<1	1290	<1	1	<10	14.9	992	<0.5
SCRS_234_08	17	11	<1	1490	<1	2	<10	12.6	79	<0.5
SCRS_235_08	51	31	<1	1650	<1	6	<10	11.9	70	<0.5
*Rep SCRS_235_08	51	16	<1	1510	<1	3	<10	9.8	108	<0.5
SCRS_236_08	52	25	<1	2210	<1	6	<10	17.2	11	<0.5
SCRS_237_08	57	24	<1	1760	<1	5	<10	14.4	99	<0.5
SCRS_238_08	7	<1	<1	860	<1	<1	<10	1.1	71	<0.5
SCRS_239_08	157	168	<1	1090	<1	27	<10	45.4	415	<0.5
SCRS_244_08	10	166	<1	2540	<1	20	<10	6.1	5	<0.5
SCRS_245_08	12	14	<1	2710	<1	3	<10	4.3	88	1.2
SCRS_246_08	34	26	<1	50	<1	5	<10	21.3	516	0.8
SCRS_247_08	14	3	<1	310	<1	<1	<10	15.7	1150	<0.5
SCRS_248_08	108	37	<1	910	<1	9	<10	41.0	116	2.2
SCRS_249_08	103	88	<1	800	<1	15	<10	22.0	125	0.6
SCRS_250_08	19	18	<1	1820	<1	3	<10	5.6	14	<0.5
SCRS_251_08	39	26	<1	2420	<1	4	<10	19.5	44	<0.5
*Rep SCRS_251_08	34	18	<1	2400	<1	3	<10	13.3	45	<0.5
SCRS_252_08	21	15	<1	1110	<1	3	<10	5.8	38	<0.5
SCRS_253_08	14	7	<1	910	<1	1	<10	3.1	72	<0.5
SCRS_254_08	55	116	<1	870	<1	20	<10	39.9	20	<0.5
SCRS_255_08	20	10	<1	40	<1	2	<10	25.4	1280	0.6
SCRS_277_08	<5	5	<1	1980	<1	<1	<10	2.0	21	<0.5
SCRS_278_08	<5	2	<1	2190	<1	<1	<10	1.0	8	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	8	<1	22	3	30	<5
*Rep 555_1_08	9	<1	21	3	40	<5
555_2_08	45	1	170	13	510	176
555_3_08	77	1	3020	169	180	280
555_4_08	6	<1	88	8	250	39
555_5_08	14	<1	691	56	160	67
555_6_08	19	2	988	74	90	93
555_7_08	7	<1	293	27	260	27
555_8_08	8	<1	321	33	340	68
555_91_08	3	2	8	1	90	<5
SCRS_110_08	7	<1	21	2	380	<5
SCRS_111_08	51	<1	96	7	220	17
SCRS_112_08	14	<1	48	4	160	18
SCRS_113_08	1	<1	16	<1	50	<5
*Rep SCRS_113_08	2	<1	18	1	60	<5
SCRS_149_08	4	<1	59	4	40	9
SCRS_150_08	7	<1	14	1	280	<5
SCRS_151_08	14	<1	156	11	30	43
SCRS_152_08	28	<1	240	20	120	62
SCRS_153_08	3	<1	35	3	130	9
SCRS_154_08	6	<1	89	6	130	64
SCRS_155_08	2	<1	54	3	70	<5
SCRS_156_08	2	<1	9	<1	130	<5
SCRS_157_08	3	<1	19	1	80	<5
SCRS_158_08	11	<1	39	3	210	9
SCRS_170_08	5	<1	246	13	320	81
SCRS_171_08	3	<1	40	4	670	<5
*Rep SCRS_171_08	3	<1	38	3	470	<5
SCRS_172_08	3	<1	54	4	250	13
SCRS_173_08	5	<1	72	5	80	8
SCRS_174_08	14	<1	1020	77	140	46
SCRS_183_08	2	<1	<5	1	40	16
SCRS_184_08	6	<1	26	6	120	28
SCRS_185_08	22	<1	65	7	630	108
SCRS_186_08	7	<1	18	2	430	130
SCRS_187_08	11	<1	21	<1	70	<5
SCRS_188_08	35	<1	253	32	2050	13
SCRS_189_08	37	<1	475	25	880	119
SCRS_199_08	3	<1	45	4	200	59
SCRS_200_08	6	1	19	3	330	116
*Rep SCRS_200_08	5	<1	18	4	360	114
SCRS_201_08	2	<1	32	7	140	30
SCRS_202_08	11	<1	109	9	440	85

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	22	<1	129	11	140	127
SCRS_204_08	42	<1	41	17	630	61
SCRS_205_08	7	<1	21	1	170	19
SCRS_211_08	6	<1	190	17	700	92
SCRS_212_08	3	<1	23	1	350	<5
SCRS_213_08	5	<1	67	3	1110	5
SCRS_214_08	20	<1	98	6	250	10
SCRS_215_08	5	<1	33	5	130	57
SCRS_216_08	43	<1	146	11	160	47
SCRS_217_08	32	<1	15	1	2920	<5
*Rep SCRS_217_08	25	<1	11	<1	2910	<5
SCRS_218_08	13	<1	47	25	1020	30
SCRS_219_08	4	<1	<5	4	60	11
SCRS_220_08	11	<1	292	16	530	71
SCRS_221_08	4	<1	19	3	300	29
SCRS_222_08	28	<1	194	12	600	22
SCRS_229_08	8	<1	55	5	560	72
SCRS_230_08	4	<1	12	2	220	48
SCRS_231_08	3	<1	11	2	<20	26
SCRS_232_08	5	<1	<5	<1	<20	12
RS_233_08	6	<1	48	4	490	71
SCRS_234_08	123	<1	68	5	710	17
SCRS_235_08	32	<1	191	11	420	22
*Rep SCRS_235_08	30	<1	117	8	420	20
SCRS_236_08	98	<1	228	16	390	30
SCRS_237_08	22	<1	173	11	820	40
SCRS_238_08	13	<1	10	<1	430	18
SCRS_239_08	60	2	895	65	400	188
SCRS_244_08	19	<1	350	16	270	39
SCRS_245_08	57	<1	97	7	160	28
SCRS_246_08	15	<1	118	8	370	93
SCRS_247_08	4	<1	24	3	240	55
SCRS_248_08	34	<1	236	11	890	85
SCRS_249_08	18	<1	374	19	270	61
SCRS_250_08	12	<1	97	5	400	17
SCRS_251_08	18	<1	139	9	130	24
*Rep SCRS_251_08	19	<1	106	7	110	22
SCRS_252_08	89	<1	114	7	120	22
SCRS_253_08	38	<1	45	3	260	15
SCRS_254_08	163	<1	697	39	6730	75
SCRS_255_08	19	<1	45	5	70	127
SCRS_277_08	3	<1	54	3	180	13
SCRS_278_08	3	<1	16	<1	370	9

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	6	<1	53	3	80	9
SCRS_280_08	11	<1	68	4	240	8
SCRS_281_08	10	<1	30	2	900	15
SCRS_282_08	12	<1	64	4	90	15
SCRS_283_08	17	<1	68	7	70	74
*Std MMISRM16	46	<1	11	<1	250	14
*Std MMISRM16	45	<1	11	<1	250	15
*Std MMISRM16	44	<1	11	<1	270	20
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	6
*Blk BLANK	<1	<1	<5	<1	<20	6

Certificate of Analysis

Work Order: TO102356

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 16, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	78
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 78 Soils

Certified By : Gavin McGill
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

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
5552_1_08	<1	34	<10	<0.1	3660	<1	750	5	30	199
*Rep 5552_1_08	<1	37	<10	<0.1	2980	<1	660	6	23	151
5552_2_08	6	174	<10	0.1	430	<1	30	4	775	7
5552_3_08	3	258	<10	<0.1	520	<1	10	4	61	91
5552_4_08	10	254	20	1.0	210	<1	20	4	169	39
5552_5_08	<1	158	<10	0.3	100	<1	220	17	63	42
5552_6_08	2	212	<10	<0.1	720	<1	110	9	88	137
5552_7_08	<1	191	<10	<0.1	480	<1	70	13	42	117
5552_8_08	3	278	<10	<0.1	380	<1	30	7	38	90
SCRS_50_08	<1	31	<10	<0.1	600	<1	560	7	5	45
SCRS_67_08	5	130	10	0.4	1020	<1	40	4	26	303
SCRS_107_08	13	210	10	<0.1	1910	<1	70	6	29	65
SCRS_108_08	19	100	20	0.3	2090	<1	260	22	117	188
SCRS_109_08	33	57	<10	0.3	1470	<1	420	52	65	420
*Rep SCRS_109_08	28	58	<10	0.3	1460	<1	390	32	54	525
SCRS_190_08	13	3	<10	0.2	390	<1	590	9	18	39
SCRS_191_08	<1	90	50	<0.1	800	<1	120	<1	22	228
SCRS_192_08	2	>300	10	<0.1	620	<1	10	18	16	221
SCRS_193_08	<1	19	<10	<0.1	400	<1	590	13	5	15
SCRS_194_08	<1	154	10	<0.1	460	1	30	1	14	100
SCRS_195_08	7	275	<10	<0.1	600	<1	<10	2	20	76
SCRS_196_08	2	298	20	<0.1	1780	<1	30	4	215	326
SCRS_197_08	106	6	<10	1.1	130	<1	440	5	18	39
SCRS_198_08	<1	58	<10	<0.1	420	<1	540	14	13	6
SCRS_207_08	3	28	<10	<0.1	790	<1	510	28	39	61
SCRS_208_08	6	137	40	0.1	2120	2	20	1	82	161
SCRS_209_08	2	256	<10	<0.1	180	<1	<10	<1	20	25
*Rep SCRS_209_08	3	273	<10	<0.1	180	<1	<10	2	28	38
SCRS_210_08	3	252	70	<0.1	2140	2	40	11	110	475
SCRS_223_08	<1	40	<10	<0.1	430	<1	590	21	11	11
SCRS_224_08	4	163	50	0.1	2550	2	20	5	63	163
SCRS_225_08	7	218	<10	<0.1	1220	<1	110	18	31	428
SCRS_226_08	2	109	<10	<0.1	1470	<1	160	9	17	451
SCRS_227_08	<1	95	20	<0.1	970	<1	120	4	22	321
SCRS_228_08	3	217	<10	<0.1	1050	<1	100	14	49	457
SCRS_236_08	5	82	20	<0.1	1720	<1	70	27	69	631
SCRS_240_08	2	25	<10	<0.1	1700	<1	610	7	50	115
SCRS_241_08	<1	73	<10	<0.1	720	<1	350	36	15	91
SCRS_242_08	2	113	70	0.3	3850	1	200	7	266	331
SCRS_243_08	2	129	50	<0.1	2050	2	130	4	92	996
*Rep SCRS_243_08	<1	126	30	<0.1	1560	1	110	4	62	1020
SCRS_257_08	<1	67	<10	<0.1	3200	<1	420	81	50	50
SCRS_258_08	5	114	<10	<0.1	4000	<1	360	19	73	313

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
SCRS_259_08	16	94	<10	0.3	3050	<1	560	164	80	133
SCRS_260_08	<1	125	10	<0.1	1470	2	100	8	46	276
SCRS_271_08	<1	83	<10	<0.1	740	<1	630	102	26	21
SCRS_272_08	<1	77	<10	<0.1	1490	<1	590	57	36	36
SCRS_273_08	<1	126	<10	<0.1	1450	<1	390	70	42	41
SCRS_274_08	3	204	<10	<0.1	2200	<1	220	121	47	273
SCRS_275_08	<1	128	<10	<0.1	850	2	250	5	9	533
SCRS_276_08	3	278	<10	0.1	650	<1	30	2	10	89
SCRS_284_08	<1	53	<10	<0.1	680	<1	230	3	11	186
SCRS_285_08	20	17	<10	<0.1	440	<1	690	10	<5	13
*Rep SCRS_285_08	23	13	<10	<0.1	470	<1	700	7	<5	5
SCRS_286_08	16	74	<10	<0.1	580	<1	390	24	30	17
SCRS_287_08	7	53	<10	<0.1	1800	<1	590	9	39	61
SCRS_288_08	<1	3	<10	<0.1	280	<1	600	8	<5	5
SCRS_289_08	45	41	<10	0.5	1480	<1	550	15	87	16
SCRS_290_08	1	142	<10	0.1	640	<1	90	10	51	559
SCRS_291_08	40	8	<10	0.4	2280	<1	550	10	39	163
SCRS_292_08	<1	39	50	0.5	3740	<1	440	6	237	291
SCRS_293_08	1	66	<10	<0.1	610	<1	520	17	11	77
"CRS_294_08	<1	7	50	<0.1	1070	<1	450	3	66	199
;RS_295_08	265	8	<10	1.3	930	<1	700	8	<5	<5
SCRS_296_08	26	32	<10	0.2	1100	<1	880	64	<5	<5
SCRS_297_08	2	13	<10	0.3	440	<1	680	6	70	266
*Rep SCRS_297_08	5	12	<10	0.4	460	<1	680	5	84	291
SCRS_298_08	2	55	<10	<0.1	1380	<1	560	6	400	250
SCRS_299_08	38	51	<10	0.3	1230	<1	820	65	24	15
SCRS_300_08	17	44	<10	0.3	5700	<1	890	51	101	51
SCRS_301_08	2	68	<10	0.1	3000	<1	510	2	53	307
SCRS_302_08	6	106	<10	0.1	3980	<1	590	26	98	283
SCRS_303_08	20	4	<10	<0.1	400	<1	580	189	<5	91
SCRS_304_08	44	39	<10	0.2	720	<1	870	23	8	<5
SCRS_305_08	25	22	<10	0.5	1020	<1	830	4	123	120
SCRS_306_08	26	53	<10	0.5	2410	<1	530	12	177	30
SCRS_307_08	27	74	<10	0.5	1180	<1	410	13	140	196
SCRS_308_08	2	26	30	0.2	490	<1	630	4	19	237
SCRS_309_08	<1	37	<10	<0.1	1300	<1	710	3	33	190
*Rep SCRS_309_08	1	42	<10	0.1	1490	<1	670	6	41	154
SCRS_310_08	2	122	<10	0.1	3790	<1	150	6	39	698
SCRS_311_08	2	27	<10	0.1	1770	<1	870	8	<5	52
SCRS_312_08	17	4	<10	<0.1	220	<1	430	6	<5	35
SCRS_313_08	<1	85	<10	<0.1	4870	<1	320	9	22	414
SCRS_9211_08	<1	160	20	<0.1	2550	1	40	3	36	66
*Std MMISRM16	18	57	20	29.5	80	<1	240	4	26	67

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	59	20	32.2	60	<1	240	4	20	75
*Std MMISRM16	20	62	20	32.2	60	<1	250	4	21	80
*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

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
5552_1_08	<100	1740	3	1.9	0.7	62	4	15	<5	14
*Rep 5552_1_08	<100	1420	2	1.6	0.6	42	3	11	<5	13
5552_2_08	<100	160	65	26.2	29.8	16	123	577	<5	<1
5552_3_08	<100	300	60	37.1	7.2	48	37	34	<5	3
5552_4_08	<100	12300	92	50.0	19.6	21	91	114	<5	1
5552_5_08	<100	2290	62	45.0	10.0	43	58	41	<5	23
5552_6_08	<100	1190	25	15.9	4.1	74	21	25	<5	6
5552_7_08	<100	780	15	12.3	1.6	98	8	9	<5	9
5552_8_08	<100	1050	30	20.2	3.4	28	17	15	<5	3
SCRS_50_08	<100	290	<1	0.6	<0.5	15	1	2	<5	18
SCRS_67_08	<100	3770	10	8.5	1.2	155	6	9	<5	4
SCRS_107_08	<100	380	4	2.6	0.7	249	4	15	<5	46
SCRS_108_08	<100	1390	28	12.4	7.2	183	36	45	<5	70
SCRS_109_08	<100	640	19	10.1	3.8	68	21	24	7	103
*Rep SCRS_109_08	<100	670	12	6.4	2.7	49	14	18	8	99
SCRS_190_08	<100	370	6	2.5	1.8	9	9	6	5	17
SCRS_191_08	<100	520	4	2.3	0.7	403	3	8	7	16
SCRS_192_08	<100	250	15	9.7	1.2	79	7	6	14	2
SCRS_193_08	<100	20	3	2.1	<0.5	12	3	3	5	40
RS_194_08	<100	190	4	3.8	0.8	309	4	6	10	6
RS_195_08	<100	340	6	4.6	1.0	71	4	8	7	<1
SCRS_196_08	<100	220	38	12.4	12.7	84	60	61	7	5
SCRS_197_08	<100	210	3	1.7	0.9	8	5	3	<5	69
SCRS_198_08	<100	20	7	3.5	1.3	12	8	7	<5	38
SCRS_207_08	<100	800	8	4.9	1.8	141	9	14	<5	14
SCRS_208_08	<100	960	16	8.5	4.5	491	21	37	<5	3
SCRS_209_08	<100	490	4	2.4	0.8	54	4	9	6	<1
*Rep SCRS_209_08	<100	350	12	6.5	1.6	42	8	11	6	<1
SCRS_210_08	<100	630	67	34.2	11.7	133	63	39	5	8
SCRS_223_08	<100	40	5	3.0	1.0	10	5	4	<5	32
SCRS_224_08	100	930	15	8.8	3.6	351	18	27	<5	5
SCRS_225_08	<100	1030	15	12.4	1.4	161	8	12	<5	16
SCRS_226_08	<100	2340	15	13.3	1.0	163	7	7	<5	20
SCRS_227_08	<100	1600	7	4.9	0.9	299	5	10	<5	20
SCRS_228_08	<100	430	34	23.7	2.8	80	22	18	<5	19
SCRS_236_08	<100	110	9	8.7	2.2	297	11	32	<5	18
SCRS_240_08	<100	1460	4	1.4	1.9	21	7	19	<5	168
SCRS_241_08	<100	370	12	9.9	1.6	40	10	7	<5	26
SCRS_242_08	<100	2160	93	50.9	21.6	231	118	102	<5	52
SCRS_243_08	100	1010	20	8.3	6.4	175	33	26	5	32
*Rep SCRS_243_08	100	1060	16	6.6	4.7	181	24	18	5	29
SCRS_257_08	<100	580	20	12.2	3.7	28	20	17	<5	38
SCRS_258_08	<100	320	16	7.4	5.4	79	24	34	8	68

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_259_08	<100	4940	28	14.3	5.4	123	28	33	<5	70
SCRS_260_08	<100	780	7	5.0	1.0	323	6	17	<5	21
SCRS_271_08	<100	140	13	8.2	2.2	24	13	17	<5	18
SCRS_272_08	<100	160	22	13.3	3.7	17	22	20	<5	67
SCRS_273_08	<100	330	51	40.3	4.6	85	28	18	<5	78
SCRS_274_08	<100	250	21	12.0	2.8	72	15	16	<5	47
SCRS_275_08	<100	130	4	8.3	<0.5	132	3	5	7	10
SCRS_276_08	<100	220	2	1.4	<0.5	119	1	4	<5	3
SCRS_284_08	<100	130	2	1.6	<0.5	174	2	5	<5	10
SCRS_285_08	<100	720	7	3.8	1.1	9	7	<1	<5	7
*Rep SCRS_285_08	<100	640	5	2.4	0.9	7	5	<1	<5	7
SCRS_286_08	<100	290	10	4.9	3.1	13	16	26	<5	13
SCRS_287_08	<100	390	5	2.5	1.6	65	7	22	<5	14
SCRS_288_08	<100	<10	1	0.5	<0.5	3	1	<1	<5	32
SCRS_289_08	<100	260	72	30.4	22.3	25	119	75	<5	30
SCRS_290_08	<100	440	15	5.9	3.0	119	17	14	<5	22
SCRS_291_08	<100	2020	7	3.5	2.0	19	10	15	<5	198
SCRS_292_08	<100	3460	37	21.1	8.6	338	43	89	<5	128
SCRS_293_08	<100	370	2	1.0	<0.5	31	2	5	<5	49
RS_294_08	<100	210	9	5.9	2.5	97	12	25	<5	74
RS_295_08	<100	1340	7	3.3	1.2	7	8	<1	<5	9
SCRS_296_08	<100	150	4	2.0	1.1	11	6	6	<5	5
SCRS_297_08	<100	1070	11	5.5	2.7	93	15	23	<5	30
*Rep SCRS_297_08	<100	1290	12	6.8	3.1	105	17	30	<5	28
SCRS_298_08	<100	790	26	15.5	8.0	122	38	141	<5	9
SCRS_299_08	<100	190	15	7.4	3.9	22	22	19	<5	96
SCRS_300_08	<100	4050	30	16.4	6.7	38	37	38	<5	98
SCRS_301_08	<100	3860	14	9.2	2.9	113	14	29	<5	18
SCRS_302_08	<100	1320	20	11.7	4.2	46	22	39	<5	44
SCRS_303_08	<100	1080	21	9.2	5.1	7	34	<1	<5	3
SCRS_304_08	<100	460	8	3.5	2.0	16	11	7	<5	10
SCRS_305_08	<100	810	16	7.0	6.1	47	29	47	<5	16
SCRS_306_08	<100	260	130	49.3	44.1	27	220	147	<5	48
SCRS_307_08	<100	780	12	6.6	3.7	116	18	63	<5	11
SCRS_308_08	<100	2070	4	2.3	0.9	110	6	8	<5	18
SCRS_309_08	<100	1000	4	2.4	1.0	71	5	11	<5	28
*Rep SCRS_309_08	<100	1550	5	3.1	1.2	85	6	13	<5	28
SCRS_310_08	<100	3010	18	13.8	2.6	247	13	15	<5	11
SCRS_311_08	<100	1000	6	3.6	1.0	14	5	1	<5	53
SCRS_312_08	<100	670	1	0.7	<0.5	14	1	<1	12	60
SCRS_313_08	<100	2110	9	6.5	1.4	191	7	9	<5	28
SCRS_9211_08	<100	300	16	8.8	2.8	266	15	15	<5	13
*Std MMISRM16	<100	670	3	1.0	1.2	3	6	6	<5	39

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
*Std MMISRM16	<100	710	2	1.0	1.1	3	5	5	<5	40
*Std MMISRM16	<100	720	3	1.1	1.1	3	5	5	<5	43
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	23	0.6	18	1340	30	<1	4	<1	8	<1
*Rep 5552_1_08	21	0.6	14	915	30	<1	3	<1	8	<1
5552_2_08	<5	1.4	687	22	1320	<1	188	<1	152	<1
5552_3_08	<5	1.5	67	135	160	<1	13	<1	103	<1
5552_4_08	5	0.7	239	131	50	<1	51	<1	79	<1
5552_5_08	<5	0.7	115	368	20	<1	22	<1	63	<1
5552_6_08	5	1.9	45	214	130	<1	9	<1	159	<1
5552_7_08	<5	2.3	16	71	190	<1	3	<1	42	<1
5552_8_08	<5	0.8	31	109	240	<1	6	<1	111	<1
SCRS_50_08	<5	0.6	3	65	20	<1	<1	<1	17	<1
SCRS_67_08	<5	0.6	14	104	50	<1	3	<1	94	<1
SCRS_107_08	<5	1.3	13	248	10	<1	3	<1	65	<1
SCRS_108_08	<5	1.6	82	612	360	<1	18	<1	65	2
SCRS_109_08	<5	<0.5	45	4520	40	<1	10	<1	19	1
*Rep SCRS_109_08	<5	<0.5	34	3340	40	<1	7	<1	18	<1
SCRS_190_08	<5	<0.5	18	205	20	<1	3	<1	14	<1
SCRS_191_08	5	1.6	10	247	30	<1	2	<1	48	<1
SCRS_192_08	<5	1.3	10	86	240	<1	2	<1	195	<1
SCRS_193_08	<5	<0.5	6	53	30	<1	1	<1	19	<1
CRS_194_08	<5	2.4	10	72	<10	<1	2	<1	56	<1
CRS_195_08	<5	1.0	10	123	190	<1	2	<1	90	<1
SCRS_196_08	<5	3.1	95	294	170	<1	20	<1	272	<1
SCRS_197_08	<5	<0.5	10	170	20	<1	2	<1	15	<1
SCRS_198_08	<5	<0.5	16	40	30	<1	3	<1	27	<1
SCRS_207_08	<5	<0.5	25	441	60	<1	5	<1	11	<1
SCRS_208_08	7	5.1	47	209	30	<1	11	<1	109	2
SCRS_209_08	<5	1.0	10	126	60	<1	2	<1	102	<1
*Rep SCRS_209_08	<5	1.0	16	120	220	<1	4	<1	108	<1
SCRS_210_08	<5	3.9	89	239	270	<1	17	<1	143	1
SCRS_223_08	<5	<0.5	9	88	50	<1	2	<1	6	<1
SCRS_224_08	9	4.8	38	195	40	<1	9	<1	130	2
SCRS_225_08	<5	1.9	17	144	190	<1	4	<1	57	<1
SCRS_226_08	<5	<0.5	13	136	120	<1	3	<1	39	<1
SCRS_227_08	<5	2.8	13	87	20	<1	3	<1	167	<1
SCRS_228_08	<5	1.3	36	189	80	<1	7	<1	80	<1
SCRS_236_08	23	1.6	36	230	20	<1	9	<1	38	1
SCRS_240_08	18	1.2	31	791	20	<1	7	<1	21	<1
SCRS_241_08	<5	<0.5	15	71	110	<1	3	<1	<5	<1
SCRS_242_08	15	3.0	228	221	110	<1	46	<1	125	5
SCRS_243_08	6	4.1	59	210	60	<1	12	<1	155	1
*Rep SCRS_243_08	6	2.7	41	239	40	<1	8	<1	167	<1
SCRS_257_08	5	<0.5	38	1180	250	<1	7	<1	<5	2
SCRS_258_08	<5	1.9	67	336	80	<1	14	<1	98	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	10	0.7	58	3060	580	<1	12	<1	26	3
SCRS_260_08	<5	1.7	19	166	80	<1	5	<1	36	<1
SCRS_271_08	<5	<0.5	28	82	500	<1	6	<1	11	<1
SCRS_272_08	<5	<0.5	39	74	410	<1	8	<1	20	<1
SCRS_273_08	<5	<0.5	41	101	550	<1	8	<1	35	<1
SCRS_274_08	<5	1.0	28	166	4100	<1	6	<1	128	<1
SCRS_275_08	<5	<0.5	8	37	40	<1	2	<1	42	<1
SCRS_276_08	<5	1.0	4	50	<10	<1	1	<1	390	<1
SCRS_284_08	<5	1.0	6	54	20	<1	1	<1	13	<1
SCRS_285_08	<5	<0.5	2	92	30	<1	<1	<1	25	<1
*Rep SCRS_285_08	<5	<0.5	2	67	20	<1	<1	<1	36	<1
SCRS_286_08	<5	<0.5	55	96	680	<1	11	<1	106	<1
SCRS_287_08	<5	<0.5	30	72	50	<1	7	<1	36	<1
SCRS_288_08	<5	<0.5	1	30	30	<1	<1	<1	9	<1
SCRS_289_08	<5	<0.5	288	91	30	<1	50	<1	62	<1
SCRS_290_08	<5	<0.5	35	181	70	<1	7	<1	229	<1
SCRS_291_08	5	<0.5	32	1140	<10	<1	6	<1	12	<1
SCRS_292_08	9	1.5	148	696	30	<1	34	<1	14	3
SCRS_293_08	<5	<0.5	7	96	20	<1	2	<1	29	<1
SCRS_294_08	56	0.7	45	1230	20	<1	10	<1	6	2
SCRS_295_08	<5	<0.5	1	179	10	<1	<1	<1	17	<1
SCRS_296_08	<5	<0.5	15	245	10	<1	3	<1	13	<1
SCRS_297_08	<5	<0.5	56	665	30	<1	12	<1	10	<1
*Rep SCRS_297_08	<5	<0.5	66	773	40	<1	14	<1	16	<1
SCRS_298_08	<5	0.5	189	127	40	<1	46	<1	37	<1
SCRS_299_08	<5	<0.5	48	436	40	<1	9	<1	17	<1
SCRS_300_08	<5	<0.5	79	1530	80	<1	16	<1	15	<1
SCRS_301_08	<5	<0.5	42	175	<10	<1	10	<1	49	<1
SCRS_302_08	<5	<0.5	64	588	30	<1	14	<1	36	<1
SCRS_303_08	<5	<0.5	6	599	40	<1	<1	<1	47	<1
SCRS_304_08	<5	<0.5	25	303	20	<1	5	<1	18	<1
SCRS_305_08	<5	0.5	122	261	10	<1	25	<1	16	<1
SCRS_306_08	<5	<0.5	577	195	70	<1	101	<1	56	<1
SCRS_307_08	<5	<0.5	79	100	30	<1	19	<1	32	<1
SCRS_308_08	32	0.5	16	1310	40	<1	3	<1	16	4
SCRS_309_08	<5	0.8	18	179	<10	<1	4	<1	17	<1
*Rep SCRS_309_08	<5	1.1	21	183	10	<1	5	<1	13	<1
SCRS_310_08	<5	0.8	25	458	20	<1	5	<1	61	<1
SCRS_311_08	<5	<0.5	5	360	<10	<1	<1	<1	44	<1
SCRS_312_08	6	<0.5	2	1070	10	<1	<1	<1	76	<1
SCRS_313_08	<5	0.6	16	482	20	<1	3	<1	40	<1
SCRS_9211_08	<5	1.1	22	115	20	<1	5	<1	50	<1
*Std MMISRM16	48	<0.5	20	246	120	29	4	<1	354	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	53	<0.5	16	290	120	29	3	<1	343	<1
*Std MMISRM16	53	<0.5	16	300	130	28	3	<1	347	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	<5	3	<1	2850	<1	<1	<10	2.4	14	<0.5
*Rep 5552_1_08	<5	3	<1	2460	<1	<1	<10	1.6	14	<0.5
5552_2_08	60	131	<1	20	<1	16	<10	124	590	0.8
5552_3_08	73	23	<1	70	<1	8	<10	27.8	727	<0.5
5552_4_08	115	76	<1	30	<1	16	<10	35.7	367	<0.5
5552_5_08	61	39	<1	430	<1	10	<10	25.5	187	<0.5
5552_6_08	70	14	<1	400	<1	4	<10	30.0	936	0.7
5552_7_08	57	5	<1	140	<1	2	<10	27.7	1070	<0.5
5552_8_08	28	11	<1	80	<1	4	<10	12.9	377	<0.5
SCRS_50_08	<5	<1	<1	2540	<1	<1	<10	1.1	22	<0.5
SCRS_67_08	77	4	<1	190	<1	1	<10	13.3	565	1.0
SCRS_107_08	17	3	<1	460	<1	<1	<10	14.3	581	<0.5
SCRS_108_08	32	26	<1	1050	<1	6	<10	33.8	348	<0.5
SCRS_109_08	26	14	<1	930	<1	4	<10	7.2	14	<0.5
*Rep SCRS_109_08	17	10	<1	870	<1	2	<10	6.7	13	<0.5
SCRS_190_08	<5	6	<1	1030	<1	1	<10	5.6	7	<0.5
SCRS_191_08	14	3	<1	360	<1	<1	<10	11.3	586	<0.5
SCRS_192_08	22	4	<1	130	<1	2	<10	12.0	501	<0.5
SCRS_193_08	<5	2	<1	220	<1	<1	<10	1.6	30	<0.5
SCRS_194_08	24	3	<1	170	<1	<1	<10	12.5	711	<0.5
SCRS_195_08	23	3	<1	10	<1	<1	<10	18.6	440	0.5
SCRS_196_08	38	45	<1	120	<1	9	<10	68.1	1370	1.0
SCRS_197_08	<5	3	<1	170	<1	<1	<10	1.8	29	<0.5
SCRS_198_08	<5	5	<1	260	<1	1	<10	1.7	18	<0.5
SCRS_207_08	20	7	<1	1280	<1	1	<10	4.8	44	<0.5
SCRS_208_08	41	17	<1	120	<1	3	<10	52.7	2000	0.5
SCRS_209_08	14	3	<1	20	<1	<1	<10	16.7	369	<0.5
*Rep SCRS_209_08	22	5	<1	10	<1	2	<10	20.0	344	<0.5
SCRS_210_08	96	40	<1	180	<1	11	<10	77.0	2190	<0.5
SCRS_223_08	<5	3	<1	1280	<1	<1	<10	1.7	13	<0.5
SCRS_224_08	75	14	<1	180	<1	3	<10	50.3	2010	0.8
SCRS_225_08	94	5	<1	250	<1	2	<10	14.8	1280	<0.5
SCRS_226_08	101	4	<1	340	<1	2	<10	6.3	139	0.6
SCRS_227_08	114	4	<1	190	<1	<1	<10	17.4	1690	<0.5
SCRS_228_08	118	12	<1	170	<1	5	<10	12.0	1190	<0.5
SCRS_236_08	33	8	<1	410	<1	2	<10	8.3	433	1.6
SCRS_240_08	<5	7	<1	2680	<1	<1	<10	2.3	21	<0.5
SCRS_241_08	14	6	<1	410	<1	2	<10	2.4	64	<0.5
SCRS_242_08	185	79	<1	590	<1	18	<10	38.3	1530	0.9
SCRS_243_08	44	24	<1	410	<1	5	<10	36.5	1920	0.6
*Rep SCRS_243_08	40	17	<1	400	<1	3	<10	27.0	1080	0.5
SCRS_257_08	12	12	<1	670	<1	3	<10	1.7	32	<0.5
SCRS_258_08	21	19	<1	1480	<1	3	<10	11.0	125	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	65	18	<1	560	<1	5	<10	8.1	89	<0.5
SCRS_260_08	33	5	<1	230	<1	<1	<10	15.5	648	<0.5
SCRS_271_08	19	9	<1	460	<1	2	<10	5.1	34	<0.5
SCRS_272_08	13	13	<1	640	<1	4	<10	2.6	21	<0.5
SCRS_273_08	72	16	<1	430	<1	6	<10	12.8	41	<0.5
SCRS_274_08	62	10	<1	550	<1	3	<10	18.5	433	<0.5
SCRS_275_08	37	2	<1	330	<1	<1	<10	6.8	85	<0.5
SCRS_276_08	6	<1	<1	250	<1	<1	<10	6.8	327	1.5
SCRS_284_08	18	1	<1	260	<1	<1	<10	4.7	309	<0.5
SCRS_285_08	6	3	<1	3980	<1	1	<10	2.9	<3	<0.5
*Rep SCRS_285_08	5	2	<1	3540	<1	<1	<10	1.8	<3	<0.5
SCRS_286_08	<5	14	<1	360	<1	2	<10	7.2	30	0.6
SCRS_287_08	9	6	<1	620	<1	1	<10	3.4	11	0.6
SCRS_288_08	<5	<1	<1	640	<1	<1	<10	<0.5	<3	<0.5
SCRS_289_08	75	94	<1	1420	<1	16	<10	22.8	10	<0.5
SCRS_290_08	38	13	<1	350	<1	3	<10	12.5	151	0.7
SCRS_291_08	11	9	<1	370	<1	1	<10	6.3	4	<0.5
SCRS_292_08	98	36	<1	740	<1	7	<10	29.9	173	<0.5
SCRS_293_08	<5	2	<1	430	<1	<1	<10	1.0	13	<0.5
RS_294_08	16	11	<1	1010	<1	2	<10	9.0	40	<0.5
RS_295_08	<5	3	<1	3190	<1	1	<10	1.5	<3	<0.5
SCRS_296_08	<5	5	<1	4880	<1	<1	<10	1.7	<3	<0.5
SCRS_297_08	13	15	<1	1720	<1	2	<10	15.2	8	<0.5
*Rep SCRS_297_08	16	16	<1	1660	<1	2	<10	16.9	12	<0.5
SCRS_298_08	65	36	<1	3370	<1	5	<10	22.2	30	<0.5
SCRS_299_08	8	16	<1	1900	<1	3	<10	3.1	4	<0.5
SCRS_300_08	35	25	<1	1070	<1	6	<10	5.3	4	<0.5
SCRS_301_08	107	11	<1	900	<1	2	<10	4.1	27	<0.5
SCRS_302_08	45	17	<1	790	<1	4	<10	5.3	19	<0.5
SCRS_303_08	8	14	<1	1730	<1	4	<10	3.4	<3	1.0
SCRS_304_08	<5	8	<1	3320	<1	2	<10	4.0	<3	<0.5
SCRS_305_08	15	30	<1	3180	<1	4	<10	9.6	21	<0.5
SCRS_306_08	66	192	<1	1270	<1	29	<10	40.6	8	<0.5
SCRS_307_08	40	16	<1	520	<1	3	<10	7.4	34	<0.5
SCRS_308_08	16	5	<1	650	<1	<1	<10	3.4	33	<0.5
SCRS_309_08	18	4	<1	1260	<1	<1	<10	2.9	43	<0.5
*Rep SCRS_309_08	26	5	<1	1250	<1	<1	<10	3.2	61	<0.5
SCRS_310_08	193	8	<1	410	<1	3	<10	11.9	233	0.6
SCRS_311_08	29	2	<1	920	<1	<1	<10	2.1	6	<0.5
SCRS_312_08	<5	<1	<1	410	<1	<1	<10	0.8	7	7.5
SCRS_313_08	81	5	<1	500	<1	1	<10	3.6	153	<0.5
SCRS_9211_08	54	10	<1	310	<1	3	<10	23.2	377	<0.5
*Std MMISRM16	12	6	<1	500	<1	<1	<10	30.1	4	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	12	5	<1	480	<1	<1	<10	24.4	<3	<0.5
*Std MMISRM16	12	5	<1	480	<1	<1	<10	24.7	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Final : TO102356 Order

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	26	<1	23	2	30	<5
*Rep 5552_1_08	34	<1	19	2	40	<5
5552_2_08	25	<1	309	18	70	141
5552_3_08	12	<1	331	28	260	57
5552_4_08	16	<1	424	40	110	56
5552_5_08	6	<1	370	42	430	33
5552_6_08	8	<1	143	13	210	58
5552_7_08	6	<1	86	12	200	45
5552_8_08	4	<1	163	16	170	29
SCRS_50_08	14	<1	7	<1	1120	<5
SCRS_67_08	17	<1	60	8	140	53
SCRS_107_08	5	<1	20	2	230	41
SCRS_108_08	23	<1	148	8	170	42
SCRS_109_08	91	<1	136	8	290	20
*Rep SCRS_109_08	43	<1	78	5	230	17
SCRS_190_08	4	<1	38	2	180	<5
SCRS_191_08	8	<1	19	2	100	50
SCRS_192_08	4	<1	83	7	760	62
SCRS_193_08	2	<1	21	2	720	6
~RS_194_08	4	<1	23	5	410	28
,RS_195_08	7	<1	28	4	270	48
SCRS_196_08	15	1	124	8	640	133
SCRS_197_08	2	<1	24	1	340	<5
SCRS_198_08	6	<1	46	2	530	8
SCRS_207_08	15	<1	61	4	520	11
SCRS_208_08	15	1	71	7	260	143
SCRS_209_08	6	<1	14	2	400	38
*Rep SCRS_209_08	8	<1	48	4	580	48
SCRS_210_08	22	1	320	23	950	149
SCRS_223_08	8	<1	38	2	2050	<5
SCRS_224_08	25	1	66	7	3220	151
SCRS_225_08	8	<1	97	13	2670	62
SCRS_226_08	11	<1	108	12	570	13
SCRS_227_08	11	2	39	5	990	81
SCRS_228_08	5	<1	200	18	2950	38
SCRS_236_08	38	<1	62	10	1000	47
SCRS_240_08	5	<1	20	<1	280	<5
SCRS_241_08	6	<1	102	9	4700	8
SCRS_242_08	91	1	500	42	1020	161
SCRS_243_08	16	1	87	6	1510	94
*Rep SCRS_243_08	16	<1	68	5	2530	76
SCRS_257_08	20	<1	154	9	470	7
SCRS_258_08	14	<1	79	5	970	40

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	62	<1	189	11	240	25
SCRS_260_08	20	<1	34	5	110	38
SCRS_271_08	11	<1	101	6	270	17
SCRS_272_08	8	<1	166	10	690	7
SCRS_273_08	14	<1	387	32	360	19
SCRS_274_08	5	<1	103	9	4210	33
SCRS_275_08	6	<1	26	31	20	19
SCRS_276_08	3	<1	7	1	<20	26
SCRS_284_08	7	<1	13	1	60	21
SCRS_285_08	4	<1	42	3	90	<5
*Rep SCRS_285_08	4	<1	31	2	50	<5
SCRS_286_08	4	<1	57	4	710	12
SCRS_287_08	8	<1	33	2	40	9
SCRS_288_08	2	<1	7	<1	610	<5
SCRS_289_08	8	<1	448	21	80	18
SCRS_290_08	5	<1	67	4	210	33
SCRS_291_08	4	<1	46	3	30	8
SCRS_292_08	24	<1	241	20	100	77
SCRS_293_08	4	<1	14	<1	230	5
SCRS_294_08	33	<1	66	6	130	15
SCRS_295_08	2	<1	43	2	80	7
SCRS_296_08	12	<1	32	1	<20	<5
SCRS_297_08	9	<1	77	5	130	<5
*Rep SCRS_297_08	10	<1	92	6	130	6
SCRS_298_08	9	<1	205	14	70	41
SCRS_299_08	29	<1	113	5	100	9
SCRS_300_08	17	<1	232	13	240	8
SCRS_301_08	9	<1	108	8	30	18
SCRS_302_08	13	<1	148	10	210	16
SCRS_303_08	3	<1	165	6	280	<5
SCRS_304_08	8	<1	57	3	140	<5
SCRS_305_08	4	<1	108	6	50	10
SCRS_306_08	16	<1	709	31	130	18
SCRS_307_08	20	<1	90	6	30	25
SCRS_308_08	47	<1	31	2	520	5
SCRS_309_08	9	<1	30	2	30	7
*Rep SCRS_309_08	12	<1	38	3	40	8
SCRS_310_08	10	<1	137	14	<20	55
SCRS_311_08	6	<1	37	3	<20	6
SCRS_312_08	12	<1	9	<1	230	<5
SCRS_313_08	6	<1	68	7	170	12
SCRS_9211_08	14	<1	73	6	610	27
*Std MMISRM16	48	<1	12	<1	250	15

SGS

Final : TO102356 Order

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	47	<1	11	<1	220	12
*Std MMISRM16	48	<1	11	<1	230	12
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

APPENDIX 2

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	18	186	10	<0.1	1160	<1	690	18	829	334	<100	260
DUP-CHYS_545_08	17	174	10	<0.1	1110	<1	700	17	958	283	<100	230
SCRS_12_08	1	110	10	<0.1	1220	<1	80	6	70	355	<100	1020
DUP-SCRS_12_08	<1	102	10	<0.1	1160	1	80	4	57	286	<100	1190
SCRS_24_08	9	19	20	0.2	960	<1	750	6	122	136	<100	3170
DUP-SCRS_24_08	9	17	10	0.2	750	<1	750	7	103	110	<100	2320
SCRS_48_08	45	12	<10	1.2	720	<1	490	10	<5	21	<100	240
DUP-SCRS_48_08	44	13	<10	1.3	710	<1	470	12	<5	41	<100	250
SCRS_55_08	8	19	<10	0.1	580	<1	580	11	73	73	<100	350
DUP-SCRS_55_08	8	20	<10	<0.1	610	<1	550	12	110	93	<100	580
SCRS_68_08	18	29	<10	0.2	290	<1	570	13	<5	<5	<100	330
DUP-SCRS_68_08	15	38	<10	0.2	310	<1	650	15	5	<5	<100	240
SCRS_98_08	6	53	<10	0.1	610	<1	350	7	29	16	<100	230
DUP-SCRS_98_08	7	63	<10	<0.1	550	<1	320	8	41	14	<100	180
SCRS_117_08	3	154	<10	<0.1	640	<1	10	1	73	63	<100	200
DUP-SCRS_117_08	4	162	10	<0.1	720	<1	20	8	101	67	<100	250
SCRS_129_08	3	11	<10	<0.1	2640	<1	640	50	25	25	<100	90
DUP-SCRS_129_08	2	10	<10	<0.1	2480	<1	600	64	26	36	<100	60
SCRS_31_08	4	67	<10	0.1	340	<1	570	11	20	34	<100	160
DUP-SCRS_31_08	3	71	<10	0.1	360	<1	560	9	15	22	<100	110
SCRS_80_08	4	57	<10	1.9	370	<1	370	22	176	721	<100	2450
DUP-SCRS_80_08	3	48	<10	1.6	380	<1	350	14	206	695	<100	2800
SCRS_92_08	1	49	<10	<0.1	190	<1	710	4	28	155	<100	550
DUP-SCRS_92_08	1	51	<10	<0.1	220	<1	680	4	35	201	<100	870
SCRS_137_08	12	27	<10	0.2	310	<1	780	9	26	67	<100	380
DUP-SCRS_137_08	7	27	<10	0.1	260	<1	700	9	24	67	<100	380
SCRS_159_08	2	46	<10	<0.1	190	<1	770	12	<5	<5	<100	30
DUP-SCRS_159_08	1	48	<10	<0.1	120	<1	640	13	<5	<5	<100	20
SCRS_176_08	7	41	<10	<0.1	160	<1	710	6	30	20	<100	120
DUP-SCRS_176_08	6	40	<10	<0.1	130	<1	750	7	20	13	<100	90
SCRS_265_08	<1	76	<10	<0.1	210	<1	710	19	7	37	<100	80
DUP-SCRS_265_08	<1	68	<10	<0.1	190	<1	660	28	6	46	<100	90
555_1_08	16	13	<10	0.2	4280	<1	770	8	<5	220	<100	2840
DUP-555_1_08	13	15	<10	0.1	4000	<1	710	9	<5	216	<100	2930
SCRS_113_08	12	3	<10	0.3	100	<1	390	3	9	71	<100	530
DUP-SCRS_113_08	12	3	<10	0.3	100	<1	380	4	9	117	<100	540
SCRS_171_08	<1	6	<10	<0.1	500	<1	510	26	<5	23	<100	40
DUP-SCRS_171_08	<1	7	<10	<0.1	420	<1	510	20	<5	17	<100	30
SCRS_200_08	<1	239	<10	<0.1	560	2	<10	14	21	83	<100	100

DUP-SCRS_2[illegible]08	<1	259	<10	<0.1	440	1	<10	11	21	69	<100	[illegible]00
SCRS_217_08	<1	14	10	0.1	1090	<1	410	123	13	199	<100	1580
DUP-SCRS_217_08	<1	10	20	<0.1	1120	<1	410	83	12	149	<100	1320
SCRS_235_08	5	58	<10	0.6	1450	<1	430	26	127	307	<100	2000
DUP-SCRS_235_08	2	57	<10	0.5	1240	<1	390	26	63	281	<100	2340
SCRS_251_08	3	30	10	0.3	800	<1	570	10	161	314	<100	2350
DUP-SCRS_251_08	6	35	<10	0.4	810	<1	570	14	108	229	<100	2650
5552_1_08	<1	34	<10	<0.1	3660	<1	750	5	30	199	<100	1740
DUP-5552_1_08	<1	37	<10	<0.1	2980	<1	660	6	23	151	<100	1420
SCRS_109_08	33	57	<10	0.3	1470	<1	420	52	65	420	<100	640
DUP-SCRS_109_08	28	58	<10	0.3	1460	<1	390	32	54	525	<100	670
SCRS_209_08	2	256	<10	<0.1	180	<1	<10	<1	20	25	<100	490
DUP-SCRS_209_08	3	273	<10	<0.1	180	<1	<10	2	28	38	<100	350
SCRS_243_08	2	129	50	<0.1	2050	2	130	4	92	996	100	1010
DUP-SCRS_243_08	<1	126	30	<0.1	1560	1	110	4	62	1020	100	1060
SCRS_285_08	20	17	<10	<0.1	440	<1	690	10	<5	13	<100	720
DUP-SCRS_285_08	23	13	<10	<0.1	470	<1	700	7	<5	5	<100	640
SCRS_297_08	2	13	<10	0.3	440	<1	680	6	70	266	<100	1070
DUP-SCRS_297_08	5	12	<10	0.4	460	<1	680	5	84	291	<100	1290
SCRS_309_08	<1	37	<10	<0.1	1300	<1	710	3	33	190	<100	1000
DUP-SCRS_309_08	1	42	<10	0.1	1490	<1	670	6	41	154	<100	1550

Replicate Analyses of MMI Standard MMISRM16

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
MMISRM16	18	57	20	29.5	80	<1	240	4	26	67	<100	670
MMISRM16	20	59	20	32.2	60	<1	240	4	20	75	<100	710
MMISRM16	20	62	20	32.2	60	<1	250	4	21	80	<100	720
MMISRM16	19	50	20	31.5	70	<1	200	4	23	68	<100	690
MMISRM16	20	51	20	30.8	70	<1	200	4	24	66	<100	690
MMISRM16	21	52	20	34.9	70	<1	200	5	22	67	<100	700
MMISRM16	17	43	10	27.1	30	<1	280	3	10	51	<100	550
MMISRM16	16	47	20	25.8	50	<1	280	3	11	56	<100	600
MMISRM16	16	49	10	26	160	<1	280	3	14	55	<100	600
MMISRM16	19	41	10	27.1	30	<1	210	4	16	52	<100	540
MMISRM16	19	43	10	28	40	<1	200	4	16	52	<100	550
MMISRM16	17	63	20	28.2	90	<1	250	5	27	77	<100	700
MMISRM16	17	59	20	28.4	90	<1	240	5	27	77	<100	730

Recommended Values For The MMI Standard MMISRM16

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
MMISRM16	17	45	10	31.9	65	<1	209	4	13	58	<100	629

Replicate Analyses of the Analytical Blank

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	2	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	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	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
UNITS	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB
CHYS_545_08	187	115	38.7	44	191	391	7	92	<5	<0.5	576	3400
DUP-CHYS_545_08	177	107	39.8	36	195	438	7	90	<5	<0.5	615	3130
SCRS_12_08	12	5.9	2.8	437	12	41	<5	12	<5	2.3	49	722
DUP-SCRS_12_08	9	5	2.1	441	10	31	<5	13	<5	2.8	37	591
SCRS_24_08	15	6.6	5.3	43	23	43	<5	16	14	1.4	88	580
DUP-SCRS_24_08	12	5.8	4.6	40	19	36	<5	15	9	1.1	76	438
SCRS_48_08	10	4.1	2.7	6	16	2	<5	17	<5	<0.5	21	130
DUP-SCRS_48_08	10	4.1	2.5	5	15	2	<5	17	<5	<0.5	19	126
SCRS_55_08	12	7.4	3.1	18	15	15	<5	10	<5	<0.5	38	216
DUP-SCRS_55_08	14	8.1	3.8	28	18	24	<5	9	<5	<0.5	54	214
SCRS_68_08	4	1.9	1.1	8	5	3	<5	2	<5	<0.5	11	139
DUP-SCRS_68_08	4	2.1	1.1	8	5	4	<5	3	<5	<0.5	12	161
SCRS_98_08	18	7.2	6	17	24	21	<5	3	<5	<0.5	50	59
DUP-SCRS_98_08	24	10.8	7.9	22	31	29	<5	3	<5	<0.5	67	70
SCRS_117_08	9	6.4	2	315	9	29	<5	1	<5	2.5	31	119
DUP-SCRS_117_08	21	15.6	3.2	315	13	40	<5	1	<5	3	44	160
SCRS_129_08	10	5.1	2.6	13	12	10	<5	48	<5	<0.5	24	284
DUP-SCRS_129_08	12	6.4	2.7	11	13	9	<5	55	<5	<0.5	21	240
SCRS_31_08	5	2.6	1.5	16	7	10	<5	2	<5	<0.5	19	84
DUP-SCRS_31_08	4	2.5	1.4	13	7	9	<5	2	<5	<0.5	19	73
SCRS_80_08	16	8.4	4.5	201	20	35	<5	19	<5	<0.5	64	601
DUP-SCRS_80_08	16	9.1	4.8	234	22	40	<5	17	<5	<0.5	69	547
SCRS_92_08	3	2.2	0.9	42	5	10	<5	5	7	<0.5	16	207
DUP-SCRS_92_08	4	2.4	1.2	55	6	12	<5	5	7	0.5	21	228
SCRS_137_08	4	2.1	1.2	28	5	7	<5	30	<5	<0.5	14	397
DUP-SCRS_137_08	4	2.1	1	34	5	7	<5	30	<5	<0.5	13	359
SCRS_159_08	<1	0.6	<0.5	7	1	1	<5	35	<5	<0.5	3	72
DUP-SCRS_159_08	<1	<0.5	<0.5	6	<1	<1	<5	36	<5	<0.5	1	59
SCRS_176_08	13	6.2	3.7	12	21	14	<5	38	<5	<0.5	41	155
DUP-SCRS_176_08	11	4.6	3	11	18	10	<5	34	<5	<0.5	34	141
SCRS_265_08	3	2.1	0.6	45	3	3	<5	17	<5	<0.5	6	96
DUP-SCRS_265_08	3	2.1	<0.5	61	3	2	<5	17	<5	<0.5	4	73
555_1_08	3	2.8	<0.5	18	2	<1	<5	6	8	<0.5	<1	1060
DUP-555_1_08	3	2.6	<0.5	19	3	<1	<5	6	8	<0.5	<1	1130
SCRS_113_08	2	1	<0.5	11	3	2	<5	14	<5	<0.5	4	792
DUP-SCRS_113_08	3	1.2	<0.5	11	3	2	<5	14	<5	<0.5	5	837
SCRS_171_08	5	5	0.6	12	3	1	<5	12	<5	<0.5	4	53
DUP-SCRS_171_08	5	4	0.5	10	3	2	<5	10	<5	<0.5	4	57
SCRS_200_08	4	3.2	0.6	128	3	11	<5	1	<5	7.2	9	67

DUP-SCRS_2[illegible]_08	3	3.2	0.6	121	2	12	<5	1	<5	6.8	8	51
SCRS_217_08	2	1.2	0.8	45	3	5	<5	96	36	<0.5	10	1420
DUP-SCRS_217_08	1	0.8	0.6	45	3	5	<5	93	31	<0.5	9	1170
SCRS_235_08	31	14.5	8.1	118	39	47	12	47	<5	0.6	102	568
DUP-SCRS_235_08	19	9.1	4.2	162	22	23	11	42	<5	0.7	51	506
SCRS_251_08	21	11.4	5.6	118	29	59	<5	20	6	0.7	105	464
DUP-SCRS_251_08	15	7.8	3.9	100	21	38	<5	20	6	1	75	450
5552_1_08	3	1.9	0.7	62	4	15	<5	14	23	0.6	18	1340
DUP-5552_1_08	2	1.6	0.6	42	3	11	<5	13	21	0.6	14	915
SCRS_109_08	19	10.1	3.8	68	21	24	7	103	<5	<0.5	45	4520
DUP-SCRS_109_08	12	6.4	2.7	49	14	18	8	99	<5	<0.5	34	3340
SCRS_209_08	4	2.4	0.8	54	4	9	6	<1	<5	1	10	126
DUP-SCRS_209_08	12	6.5	1.6	42	8	11	6	<1	<5	1	16	120
SCRS_243_08	20	8.3	6.4	175	33	26	5	32	6	4.1	59	210
DUP-SCRS_243_08	16	6.6	4.7	181	24	18	5	29	6	2.7	41	239
SCRS_285_08	7	3.8	1.1	9	7	<1	<5	7	<5	<0.5	2	92
DUP-SCRS_285_08	5	2.4	0.9	7	5	<1	<5	7	<5	<0.5	2	67
SCRS_297_08	11	5.5	2.7	93	15	23	<5	30	<5	<0.5	56	665
DUP-SCRS_297_08	12	6.8	3.1	105	17	30	<5	28	<5	<0.5	66	773
SCRS_309_08	4	2.4	1	71	5	11	<5	28	<5	0.8	18	179
DUP-SCRS_309_08	5	3.1	1.2	85	6	13	<5	28	<5	1.1	21	183
Replicate Analyses o[illegible]												
ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	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	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
UNITS	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB
MMISRM16	3	1	1.2	3	6	6	<5	39	48	<0.5	20	246
MMISRM16	2	1	1.1	3	5	5	<5	40	53	<0.5	16	290
MMISRM16	3	1.1	1.1	3	5	5	<5	43	53	<0.5	16	300
MMISRM16	3	1	1.3	3	6	6	<5	40	56	<0.5	20	271
MMISRM16	3	0.9	1.2	3	5	6	<5	41	56	<0.5	19	237
MMISRM16	3	1.2	1.3	3	6	5	<5	40	57	<0.5	19	261
MMISRM16	2	0.7	0.7	3	3	2	<5	41	38	<0.5	10	190
MMISRM16	2	0.9	0.7	4	4	3	<5	39	40	<0.5	11	212
MMISRM16	2	0.8	0.8	3	4	4	<5	41	40	<0.5	12	212
MMISRM16	2	0.9	1	2	5	4	<5	33	55	<0.5	14	178
MMISRM16	2	0.8	1.1	2	4	4	<5	33	54	<0.5	14	188
MMISRM16	4	1.3	1.6	4	7	7	<5	39	55	<0.5	24	288
MMISRM16	4	1.4	1.7	4	7	8	<5	39	57	<0.5	24	292

Recommended Value												
ANALYTE	**Dy**	**Er**	**Eu**	**Fe**	**Gd**	**La**	**Li**	**Mg**	**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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	2.7	1	1.5	2	<1	6	2	36	51	<0.5	17	250
Replicate Analyses of												
ANALYTE	**Dy**	**Er**	**Eu**	**Fe**	**Gd**	**La**	**Li**	**Mg**	**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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<1	<0.5	<0.5	<1	<1	<1	5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	1	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	3	<1	1	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	<1	<1	2	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	2	<1	<1	<5	<1	<5	<0.5	<1	5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	1	5	1	5	1	1	10	1	1
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	630	<1	132	<1	167	<1	129	143	<1	3430	<1	32
DUP-CHYS_545_08	560	<1	142	<1	162	<1	119	155	<1	3420	<1	31
SCRS_12_08	30	<1	12	<1	41	<1	29	11	<1	510	<1	2
DUP-SCRS_12_08	30	<1	9	<1	44	<1	28	8	<1	510	<1	2
SCRS_24_08	90	<1	19	<1	11	2	8	22	<1	3530	<1	3
DUP-SCRS_24_08	60	<1	16	<1	9	1	6	18	<1	3490	<1	3
SCRS_48_08	20	<1	2	<1	28	<1	<5	10	<1	1420	<1	2
DUP-SCRS_48_08	20	<1	2	<1	36	<1	<5	10	<1	1380	<1	2
SCRS_55_08	20	<1	7	<1	63	<1	13	11	<1	3550	<1	2
DUP-SCRS_55_08	20	<1	10	<1	50	<1	14	14	<1	3480	<1	2
SCRS_68_08	10	<1	2	<1	10	<1	<5	4	<1	990	<1	<1
DUP-SCRS_68_08	<10	<1	2	<1	12	<1	<5	4	<1	1160	<1	<1
SCRS_98_08	30	<1	9	<1	51	<1	10	18	<1	2110	<1	3
DUP-SCRS_98_08	50	<1	13	<1	56	<1	15	23	<1	1570	<1	4
SCRS_117_08	20	<1	7	<1	101	<1	29	7	<1	120	<1	1
DUP-SCRS_117_08	50	<1	11	<1	83	<1	42	11	<1	140	<1	3
SCRS_129_08	80	<1	4	<1	17	<1	12	8	<1	1460	<1	2
DUP-SCRS_129_08	100	<1	4	<1	22	<1	12	8	<1	1430	<1	2
SCRS_31_08	30	<1	4	<1	23	<1	5	5	<1	1200	<1	<1
DUP-SCRS_31_08	30	<1	3	<1	23	<1	<5	5	<1	1200	<1	<1
SCRS_80_08	50	<1	14	<1	21	<1	50	16	<1	1150	<1	3
DUP-SCRS_80_08	60	<1	15	<1	20	<1	43	16	<1	1000	<1	3
SCRS_92_08	<10	<1	4	<1	5	<1	<5	4	<1	2270	<1	<1
DUP-SCRS_92_08	<10	<1	4	<1	<5	<1	6	4	<1	2230	<1	<1
SCRS_137_08	10	<1	3	<1	13	<1	<5	4	<1	1230	<1	<1
DUP-SCRS_137_08	20	<1	2	<1	11	<1	<5	3	<1	1160	<1	<1
SCRS_159_08	20	<1	<1	<1	8	<1	<5	<1	<1	1110	<1	<1
DUP-SCRS_159_08	20	<1	<1	<1	6	<1	<5	<1	<1	940	<1	<1
SCRS_176_08	<10	<1	7	<1	46	<1	18	15	<1	370	<1	3
DUP-SCRS_176_08	<10	<1	5	<1	55	<1	<5	12	<1	360	<1	2
SCRS_265_08	70	<1	1	<1	<5	<1	8	2	<1	1260	<1	<1
DUP-SCRS_265_08	80	<1	<1	<1	<5	<1	9	1	<1	1120	<1	<1
555_1_08	20	<1	<1	<1	8	1	6	<1	<1	3560	<1	<1
DUP-555_1_08	20	<1	<1	<1	11	1	<5	<1	<1	3320	<1	<1
SCRS_113_08	<10	<1	<1	<1	11	<1	10	2	<1	640	<1	<1
DUP-SCRS_113_08	<10	<1	<1	<1	10	<1	12	2	<1	640	<1	<1
SCRS_171_08	50	<1	<1	<1	51	<1	12	2	<1	2980	<1	<1
DUP-SCRS_171_08	40	<1	<1	<1	57	<1	21	2	<1	3020	<1	<1
SCRS_200_08	200	<1	2	<1	39	<1	22	2	<1	60	<1	<1

DUP-SCRS_2[illegible]_08	200	<1	2	<1	53	<1	19	2	<1	50	<1	<1
SCRS_217_08	20	<1	2	<1	<5	7	10	2	<1	1860	<1	<1
DUP-SCRS_217_08	20	<1	2	<1	<5	6	5	2	<1	1800	<1	<1
SCRS_235_08	130	<1	20	<1	15	1	51	31	<1	1650	<1	6
DUP-SCRS_235_08	120	<1	11	<1	12	1	51	16	<1	1510	<1	3
SCRS_251_08	50	<1	22	<1	13	2	39	26	<1	2420	<1	4
DUP-SCRS_251_08	50	<1	15	<1	10	2	34	18	<1	2400	<1	3
5552_1_08	30	<1	4	<1	8	<1	<5	3	<1	2850	<1	<1
DUP-5552_1_08	30	<1	3	<1	8	<1	<5	3	<1	2460	<1	<1
SCRS_109_08	40	<1	10	<1	19	1	26	14	<1	930	<1	4
DUP-SCRS_109_08	40	<1	7	<1	18	<1	17	10	<1	870	<1	2
SCRS_209_08	60	<1	2	<1	102	<1	14	3	<1	20	<1	<1
DUP-SCRS_209_08	220	<1	4	<1	108	<1	22	5	<1	10	<1	2
SCRS_243_08	60	<1	12	<1	155	1	44	24	<1	410	<1	5
DUP-SCRS_243_08	40	<1	8	<1	167	<1	40	17	<1	400	<1	3
SCRS_285_08	30	<1	<1	<1	25	<1	6	3	<1	3980	<1	1
DUP-SCRS_285_08	20	<1	<1	<1	36	<1	5	2	<1	3540	<1	<1
SCRS_297_08	30	<1	12	<1	10	<1	13	15	<1	1720	<1	2
DUP-SCRS_297_08	40	<1	14	<1	16	<1	16	16	<1	1660	<1	2
SCRS_309_08	<10	<1	4	<1	17	<1	18	4	<1	1260	<1	<1
DUP-SCRS_309_08	10	<1	5	<1	13	<1	26	5	<1	1250	<1	<1

Replicate Analyses o

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	1	5	1	5	1	1	10	1	1
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
MMISRM16	120	29	4	<1	354	<1	12	6	<1	500	<1	<1
MMISRM16	120	29	3	<1	343	<1	12	5	<1	480	<1	<1
MMISRM16	130	28	3	<1	347	<1	12	5	<1	480	<1	<1
MMISRM16	120	29	3	<1	367	<1	19	6	<1	560	<1	<1
MMISRM16	110	27	3	<1	385	<1	9	6	<1	580	<1	<1
MMISRM16	120	29	3	<1	366	<1	14	6	<1	550	<1	<1
MMISRM16	70	21	2	<1	318	<1	9	3	<1	520	<1	<1
MMISRM16	80	20	2	<1	332	<1	10	3	<1	530	<1	<1
MMISRM16	80	20	2	<1	325	<1	10	3	<1	540	<1	<1
MMISRM16	100	25	2	<1	312	<1	12	4	<1	470	<1	<1
MMISRM16	100	26	2	<1	311	<1	12	4	<1	450	<1	<1
MMISRM16	150	29	4	<1	378	<1	16	7	<1	510	<1	<1
MMISRM16	150	31	4	<1	380	<1	15	7	<1	520	<1	<1

Recommended Value												
ANALYTE	**Pb**	**Pd**	**Pr**	**Pt**	**Rb**	**Sb**	**Sc**	**Sm**	**Sn**	**Sr**	**Ta**	**Tb**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**1**	**1**	**1**	**5**	**1**	**5**	**1**	**1**	**10**	**1**	**1**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	100	26	3	300	<1	13	5	1.7	503	<1	<1	<10
Replicate Analyses of												
ANALYTE	**Pb**	**Pd**	**Pr**	**Pt**	**Rb**	**Sb**	**Sc**	**Sm**	**Sn**	**Sr**	**Ta**	**Tb**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**1**	**1**	**1**	**5**	**1**	**5**	**1**	**1**	**10**	**1**	**1**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1

ANALYTE	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	0.5	3	0.5	1	1	5	1	20	5
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	<10	175	9	4.5	71	<1	1160	87	440	216
DUP-CHYS_545_08	<10	156	11	4.3	69	<1	1080	80	370	227
SCRS_12_08	<10	16.5	749	<0.5	6	<1	47	4	160	26
DUP-SCRS_12_08	<10	15.7	879	<0.5	6	<1	36	4	140	26
SCRS_24_08	<10	22.8	46	<0.5	9	<1	80	5	120	14
DUP-SCRS_24_08	<10	16.1	36	<0.5	8	<1	71	5	150	10
SCRS_48_08	<10	3.9	7	<0.5	3	<1	60	3	120	<5
DUP-SCRS_48_08	<10	4.2	4	<0.5	3	<1	57	3	180	<5
SCRS_55_08	<10	10.9	8	<0.5	8	<1	79	6	60	14
DUP-SCRS_55_08	<10	10.8	13	<0.5	8	<1	89	7	90	13
SCRS_68_08	<10	2.8	3	<0.5	2	<1	23	1	110	<5
DUP-SCRS_68_08	<10	2.7	4	<0.5	2	<1	24	2	180	<5
SCRS_98_08	<10	11.1	11	<0.5	10	<1	77	5	70	14
DUP-SCRS_98_08	<10	13	33	<0.5	12	<1	108	7	140	18
SCRS_117_08	<10	49.9	630	<0.5	5	<1	42	6	180	56
DUP-SCRS_117_08	<10	64.4	745	<0.5	6	<1	104	13	290	69
SCRS_129_08	<10	16.8	8	<0.5	8	<1	54	4	100	5
DUP-SCRS_129_08	<10	15.9	6	<0.5	5	<1	60	4	100	6
SCRS_31_08	<10	1.9	10	<0.5	6	<1	37	2	90	<5
DUP-SCRS_31_08	<10	1.9	5	<0.5	6	<1	37	2	70	<5
SCRS_80_08	<10	19.8	48	<0.5	22	<1	95	8	320	26
DUP-SCRS_80_08	<10	22.2	68	<0.5	21	<1	96	9	230	27
SCRS_92_08	<10	2.9	27	<0.5	8	<1	31	2	310	<5
DUP-SCRS_92_08	<10	3.4	34	<0.5	9	<1	39	3	330	5
SCRS_137_08	<10	3.9	6	<0.5	11	<1	34	2	50	<5
DUP-SCRS_137_08	<10	3.3	5	<0.5	11	<1	32	2	60	<5
SCRS_159_08	<10	1.1	7	<0.5	3	<1	8	<1	110	<5
DUP-SCRS_159_08	<10	0.6	6	<0.5	2	<1	6	<1	130	<5
SCRS_176_08	<10	10.5	37	<0.5	10	<1	100	5	40	13
DUP-SCRS_176_08	<10	9.7	32	<0.5	10	<1	79	3	60	13
SCRS_265_08	<10	1	35	<0.5	25	<1	34	2	320	6
DUP-SCRS_265_08	<10	0.9	60	<0.5	20	<1	26	1	280	5
555_1_08	<10	4	<3	1.1	8	<1	22	3	30	<5
DUP-555_1_08	<10	3.7	<3	0.9	9	<1	21	3	40	<5
SCRS_113_08	<10	1.7	11	<0.5	1	<1	16	<1	50	<5
DUP-SCRS_113_08	<10	1.7	6	<0.5	2	<1	18	1	60	<5
SCRS_171_08	<10	0.9	20	<0.5	3	<1	40	4	670	<5
DUP-SCRS_171_08	<10	0.8	35	<0.5	3	<1	38	3	470	<5
SCRS_200_08	<10	17.9	1560	<0.5	6	1	19	3	330	116

DUP-SCRS_2[illegible]_08	<10	16.8	1540	<0.5	5	<1	18	4	360	114
SCRS_217_08	<10	0.9	18	<0.5	32	<1	15	1	2920	<5
DUP-SCRS_217_08	<10	0.8	36	<0.5	25	<1	11	<1	2910	<5
SCRS_235_08	<10	11.9	70	<0.5	32	<1	191	11	420	22
DUP-SCRS_235_08	<10	9.8	108	<0.5	30	<1	117	8	420	20
SCRS_251_08	<10	19.5	44	<0.5	18	<1	139	9	130	24
DUP-SCRS_251_08	<10	13.3	45	<0.5	19	<1	106	7	110	22
5552_1_08	<10	2.4	14	<0.5	26	<1	23	2	30	<5
DUP-5552_1_08	<10	1.6	14	<0.5	34	<1	19	2	40	<5
SCRS_109_08	<10	7.2	14	<0.5	91	<1	136	8	290	20
DUP-SCRS_109_08	<10	6.7	13	<0.5	43	<1	78	5	230	17
SCRS_209_08	<10	16.7	369	<0.5	6	<1	14	2	400	38
DUP-SCRS_209_08	<10	20	344	<0.5	8	<1	48	4	580	48
SCRS_243_08	<10	36.5	1920	0.6	16	1	87	6	1510	94
DUP-SCRS_243_08	<10	27	1080	0.5	16	<1	68	5	2530	76
SCRS_285_08	<10	2.9	<3	<0.5	4	<1	42	3	90	<5
DUP-SCRS_285_08	<10	1.8	<3	<0.5	4	<1	31	2	50	<5
SCRS_297_08	<10	15.2	8	<0.5	9	<1	77	5	130	<5
DUP-SCRS_297_08	<10	16.9	12	<0.5	10	<1	92	6	130	6
SCRS_309_08	<10	2.9	43	<0.5	9	<1	30	2	30	7
DUP-SCRS_309_08	<10	3.2	61	<0.5	12	<1	38	3	40	8
Replicate Analyses o										
ANALYTE	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	0.5	3	0.5	1	1	5	1	20	5
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
MMISRM16	<10	30.1	4	<0.5	48	<1	12	<1	250	15
MMISRM16	<10	24.4	<3	<0.5	47	<1	11	<1	220	12
MMISRM16	<10	24.7	4	<0.5	48	<1	11	<1	230	12
MMISRM16	<10	25.9	9	<0.5	46	<1	11	<1	250	14
MMISRM16	<10	27.4	3	<0.5	45	<1	11	<1	250	15
MMISRM16	<10	25.4	<3	<0.5	44	<1	11	<1	270	20
MMISRM16	<10	19.7	<3	<0.5	38	<1	8	<1	270	12
MMISRM16	<10	22.6	<3	<0.5	41	<1	11	<1	210	14
MMISRM16	<10	22.2	3	<0.5	41	<1	11	<1	200	14
MMISRM16	<10	31.2	3	<0.5	45	<1	9	<1	180	13
MMISRM16	<10	32.3	3	<0.5	45	<1	9	<1	180	13
MMISRM16	<10	34.1	6	<0.5	54	<1	14	<1	250	18
MMISRM16	<10	34.5	5	<0.5	56	<1	15	1	250	18

Recommended Value										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	22	7	<0.5	45	<1	10	<1	306	15	
Replicate Analyses o										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	5	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	6
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	6
BLANK	<10	<0.5	4	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5

		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
	Mean	8.082	6.816	0.182	0.622	948.272	122.207	465.791
	Min	0.500	0.500	0.050	0.500	0.500	0.500	10.000
	Maximum	265.000	100.000	3.800	19.000	12300.000	4350.000	6730.000
	Std Dev	19.337	13.983	0.325	1.047	1265.254	348.741	760.024
Percentile	**25**	**0.500**	**0.500**	**0.050**	**0.500**	**160.000**	**20.000**	**105.000**

	Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Background Value (Avg of <= 1st quartile)	0.5	0.5	0.05	0.5	70.011236	11.436937	57.02381

Shell Creek - A Horizon

		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Percentile	**Mean**	4.040	3.420	0.083	0.550	367.510	161.565	786.300
	Min	0.500	0.500	0.050	0.500	0.500	0.500	10.000
	Maximum	106.000	70.000	1.100	2.000	4070.000	4350.000	4700.000
	Std Dev	14.002	8.973	0.129	0.260	617.068	590.185	988.817
	25	**0.500**	**0.500**	**0.050**	**0.500**	**30.000**	**20.000**	**177.500**

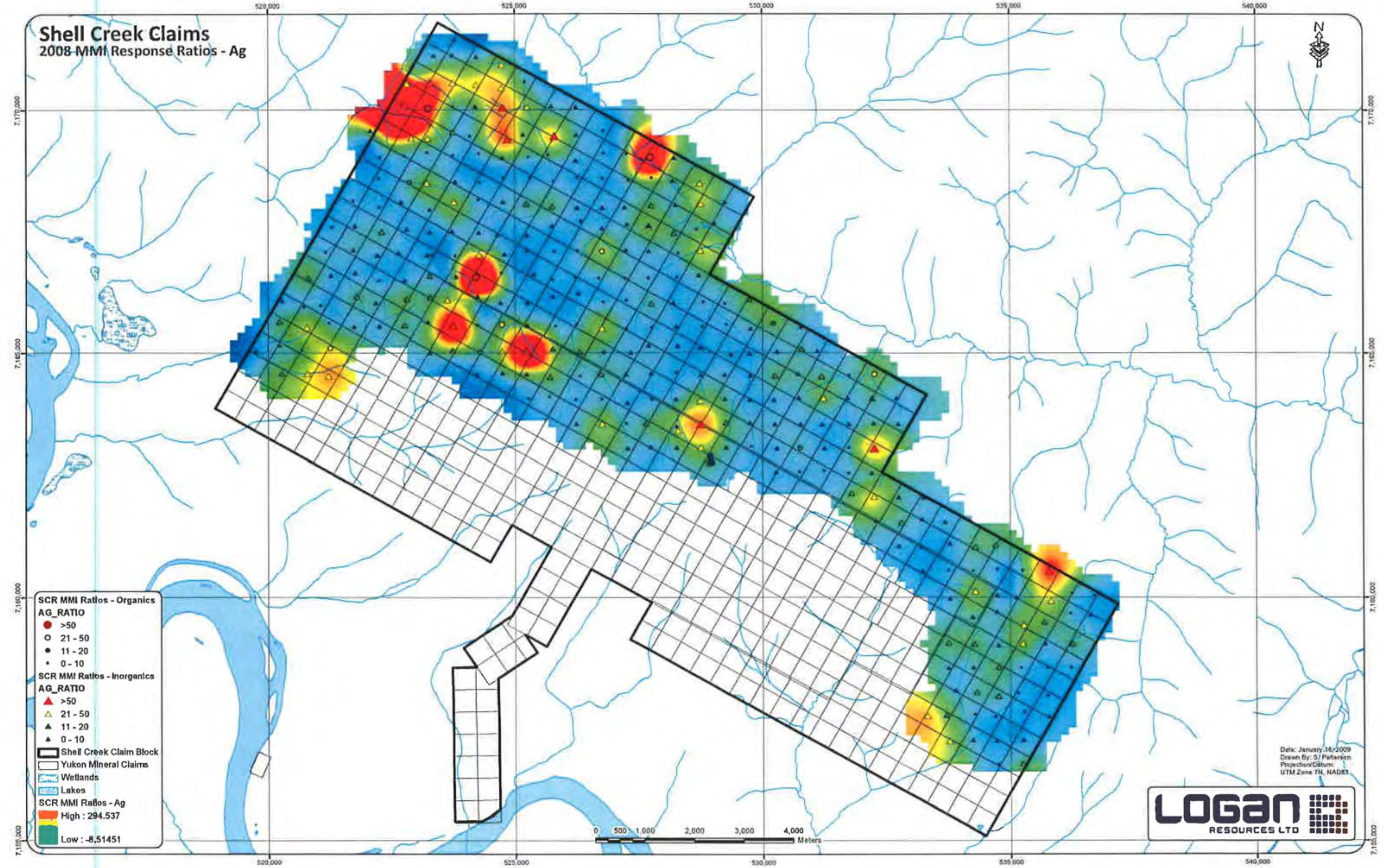
	Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Background Value (Avg of <= 1st quartile)	0.5	0.5	0.05	0.5	23	10.828125	106.8

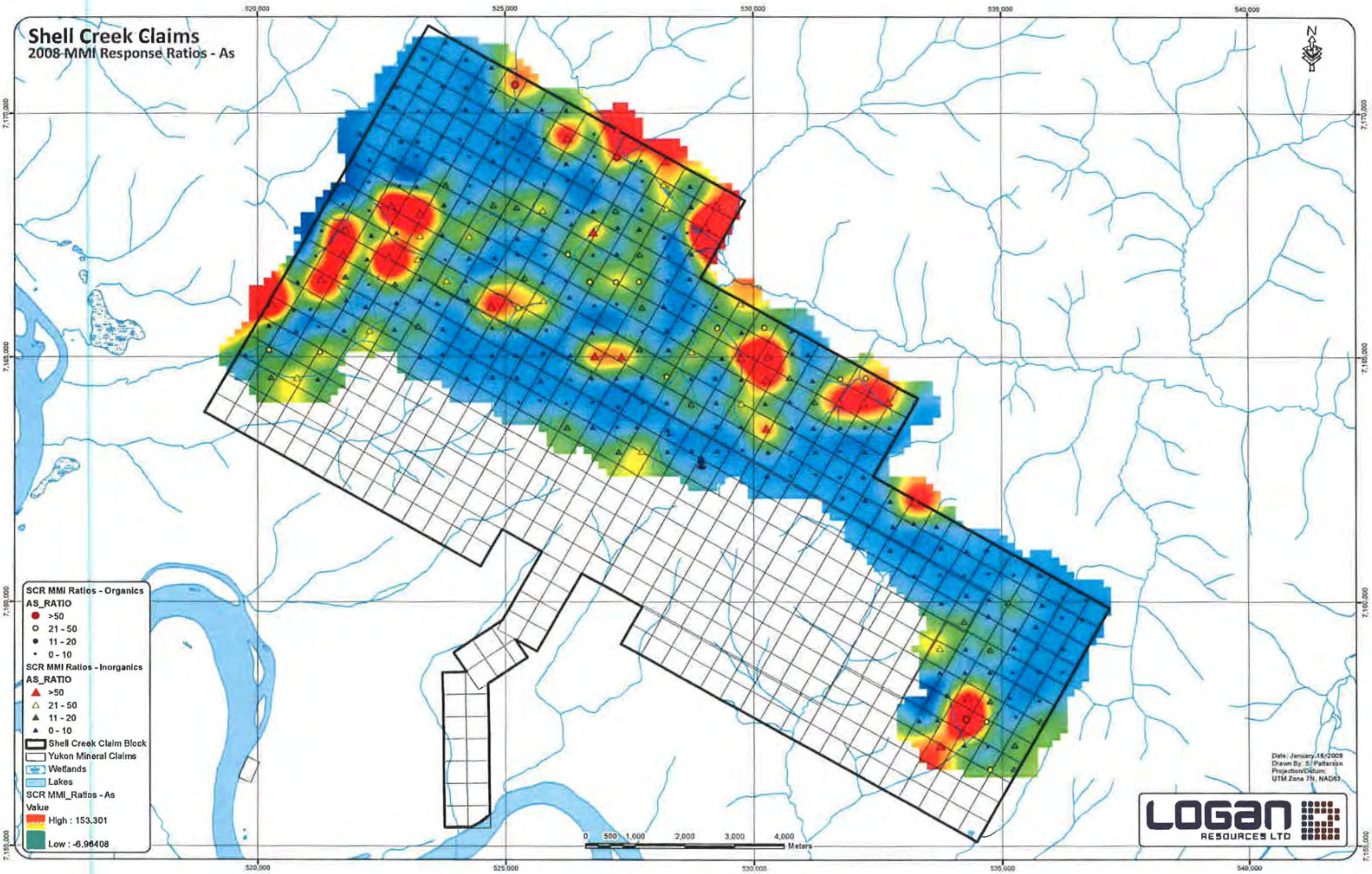
Shell Creek - B Horizon

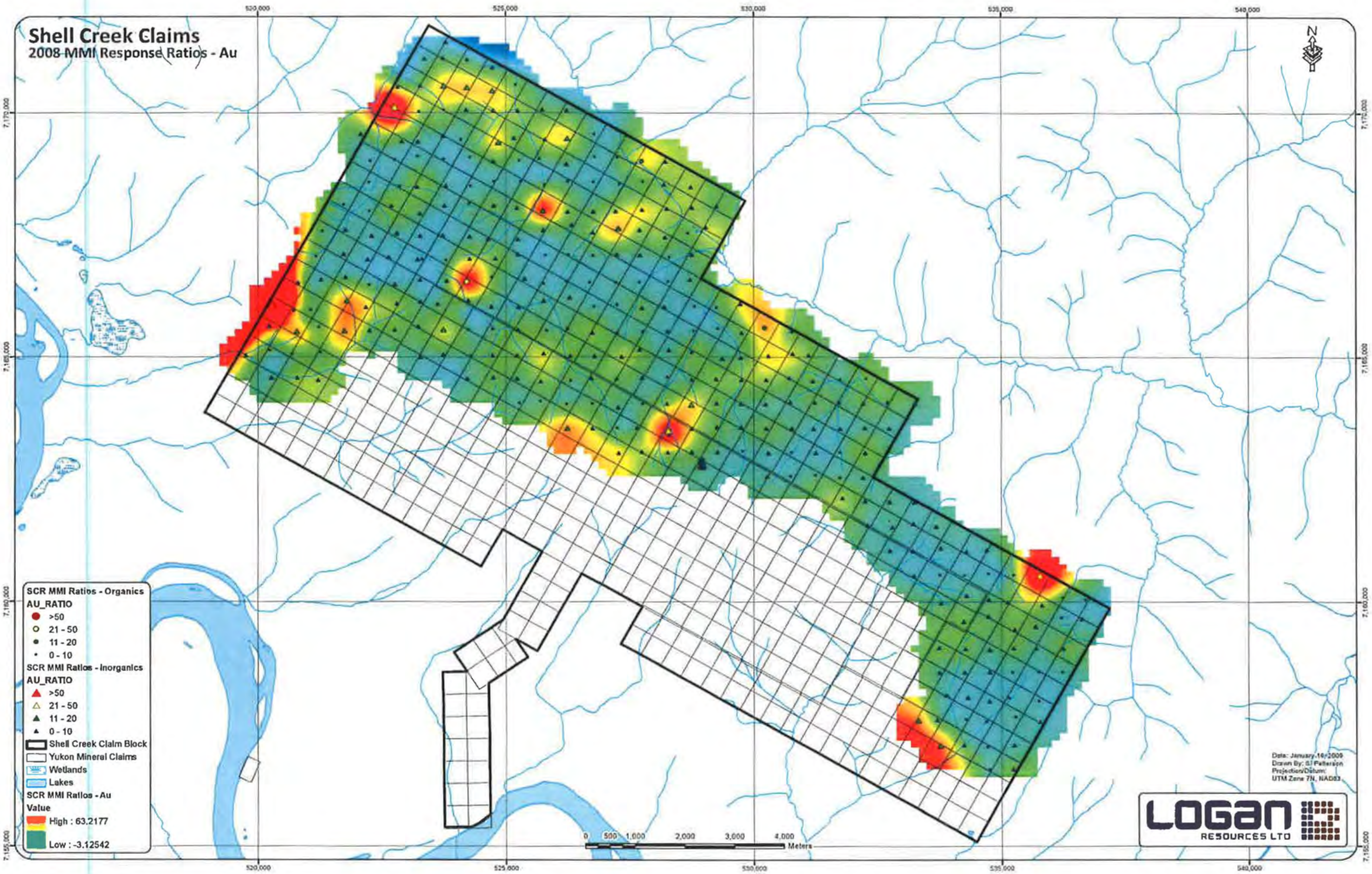
		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
	Mean	9.802	8.262	0.223	0.653	1195.404	105.460	329.404
	Min	0.500	0.500	0.050	0.500	20.000	0.500	10.000
	Maximum	265.000	100.000	3.800	19.000	12300.000	1320.000	6730.000
	Std Dev	20.969	15.409	0.371	1.237	1384.001	155.609	587.415
Percentile	**25**	**1.500**	**0.500**	**0.050**	**0.500**	**290.000**	**20.000**	**80.000**

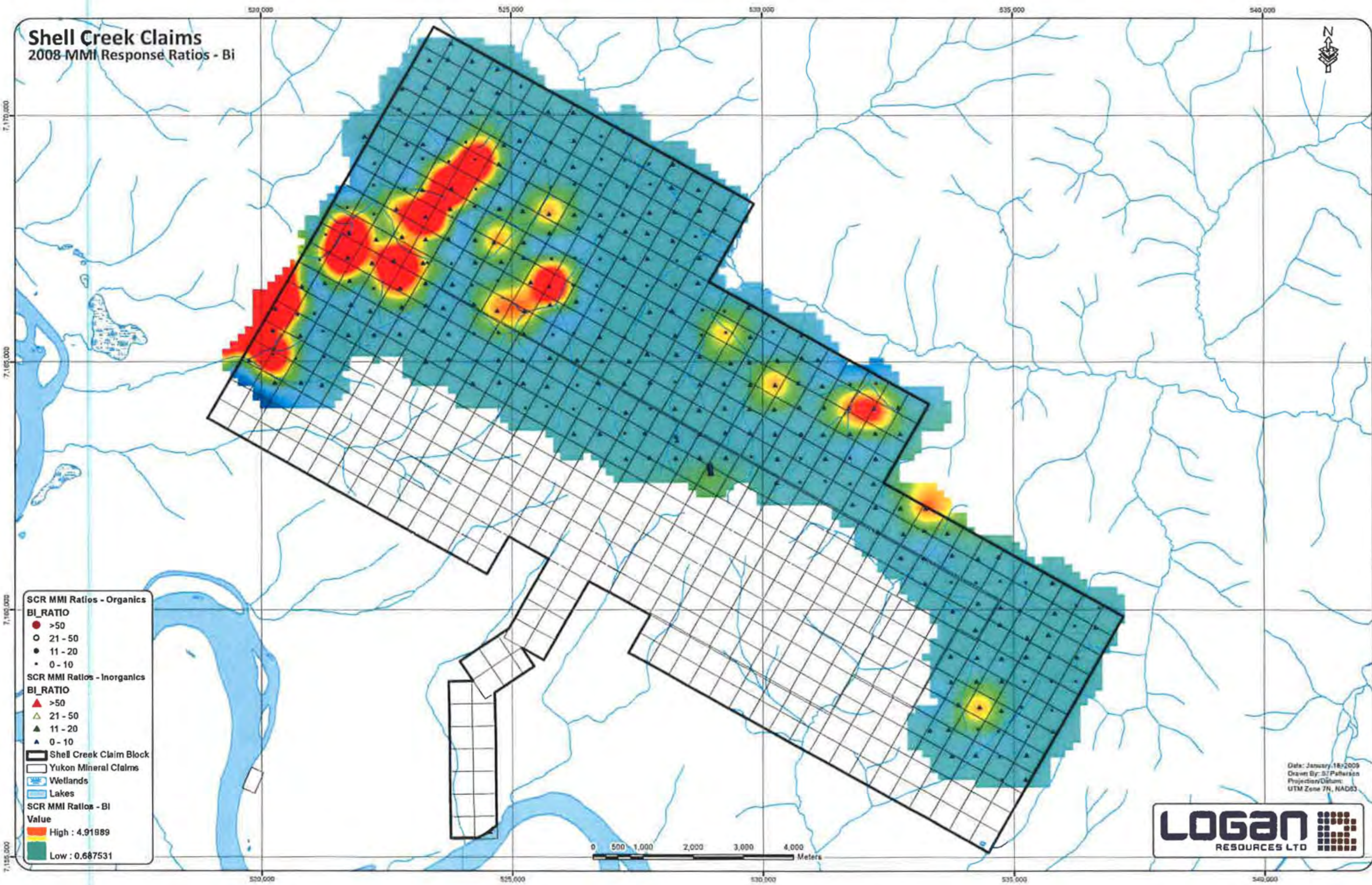
	Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Background Value (Avg of <= 1st quartile)	0.6695	0.5000	0.0500	0.5000	166.7213	11.6835	47.3333

APPENDIX 3

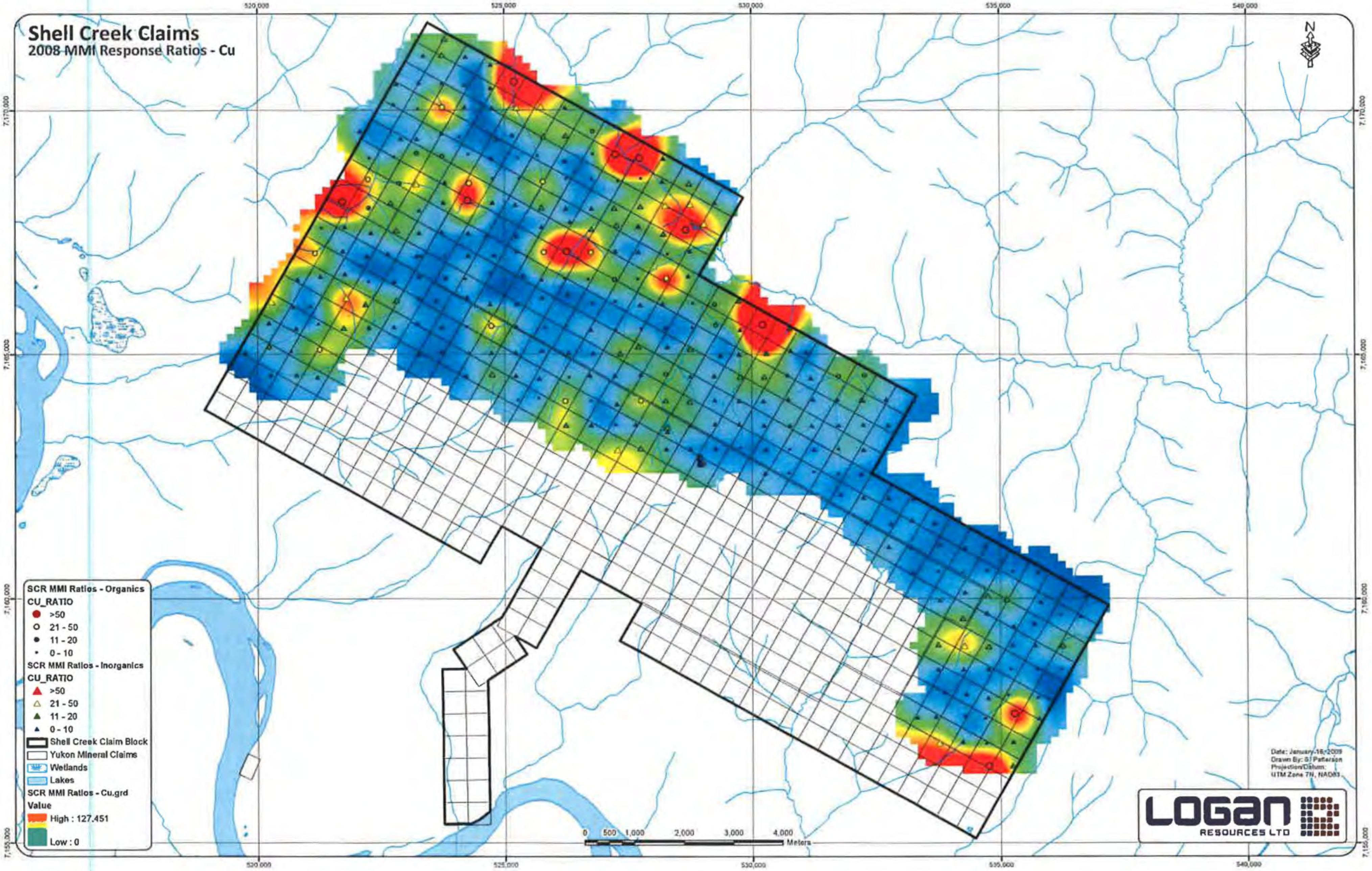

Shell Creek Claims
2008 MMI Response Ratios - Ag
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
AG_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AG_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Ag
High : 294.537
Low : -8.51451
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD


Shell Creek Claims
2008 MMI Response Ratios - As
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
N
SCR MMI Ratios - Organics
AS_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AS_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI_Ratios - As
Value
High : 153.301
Low : -6.96408
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

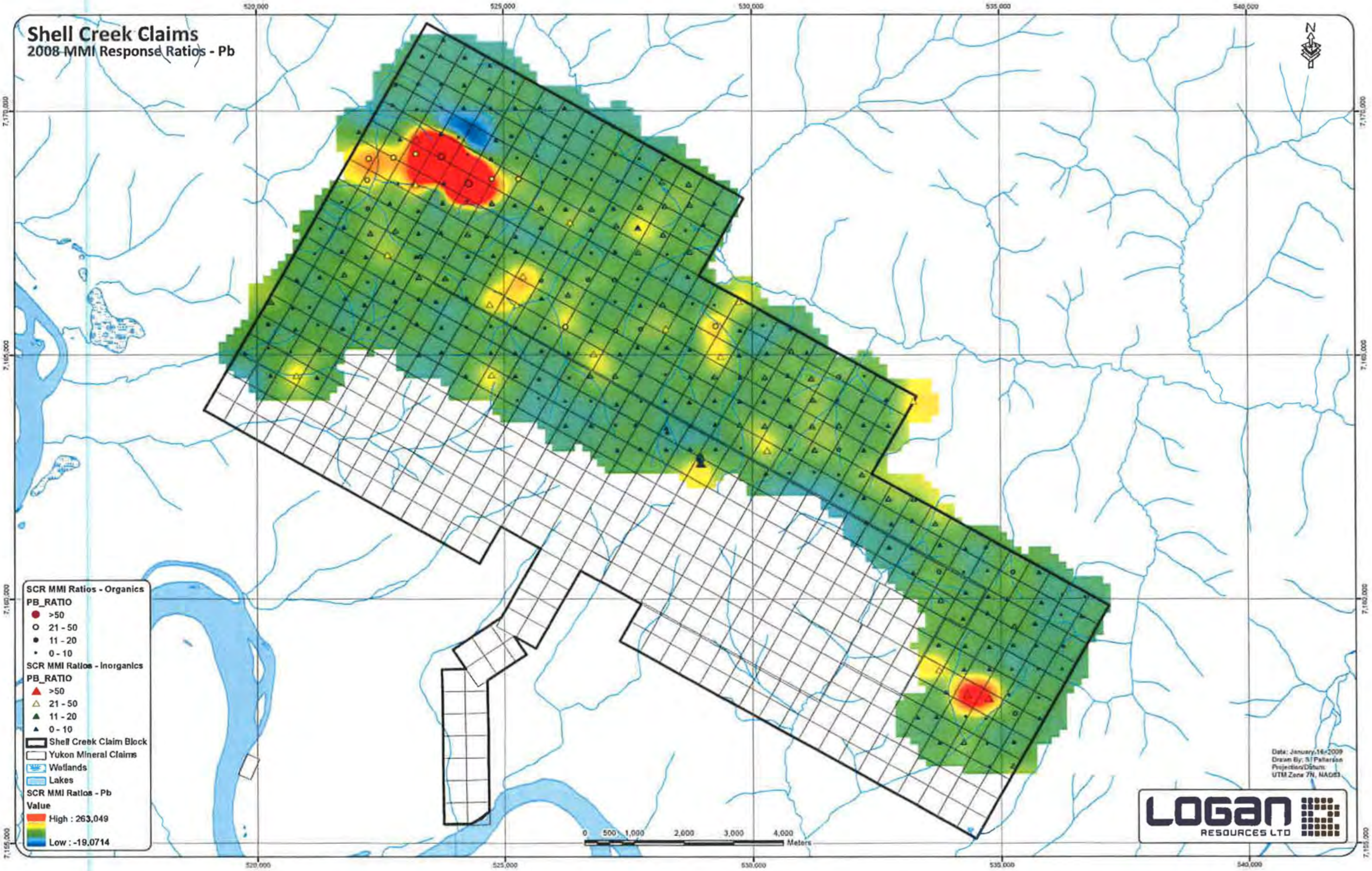

Shell Creek Claims
2008 MMI Response Ratios - Au
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
AU_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AU_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Au
Value
High : 63.2177
Low : -3.12542
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



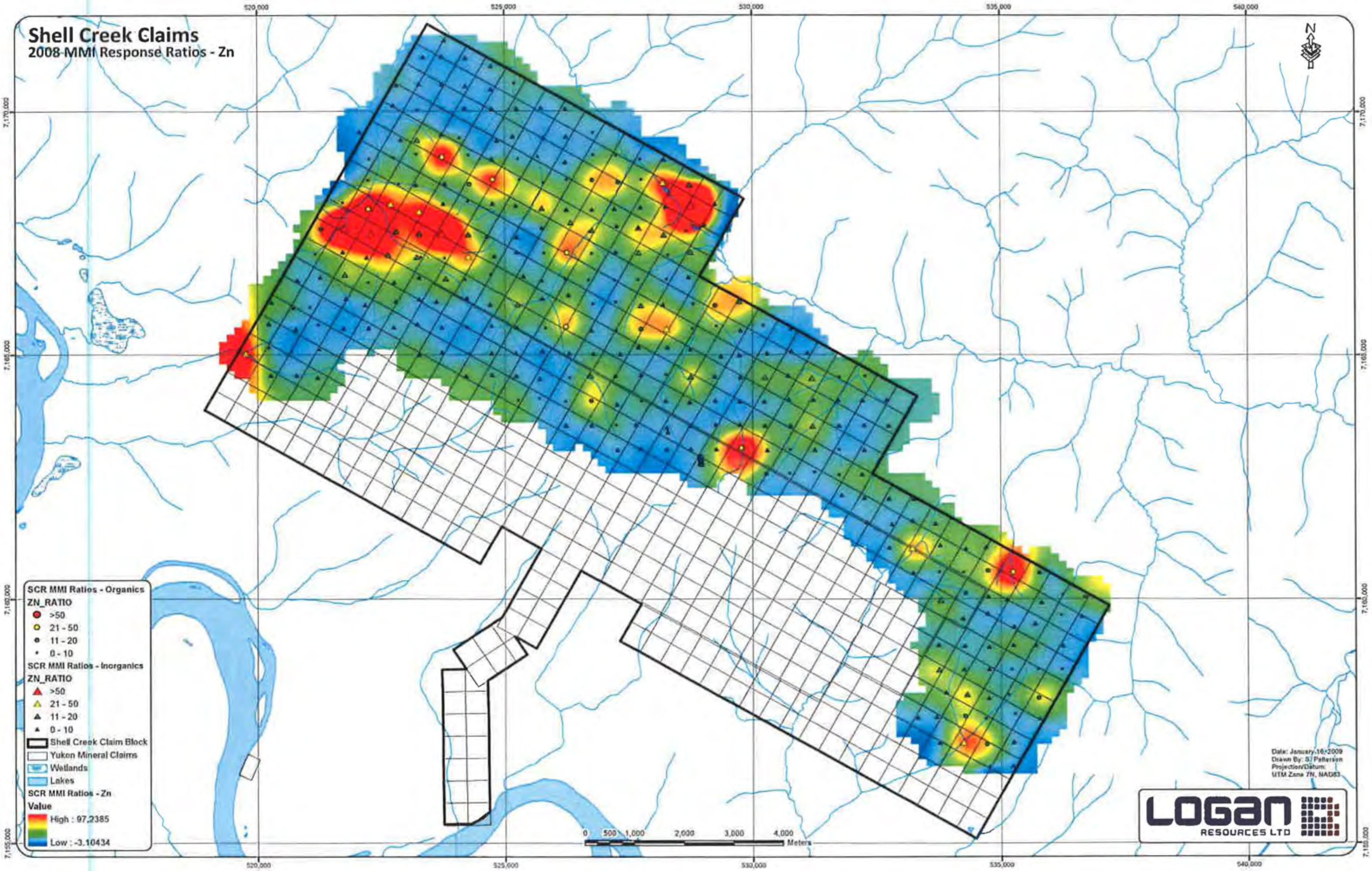
Shell Creek Claims
2008 MMI Response Ratios - Bi
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
BI_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
BI_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Bi
Value
High : 4.91889
Low : 0.687531
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



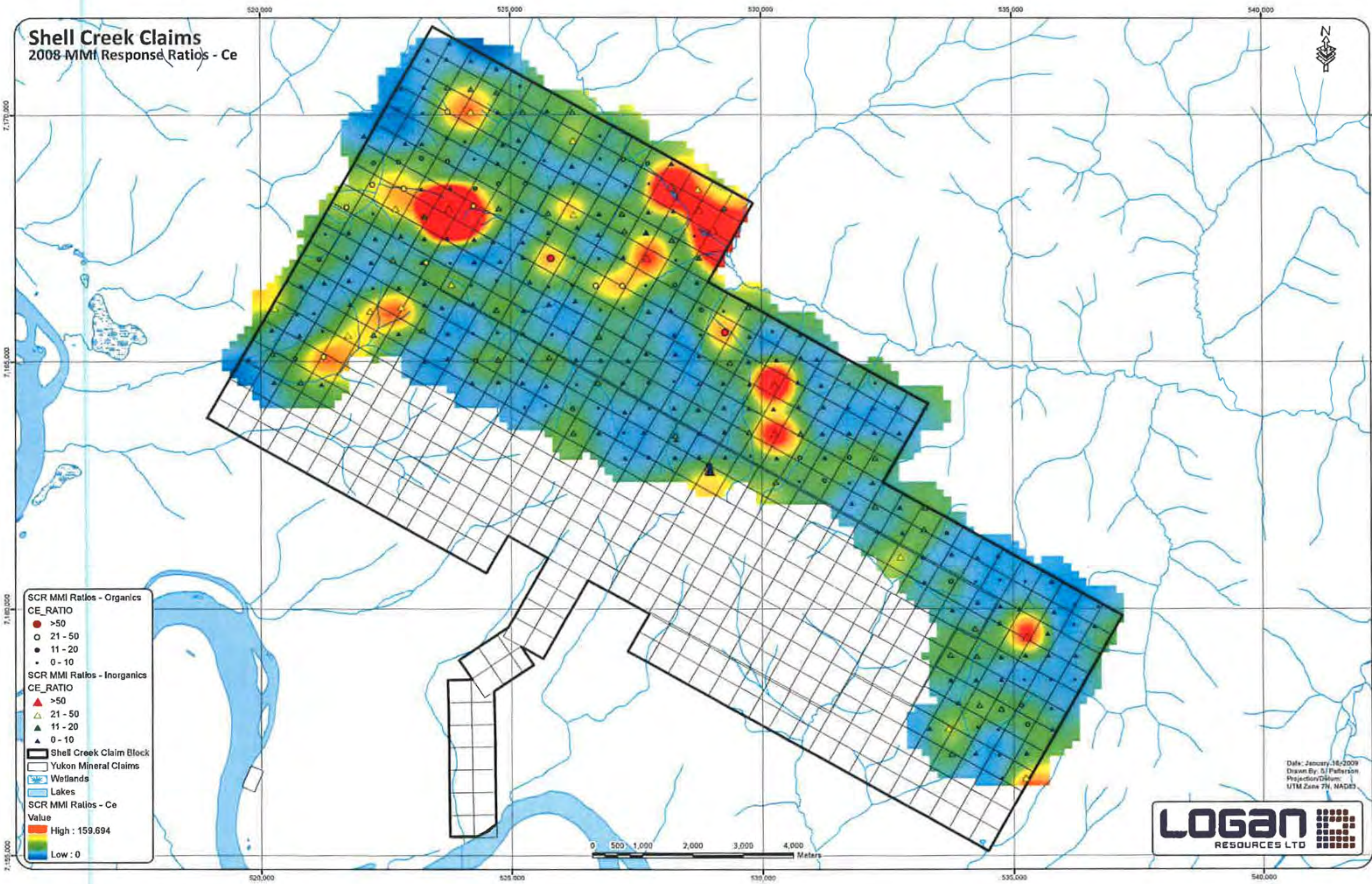
Shell Creek Claims
2008 MMI Response Ratios - Cu
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
CU_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
CU_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Cu.grd
Value
High : 127.451
Low : 0
0 500 1,000 2,000 3,000 4,000 Meters
Date: January 16, 2009
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN RESOURCES LTD

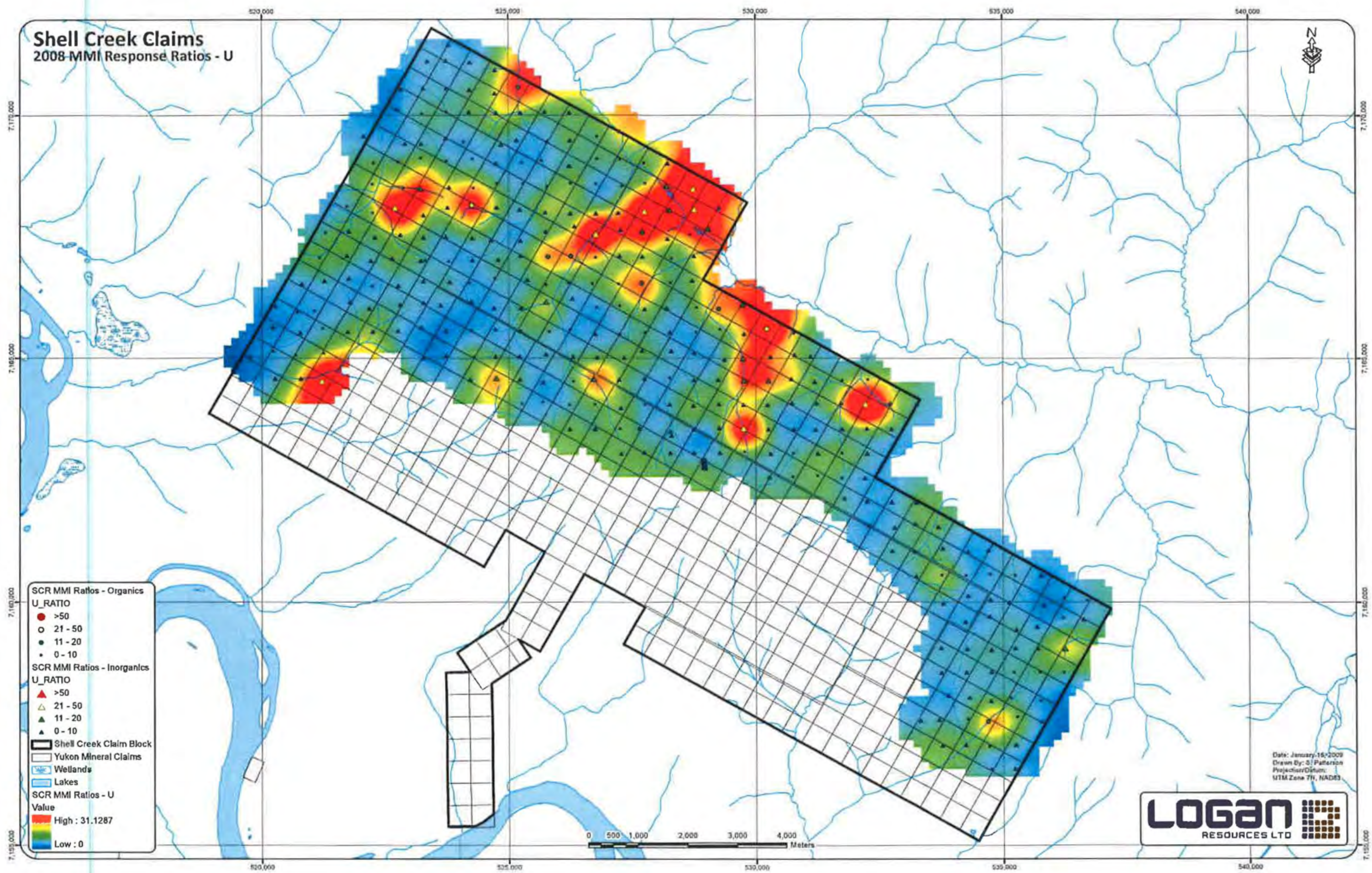


Shell Creek Claims
2008 MMI Response Ratios - Pb
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
PB_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
PB_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Pb
Value
High : 263.049
Low : -19.0714
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 14, 2009
Drawn By: S Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



Shell Creek Claims
2008 MMI Response Ratios - Zn
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
ZN_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
ZN_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Zn
Value
High : 97.2385
Low : -3.10434
0 500 1,000 2,000 3,000 4,000 Meters
Date: January 16, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN RESOURCES LTD


Shell Creek Claims
2008 MMI Response Ratios - Ce
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
CE_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
CE_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Ce
Value
High : 159.694
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD


Shell Creek Claims
2008 MMI Response Ratios - U
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
N
SCR MMI Ratios - Organics
U_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
U_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - U
Value
High : 31.1287
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 15, 2009
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

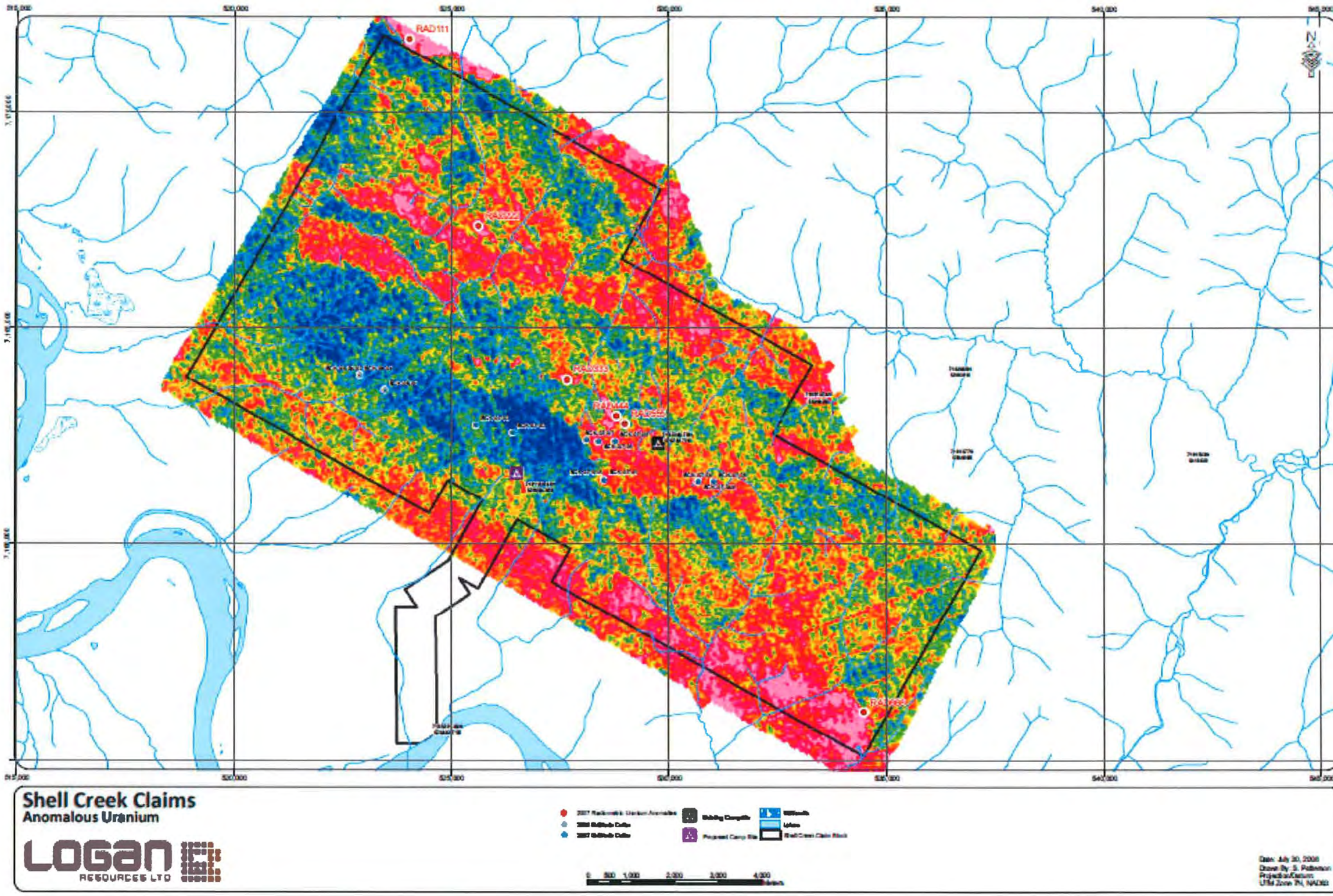
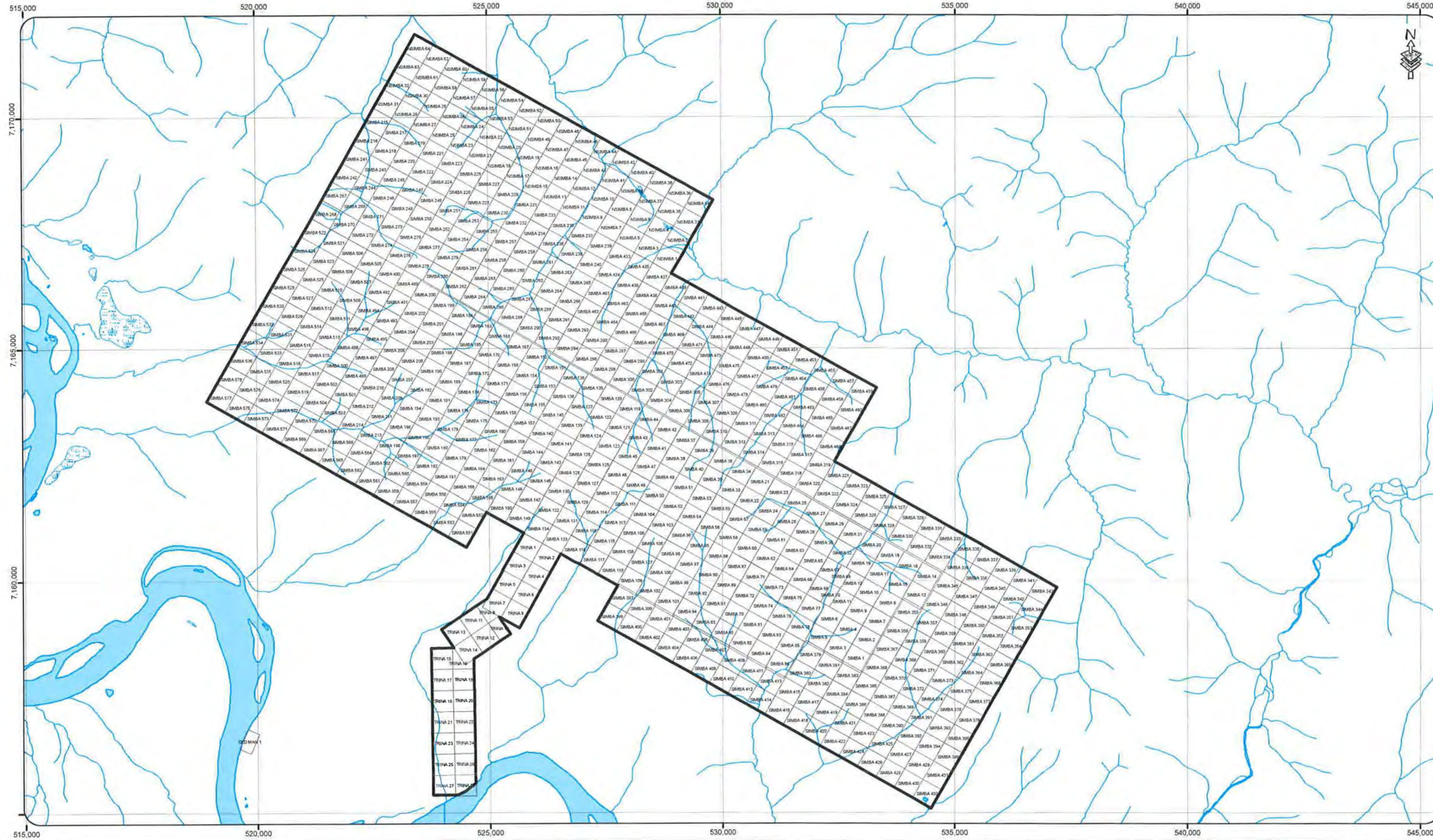


Figure 2: RADIOMETRIC MAP OF SHELL CREEK PROPERTY



Shell Creek Claims
2008 Claim Map

LOGAN RESOURCES LTD

Shell Creek Claim Block
Wetlands
Yukon Mineral Claims
Lakes

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	5	7	<1	480	<1	1	<10	1.6	17	<0.5
SCRS_280_08	<5	8	<1	650	<1	2	<10	1.5	14	<0.5
SCRS_281_08	13	4	<1	510	<1	<1	<10	3.5	102	0.8
SCRS_282_08	12	11	<1	2160	<1	2	<10	6.8	9	<0.5
SCRS_283_08	40	11	<1	860	<1	2	<10	21.6	512	<0.5
*Std MMISRM16	19	6	<1	560	<1	<1	<10	25.9	9	<0.5
*Std MMISRM16	9	6	<1	580	<1	<1	<10	27.4	3	<0.5
*Std MMISRM16	14	6	<1	550	<1	<1	<10	25.4	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

2008 GEOCHEMICAL SOIL & ROCK SAMPLING REPORT

on the

SHELL CREEK PROPERTY

Dawson Mining District

NTS 116 C/09, 10
Lat 64° 36' N, Long 140° 25' W
UTM 528 000 E, 7 163 500 N

SIMBA 13- 536 (YC21161 – YC36257)
NSIMBA 1-64 (YC35989 – YC36052)
Irena 1-21 YC62993-013
" 23 YC63015

for

LOGAN RESOURCES LTD.
1640 - 1066 West Hastings Street
Vancouver, BC V6E 3X1

by

Daithi Mac Gearailt, B.Sc.

Date Work Performed:
July 1 – Sept 1, 2008

Costs associated with this report have been approved in the amount of $ 110,300.-
for assessment credit under Certificate of
Work No. WD07046 ; WD07050
2001020-021

....

Mining Recorder
Dawson City Mining District

2008

LOGAN RESOURCES LTD.
Daithi Mac Gearailt

2008-GEOCHEMICAL SOIL AND ROCK SAMPLING SURVEY OF SHELL CREEK

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APPENDICES

Appendix A: 2007 Permit for Barge Landing & Access Trail
Appendix B: Shell Creek Claims List
Appendix C: Rock and Bulk Sample Analyses
Appendix D: Report on Investigation of Selected Vein Systems, Shell Creek Property
Appendix E: 2008 Evaluation & Sampling Program on the Shell Creek Cu-Au Property
Appendix F: Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon
Appendix G: Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey

INTRODUCTION

Logan Resources Ltd., 1640-1066 West Hastings St, Vancouver, British Columbia holds a 100% interest in the Shell Creek Property. The Shell Creek Property is comprised of 628 mineral claims covering approximately 110 km². The claims were staked in 2002 by Dawson City prospector Shawn Ryan and were acquired by Logan Resources in January 2003. The property is located in west-central Yukon Territory, Canada, on the north shore of the Yukon River approximately 75 km (47 miles) northwest of Dawson City. Access to the property for exploration purposes is by helicopter. As the Shell Creek property is alongside the Yukon River, in the event that heavy equipment and large quantities of materials are required at the site river, barges out of Dawson City can move materials to the river shore adjacent to the property and they can be hauled to the site on a tractor road or slung in by helicopter. The only previous exploration on the Shell Creek property, prior to the Company acquiring the property, was an evaluation of the iron formation by Asbestos Corporation during the summer of 1958. Geological mapping, trenching and dip-needle magnetic surveys were completed (Riordan and Mann, 1958). Asbestos Corporation completed no further work and the claims were allowed to lapse.

LOCATION AND ACCESS

The Shell Creek Property lies approximately 75 km northwest of Dawson City, Yukon (see Figure 1). Access to the property for exploration purposes is by helicopter. As the Shell Creek property is alongside the Yukon River, in the event that heavy equipment and large quantities of materials are required at the site river barges out of Dawson City can move materials to the river shore adjacent to the property and they can be hauled to the site on a tractor road or slung in by helicopter. In 2007 a permit was granted for a barge landing and access trail to the property. (See details of 2007 permit in Appendix A).

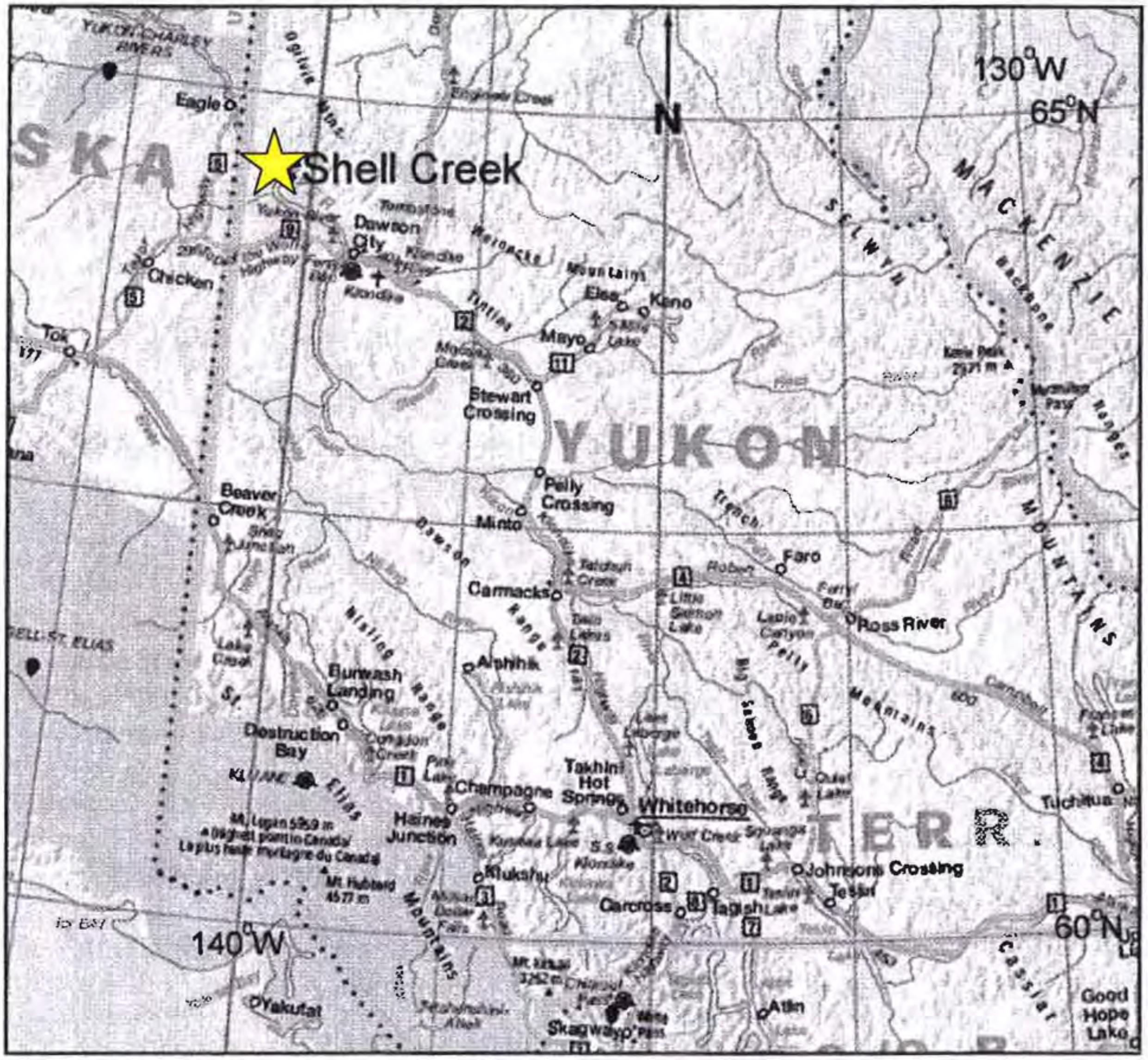


Figure 1 LOCATION MAP

PROPERTY INFORMATION

The property is 100%-owned by Logan Resources Ltd. (subject to a 2% NSR) and is comprised of 628 claims covering 11,000 hectares (27,182 acres) in the Dawson Mining District. All claims are in good standing (see details of claims in Appendix B).

CLIMATE AND PHYSIOGRAPHY

The following is taken from the Environment Canada website (www.ec.gc.ca/soer-ree/). This extremely rugged, heterogeneous mountainous ecoregion spans the Yukon-Northwest Territories border from

Alaska to the Mackenzie Valley. It includes the Ogilvie and Wernecke mountains in its westernmost section, the Backbone Ranges in its interior, and the Canyon Ranges to the east. The eastern ranges of the Mackenzie Mountains that lie in the rain shadow of the higher Selwyn Mountains to the west are also included. The ecoregion shows evidence of localized alpine and valley glaciation. The mean annual temperature for the area is approximately -5°C with a summer mean of 9°C and a winter mean of -19.5°C. Mean annual precipitation is highly variable with the highest amounts, greater than 600 mm, occurring in the southwest portion of the ecoregion. Moving west towards Alaska and the southern Ogilvies, precipitation drops to approximately 400 mm. Higher precipitation occurs at higher elevations. The region is characterized by alpine tundra at upper elevations and subalpine open woodland vegetation at lower elevations. Alpine vegetation consists of lichens, mountain avens, intermediate to dwarf ericaceous shrubs, sedge, and cottongrass in wetter sites. Barren talus slopes are common. Subalpine vegetation consists of discontinuous open stands of stunted white spruce and occasional alpine fir in a matrix of willow, dwarf birch, and Labrador tea. The Ogilvie Mountains, composed of Palaeozoic and Proterozoic sedimentary strata intruded by granitic stocks, reach 2134 m asl in elevation. The Wernecke Mountains are formed of phyllite and nearly horizontal carbonate rocks carved by glaciation. They are divided into several ranges by broad northwesterly-trending valleys. Permafrost is continuous and of low ice content in most of the Yukon portion of the ecoregion. Permafrost is extensive but discontinuous with variable ice content in the Northwest Territories portion of the ecoregion. Alluvium, fluvioglacial deposits, and morainal veneers and blankets are dominant in the region. Rock outcrops are common at higher elevation. Turbic Cryosols with some Dystric Brunisols and Regosols occur on steeply sloping colluvium. Characteristic wildlife includes caribou, grizzly and black bear, Dall's sheep, moose, beaver, fox, wolf, hare, raven, rock and willow ptarmigan, golden eagle, gyrfalcon, and waterfowl. These ranges support various forms of hunting and trapping,

and contain considerable mineral potential, but for the most part the ecoregion is an isolated wilderness with little permanent human occupation. The area of interest lies along a broad ridge at an elevation of approximately 1,300 m above mean sea level with local relief along the ridge of 50 to 100 metres. The Yukon River (6 km southwest of the ridge) is approximately 275 m above mean sea level. Mineral exploration in this part of the Yukon is generally carried out during the period May to October, however, mining operations in the Yukon operate year-round, including some major open pit operations.

LOCAL RESOURCES AND INFRASTRUCTURE

Dawson City, which is the jumping-off point for the Shell Creek property, is an established community with an airport, scheduled air service, helicopter charter services, water transportation services and most supplies required to conduct an exploration program. In the event of a discovery in the area, the Yukon River and winter roads provide ready access for mobilization of major supply caches and equipment to the property from Dawson City. The Yukon power grid extends to Dawson City, and 75 km of new line would be required to join Shell Creek to the grid. Small projects could rely on on-site power generation. All personnel, mining equipment and supplies will have to be acquired from Whitehorse, Yukon and points south.

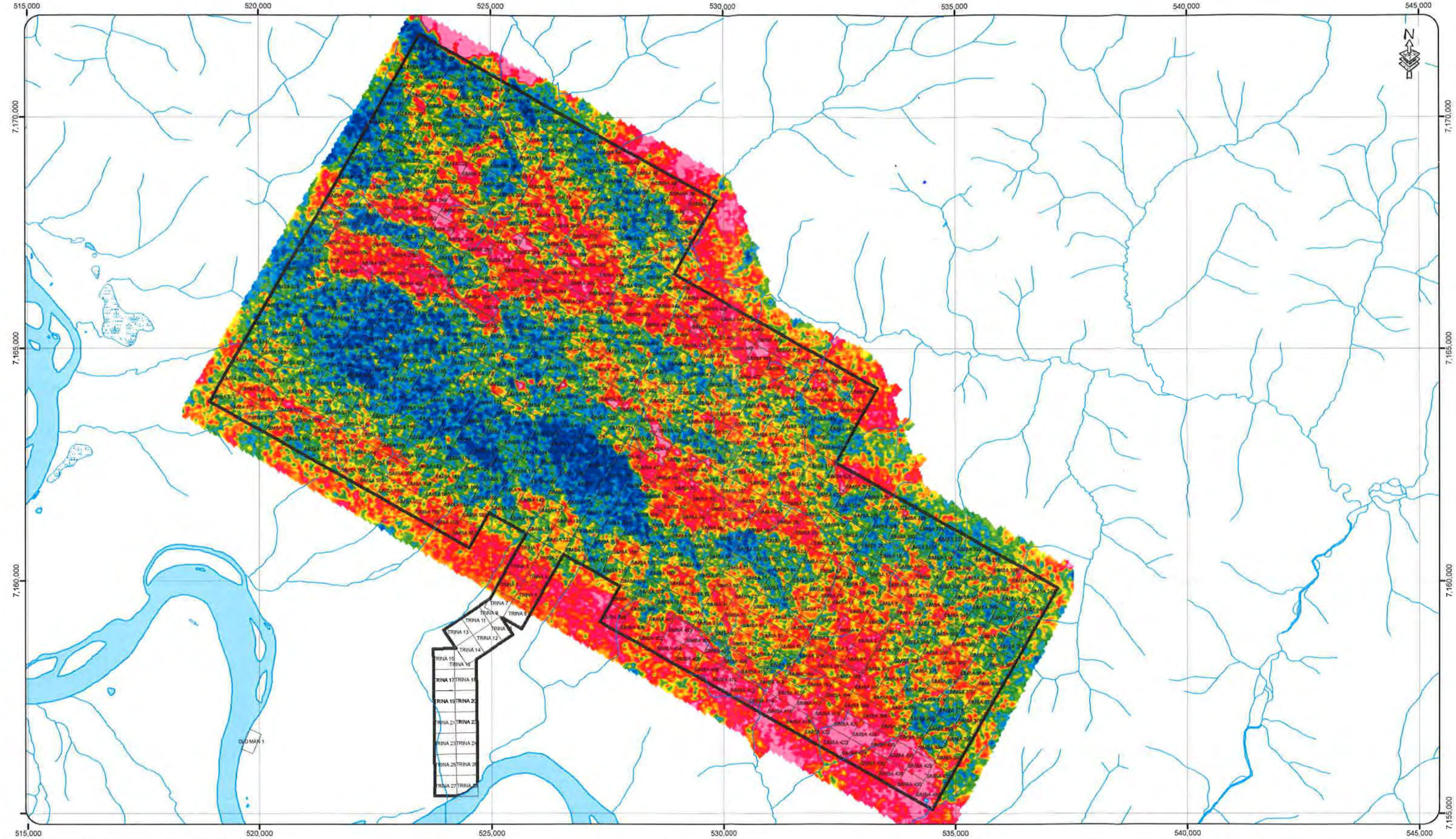
PROJECT HISTORY

The only previous exploration on the Shell Creek property, prior to the Company acquiring the property, was an evaluation of the iron formation by Asbestos Corporation during the summer of 1958. Geological mapping, trenching and dip-needle magnetic surveys were completed (Riordan and Mann, 1958). No further work was completed by Asbestos Corporation and the claims were allowed to lapse. The Geological Survey of Canada completed regional stream sediment and geological surveys in the area in the 1970's and 80's. In 2003 Shawn Ryan, a Dawson City-based prospector, discovered gold bearing quartz-vein float in the vicinity of Shell Creek and staked the property. The Company acquired the property in January 2003. During

August of 2004 Logan completed an 8-day geological mapping, trenching, and soil and rock geochemical sampling program in the vicinity of the gold showings discovered by Ryan. In addition 200 stream silt geochemical samples were taken that basically covered all streams draining the Shell Creek property. The stream geochemical program indicated significant copper, gold and uranium anomalies in the drainage pattern from the Shell Creek ridge along the length of the property. Detailed soil and rock geochemical sampling in the immediate vicinity of the gold showings indicated good correlation between geochemical anomalies and the in-situ mineralization. In April 2005 the Company completed a detailed helicopter-borne magnetometer survey of the Shell Creek area. During the period July to September the Company completed a soil geochemical survey (1,054 samples) that covered the Shell Creek ridge, a 5-line orientation induced polarization (IP) geophysical survey, a gravity survey, and additional reconnaissance geological mapping was completed.

In 2006 the company completed more soil geochemical sampling, rock sampling and field mapping. The company also conducted diamond drill program consisting of two holes.

In 2007 the company diamond drilled a following ten holes. The company also conducted more soil geochemical sampling in '07 and an airborne magnetic and radiometric survey. Some of the radiometric maps from the 2007 airborne survey are shown below.



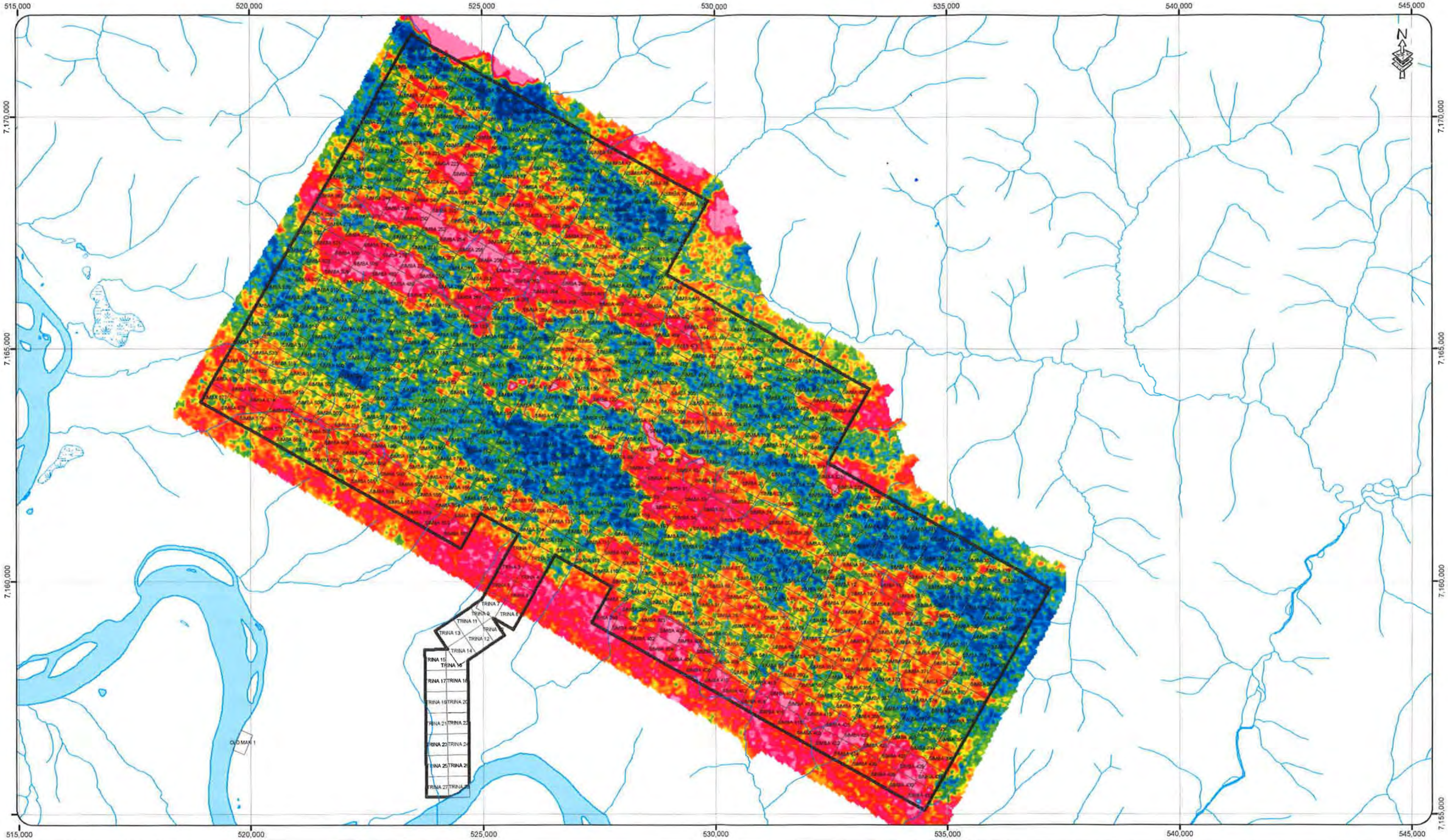
Shell Creek Claims
Radiometric Uranium Count

LOGAN RESOURCES LTD

Yukon Mineral Claims
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83



Shell Creek Claims
Radiometric Thorium Count

LOGAN RESOURCES LTD

Yukon Mineral Claims
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

GEOLOGY:

REGIONAL GEOLOGICAL SETTING

Regionally, the Shell Creek property is situated within Ancestral North America approximately 20 km northwest of the Selwyn Basin. The Tintina Fault, a large strike-slip fault with a dextral sense of motion with an offset in the order of 450 km, transgresses the southern property, in this area separating North America from Yukon Tanana Terrane. The Shell Creek property is underlain by Upper Proterozoic rocks, approximately 20 km southwest of an inlier of Lower to Mid Proterozoic rocks that contain exposures of Wernecke breccias. For this latter reason, an IOCG deposit model was contemplated for the copper mineralization on the property. However, the property appears to be underlain by younger rocks than those hosting Wernecke type IOCG mineralization in this region (Pautler, 2007).

PROPERTY GEOLOGY

The main area of interest on the Shell Creek property is underlain by Upper Proterozoic to Cambrian rocks thought to belong to the Hyland Group, mainly clastic off-shelf passive continental margin sedimentary rocks. The rocks are exposed within what appears to be an anticlinorium with, from oldest to youngest, basaltic greenstone, commonly with pillows, in the core, followed outwards by bedded grey siltstone/sandstones, chloritic tuffaceous sedimentary rocks, grey, green and maroon shales, banded iron formation, and limestone with shale. The volcanic unit may belong to an undefined volcanic unit, Upper Proterozoic to Lower Cambrian in age (PEsch) mapped by Thompson et al., 1992.

Small scale folds with amplitudes of a few centimetres were observed mimicking larger scale folds with amplitudes of 30 cm, which mimic the large scale anticline that has an amplitude of approximately 2 km. The anticline appears to be overturned to the south. There is some question as to the major fold being a syncline or an anticline but relationships observed in the field at this point favour an anticline.

On the northeast limb of the anticline foliations trend 130° to 080° (further east), dipping 60-70°N, commonly 90° in the iron formation. On the southwest limb of the anticline foliations trend 120° to 070°/30-50°N, locally steep proximal to the Tintina Fault (Pautler, 2007).

MINERALIZATION ON PROPERTY

IRON FORMATION:

The property is underlain by a zone of banded iron formation. The iron formation was only ever evaluated during the summer of 1958 by Asbestos Corporation Ltd. (Riordon and Mann 1958). No further work was completed and it is probable that the quality of the iron mineralization was not deemed to be economic.

As far as this author is aware little or no investigation of the iron was conducted on the nose of the fold to the east of the property where the bulk of the iron deposit is now known to lie and where copper mineralization is also evident.

GOLD BEARING QUARTZ VEINS: SADDLE REEF TYPE MINERALIZATION

Saddle reef-type gold bearing quartz veins were discovered in 2003 on the north slope of Shell Creek ridge near the east end of the Shell Creek property. Hand trenching was completed in 2004 to expose the showing; however, no systematic channel samples were taken. Very fine-grained visible gold is present and grab samples have returned up to 4 grams per tonne gold in assays. The veins contain disseminated chalcopyrite (and secondary malachite) and the host sedimentary rocks contain abundant malachite (copper oxide) staining. There is a significant amount of white quartz float scattered around the slopes of Shell Creek ridge and it is probable that there are numerous occurrences of this style of gold mineralization on the property. Shell Creek, which drains south from Shell Creek ridge to the Yukon River has a history of placer gold operations. The Shell Creek Property was staked on the basis of this gold potential.

In 2005 Chris Ash wrote a report on behalf of the company where he detailed the nature of the mineralization found in the quartz.

"Two distinct stages of quartz are recognized. A dominant, earlier stage consists of pervasively fractured and deformed white, bull quartz. Visible gold is found associated with chalcocite in late-stage, dilation-fill quartz-carbonate-chlorite veins. Foliated clastic sedimentary rocks marginal to late stage gold-quartz veins are pervasively chloritized and contain elevated Cu. Malachite staining is common along cleavage surfaces within the chloritized sediments, reflecting the presence of chalcocite. Three grab samples of material returned assays indicating from 1.4 to 1.8% Cu.

Quartz reefs form shallow southwest-plunging, upright, openly folded, anticlinal structures that are from 50 to 75 meters wide, across the region of the fold closure. Individual reefs consist of a number of stacked quartz veins that range from less than half a metre, to several metres in thickness separated by intervals of variably chloritized, host siltstone. Quartz reefs are thickest at the hinge zone and progressively thin out and dissipate as the veins rolls into the steeper fold limbs.

Within the individual reefs, visible gold is associated with late-stage, dilation-fill quartz-chlorite-carbonate veins developed within and marginal to early-stage fractured quartz. Visible gold is particularly common in association with chalcocite and lesser bornite that occurs either as 1 to 3 centimetre patches in late-stage dilation-fill veins, or as 1 to 3 mm veinlets filling fractures in early-stage quartz, proximal to the late-stage veins.

In addition to Au in quartz, clastic metasediments proximal to zones within reefs with late-stage vein development are typically pervasively chloritized with elevated Cu occurring as disseminated chalcocite developed along schistosity surfaces. Grab samples of chalcocite bearing chloritized sediments have returned assays up to 1.8% Cu." (Ash, 2005)

POTENTIAL COPPER-GOLD-URANIUM MINERALIZATION:

Stream sediment geochemical survey data for the area indicates the presence of anomalous copper, gold and uranium in the drainage system originating from Shell Creek ridge. In addition, soil geochemical surveys completed in 2005 have indicated widespread anomalous copper, gold, uranium and rare earths (lanthanum) in soils along Shell Creek ridge. Based on the geochemical data and the regional geological setting (close proximity of the Shell Creek property to occurrences of Wernecke Breccia mineralization), the author, Peter T. George, P.Geo., concluded that there was potential for Olympic Dam-type mineralization at shallow depths below surface on the property (George, 2005).

SUMMARY OF 2008 EXPLORATION PROGRAM

In 2008 Logan Resources staff conducted the following exploration activities:

- Follow up geochemical soil survey of the northern section of the property
- Mapping and rock sampling survey
- Investigation of previously identified radiometric anomalies

IN BRIEF:
A total of 335 soil samples were collected and analysed for Mobile Metal Ions (MMI) by SGS Mineral Services in Toronto.

A total of 79 rock samples were collected + 3 bulk samples of quartz were sampled for gold and copper by Acme Laboratories in Vancouver and Assayers Canada in Vancouver.

One polished thin section was made by Tech Cominco Laboratories in Vancouver, to determine the protolith of a heavily altered and chloritized horizon.

One day was spent investigating a large quartz vein breccia with Prof. Derek Thorkansan.

Five days were spent investigating 6 radiometric anomalies that were identified from the 2007 airborne magnetic and radiometric survey that was conducted on the property by Ron Sheldrake on the behalf of Logan Resources Ltd.

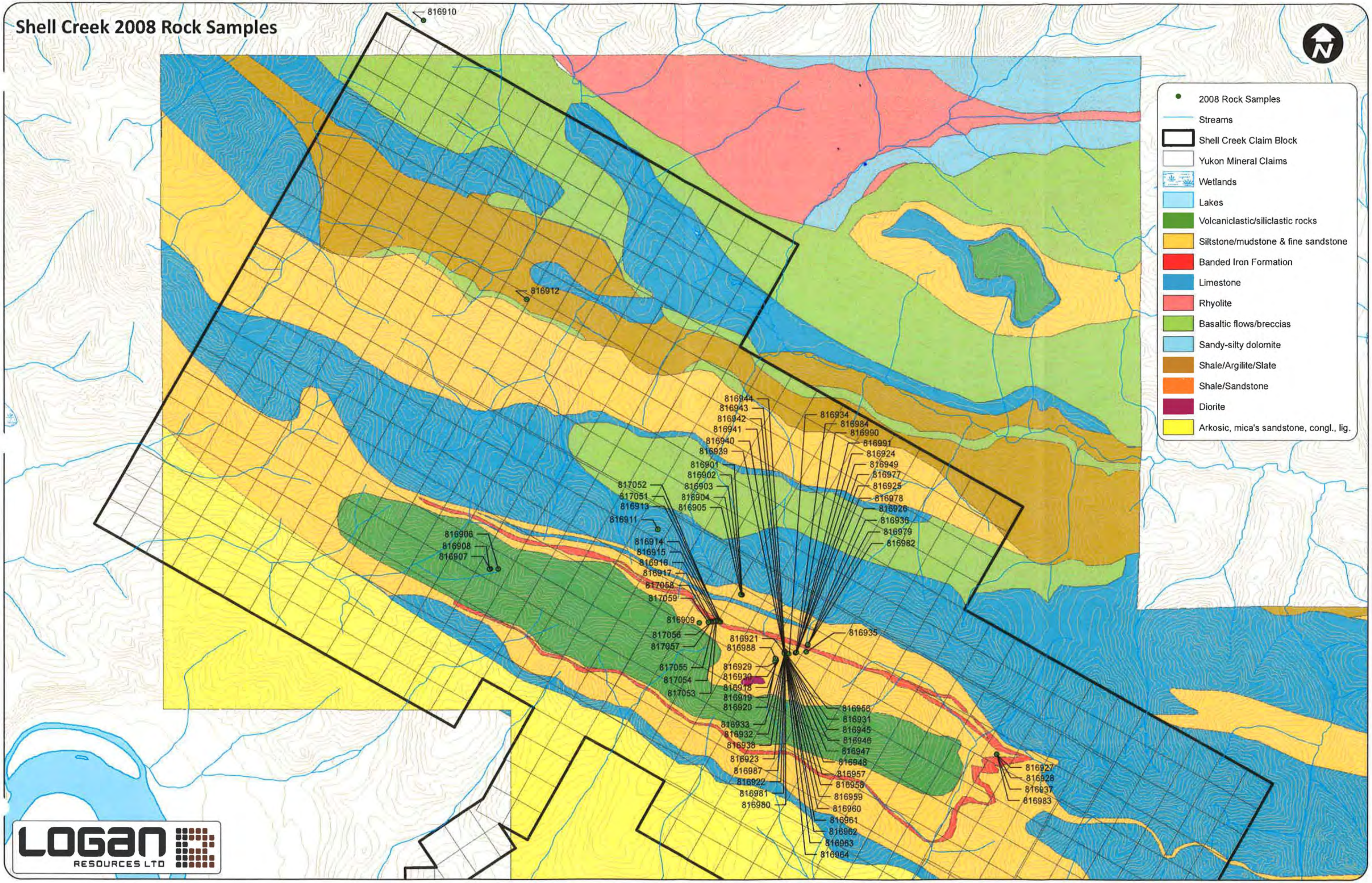
A series of sub-reports for the above mentioned work by the various professionals that were involved are contained in the appendices of this report.

ROCK SAMPLING

79 rock samples were collected at Shell Creek in 2008 and sent to Acme Labs in Vancouver for 32 element ICP analysis. The results of the analysis can be seen in Appendix C and various samples are discussed in the following reports. Sample locations and tag numbers can be seen on the map below.

Three bulk samples from the quartz saddle reefs (See Chris Ash Report; 2005) were taken to try and determine if significant gold or copper mineralization could be found. Results of the bulk samples are in Appendix C. Chris Ash himself was present for the sampling.

Shell Creek 2008 Rock Samples



LOGAN RESOURCES LTD

REFERENCES

Ash, Chris (2008): 2008 Evaluation & Sampling Program on the Shell Creek Au-Cu Property; Dawson Mining District; for Logan Resources Ltd.

George, Peter T. (2005): Evaluation Report – Shell Creek Property, Wernecke Mountains, Dawson Mining District, Yukon, Canada; for Logan Resources Ltd.

Pautler, Jean (2007): Shell Creek Evaluation – Geological Setting, Deposit Model and Exploration Implications; Interoffice Memorandum for Logan Resources Ltd.

STATEMENT OF EXPENDITURES

WAGES:

• Soil Sampler @ $185.00/day X 23 Man Days	4,255.00
• Data Person @ $185.00/day X 20 Man Days	3,700.00
• Consulting Geologists @ $750 /day X 4 Man Days	3,000.00
• Geologists @ $400 /day X 47 man days	18,800.00
• Supervision	1,750.00
TOTAL WAGES:	**$31,505.00**

ACCOMMODATION AND MEALS

• (for Logan personal, pilot engineer and consultants)	**TOTAL: $10,596.00**

ASSAYS:

• Soils X 337 @ $36.75	12,384.75
• Rocks X 79 @ $18.25	1,441.75
• Bulk Sample	8,000.00
TOTAL ASSAYS:	**$21,826.50**

HELICOPTER SUPPORT	**51,850.00**
FUEL	**8,000.00**
CAMP SUPPLIES	**1,500.00**
REPORT PREPARATION	**3,750.00**
TOTAL EXPENDITURE =	**$129,027.50**

STATEMENT OF QUALIFICATION

I, Daithi Mac Gearailt, with business address:

1640-1066 West Hastings St.
Vancouver, BC.
V6E 3X1

And residential address in Dawson City, Yukon Territory do hereby certify that:

- I am a geologist with Logan Resources Ltd.
- I am a graduate geologist from the National University of Ireland, Galway
- I am the author of this report on the Shell Creek Property, Dawson Mining District, Yukon, which is based on my personal examination of the ground during July 1st to Sep 1st 2008.

Daithi Mac Gearailt, B.Sc.

Appendix A

2007 Permit for Barge Landing & Access Trail

Energy, Mines and Resources

Fisheries and Oceans Canada | Pêches et Océans Canada

Yukon Environmental & Socioeconomic Assessment Act Decision Document

This document meets the Yukon Government and Department of Fisheries and Oceans' requirements as a Decision Body as set out in the *Yukon Environmental & Socioeconomic Assessment Act*

Decision Document Issued By:

YG Decision Body:	EMR - Mineral Resources
Federal Decision Body(ies):	Transport Canada – Navigable Waters Protection Program Department of Fisheries and Oceans Canada
First Nation Decision Body(ies):	

Project

Project Name :	**Quartz Mining – Shell Creek Property**	YESAA File Number: **2008-0054**
Proponent Name:	Logan Resources – Seamus Young	

The principal project is the operation of a quartz exploration program within a claim block of 656 claims. The proposed activity will occur on the north side of the Yukon River at the headwaters of Shell & Coal Creeks approximately 70km downstream of Dawson City. Activities are proposed to occur between March and November annually for a 5 year period.

Principal activities include:

Site preparation & Operation

- Mechanical trenching (11 @90m^3 each)
- Water source (<100m^3/day) various tributaries of Yukon River
- Possibility of diamond drilling with use of biodegradable products
- Possibility to establish approximately 25 drill areas (400m^2each depending on presence of trees)
- Mechanical dug sumps at each drill site.
- On-going reclamation of trenches and drill sites

Accessory Activities Include:

Road Access

- Construction of access, approximately 10km x 3.5m from Yukon River to Camp
- Construction of access, approximately 10km x 3.5m between trench and drill sites
- Possibility to extend access approximately 10km to support drilling program
- Mobilization will be by skid trailers

Helicopter Access

- Up to 350 hours based within claim block
- Supplies transported to/from Dawson City at regular intervals

Barge Landing at Dogyard Creek (Unnamed trib to Yukon River)

- Construction and use of barge landing
- Initial and final mobilization of equipment to project site from Dawson City with possibility of (minimal) additional transportation

Camp

- Relocation of existing camp
- Capacity of 20 people
- Water source at local creeks

- rey water waste disposal – cover sump
- Human waste disposal – pit privy

Petroleum products (per season)

- Diesel - 400-600 (205L each) drums
- Gasoline - 30-40 (205L each) drums
- Jet Fuel – 200-250 (205L each) drums
- Propane – 10-15 (20-100lbs) tanks

Other Decision Bodies

Other Decision Body Consultation:	*Copies of the Draft Decision Document were forwarded to Federal Decision Bodies for feedback and approval.*
Consolidated Decision Document:	☐ N/A ☒ No – Transport Canada ☒ Yes – Department of Fisheries and Oceans Canada

Non-Self Governing First Nations

Non-self governing First Nation Consultation:	

De 'sion

Pursuant to ss. 75, 76 and 80, the Yukon government has considered the *YESAA* Assessment and:	
☐	a) Government of Yukon accepts the following recommendation(s):
☒	b) Rejects the following recommendation(s) for the following reason(s): **Government of Yukon Rejects the Following:** *Pursuant to Section 56(1) of the Yukon Environmental and Socio-economic Assessment Act it is recommended to the decision bodies that the project not be allowed to proceed, as the Designated Office has determined that the project will have significant adverse environmental or socio-economic effects in or outside Yukon that cannot be mitigated.* **More specifically, the Yukon Government rejects the recommendation of the Designated Office in relation to project 2008-0054 as follows:** *It is the assessor's determination that the residual effects after mitigation exist and are still deemed to be significant. These residual effects are closely related to the access route and the inability of the proposed mitigations to restrict access to the area and subsequent effects to sheep populations. There are numerous examples of the impact of access route construction into previously inaccessible areas and the resultant increased hunting pressure and subsequent decline of populations. These effects are irreversible, long term, and are likely to occur. There are no other reasonable, enforceable and appropriate mitigations available that would render these significant residual effects to be insignificant. In addition… …it will be difficult and challenging for the proponent to carry out the above mitigations and still conduct their operation as proposed. In addition, well-meaning and constructive company policies with respect to wildlife (such as prohibiting the hunting or personal use of ATV's) cannot be legally enforced by mineral inspectors*

nor conservation officers.

Given the:

- *irreversibility, duration, and likelihood of the residual effects,*
- *the difficulty of implementation of the stated mitigations while allowing the project to proceed as proposed, and,*
- *the lack of available mitigations to further mitigate the significant residual effects*

The Designated Office has determined that the project will have significant adverse environmental effects on wildlife and wildlife habitat that cannot be mitigated.

Reasons for Rejection:

Scoping:

This assessment is for an amendment to a permitted project. The scope does not make this clear. Drilling, hand dug sumps, camp of 20 people, heli access and waste management including septic and incineration and removal of solid waste were assessed in 2006. The current permit is valid until 2009.

The present amendment is to add trenching, larger equipment, more extensive drilling, relocation of the camp, access road construction and extension of timelines.

The scope of project refers to May as the annual start date for the project. It is clear from the application that March is the intended start date and the May date is being viewed as a typo.

Authority of Government to accept, vary or reject:

The assessment questions Government's authority as a decision body, and perhaps the soundness of its decision documents, in varying prescriptive terms and conditions that Government, for many reasons, may deem to fall within the mandate of the regulator and not the assessor.

The Yukon *Environmental and Socio-economic Assessment Act* (YESAA) is quite clear that a decision body has full authority to do so. Section 75. (1) of YESAA states:

"Where a designated office, a joint panel or a review panel referred to in section 63 makes a recommendation to a decision body, the decision body shall issue a decision document within the period prescribed by the regulations accepting, rejecting or varying the recommendation."

Determination:

The evaluation report created by YESAB has put the onus on the proponent to become an enforcement agent for the management of game in the area. It is the role of Governments to create and enforce a game management plan that ensures the success of wildlife. Both Yukon and First Nation Governments are responsible for implementing a game management system which is adaptive and responsive to changing conditions in the field, and that allows for the implementation of a timely response to issues like other temporary uses of the land. It is not the responsibility of individual proponents to regulate the areas they are planning to work in a piece-meal project by project fashion, as this approach is not effective at creating or implementing long term goals for either business or habitat/species management.

Government of Yukon disagrees that there is no mitigation that could eliminate, reduce or control the adverse affects on wildlife populations. The access road has been determined by the assessor

to be the source of the long term and irreversible residual effects which are likely to occur, despite the proposed mitigations. The evaluation report does not identify specific residual effects, but does imply that they are related to the road and public access to alpine areas and sheep populations which are currently not as accessible. Yukon Government has identified further access related mitigation measures that will ensure the access road is seasonally inaccessible for the duration of the project, as well as made permanently impassible and fully reclaimed at the end of the program. The seasonal and permanent closure of the access, along with the additional mitigations listed below, will address the impacts identified in the YESAB assessment.

The project can proceed subject to the following specified terms and conditions that will mitigate any significant adverse environmental or socio-economic effects in or outside the Yukon:

Yukon Government accepts the following mitigations from the YESAB Evaluation Report:

Wildlife

- No exploration activities or helicopter flights within 1 km of sheep winter range during the winter period of October 1 – May 31 following where possible.
- No helicopter flights within 3.5 km of sheep lambing areas from May 1 – June 15 where possible.
- No exploration activities within 1 km of sheep lambing areas from May 1 – June 15 where possible.
- The proponent shall maintain a detailed wildlife log for submission to the local regional biologist each year.

  Additional information and clarification regarding lambing areas
    - Sheep lambing areas have not been specifically surveyed or mapped by YG Department of Environment. If or when lambing areas are identified in the project area that the information is to be shared with the regional biologist.
- The proponent shall maintain a minimum altitude of 600m AGL when flying over ungulates when possible
- Proponent shall contact YG Environment for regular postings of the presence of Fortymile caribou in the vicinity of their project area including flight path.
- The proponent shall not locate camp within line of site of nesting peregrine falcon if possible.
- The proponent shall not disturb or harass wildlife while flying or traveling by ATV
- The proponent shall keep all garbage, including kitchen waste, in a container that prevents access by bears and other wildlife, until properly disposed of in accordance with the Solid Waste Regulation.
- When burning kitchen waste on site, it must be burned regularly to reduce odours that might attract wildlife and be burned to ash by forced air or fuel fired incineration
- One end of each trench and test pit should be sloped to provide for wildlife escapement
- All excavated material that is not part of the sampling must be returned underground in the layers in which it was removed, and capped with original surface materials as soon as possible.

Heritage Resources

- The proponent shall comply with the Historic Resources Act (OIC 2003/73) and the Yukon Archaeological Sites Regulation respecting archaeological and historical resources
- The proponent shall have the barge landing and access road route assessed by a qualified archaeologist and Tr'ondëk Hwëch'in Heritage Department representative prior to construction.

Yukon Government varies the following mitigations from the YESAB Evaluation Report:

Wildlife

Yukon Government varies the following:

- No activities or helicopter flights within 1 km of known mineral licks during the period of heaviest use from April 15 to July 31 where possible.

Justification:

- The publication "Flying in Sheep Country" which sets out best practices identifies the critical time period to avoid flying near mineral licks from May 1 to June 15. Yukon Government Department of Environment has provided dates to avoid mineral licks for ground based exploration activities.

Replaced With:

- No helicopter flights within 3.5 km of important mineral licks during the period of heaviest use from May 1 to June 15 where possible.
- No activity within 1 km of important mineral licks during the period of heaviest use from April 15 to July 30 where possible.

Yukon Government varies the following:

- Helicopter activity shall be minimized or avoided within one (1) km of sheep activity.

Justification:

- Operational or safety considerations may require activity with in this range.

Replaced With:

- Helicopter activity shall be minimized or avoided within one (1) km of sheep activity where possible.

Yukon Government varies the following:

- No helicopters flights over peregrine falcon nesting sites, or if it cannot be avoided, fly at a minimum of 600m AGL above nesting sites.

Justification:

- Safety considerations may mean that this altitude cannot be maintained. It is important to allow for safety, emergency and other unforeseen considerations.

Replaced With:

- No helicopter flights over peregrine falcon nesting sites, or if it cannot be avoided, fly at a minimum of 600m AGL above nesting sites where possible.

Yukon Government varies the following:

- Proponent shall berm access route at the barge landing at the end of each season.

Justification:

- A berm will not be sufficient to block the passage of ATVs or snowmobiles from accessing the road and impacting wildlife values. The road will be a private road when constructed, and must be maintained as such through the use of signage and gates. Specific routing of the access road, as determined by CS&I Inspections- Mining, along with seasonal reclamation work and the placement of gates, will prevent the access of ATVs. Implementation of the following mitigation measures by the proponent will go above and beyond the proponent's responsibility to help enforce the Yukon Government's Game Management Plan.

Replaced With:

- The proponent will submit a road management plan to the Chief of Mining Land Use for review and approval before any construction and work on the access road is initiated.
- The proponent will take measures to ensure the closure of the road at the end of each operating season to prevent access to sheep habitat. The road closure measures will be reviewed regularly and any appropriate changes will be approved by regulators to effectively prevent access by the public.
- The proponent will fully reclaim the road at the end of the program to ensure there is no long term access to the alpine (Sheep habitat) areas.

Fish and Fish Habitat

Yukon Government varies the following:

- The proponent shall ensure only clean coarse gravel free of fine sediment is used as in-fill material if required during the construction of the barge landing in the Yukon River. The material shall be local to the area and pre-washed away from any water body.
- The proponent shall ensure all materials and debris stockpiled not within 30m of waterbodies including the Ordinary High Water Mark (OHWM) and located such that they do not re-enter any watercourse. These materials shall not be re-used as ramp in-fill unless they are pre-washed.
- The proponent shall not perform any in-stream works.

Justification:

- Transport Canada - Navigable Waters Protection Program regulates all works on navigable waters, and is a decision body for this project.

Replaced With:

- The proponent shall contact Transport Canada - Navigable Waters Protection Program for barge landing requirements, mitigations and permitting.

Yukon Government varies the following:

- Proponent shall post at both ferry landings a fuel spill contingency plan.

Justification:

- The barge landing in Dawson City is in a publicly accessible area where mishap or vandalism could prevent a fuel spill plan from being usable. To ensure that a copy of the spill plan is available at this public site, the proponent shall provide a copy of the plan to all employees and contractors prior to them performing work, as well as posting the plan at all fuel handling sites.

Replaced With:

- The proponent shall have in place a spill contingency plan that addresses spills of petroleum products and other hazardous substances and shall ensure a copy of the plan is provided to all employees, contractors and sub-contractors, prior to them performing work as part of the operation. The plan must be posted in camp locations and at all fuel handling locations used in carrying out the operation. In the event of a spill, the proponent shall implement the spill contingency plan.

Yukon Government varies the following:

- No fuel shall be stored on the barge landing site.

Justification:

- Fuel may not be stored directly on the barge landing site. However fuel may be stored in the area of the barge landing, as long as it is a minimum of 30 meters above the ordinary high water mark of any water body (including the Yukon River and its tributaries) and meets the standards set out in the Quartz Operating Conditions, Schedule 1 of the Quartz Mining Land Use Regulation.

Replaced With:

- All petroleum products, including waste petroleum products, and any other hazardous substances must be stored in a secure fashion no less than 30m from the ordinary high water mark of any water body.

Hunting, Trapping and Fishing

Yukon Government varies the following:

- Proponent shall maintain a cooperative approach to shared resource management by notifying the Outfitter of Concession Area #3 prior to commencement of project activity annually.
- Proponent shall maintain a cooperative approach to shared resource management by notifying the Registered Trapping Concession Holders for RTC#13 & RTC#17 prior to commencement of project activity annually.
- Proponent shall maintain a cooperative approach to shared resources management by notifying the identified Commercial Fisher prior to commencement of project activity in relation to the barge operation and landing construction.

Justification:

- The Outfitter, Trapper and Commercial Fisherman are all business entities, as is the proponent. Although they have different requirements to be successful, they all require the same land base to achieve that success. Therefore there is no justification that one business should bear the responsibility to ensure that the area is managed successfully for all affected parties.

  This is an amendment to an existing project, and all of the details regarding the project have been posted to the YESAB Online Registry (YOR). Both the Outfitter and Trapper/Commercial Fisherman have submitted comments to the YOR, indicating that they are aware of the proponent's plans. It is clear that this is no longer a case of a new business 'introducing' itself to operations currently existing in the area, but a case of all businesses needing to remain in communication and maintain an open dialog with each other.

  Varying this mitigation does not relieve the proponent or the other commercial resources users of the area from communicating with one another. Communication should happen on a regular basis to update the other parties of their plans. Examples of this would include the co-management required with the outfitter; the outfitter would like to be notified of work happening in the area (which is less than 1% of the outfitter concession) by the proponent to ensure a successful hunting experience for their clients, and the proponent would like to be notified if the outfitter is hunting and using firearms in the area to ensure the safety of anyone working on site for the proponent.

Replaced With:

- The proponent shall maintain a cooperative approach to shared resource management of the land.

Yukon Government removes the following mitigations as per the YESAB Evaluation Report:

Environmental Quality –

Yukon Government removes the following:

- The proponent and/or field representative shall provide a security deposit in the amount sufficient enough to ensure adequate reclamation and determined by the regulator to be held under the Quartz Mining Act, prior to commencement of the proposed project activities.

Justification:

- The proponent is legally required to implement all permit requirements. The financial security may be required by regulators, but normally only where there is significant risk that the proponent will not comply with reclamation requirements. That risk will be determined by regulators.

Wildlife

Yukon Government removes the following:

- Proponent shall enforce the proposed no hunting policy outlined in the Company's wildlife preservation policy.

Justification:

- Our statutes do not enable us to nullify licenses issued by other regulatory bodies.

Yukon Government and Department of Fisheries and Oceans Canada accept the following mitigations from the YESAB Evaluation Report:

Fish and Fish Habitat

- The screen must be kept in a good and efficient state of repair. It must not be removed except for renewal or repair. No water is to be withdrawn during any period when the screen is removed.
- The proponent shall operate equipment/machinery in a manner that minimizes disturbance to the bed and banks of any waterbody.

- Equipment shall be maintained, clean and free of leaks.
- No re-fueling or servicing of equipment shall occur within 30m of waterbody.

Yukon Government and Department of Fisheries and Oceans Canada varies the following:

Fish and Fish Habitat

- All means by which water is withdrawn from Coal Creek, Cliff Creek, Shell Creek and the Yukon River, or their tributaries must be screened or otherwise guarded to prevent the passage of fish from these waters. Mesh size to be determined by Department of Fisheries & Oceans.

Justification:

- Mesh size is not legislated, but the Department of Fisheries and Oceans have guidelines in place.

Replaced With:

- All means by which water is withdrawn from Coal Creek, Cliff Creek, Shell Creek and the Yukon River, or their tributaries must be screened or otherwise guarded to prevent the entrainment of fish from these waters.

Department of Fisheries and Oceans Canada adds the following mitigation:

Justification:

- Department of Fisheries and Oceans Canada regulates any destruction of fish habitat, and is a Decision Body for this project. Permitting and further mitigation may be required under the Fisheries Act for the barge landing and road work that happens below the ordinary high water mark.

DFO Adds:

- An Authorization under the Federal Fisheries Act to Harmfully Alter, Disrupt or Destroy Fish Habitat must be applied for with Fisheries and Oceans Canada (DFO) for the proposed barge landing and near shore road development. The application does not warrant any authorization will be provided. This aspect of the project may be redesigned, relocated, or not permitted based on the project proposal. If an Authorization is determined to be required, then appropriate mitigation and required compensation will be determined by DFO as a requirement of the proposed works.

☐ c) Varies the following recommendation(s) as follows for the reason(s) specified:

Dates

Project Recommendation Issued: June 20, 2008	Decision Document Issued: July 18, 2008

Recommendation Received From:

Designated Office	☒	Location: Dawson City
Executive Committee	☐	
Panel	☐	a) Panel of the YESAB
	☐	b) CEAA Panel
	☐	c) Joint Panel (YESAB and other assessment body)

Yukon
Energy, Mines and Resources

Fisheries and Oceans Canada | Pêches et Océans Canada

By signing below, the Yukon government has exercised its authority as per YESAA s. 75 or s. 76 to issue a decision document on this project.

Name: Robert Holmes Position: Director, Mineral Resources

Signature: [signature] Date: July 18, 2008

By signing below, the Department of Fisheries and Oceans has exercised its authority as per YESAA s. 75 or s. 76 to issue a decision document on this project.

Name: Sean Collins Position: A/Habitat Biologist

Signature: [signature] Date: July 18, 2008

Copies Forwarded to (as required by *YESAA*):

☒	Other Decision Bodies	[list]	Transport Canada – Navigable Waters Protection Program / Department of Fisheries and Oceans
☒	Project Proponent	[name]	Logan Resources / Seamus Young
☒	DAP Branch, Executive Council Office		
☒	YESAB Designated Office	[location]	Dawson
☐	YESAB Executive Committee	[when applicable]	
☐	Minister Environment (Canada)	[when applicable]	
☐	Yukon Surface Rights Board	[when applicable]	
☐	Yukon Water Board	[when applicable	
☐	Land Use Planning Commission:	[when applicable]	
☐	Independent Regulatory Agency	[when applicable]	
☐	Other Body/Person as Required	[List]	

Appendix B

Shell Creek Claims List

Grant Number	RegType	Claim Name	Claim Number	Claim Owner	Recording Date	Expiry Date
YC21149	Quartz	Simba	1	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21150	Quartz	Simba	2	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21151	Quartz	Simba	3	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21152	Quartz	Simba	4	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21153	Quartz	Simba	5	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21154	Quartz	Simba	6	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21155	Quartz	Simba	7	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21156	Quartz	Simba	8	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21157	Quartz	Simba	9	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21158	Quartz	Simba	10	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21159	Quartz	Simba	11	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21160	Quartz	Simba	12	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21161	Quartz	Simba	13	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21162	Quartz	Simba	14	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21163	Quartz	Simba	15	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21164	Quartz	Simba	16	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21165	Quartz	Simba	17	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21166	Quartz	Simba	18	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21167	Quartz	Simba	19	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21168	Quartz	Simba	20	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21169	Quartz	Simba	21	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21170	Quartz	Simba	22	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21171	Quartz	Simba	23	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21172	Quartz	Simba	24	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21173	Quartz	Simba	25	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21174	Quartz	Simba	26	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21175	Quartz	Simba	27	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21176	Quartz	Simba	28	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21177	Quartz	Simba	29	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21178	Quartz	Simba	30	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21179	Quartz	Simba	31	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21180	Quartz	Simba	32	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21181	Quartz	Simba	33	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21182	Quartz	Simba	34	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21183	Quartz	Simba	35	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21184	Quartz	Simba	36	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21185	Quartz	Simba	37	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21186	Quartz	Simba	38	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21187	Quartz	Simba	39	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21188	Quartz	Simba	40	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21872	Quartz	Simba	41	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21873	Quartz	Simba	42	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21874	Quartz	Simba	43	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21875	Quartz	Simba	44	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21876	Quartz	Simba	45	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21877	Quartz	Simba	46	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21878	Quartz	Simba	47	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018

YC21879	Quartz	Simba	48	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21880	Quartz	Simba	49	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21881	Quartz	Simba	50	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21882	Quartz	Simba	51	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21883	Quartz	Simba	52	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21884	Quartz	Simba	53	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21885	Quartz	Simba	54	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21886	Quartz	Simba	55	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21887	Quartz	Simba	56	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21888	Quartz	Simba	57	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21889	Quartz	Simba	58	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21890	Quartz	Simba	59	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21891	Quartz	Simba	60	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21892	Quartz	Simba	61	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21893	Quartz	Simba	62	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21894	Quartz	Simba	63	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21895	Quartz	Simba	64	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21896	Quartz	Simba	65	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21897	Quartz	Simba	66	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21898	Quartz	Simba	67	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21899	Quartz	Simba	68	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21900	Quartz	Simba	69	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21901	Quartz	Simba	70	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC30279	Quartz	Simba	71	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30280	Quartz	Simba	72	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30281	Quartz	Simba	73	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30282	Quartz	Simba	74	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30283	Quartz	Simba	75	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30284	Quartz	Simba	76	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30285	Quartz	Simba	77	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30286	Quartz	Simba	78	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30287	Quartz	Simba	79	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30288	Quartz	Simba	80	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30289	Quartz	Simba	81	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30290	Quartz	Simba	82	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30291	Quartz	Simba	83	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30292	Quartz	Simba	84	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30293	Quartz	Simba	85	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30294	Quartz	Simba	86	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30295	Quartz	Simba	87	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30296	Quartz	Simba	88	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30297	Quartz	Simba	89	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30298	Quartz	Simba	90	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30299	Quartz	Simba	91	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30300	Quartz	Simba	92	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30301	Quartz	Simba	93	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30302	Quartz	Simba	94	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30303	Quartz	Simba	95	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30304	Quartz	Simba	96	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30305	Quartz	Simba	97	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30306	Quartz	Simba	98	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018

YC30307	Quartz	Simba	99	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30308	Quartz	Simba	100	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30309	Quartz	Simba	101	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30310	Quartz	Simba	102	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30311	Quartz	Simba	103	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30312	Quartz	Simba	104	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30313	Quartz	Simba	105	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30314	Quartz	Simba	106	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30315	Quartz	Simba	107	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30316	Quartz	Simba	108	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30317	Quartz	Simba	109	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30318	Quartz	Simba	110	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30319	Quartz	Simba	111	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30320	Quartz	Simba	112	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30321	Quartz	Simba	113	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30322	Quartz	Simba	114	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30323	Quartz	Simba	115	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30324	Quartz	Simba	116	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30325	Quartz	Simba	117	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30326	Quartz	Simba	118	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30327	Quartz	Simba	119	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30328	Quartz	Simba	120	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30329	Quartz	Simba	121	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30330	Quartz	Simba	122	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30331	Quartz	Simba	123	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30332	Quartz	Simba	124	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30333	Quartz	Simba	125	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30334	Quartz	Simba	126	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30335	Quartz	Simba	127	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30336	Quartz	Simba	128	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30337	Quartz	Simba	129	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30338	Quartz	Simba	130	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30339	Quartz	Simba	131	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30340	Quartz	Simba	132	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30341	Quartz	Simba	133	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30342	Quartz	Simba	134	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30343	Quartz	Simba	135	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30344	Quartz	Simba	136	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30345	Quartz	Simba	137	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30346	Quartz	Simba	138	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30347	Quartz	Simba	139	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30348	Quartz	Simba	140	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30349	Quartz	Simba	141	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30350	Quartz	Simba	142	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30351	Quartz	Simba	143	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30352	Quartz	Simba	144	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30353	Quartz	Simba	145	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30354	Quartz	Simba	146	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30355	Quartz	Simba	147	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30356	Quartz	Simba	148	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30357	Quartz	Simba	149	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018

YC30358	Quartz	Simba	150	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30359	Quartz	Simba	151	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30360	Quartz	Simba	152	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30361	Quartz	Simba	153	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30362	Quartz	Simba	154	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30363	Quartz	Simba	155	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30364	Quartz	Simba	156	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30365	Quartz	Simba	157	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30366	Quartz	Simba	158	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30367	Quartz	Simba	159	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30368	Quartz	Simba	160	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30369	Quartz	Simba	161	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30370	Quartz	Simba	162	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30371	Quartz	Simba	163	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30372	Quartz	Simba	164	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30373	Quartz	Simba	165	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30374	Quartz	Simba	166	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30375	Quartz	Simba	167	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30376	Quartz	Simba	168	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30377	Quartz	Simba	169	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30378	Quartz	Simba	170	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30379	Quartz	Simba	171	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30380	Quartz	Simba	172	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30381	Quartz	Simba	173	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30382	Quartz	Simba	174	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30383	Quartz	Simba	175	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30384	Quartz	Simba	176	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30385	Quartz	Simba	177	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30386	Quartz	Simba	178	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30387	Quartz	Simba	179	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30388	Quartz	Simba	180	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30389	Quartz	Simba	181	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30390	Quartz	Simba	182	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30391	Quartz	Simba	183	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30392	Quartz	Simba	184	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30393	Quartz	Simba	185	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30394	Quartz	Simba	186	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30395	Quartz	Simba	187	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30396	Quartz	Simba	188	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30397	Quartz	Simba	189	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30398	Quartz	Simba	190	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30399	Quartz	Simba	191	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30400	Quartz	Simba	192	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30401	Quartz	Simba	193	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30402	Quartz	Simba	194	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30403	Quartz	Simba	195	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30404	Quartz	Simba	196	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30405	Quartz	Simba	197	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30406	Quartz	Simba	198	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30407	Quartz	Simba	199	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30408	Quartz	Simba	200	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021

YC30409	Quartz	Simba	201	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30410	Quartz	Simba	202	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30411	Quartz	Simba	203	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30412	Quartz	Simba	204	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30413	Quartz	Simba	205	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30414	Quartz	Simba	206	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30415	Quartz	Simba	207	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30416	Quartz	Simba	208	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30417	Quartz	Simba	209	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30418	Quartz	Simba	210	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30419	Quartz	Simba	211	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30420	Quartz	Simba	212	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30421	Quartz	Simba	213	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30422	Quartz	Simba	214	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC32891	Quartz	Simba	215	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32892	Quartz	Simba	216	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32893	Quartz	Simba	217	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32894	Quartz	Simba	218	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32895	Quartz	Simba	219	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32896	Quartz	Simba	220	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32897	Quartz	Simba	221	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32898	Quartz	Simba	222	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32899	Quartz	Simba	223	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32900	Quartz	Simba	224	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32901	Quartz	Simba	225	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32902	Quartz	Simba	226	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32903	Quartz	Simba	227	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32904	Quartz	Simba	228	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32905	Quartz	Simba	229	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32906	Quartz	Simba	230	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32907	Quartz	Simba	231	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32908	Quartz	Simba	232	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32909	Quartz	Simba	233	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32910	Quartz	Simba	234	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32911	Quartz	Simba	235	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32912	Quartz	Simba	236	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32913	Quartz	Simba	237	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32914	Quartz	Simba	238	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32915	Quartz	Simba	239	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32916	Quartz	Simba	240	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32917	Quartz	Simba	241	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32918	Quartz	Simba	242	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32919	Quartz	Simba	243	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32920	Quartz	Simba	244	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32921	Quartz	Simba	245	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32922	Quartz	Simba	246	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32923	Quartz	Simba	247	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32924	Quartz	Simba	248	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32925	Quartz	Simba	249	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32926	Quartz	Simba	250	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32927	Quartz	Simba	251	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014

YC32928	Quartz	Simba	252	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32929	Quartz	Simba	253	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32930	Quartz	Simba	254	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32931	Quartz	Simba	255	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32932	Quartz	Simba	256	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32933	Quartz	Simba	257	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32934	Quartz	Simba	258	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32935	Quartz	Simba	259	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32936	Quartz	Simba	260	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32937	Quartz	Simba	261	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32938	Quartz	Simba	262	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32939	Quartz	Simba	263	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32940	Quartz	Simba	264	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32941	Quartz	Simba	265	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32942	Quartz	Simba	266	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32943	Quartz	Simba	267	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32944	Quartz	Simba	268	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32945	Quartz	Simba	269	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32946	Quartz	Simba	270	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32947	Quartz	Simba	271	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32948	Quartz	Simba	272	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32949	Quartz	Simba	273	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32950	Quartz	Simba	274	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32951	Quartz	Simba	275	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32952	Quartz	Simba	276	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32953	Quartz	Simba	277	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32954	Quartz	Simba	278	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32955	Quartz	Simba	279	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32956	Quartz	Simba	280	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32957	Quartz	Simba	281	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32958	Quartz	Simba	282	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32959	Quartz	Simba	283	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32960	Quartz	Simba	284	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32961	Quartz	Simba	285	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32962	Quartz	Simba	286	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32963	Quartz	Simba	287	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32964	Quartz	Simba	288	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32965	Quartz	Simba	289	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32966	Quartz	Simba	290	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32967	Quartz	Simba	291	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32968	Quartz	Simba	292	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32969	Quartz	Simba	293	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32970	Quartz	Simba	294	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32971	Quartz	Simba	295	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32972	Quartz	Simba	296	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32973	Quartz	Simba	297	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32974	Quartz	Simba	298	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32975	Quartz	Simba	299	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32976	Quartz	Simba	300	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32977	Quartz	Simba	301	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32978	Quartz	Simba	302	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013

YC32979	Quartz	Simba	303	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32980	Quartz	Simba	304	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32981	Quartz	Simba	305	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32982	Quartz	Simba	306	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32983	Quartz	Simba	307	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32984	Quartz	Simba	308	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32985	Quartz	Simba	309	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32986	Quartz	Simba	310	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32987	Quartz	Simba	311	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32988	Quartz	Simba	312	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32989	Quartz	Simba	313	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32990	Quartz	Simba	314	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32991	Quartz	Simba	315	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32992	Quartz	Simba	316	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32993	Quartz	Simba	317	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32994	Quartz	Simba	318	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32995	Quartz	Simba	319	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32996	Quartz	Simba	320	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32997	Quartz	Simba	321	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32998	Quartz	Simba	322	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32999	Quartz	Simba	323	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33000	Quartz	Simba	324	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33001	Quartz	Simba	325	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33002	Quartz	Simba	326	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33003	Quartz	Simba	327	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33004	Quartz	Simba	328	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33005	Quartz	Simba	329	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33006	Quartz	Simba	330	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33007	Quartz	Simba	331	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33008	Quartz	Simba	332	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33009	Quartz	Simba	333	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33010	Quartz	Simba	334	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33011	Quartz	Simba	335	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33012	Quartz	Simba	336	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33013	Quartz	Simba	337	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33014	Quartz	Simba	338	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33015	Quartz	Simba	339	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33016	Quartz	Simba	340	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33017	Quartz	Simba	341	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33018	Quartz	Simba	342	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33019	Quartz	Simba	343	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33020	Quartz	Simba	344	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33021	Quartz	Simba	345	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33022	Quartz	Simba	346	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33023	Quartz	Simba	347	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33024	Quartz	Simba	348	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33025	Quartz	Simba	349	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33026	Quartz	Simba	350	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33027	Quartz	Simba	351	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33028	Quartz	Simba	352	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33029	Quartz	Simba	353	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013

YC33030	Quartz	Simba	354	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33031	Quartz	Simba	355	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33032	Quartz	Simba	356	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33033	Quartz	Simba	357	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33034	Quartz	Simba	358	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33035	Quartz	Simba	359	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33036	Quartz	Simba	360	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33037	Quartz	Simba	361	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33038	Quartz	Simba	362	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33039	Quartz	Simba	363	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33040	Quartz	Simba	364	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33041	Quartz	Simba	365	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33042	Quartz	Simba	366	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33043	Quartz	Simba	367	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33044	Quartz	Simba	368	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33045	Quartz	Simba	369	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33046	Quartz	Simba	370	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33047	Quartz	Simba	371	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33048	Quartz	Simba	372	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33049	Quartz	Simba	373	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33050	Quartz	Simba	374	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33051	Quartz	Simba	375	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33052	Quartz	Simba	376	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33053	Quartz	Simba	377	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33054	Quartz	Simba	378	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33055	Quartz	Simba	379	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33056	Quartz	Simba	380	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33057	Quartz	Simba	381	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33058	Quartz	Simba	382	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33059	Quartz	Simba	383	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33060	Quartz	Simba	384	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33061	Quartz	Simba	385	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33062	Quartz	Simba	386	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33063	Quartz	Simba	387	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33064	Quartz	Simba	388	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33065	Quartz	Simba	389	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33066	Quartz	Simba	390	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33067	Quartz	Simba	391	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33068	Quartz	Simba	392	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33069	Quartz	Simba	393	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33070	Quartz	Simba	394	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33071	Quartz	Simba	395	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33072	Quartz	Simba	396	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33073	Quartz	Simba	397	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33074	Quartz	Simba	398	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33075	Quartz	Simba	399	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33076	Quartz	Simba	400	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33077	Quartz	Simba	401	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33078	Quartz	Simba	402	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33079	Quartz	Simba	403	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33080	Quartz	Simba	404	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011

YC33081	Quartz	Simba	405	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33082	Quartz	Simba	406	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33083	Quartz	Simba	407	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33084	Quartz	Simba	408	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33085	Quartz	Simba	409	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33086	Quartz	Simba	410	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33087	Quartz	Simba	411	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33088	Quartz	Simba	412	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33089	Quartz	Simba	413	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33090	Quartz	Simba	414	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33091	Quartz	Simba	415	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33092	Quartz	Simba	416	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33093	Quartz	Simba	417	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33094	Quartz	Simba	418	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33095	Quartz	Simba	419	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33096	Quartz	Simba	420	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33097	Quartz	Simba	421	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33098	Quartz	Simba	422	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33099	Quartz	Simba	423	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33100	Quartz	Simba	424	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33101	Quartz	Simba	425	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33102	Quartz	Simba	426	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33103	Quartz	Simba	427	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33104	Quartz	Simba	428	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33105	Quartz	Simba	429	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33106	Quartz	Simba	430	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33107	Quartz	Simba	431	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33108	Quartz	Simba	432	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC35058	Quartz	Simba	433	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35059	Quartz	Simba	434	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35060	Quartz	Simba	435	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35061	Quartz	Simba	436	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35062	Quartz	Simba	437	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35063	Quartz	Simba	438	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35064	Quartz	Simba	439	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35065	Quartz	Simba	440	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35066	Quartz	Simba	441	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35067	Quartz	Simba	442	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35068	Quartz	Simba	443	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35069	Quartz	Simba	444	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35070	Quartz	Simba	445	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35071	Quartz	Simba	446	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35072	Quartz	Simba	447	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35073	Quartz	Simba	448	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35074	Quartz	Simba	449	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35075	Quartz	Simba	450	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35076	Quartz	Simba	451	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35077	Quartz	Simba	452	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35078	Quartz	Simba	453	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35079	Quartz	Simba	454	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35080	Quartz	Simba	455	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014

YC35081	Quartz	Simba	456	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35082	Quartz	Simba	457	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35083	Quartz	Simba	458	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35084	Quartz	Simba	459	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35085	Quartz	Simba	460	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35086	Quartz	Simba	461	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35087	Quartz	Simba	462	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35088	Quartz	Simba	463	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35089	Quartz	Simba	464	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35090	Quartz	Simba	465	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35091	Quartz	Simba	466	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35092	Quartz	Simba	467	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35093	Quartz	Simba	468	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35094	Quartz	Simba	469	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35095	Quartz	Simba	470	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35096	Quartz	Simba	471	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35097	Quartz	Simba	472	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35098	Quartz	Simba	473	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35099	Quartz	Simba	474	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35100	Quartz	Simba	475	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35101	Quartz	Simba	476	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35102	Quartz	Simba	477	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35103	Quartz	Simba	478	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35104	Quartz	Simba	479	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35105	Quartz	Simba	480	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35106	Quartz	Simba	481	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35107	Quartz	Simba	482	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35108	Quartz	Simba	483	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35109	Quartz	Simba	484	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35110	Quartz	Simba	485	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35111	Quartz	Simba	486	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35112	Quartz	Simba	487	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35113	Quartz	Simba	488	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35989	Quartz	NSimba	1	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35990	Quartz	NSimba	2	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35991	Quartz	NSimba	3	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35992	Quartz	NSimba	4	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35993	Quartz	NSimba	5	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35994	Quartz	NSimba	6	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35995	Quartz	NSimba	7	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35996	Quartz	NSimba	8	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35997	Quartz	NSimba	9	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35998	Quartz	NSimba	10	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35999	Quartz	NSimba	11	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36000	Quartz	NSimba	12	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36001	Quartz	NSimba	13	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36002	Quartz	NSimba	14	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36003	Quartz	NSimba	15	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36004	Quartz	NSimba	16	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36005	Quartz	NSimba	17	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36006	Quartz	NSimba	18	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018

YC36007	Quartz	NSimba	19	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36008	Quartz	NSimba	20	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36009	Quartz	NSimba	21	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36010	Quartz	NSimba	22	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36011	Quartz	NSimba	23	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36012	Quartz	NSimba	24	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36013	Quartz	NSimba	25	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36014	Quartz	NSimba	26	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36015	Quartz	NSimba	27	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36016	Quartz	NSimba	28	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36017	Quartz	NSimba	29	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36018	Quartz	NSimba	30	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36019	Quartz	NSimba	31	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36020	Quartz	NSimba	32	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36021	Quartz	NSimba	33	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36022	Quartz	NSimba	34	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36023	Quartz	NSimba	35	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36024	Quartz	NSimba	36	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36025	Quartz	NSimba	37	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36026	Quartz	NSimba	38	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36027	Quartz	NSimba	39	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36028	Quartz	NSimba	40	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36029	Quartz	NSimba	41	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36030	Quartz	NSimba	42	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36031	Quartz	NSimba	43	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36032	Quartz	NSimba	44	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36033	Quartz	NSimba	45	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36034	Quartz	NSimba	46	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36035	Quartz	NSimba	47	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36036	Quartz	NSimba	48	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36037	Quartz	NSimba	49	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36038	Quartz	NSimba	50	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36039	Quartz	NSimba	51	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36040	Quartz	NSimba	52	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36041	Quartz	NSimba	53	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36042	Quartz	NSimba	54	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36043	Quartz	NSimba	55	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36044	Quartz	NSimba	56	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36045	Quartz	NSimba	57	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36046	Quartz	NSimba	58	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36047	Quartz	NSimba	59	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36048	Quartz	NSimba	60	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36049	Quartz	NSimba	61	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36050	Quartz	NSimba	62	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36051	Quartz	NSimba	63	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36052	Quartz	NSimba	64	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36210	Quartz	Simba	489	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36211	Quartz	Simba	490	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36212	Quartz	Simba	491	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36213	Quartz	Simba	492	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36214	Quartz	Simba	493	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015

YC36215	Quartz	Simba	494	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36216	Quartz	Simba	495	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36217	Quartz	Simba	496	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36218	Quartz	Simba	497	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36219	Quartz	Simba	498	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36220	Quartz	Simba	499	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36221	Quartz	Simba	500	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36222	Quartz	Simba	501	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36223	Quartz	Simba	502	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36224	Quartz	Simba	503	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36225	Quartz	Simba	504	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36226	Quartz	Simba	505	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36227	Quartz	Simba	506	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36228	Quartz	Simba	507	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36229	Quartz	Simba	508	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36230	Quartz	Simba	509	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36231	Quartz	Simba	510	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36232	Quartz	Simba	511	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36233	Quartz	Simba	512	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36234	Quartz	Simba	513	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36235	Quartz	Simba	514	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36236	Quartz	Simba	515	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36237	Quartz	Simba	516	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36238	Quartz	Simba	517	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36239	Quartz	Simba	518	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36240	Quartz	Simba	519	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36241	Quartz	Simba	520	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36242	Quartz	Simba	521	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36243	Quartz	Simba	522	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36244	Quartz	Simba	523	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36245	Quartz	Simba	524	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36246	Quartz	Simba	525	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36247	Quartz	Simba	526	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36248	Quartz	Simba	527	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36249	Quartz	Simba	528	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36250	Quartz	Simba	529	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36251	Quartz	Simba	530	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36252	Quartz	Simba	531	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36253	Quartz	Simba	532	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36254	Quartz	Simba	533	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36255	Quartz	Simba	534	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36256	Quartz	Simba	535	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36257	Quartz	Simba	536	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36258	Quartz	Simba	551	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36259	Quartz	Simba	552	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36260	Quartz	Simba	553	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36261	Quartz	Simba	554	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36262	Quartz	Simba	555	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36263	Quartz	Simba	556	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36264	Quartz	Simba	557	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36265	Quartz	Simba	558	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012

YC36266	Quartz	Simba	559	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36267	Quartz	Simba	560	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36268	Quartz	Simba	561	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36269	Quartz	Simba	562	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36270	Quartz	Simba	563	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36271	Quartz	Simba	564	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36272	Quartz	Simba	565	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36273	Quartz	Simba	566	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36274	Quartz	Simba	567	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36275	Quartz	Simba	568	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36276	Quartz	Simba	569	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36277	Quartz	Simba	570	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36278	Quartz	Simba	571	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36279	Quartz	Simba	572	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36280	Quartz	Simba	573	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36281	Quartz	Simba	574	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36282	Quartz	Simba	575	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36283	Quartz	Simba	576	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36284	Quartz	Simba	577	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36285	Quartz	Simba	578	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC62993	Quartz	Trina	1	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62994	Quartz	Trina	2	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62995	Quartz	Trina	3	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62996	Quartz	Trina	4	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62997	Quartz	Trina	5	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62998	Quartz	Trina	6	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62999	Quartz	Trina	7	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63000	Quartz	Trina	8	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63001	Quartz	Trina	9	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63002	Quartz	Trina	10	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63003	Quartz	Trina	11	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63004	Quartz	Trina	12	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63005	Quartz	Trina	13	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63006	Quartz	Trina	14	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63007	Quartz	Trina	15	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63008	Quartz	Trina	16	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63009	Quartz	Trina	17	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63010	Quartz	Trina	18	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63011	Quartz	Trina	19	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63012	Quartz	Trina	20	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63013	Quartz	Trina	21	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63014	Quartz	Trina	22	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63015	Quartz	Trina	23	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63016	Quartz	Trina	24	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63017	Quartz	Trina	25	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63018	Quartz	Trina	26	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63019	Quartz	Trina	27	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63020	Quartz	Trina	28	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009

Appendix C

Rock and Bulk Sample Analyses

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

8V-2998-RA1

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following assay of 10 rock samples submitted Aug-15-08

Sample Name	-150 Au g/tonne	+150 Au g/tonne
816979	0.29	2.07
816979	0.24	1.78
816979	0.28	0.95
816979	0.20	1.40
816979	0.20	1.78
816979	0.27	2.28
816979	0.22	0.92
816979	0.24	2.35
816979	0.24	
816979	0.33	
*0211	2.09	2.19
*BLANK	<0.01	<0.01

Certified by ____________________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

8V-2998-RA2

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following assay of 20 pulp samples submitted Aug-15-08

Sample Name	-150 Au g/tonne	+150 Au g/tonne	+150 Au
816980	0.04	0.01	0.01
816980	0.04	0.01	0.01
816980	0.06	0.01	0.01
816980	0.04	0.01	0.01
816980	0.04	0.08	0.01
816980	0.04	0.01	0.01
816980	0.04	0.12	0.01
816980	0.04	0.01	0.07
816980	0.04	0.32	0.01
816980	0.03	0.01	0.01
816980	0.03	0.01	0.01
816980	0.03	0.01	0.18
816980	0.03	0.01	0.04
816980	0.03	0.12	0.01
816980	0.02	0.01	
816980	0.04	0.02	
816980	0.03	0.16	
816980	0.04	0.01	
816980	0.04	0.01	
816980	0.03	0.01	
*0211	2.19	2.20	
*Blank	<0.01	<0.01	

Certified by ____________________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Metallic Assay Certificate

8V-2998-RM1

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following analysis of 2 rock samples submitted Aug-15-08

Sample Name	WtTotal g	Wt+150 g	+150Au mg	-150Au g/tonne	Metallic Au g/tonne	Net Au g/tonne
816979	29100	219.2	0.370	0.25	0.01	0.26

Certified by ____________________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Metallic Assay Certificate

8V-2998-RM2

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

Oct-07-08

We *hereby certify* the following analysis of 20 core samples submitted Aug-15-08

Sample Name	WtTotal g	Wt+150 g	+150Au mg	-150Au g/tonne	Metallic Au g/tonne	Net Au g/tonne
816980	120400	1021.8	0.041	0.04	<0.01	0.04

Certified by ____________________

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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: Logan Resources Ltd.
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Submitted By: Rita Chow
Receiving Lab: Canada-Vancouver
Received: August 15, 2008
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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
M150	22	Crush, Pulverize and Sieve 500g, save +150 and -150 mes		
Split +150 mesh	22	Analysis sample split/packet		
Split -150	22	Analysis sample split/packet		
R150	78	Crush, split and pulverize rock to 200 mesh		
G6.ME	22	Metallics Fire Assay	30	Completed
4A	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
7TD	99	4 Acid digestion ICP-ES analysis.	0.5	Completed

ADDITIONAL COMMENTS

Invoice To: Logan Resources Ltd.
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN

![AcmeLabs]

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Client: **Logan Resources Ltd.**
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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816938	Rock	3.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816939	Rock	0.70	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816940	Rock	3.78	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816941	Rock	1.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816942	Rock	1.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816943	Rock	1.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816944	Rock	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816945	Rock	1.91	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816946	Rock	0.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816947	Rock	0.57	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816948	Rock	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816956	Rock	4.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816957	Rock	2.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816958	Rock	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816959	Rock	1.62	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816960	Rock	1.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816961	Rock	1.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816962	Rock	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816963	Rock	0.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816964	Rock	1.18	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816985	Rock	1.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816986	Rock	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816987	Rock	2.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817060	Rock	2.35	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817061	Rock	1.92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817062	Rock	3.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817063	Rock	2.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816951	Rock	2.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816952	Rock	1.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816953	Rock	2.41	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816938	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.016	<0.02	0.02	<2	0.014	0.004	0.26	7.97	<0.02	<0.01	<0.001
816939	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.02	<2	0.022	0.006	0.28	9.23	<0.02	<0.01	<0.001
816940	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.021	<0.02	0.01	<2	0.014	0.004	0.25	8.07	<0.02	<0.01	<0.001
816941	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.016	<0.02	0.02	2	0.018	0.005	0.23	10.60	<0.02	<0.01	<0.001
816942	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	<2	0.014	0.004	0.24	7.99	<0.02	<0.01	<0.001
816943	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.146	<0.02	0.02	<2	0.012	0.004	0.23	8.69	<0.02	<0.01	<0.001
816944	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.143	<0.02	0.03	2	0.018	0.007	0.36	12.05	<0.02	<0.01	<0.001
816945	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	0.01	<2	0.014	0.004	0.29	7.54	<0.02	<0.01	<0.001
816946	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.629	<0.02	0.02	4	0.014	0.005	0.31	7.58	<0.02	<0.01	<0.001
816947	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.141	<0.02	0.02	<2	0.016	0.005	0.26	9.04	<0.02	<0.01	<0.001
816948	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.02	<2	0.021	0.005	0.33	10.13	<0.02	<0.01	<0.001
816956	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	0.02	<2	0.020	0.005	0.33	8.52	<0.02	<0.01	<0.001
816957	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.02	<2	0.017	0.005	0.31	9.22	<0.02	<0.01	<0.001
816958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	2	0.019	0.005	0.30	10.03	<0.02	<0.01	<0.001
816959	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.012	<0.02	<0.01	<2	0.010	0.003	0.25	5.65	<0.02	<0.01	<0.001
816960	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	<2	0.021	0.005	0.35	10.00	<0.02	<0.01	<0.001
816961	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.03	<2	0.035	0.008	0.33	13.99	<0.02	<0.01	<0.001
816962	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.04	<2	0.023	0.009	0.38	15.98	<0.02	<0.01	<0.001
816963	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.03	<2	0.024	0.007	0.29	13.58	<0.02	<0.01	<0.001
816964	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.013	<0.02	0.04	<2	0.032	0.009	0.37	15.34	<0.02	<0.01	<0.001
816985	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	<0.01	<2	0.001	<0.001	0.03	1.48	<0.02	<0.01	<0.001
816986	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.053	<0.02	<0.01	<2	0.004	0.003	0.47	17.83	<0.02	<0.01	<0.001
816987	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.219	<0.02	0.02	<2	0.017	0.005	0.31	9.30	<0.02	<0.01	<0.001
817060	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.053	<0.02	<0.01	<2	0.005	0.017	0.35	18.16	0.50	0.01	<0.001
817061	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.050	<0.02	<0.01	<2	0.005	0.003	0.40	17.18	<0.02	0.01	<0.001
817062	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.119	<0.02	<0.01	<2	0.012	0.008	0.34	28.28	0.05	<0.01	<0.001
817063	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	<0.01	<2	0.001	0.002	0.12	5.07	<0.02	0.07	<0.001
816951	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.017	<0.02	<0.01	<2	0.002	<0.001	0.18	8.11	<0.02	0.06	<0.001
816952	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.270	<0.02	0.02	<2	0.024	0.017	0.09	37.75	0.10	<0.01	<0.001
816953	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.764	<0.02	0.02	97	<0.001	<0.001	0.13	3.01	0.02	<0.01	<0.001

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816938	Rock	<0.01	<0.01	6.58	0.22	0.014	3.84	4.75	<0.01	0.02	<0.01
816939	Rock	<0.01	<0.01	8.61	0.39	0.017	4.56	5.37	<0.01	<0.01	<0.01
816940	Rock	<0.01	<0.01	8.75	0.29	0.012	3.77	4.52	0.01	<0.01	<0.01
816941	Rock	<0.01	<0.01	5.90	0.37	0.016	4.63	5.59	0.01	0.01	<0.01
816942	Rock	<0.01	<0.01	8.92	0.29	0.013	3.88	4.59	<0.01	<0.01	<0.01
816943	Rock	<0.01	<0.01	3.98	0.22	0.012	3.82	6.18	0.13	0.76	<0.01
816944	Rock	<0.01	<0.01	5.66	0.27	0.014	6.13	9.97	0.12	1.31	<0.01
816945	Rock	<0.01	<0.01	8.24	0.27	0.012	3.54	4.16	<0.01	0.02	<0.01
816946	Rock	<0.01	<0.01	7.29	0.23	0.011	3.90	5.17	0.06	0.15	<0.01
816947	Rock	<0.01	<0.01	4.80	0.30	0.014	4.24	6.37	0.20	0.60	<0.01
816948	Rock	<0.01	<0.01	9.29	0.39	0.018	4.58	5.43	<0.01	0.01	<0.01
816956	Rock	<0.01	<0.01	8.67	0.34	0.016	4.11	5.06	<0.01	0.02	<0.01
816957	Rock	<0.01	<0.01	7.44	0.34	0.015	4.29	5.27	<0.01	<0.01	<0.01
816958	Rock	<0.01	<0.01	5.95	0.40	0.017	5.22	6.01	0.01	<0.01	<0.01
816959	Rock	<0.01	<0.01	7.44	0.20	0.009	2.64	3.14	<0.01	<0.01	<0.01
816960	Rock	<0.01	<0.01	9.10	0.39	0.015	4.53	5.51	<0.01	0.01	<0.01
816961	Rock	<0.01	<0.01	5.75	0.54	0.026	6.25	7.46	<0.01	0.02	<0.01
816962	Rock	<0.01	<0.01	2.04	0.17	0.010	8.28	9.95	<0.01	0.03	<0.01
816963	Rock	<0.01	<0.01	3.79	0.42	0.021	6.04	10.78	0.08	1.72	<0.01
816964	Rock	<0.01	<0.01	5.24	0.64	0.025	7.41	9.34	<0.01	0.03	<0.01
816985	Rock	<0.01	<0.01	0.49	0.02	0.002	0.25	2.75	1.11	0.59	<0.01
816986	Rock	<0.01	<0.01	11.02	0.10	0.003	1.92	0.91	0.08	0.11	<0.01
816987	Rock	<0.01	<0.01	5.95	0.31	0.016	4.54	5.90	0.05	0.10	<0.01
817060	Rock	<0.01	0.38	12.05	0.16	0.003	0.84	4.23	0.50	0.25	<0.01
817061	Rock	<0.01	0.03	14.16	0.06	0.002	0.62	4.31	0.70	0.22	<0.01
817062	Rock	<0.01	0.35	8.93	0.51	0.003	1.12	1.05	0.03	0.03	<0.01
817063	Rock	<0.01	<0.01	4.17	0.16	0.003	1.61	6.85	1.31	4.42	<0.01
816951	Rock	<0.01	<0.01	11.62	0.03	0.006	0.73	7.01	1.47	1.12	<0.01
816952	Rock	<0.01	0.21	5.63	0.11	0.002	0.30	1.60	0.16	0.16	<0.01
816953	Rock	0.02	<0.01	0.13	<0.01	0.002	0.02	0.36	0.02	0.14	<0.01

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Client: **Logan Resources Ltd.**
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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816954	Rock	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816955	Rock	2.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816949	Rock	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816901	Rock	1.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816902	Rock	2.57	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816903	Rock	2.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816904	Rock	3.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816905	Rock	3.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816910	Rock	1.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816911	Rock	1.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816912	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816965	Rock	1.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816966	Rock	1.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816967	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816968	Rock	1.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816969	Rock	1.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816970	Rock	0.79	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816971	Rock	1.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816972	Rock	1.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816973	Rock	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816974	Rock	1.75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816975	Rock	1.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816976	Rock	2.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816921	Rock	1.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816922	Rock	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816923	Rock	1.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816927	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816931	Rock	1.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816935	Rock	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816936	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816954	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.002	0.001	0.03	3.86	<0.02	<0.01	<0.001
816955	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.001	<0.001	0.02	2.20	0.04	0.01	<0.001
816949	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	0.03	<2	0.029	0.008	0.24	15.68	<0.02	<0.01	<0.001
816901	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	<0.001	<0.001	0.01	4.38	<0.02	<0.01	<0.001
816902	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.003	<0.02	<0.01	<2	<0.001	<0.001	0.04	3.36	<0.02	0.01	<0.001
816903	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	0.01	<2	<0.001	<0.001	0.01	6.44	<0.02	<0.01	<0.001
816904	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	<0.001	<0.001	0.02	7.36	<0.02	<0.01	<0.001
816905	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.01	3.21	<0.02	<0.01	<0.001
816910	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.94	<0.02	<0.01	<0.001
816911	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	<0.001	0.03	0.02	<2	<0.001	<0.001	0.09	2.75	<0.02	0.02	<0.001
816912	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.012	<0.02	<0.01	<2	0.003	<0.001	<0.01	0.88	<0.02	<0.01	<0.001
816965	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.005	<0.02	<0.01	<2	0.001	0.002	0.09	4.71	<0.02	0.09	<0.001
816966	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.001	0.002	0.11	4.90	<0.02	0.08	<0.001
816967	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	<0.001	0.002	0.11	4.84	<0.02	0.09	<0.001
816968	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.062	<0.02	<0.01	<2	0.007	0.004	0.20	22.90	<0.02	0.01	<0.001
816969	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.115	<0.02	<0.01	<2	0.011	0.006	0.18	23.19	<0.02	0.01	<0.001
816970	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.019	<0.02	<0.01	<2	0.001	0.002	0.13	5.74	<0.02	0.07	<0.001
816971	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.01	<2	0.002	0.002	0.31	10.84	<0.02	0.04	<0.001
816972	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	0.01	<2	0.002	<0.001	0.36	9.62	<0.02	0.05	<0.001
816973	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.043	<0.02	<0.01	<2	0.006	0.003	0.30	13.56	0.03	0.05	<0.001
816974	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.137	<0.02	<0.01	<2	0.020	0.016	0.05	39.55	0.15	<0.01	<0.001
816975	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.025	<0.02	<0.01	<2	0.002	0.005	0.54	11.35	0.10	0.02	<0.001
816976	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.115	<0.02	<0.01	<2	0.012	0.008	0.36	29.20	0.04	<0.01	<0.001
816921	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.393	<0.02	0.02	<2	0.013	0.005	0.27	8.64	<0.02	<0.01	<0.001
816922	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.506	<0.02	0.02	<2	0.014	0.004	0.33	7.07	<0.02	<0.01	<0.001
816923	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.013	<0.02	0.03	<2	0.024	0.008	0.35	13.40	<0.02	<0.01	<0.001
816927	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.225	<0.02	0.02	<2	0.007	0.005	1.14	6.99	<0.02	<0.01	<0.001
816931	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.015	<0.02	0.02	<2	0.016	0.005	0.24	9.25	<0.02	<0.01	<0.001
816935	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.174	<0.02	0.03	5	0.018	0.008	0.33	13.03	<0.02	0.02	<0.001
816936	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.231	<0.02	0.03	2	0.017	0.007	0.28	12.32	<0.02	<0.01	<0.001

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816954	Rock	<0.01	<0.01	0.30	0.01	0.003	0.47	5.46	1.30	1.38	<0.01
816955	Rock	<0.01	<0.01	1.47	0.01	0.003	0.44	4.66	1.25	1.40	<0.01
816949	Rock	<0.01	<0.01	0.05	<0.01	0.005	10.50	10.57	<0.01	<0.01	<0.01
816901	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.02	6.53	3.00	6.17	<0.01
816902	Rock	<0.01	<0.01	0.07	<0.01	<0.001	0.03	6.72	4.32	4.96	<0.01
816903	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.02	6.41	3.70	5.23	<0.01
816904	Rock	<0.01	<0.01	<0.01	0.02	<0.001	0.01	6.12	2.91	5.73	<0.01
816905	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.03	6.31	3.29	6.55	<0.01
816910	Rock	<0.01	<0.01	0.10	0.06	<0.001	0.14	5.52	0.34	5.99	<0.01
816911	Rock	<0.01	<0.01	0.40	0.02	<0.001	0.04	7.10	4.40	5.50	<0.01
816912	Rock	<0.01	<0.01	0.03	0.06	0.010	0.05	0.81	0.02	0.27	<0.01
816965	Rock	<0.01	<0.01	4.27	0.16	0.003	1.62	6.86	1.44	4.00	<0.01
816966	Rock	<0.01	<0.01	4.24	0.16	0.003	1.64	6.46	1.35	3.85	<0.01
816967	Rock	<0.01	<0.01	4.58	0.18	0.002	1.71	7.16	1.35	4.13	<0.01
816968	Rock	<0.01	<0.01	6.90	<0.01	0.003	0.65	4.45	1.01	1.06	<0.01
816969	Rock	<0.01	0.09	5.69	<0.01	0.003	0.40	4.55	0.98	0.89	<0.01
816970	Rock	<0.01	<0.01	6.01	0.19	0.003	1.73	6.75	1.22	4.43	<0.01
816971	Rock	<0.01	<0.01	10.40	0.16	0.002	1.73	6.65	1.23	0.50	<0.01
816972	Rock	<0.01	<0.01	11.59	0.06	0.005	0.97	7.31	0.79	1.37	<0.01
816973	Rock	<0.01	0.05	12.60	0.07	0.005	0.51	6.62	0.31	0.58	<0.01
816974	Rock	<0.01	0.37	1.76	0.02	0.001	0.36	1.05	0.08	0.13	<0.01
816975	Rock	<0.01	0.14	15.46	0.15	0.003	0.53	6.79	0.71	0.45	<0.01
816976	Rock	<0.01	0.37	9.05	0.50	0.002	1.12	0.68	0.02	<0.01	<0.01
816921	Rock	<0.01	<0.01	4.74	0.22	0.012	4.14	6.09	0.26	0.27	<0.01
816922	Rock	<0.01	<0.01	9.40	0.24	0.012	3.58	4.54	0.02	0.05	<0.01
816923	Rock	<0.01	<0.01	6.08	0.47	0.024	6.17	7.38	<0.01	0.08	<0.01
816927	Rock	<0.01	<0.01	0.38	0.06	0.008	3.54	7.82	1.16	1.36	<0.01
816931	Rock	<0.01	<0.01	5.69	0.30	0.015	4.25	5.02	<0.01	<0.01	<0.01
816935	Rock	<0.01	<0.01	5.34	0.09	0.019	5.12	8.37	<0.01	0.10	<0.01
816936	Rock	<0.01	<0.01	2.62	0.15	0.019	5.70	10.57	0.07	1.97	<0.01

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	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816906	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816907	Rock	1.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816908	Rock	3.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817051	Rock	2.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817052	Rock	1.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817053	Rock	0.93	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817054	Rock	1.76	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817055	Rock	2.26	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817056	Rock	1.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817057	Rock	1.67	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817058	Rock	1.95	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817059	Rock	3.77	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816913	Rock	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816914	Rock	0.96	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816915	Rock	0.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816916	Rock	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816917	Rock	0.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816918	Rock	1.04	524.9	0.24	22.26	<0.005	0.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816920	Rock	0.52	500	<0.01	22.36	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816924	Rock	1.74	459.7	0.21	18.69	<0.005	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816925	Rock	2.01	502	1.42	20.58	0.622	2.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816926	Rock	2.11	533.3	2.64	22.96	0.911	4.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816928	Rock	1.35	593.8	0.03	24.97	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816929	Rock	1.02	525.8	<0.01	19.29	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816930	Rock	1.35	598.3	<0.01	25.26	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816932	Rock	1.51	539.8	0.13	25.17	<0.005	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816933	Rock	1.49	553.4	0.03	19.50	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816934	Rock	0.91	463.7	0.03	23.41	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816937	Rock	1.75	444.7	0.31	19.21	0.122	0.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816909	Rock	2.06	488.1	0.20	21.63	<0.005	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816906	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	<0.01	3	0.014	0.004	0.13	6.50	<0.02	<0.01	<0.001
816907	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	<0.01	<2	0.007	0.003	0.14	7.56	<0.02	<0.01	<0.001
816908	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	2	0.012	0.004	0.13	6.06	<0.02	<0.01	<0.001
817051	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	0.004	0.002	0.14	5.92	<0.02	<0.01	<0.001
817052	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	0.01	3	0.004	0.003	0.17	5.80	<0.02	0.01	<0.001
817053	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	0.01	<2	0.005	0.003	0.14	7.44	<0.02	0.01	<0.001
817054	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	<0.01	<2	0.003	0.002	0.08	4.76	<0.02	<0.01	<0.001
817055	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	0.01	<2	0.004	0.003	0.19	6.01	<0.02	0.02	<0.001
817056	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.18	5.74	<0.02	0.02	<0.001
817057	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	<0.01	<2	0.003	0.002	0.16	5.42	<0.02	0.01	<0.001
817058	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	0.01	<2	0.005	0.003	0.11	6.64	<0.02	0.02	<0.001
817059	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	0.004	0.002	0.15	5.68	<0.02	0.02	<0.001
816913	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	0.01	<2	0.004	0.003	0.11	5.92	<0.02	<0.01	<0.001
816914	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.004	0.003	0.13	5.81	<0.02	0.01	<0.001
816915	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.13	5.76	<0.02	<0.01	<0.001
816916	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	<0.01	<2	0.004	0.003	0.18	5.59	<0.02	0.01	<0.001
816917	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.013	<0.02	<0.01	<2	0.004	0.002	0.11	6.09	<0.02	<0.01	<0.001
816918	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.660	<0.02	<0.01	<2	0.003	0.001	0.07	3.12	<0.02	<0.01	<0.001
816920	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	<0.01	<2	0.001	<0.001	0.10	1.03	<0.02	<0.01	<0.001
816924	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.045	<0.02	<0.01	<2	0.002	<0.001	0.10	1.91	<0.02	<0.01	<0.001
816925	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.402	<0.02	<0.01	<2	<0.001	<0.001	0.07	0.67	<0.02	<0.01	<0.001
816926	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.230	<0.02	<0.01	<2	<0.001	<0.001	0.10	0.74	<0.02	<0.01	<0.001
816928	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.168	<0.02	<0.01	<2	<0.001	<0.001	0.10	0.72	<0.02	<0.01	<0.001
816929	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.09	0.46	<0.02	<0.01	<0.001
816930	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.06	0.37	<0.02	<0.01	<0.001
816932	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.274	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.78	<0.02	<0.01	<0.001
816933	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.055	<0.02	<0.01	<2	0.002	<0.001	0.22	1.90	<0.02	0.01	<0.001
816934	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.068	<0.02	<0.01	<2	<0.001	<0.001	0.02	0.72	<0.02	<0.01	<0.001
816937	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	1.861	<0.02	<0.01	5	<0.001	<0.001	0.02	0.51	<0.02	<0.01	<0.001
816909	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.056	<0.02	<0.01	<2	0.003	<0.001	0.25	2.10	<0.02	<0.01	<0.001

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Client: Logan Resources Ltd.
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816906	Rock	<0.01	<0.01	9.40	0.04	0.030	3.38	6.77	0.87	0.02	<0.01
816907	Rock	<0.01	<0.01	5.34	0.03	0.035	4.36	7.34	3.08	0.04	<0.01
816908	Rock	<0.01	<0.01	10.26	0.03	0.027	2.89	5.89	0.08	0.12	<0.01
817051	Rock	<0.01	<0.01	2.18	0.20	0.005	1.33	7.40	1.48	2.42	<0.01
817052	Rock	<0.01	<0.01	2.07	0.08	0.005	1.68	7.02	1.83	1.67	<0.01
817053	Rock	<0.01	<0.01	1.12	0.03	0.006	1.99	7.87	2.11	1.83	<0.01
817054	Rock	<0.01	<0.01	0.76	0.06	0.005	1.34	6.67	1.03	2.50	<0.01
817055	Rock	<0.01	<0.01	3.17	0.08	0.005	1.63	6.93	1.88	1.63	<0.01
817056	Rock	<0.01	<0.01	2.60	0.10	0.005	1.42	6.67	1.53	1.75	<0.01
817057	Rock	<0.01	<0.01	2.18	0.10	0.004	1.24	6.46	1.33	1.95	<0.01
817058	Rock	<0.01	<0.01	1.17	0.05	0.005	1.53	7.37	1.65	2.17	<0.01
817059	Rock	<0.01	<0.01	3.16	0.24	0.004	1.25	6.87	1.52	1.93	<0.01
816913	Rock	<0.01	<0.01	1.16	0.08	0.004	1.63	7.40	1.55	2.33	<0.01
816914	Rock	<0.01	<0.01	1.54	0.07	0.005	1.46	7.21	1.67	2.09	<0.01
816915	Rock	<0.01	<0.01	1.72	0.06	0.004	1.37	6.92	1.61	2.04	<0.01
816916	Rock	<0.01	<0.01	3.11	0.08	0.004	1.46	6.69	1.61	1.84	<0.01
816917	Rock	<0.01	<0.01	0.77	0.03	0.004	1.51	7.09	1.55	2.21	<0.01
816918	Rock	<0.01	<0.01	1.19	0.03	0.005	0.96	2.90	0.10	0.85	<0.01
816920	Rock	<0.01	<0.01	4.74	0.02	0.002	0.36	0.42	<0.01	0.01	<0.01
816924	Rock	<0.01	<0.01	6.13	0.08	0.002	0.99	1.15	<0.01	0.02	<0.01
816925	Rock	<0.01	<0.01	3.69	0.02	0.002	0.13	0.18	<0.01	<0.01	<0.01
816926	Rock	<0.01	<0.01	5.12	0.03	<0.001	0.13	0.24	<0.01	0.01	<0.01
816928	Rock	<0.01	<0.01	0.07	<0.01	<0.001	0.11	0.40	0.02	0.13	<0.01
816929	Rock	<0.01	<0.01	4.95	<0.01	<0.001	0.01	0.02	<0.01	<0.01	<0.01
816930	Rock	<0.01	<0.01	3.16	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
816932	Rock	<0.01	<0.01	0.52	0.01	0.001	0.16	0.22	<0.01	<0.01	<0.01
816933	Rock	<0.01	<0.01	9.54	0.04	0.002	0.78	1.20	<0.01	0.13	<0.01
816934	Rock	<0.01	<0.01	0.40	0.02	<0.001	0.10	0.17	<0.01	0.01	<0.01
816937	Rock	<0.01	<0.01	0.01	<0.01	<0.001	<0.01	0.04	<0.01	0.02	<0.01
816909	Rock	<0.01	<0.01	8.82	0.03	0.003	0.75	1.48	0.05	0.18	<0.01

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Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816977	Rock	1.39	536.2	1.87	25.84	1.479	4.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816978	Rock	1.64	427.9	1.29	24.23	0.734	2.93	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816981	Rock	0.66	432.7	0.11	20.35	<0.005	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816982	Rock	2.08	511.8	0.49	18.81	0.35	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816983	Rock	1.12	526.2	0.02	24.04	<0.005	0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816984	Rock	0.94	526.8	0.30	26.42	0.111	0.49	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816988	Rock	1.17	561.3	0.10	26.10	0.087	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816989	Rock	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	48.76	12.96	6.85	4.96	8.34	1.50	4.01	0.58	0.30	0.23	0.036	1505	32	808
816990	Rock	2.38	554.8	1.36	29.83	0.702	2.55	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816991	Rock	1.88	486.1	1.84	20.06	0.608	3.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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1640 - 1066 Hastings St. W.
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Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816977	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.337	<0.02	<0.01	<2	<0.001	<0.001	0.09	1.01	<0.02	<0.01	<0.001
816978	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.240	<0.02	<0.01	<2	0.001	<0.001	0.08	1.32	<0.02	<0.01	<0.001
816981	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.205	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.85	<0.02	<0.01	<0.001
816982	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.096	<0.02	<0.01	<2	<0.001	<0.001	0.08	0.86	<0.02	<0.01	<0.001
816983	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.118	<0.02	<0.01	<2	<0.001	<0.001	0.08	0.57	<0.02	<0.01	<0.001
816984	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.018	<0.02	<0.01	<2	<0.001	<0.001	0.04	0.69	<0.02	<0.01	<0.001
816988	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.246	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.84	<0.02	<0.01	<0.001
816989	Rock	224	25	10	20	10.9	99.77	2.83	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816990	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.348	<0.02	<0.01	<2	<0.001	<0.001	0.15	0.94	<0.02	<0.01	<0.001
816991	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.351	<0.02	<0.01	<2	<0.001	<0.001	0.12	0.67	<0.02	<0.01	<0.001

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CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816977	Rock	<0.01	<0.01	4.07	0.02	0.002	0.30	0.40	<0.01	<0.01	<0.01
816978	Rock	<0.01	<0.01	3.36	0.02	0.001	0.43	0.53	<0.01	<0.01	<0.01
816981	Rock	<0.01	<0.01	0.76	0.02	<0.001	0.16	0.23	<0.01	0.01	<0.01
816982	Rock	<0.01	<0.01	4.01	0.03	<0.001	0.18	0.28	<0.01	0.01	<0.01
816983	Rock	<0.01	<0.01	0.04	<0.01	<0.001	0.04	0.29	0.02	0.12	<0.01
816984	Rock	<0.01	<0.01	1.85	<0.01	<0.001	0.15	0.16	<0.01	<0.01	<0.01
816988	Rock	<0.01	<0.01	0.17	0.01	<0.001	0.25	0.32	<0.01	0.02	<0.01
816989	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816990	Rock	<0.01	<0.01	7.83	0.02	<0.001	0.27	0.38	<0.01	<0.01	<0.01
816991	Rock	<0.01	<0.01	6.65	0.02	<0.001	0.12	0.18	<0.01	<0.01	<0.01

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QUALITY CONTROL REPORT VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
Pulp Duplicates																					
816958	Rock	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816958	QC																				
816912	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816912	QC																				
816906	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816906	QC																				
Reference Materials																					
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OXH55	Standard			1.31																	
STD OXH55	Standard			1.34																	
STD OXH55	Standard			1.29																	
STD OXK69	Standard																				
STD OXK69	Standard			3.72																	
STD OXK69	Standard			3.57																	
STD OXP39	Standard				30.01	0.451															
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SO-18	Standard							58.09	14.08	7.63	3.34	6.41	3.69	2.13	0.69	0.83	0.39	0.544	476	54	399
STD SO-18	Standard							58.11	14.06	7.60	3.33	6.38	3.71	2.14	0.69	0.83	0.39	0.546	470	37	397
STD SQ18	Standard				30.00	0.869															
STD SF-3T Expected																					

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QUALITY CONTROL REPORT VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
Pulp Duplicates																					
816958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	2	0.019	0.005	0.30	10.03	<0.02	<0.01	<0.001
REP 816958	QC									<0.001	0.007	<0.02	0.02	<2	0.019	0.005	0.30	9.72	<0.02	<0.01	<0.001
816912	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.012	<0.02	<0.01	<2	0.003	<0.001	<0.01	0.88	<0.02	<0.01	<0.001
REP 816912	QC									0.002	0.012	<0.02	<0.01	3	0.003	<0.001	<0.01	0.85	<0.02	<0.01	<0.001
816906	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	<0.01	3	0.014	0.004	0.13	6.50	<0.02	<0.01	<0.001
REP 816906	QC									<0.001	0.009	<0.02	<0.01	<2	0.014	0.004	0.14	6.65	<0.02	<0.01	<0.001
Reference Materials																					
STD CSC	Standard							3.15	4.20												
STD OREAS76A	Standard							0.16	17.76												
STD OXH55	Standard																				
STD OXH55	Standard																				
STD OXH55	Standard																				
STD OXK69	Standard																				
STD OXK69	Standard																				
STD OXK69	Standard																				
STD OXP39	Standard																				
STD SF-3T	Standard									0.031	0.769	0.93	1.06	53	0.354	0.018	0.43	8.13	<0.02	0.04	0.005
STD SF-3T	Standard									0.032	0.796	0.95	1.07	52	0.354	0.018	0.44	8.30	<0.02	0.04	0.005
STD SF-3T	Standard									0.031	0.781	0.92	1.07	51	0.346	0.018	0.42	8.08	<0.02	0.04	0.004
STD SF-3T	Standard									0.031	0.782	0.92	1.07	53	0.346	0.017	0.42	8.04	<0.02	0.04	0.004
STD SF-3T	Standard									0.032	0.777	0.94	1.09	51	0.352	0.018	0.43	8.22	<0.02	0.04	0.005
STD SF-3T	Standard									0.032	0.784	0.95	1.11	53	0.351	0.018	0.44	8.21	<0.02	0.04	0.005
STD SF-3T	Standard									0.031	0.771	0.93	1.05	53	0.351	0.018	0.43	8.13	<0.02	0.04	0.004
STD SF-3T	Standard									0.032	0.800	0.95	1.07	54	0.360	0.019	0.44	8.38	<0.02	0.04	0.004
STD SO-18	Standard	301	32	13	25	1.9	99.88														
STD SO-18	Standard	298	32	15	25	1.9	99.84														
STD SQ18	Standard																				
STD SF-3T Expected										0.032	0.7723	0.961	1.0672	52	0.35	0.0181	0.432	8.33	0.004	0.044	0.00475

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	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
Pulp Duplicates											
816958	Rock	<0.01	<0.01	5.95	0.40	0.017	5.22	6.01	0.01	<0.01	<0.01
REP 816958	QC	<0.01	<0.01	5.92	0.41	0.017	5.16	6.01	0.01	<0.01	<0.01
816912	Rock	<0.01	<0.01	0.03	0.06	0.010	0.05	0.81	0.02	0.27	<0.01
REP 816912	QC	<0.01	<0.01	0.04	0.06	0.009	0.04	0.77	0.03	0.26	<0.01
816906	Rock	<0.01	<0.01	9.40	0.04	0.030	3.38	6.77	0.87	0.02	<0.01
REP 816906	QC	<0.01	<0.01	9.74	0.04	0.029	3.48	7.09	0.90	0.02	<0.01
Reference Materials											
STD CSC	Standard										
STD OREAS76A	Standard										
STD OXH55	Standard										
STD OXH55	Standard										
STD OXH55	Standard										
STD OXK69	Standard										
STD OXK69	Standard										
STD OXK69	Standard										
STD OXP39	Standard										
STD SF-3T	Standard	<0.01	<0.01	4.12	0.06	0.020	4.61	5.30	2.08	2.47	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.15	0.06	0.021	4.65	5.40	2.08	2.49	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.02	0.06	0.020	4.53	5.34	2.04	2.46	<0.01
STD SF-3T	Standard	<0.01	<0.01	3.99	0.05	0.020	4.52	5.27	2.01	2.44	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.07	0.05	0.020	4.63	5.43	2.05	2.43	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.10	0.06	0.021	4.68	5.48	2.08	2.46	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.12	0.06	0.017	4.64	5.32	2.05	2.48	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.21	0.06	0.017	4.72	5.51	2.09	2.53	<0.01
STD SO-18	Standard										
STD SO-18	Standard										
STD SQ18	Standard										
STD SF-3T Expected		0.00111	0.00048	4.1	0.06	0.02074	4.67	5.43	2.06	2.47	0.00043

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		WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected								58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank							<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank				30.00	<0.005															
BLK	Blank				30.00	<0.005															
Prep Wash																					
G1	Prep Blank	<0.01	541	<0.01	29.32	<0.005	<0.01	67.90	15.36	3.52	1.10	3.66	3.41	3.47	0.38	0.21	0.09	0.002	888	<20	748
G1	Prep Blank	<0.01	543	<0.01	22.49	<0.005	<0.01	67.15	15.44	3.50	1.08	3.76	3.44	3.45	0.39	0.21	0.09	0.002	898	<20	752

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		4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
		Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
		5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
STD CSC Expected								3.13	4.19												
STD OREAS76A Expected								0.16	18												
STD SO-18 Expected		280	33	21	25																
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank									<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001
BLK	Blank							<0.02	<0.02												
BLK	Blank	<5	<3	<5	<1	0.0	<0.01														
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	140	18	19	6	0.6	99.92	0.05	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.52	<0.02	0.07	<0.001
G1	Prep Blank	152	18	16	6	1.2	99.94	0.04	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.57	<0.02	0.07	<0.001

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		7TD Sb % 0.01	7TD Bi % 0.01	7TD Ca % 0.01	7TD P % 0.01	7TD Cr % 0.001	7TD Mg % 0.01	7TD Al % 0.01	7TD Na % 0.01	7TD K % 0.01	7TD W % 0.01
STD CSC Expected											
STD OREAS76A Expected											
STD SO-18 Expected											
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
BLK	Blank										
Prep Wash											
G1	Prep Blank	<0.01	<0.01	2.59	0.09	<0.001	0.64	8.03	2.52	2.80	<0.01
G1	Prep Blank	<0.01	<0.01	2.65	0.09	<0.001	0.64	7.99	2.58	2.87	<0.01

Appendix D

Report on Investigation of Selected Vein Systems, Shell Creek Property, Yukon

by Derek Thorkelson, Ph.D.

Report on Investigation of Selected Vein Systems, Shell Creek Property, Yukon

by

Derek Thorkelson, PhD

for

Logan Resources

October 31, 2008

---

1. Background

On July 31, 2008, I accompanied Daithi MacGearailt and two other staff of Logan Resources to a rock exposure located on the southwestern part of the Shell Creek claim block, overlooking the Yukon River (approximate UTM: 525177E 7163172N). The purpose was to examine the veins and structures in the mafic volcanic unit which cores the Shell Creek anticline. We were taken to the exposure by helicopter. For the next few hours we examined the outcrops, moving downslope to the south. After examining and recording various features, we hiked uphill to the ridge crest in anticipation of a helicopter pick-up and move to a new location. However, it began to snow heavily as we reached the ridge crest. After deciding that calling in the helicopter would be unsafe, we spent most of the rest of the day hiking eastward, back to the exploration camp. Details of the traverse path and other contextual information are available from Daithi MacGearailt.

For my services, I am charging half a day for fieldwork, plus half a day for the preparation of this report.

2. Location

The *study area* of this report is an extensive exposure located at approximately UTM 525177E 7163172N. The exposure consists of a steep scree slope on which numerous, scattered intact outcrops are present. Several outcrops were examined over an interval of approximately three hours.

3. Geological features and their interpretation

3.1. Host rock.

The study area consists of an extensive exposure consisting of metamorphosed volcanic rocks of mafic to intermediate composition. The meta-volcanics are of lower greenschist grade as indicated by abundant chlorite and epidote. The volcanic rocks are heavily veined in the study area. The composition and characteristics of the veins, and the relative timing of veining and other geological events, are the main topics addressed in this report.

The volcanics at this exposure belong to a larger body of volcanic rock that cores the 'Shell Creek anticline' which plunges to the east and is the dominant structure in the southern part of the claim area. The volcanic rocks are either Cambrian or Neoproterozoic in age, appear to be the oldest rocks in this part of Mackenzie-Ogilvie platform, and may be correlative with the Neoproterozoic Mt. Harper Volcanics to the northeast. Isotopic dating and geochemical characterization are required to provide more certainty on age and identity.

To the east of the study area, the volcanics comprise pillow 'basalt' and related hyaloclastic breccia intercalated with more massive flows. Primary volcanic textures are most visible between the exploration camp and Shell Creek. To the west, the volcanics are more strongly foliated and, in minor fault zones, are locally sheared.

<u>3.2 Veins</u>.

Several discrete vein systems are present in the study area. They include: i) epidote 'veins' and pods; ii) carbonate + quartz veins with local epidote; iii) pyrite-limonite fracture-fillings and disseminations; iv) feldspar +/- quartz veins. The epidote vein set (i) is older than the carbonate + quartz veins (set ii). The feldspar + quartz veins (set iv) are the youngest. The relative age of the pyrite-limonite vein set (iii) is unclear. It could be intermediate between (ii) and (iv), but could range from the oldest to the youngest. With greater scrutiny in the field, the relative age of set would probably determine the relative age of set (iii).

i) Epidote 'veins' and pods. Discontinuous zones of epidote 1-5 cm wide occur in the volcanic rocks. Some are diffuse and others have rather distinct margins. Whether these features are true hydrothermal veins or alteration of host rock is unclear. One possibility is that these features are metamorphosed selvages of volcanic pillows and breccia fragments. Similar features are found throughout much of the volcanic rock in the anticline, and some are clearly related to original primary textures.

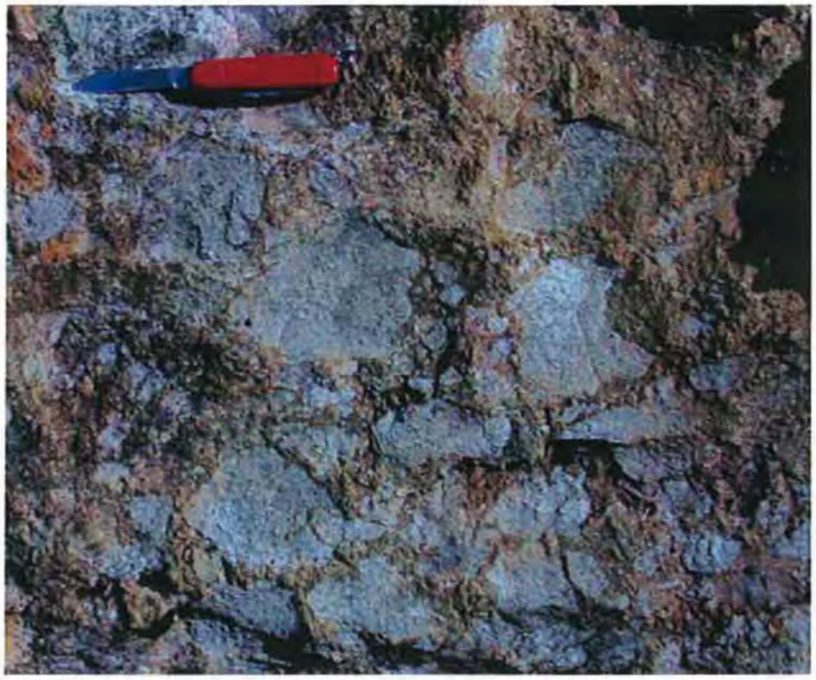

Figure 1. Altered pillow breccia with epidote-rich matrix surrounding chloritized clasts of mafic volcanic rock. Location: approximately 3 km east of study area.

Figure 2. S-fold defined by deformed epidote vein in foliated mafic volcanic rock with patchy limonite staining, study area.

ii) Quartz-carbonate veins, with local epidote margins. This set of veins varies from nearly pure quartz (white) to nearly pure carbonate (white and grey, probably calcite). Epidote lines the margins of some of these veins. Whether quartz and calcite deposition occurred contemporaneously throughout the generation of this vein set is unknown. The veins were dismembered and folded during deformation that affected the metavolcanic host rock. Locally, the deformation caused the veins and host rock to become interfoliated. The quartz component to the veins appears to have behaved brittly while the carbonate flowed ductily. Ambient temperatures at the time of deformation were probably between 300 and 400 degrees C (hot enough to cause calcite to flow but cool enough to allow the quartz to remain brittle; temperatures must have been no higher than that of lower greenschist grade).

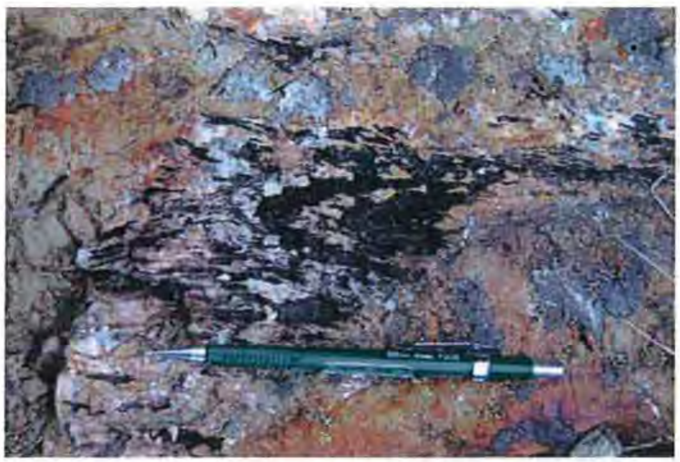

Figure 3. Folded quartz-carbonate vein in altered mafic volcanic rock, study area.

Fig. 4. Deformed calcite veins in mafic volcanic rock with limonite specks, study area.

iii) Pyrite-limonite fracture fillings and disseminations. Rusty patches and layers on the outcrops are present in various places in the study area, particularly toward the south at lower elevations. The staining is caused by oxidation of minute pyrite grains, the relicts of which remain as rusty specks within some limonite-filled fractures. A crude spatial and possibly genetic relationship between these limonitic zones and the feldspar +/- quartz veins seems to exist and should be further investigated. Where the limonitic staining and the feldspar +/- quartz veins occur together, the limonite is mainly restricted to the volcanic clasts. Whether this relationship indicates that the limonitic staining is older and therefore restricted to the clasts, or if the limonite staining is younger and more strongly developed in the clasts because of greater geochemical suitability, is uncertain. Although no copper or other economic mineralization is evident in the study area, it is possible that such mineralization does occur at depth and hence the rusty zones could be targeted for additional sampling and drilling.

Fig. 5. Limonite-stained zone in foliated, mafic volcanic rock, study area. Thickness of zone is approximately 1.5 m.

iv) Feldspar +/- quartz veins. This set of pinkish-white veins may not been recognized, or present, elsewhere on the property. They range in morphology from simple curviplanar veins to a mesh-like network or 'vein breccia' in which the vein material surrounds pebble- and cobble-size clasts of the metavolcanic host rock. These veins are clearly less deformed than the quartz-carbonate veins and were emplaced after the foliation and folding events. The mesh-like network of these veins is likely to have formed by brittle faulting of the host rock under an extensional stress regime. A plausible scenario of formation is normal faulting at relatively cool temperatures (possibly 200-300 degrees C) leading to a zone of breccia surrounded by hydrothermal fluid from which quartz and feldspar were precipitated.

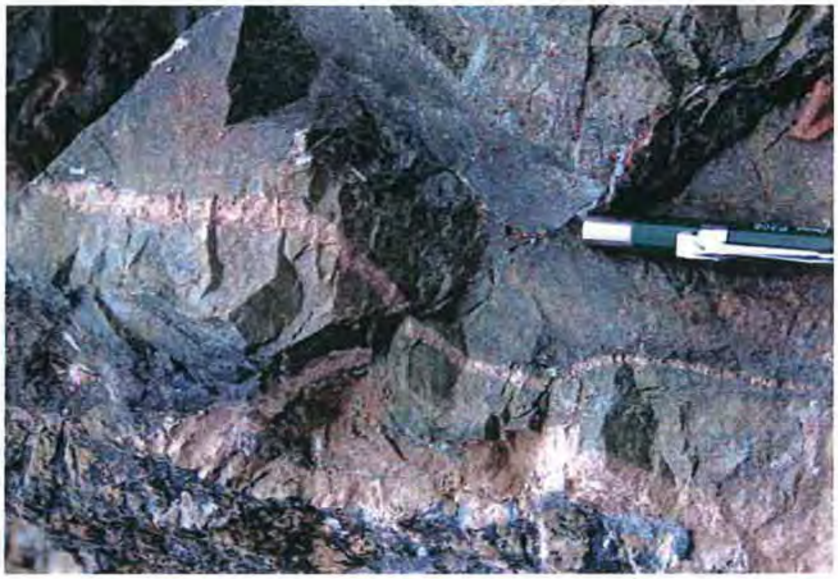

Fig. 6. Pinkish-white feldspar (microcline?)-quartz veins in altered mafic volcanic rock, study area.

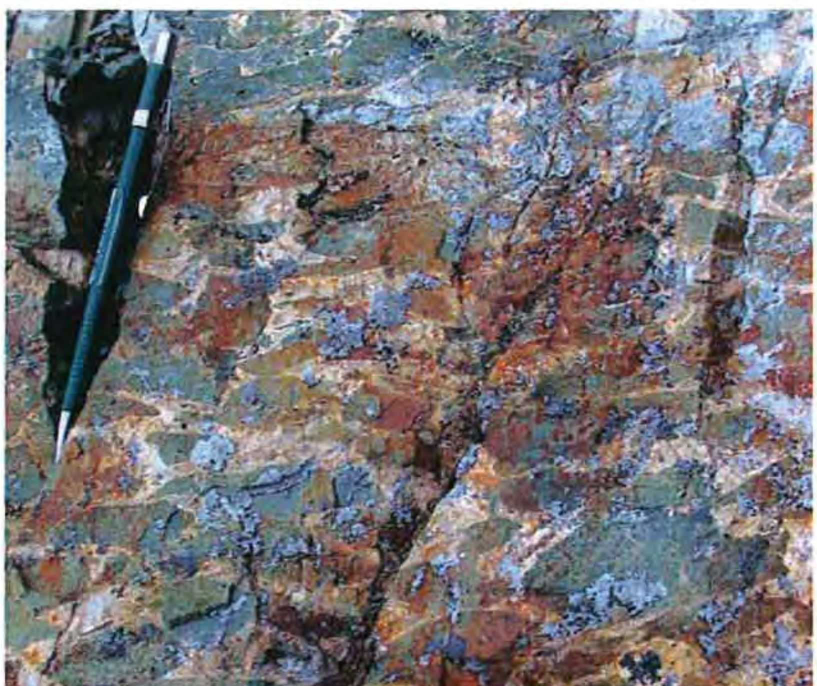

Fig. 7. Mesh-network of feldspar-quartz veins developed in foliated, chloritic volcanic clasts, study area. Limonite staining is mainly constrained to clasts. Growth of the limonite (or that of its precursor, disseminated pyrite) appears to pre-date feldspar-quartz veining.

Appendix E

2008 Evaluation & Sampling Program on the Shell Creek Cu-Au Property

By Chris Ash

2008 Evaluation
&
Sampling Program

on the

SHELL CREEK
Au-Cu PROPERTY

NTS 116C/9&10
Yukon, Canada

Dawson Mining District

for

LOGAN RESOURCES LTD. LGR (TSX-V) LGREF (PK-USA)

Suite 1640-1066 West Hastings Street
Oceanic Plaza Box 12543
Vancouver, British Columbia
Canada V6E 3X1

by

Chris H. Ash
CASH Geological Consulting

Daithi Mac Gearailt & Shane Treacy
Logan Resources Ltd.

December 11, 2008

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Introduction

At the request of Seamus Young the author visited the Shell Creek property over a period of two days in August 2008. The Shell Creek Property is located in east-central Yukon Territory, 75 kilometres northwest of Dawson City, 30 kilometres east of the Alaskan boarder (Figure 1).

Visible gold is relatively common in association with chalcocite in late quartz-carbonate-chlorite (QCC) veins cutting early folded and fractured quartz vein systems. Where these quartz vein systems cut fine, clastic metasedimentary rocks surrounding zones of late quartz veining are variably chloritized and Cu mineralized with chalcocite forming along schistosity surfaces. These systems were briefly evaluated in 2004 under the supervision of the author and involved an 8 day mapping, sampling and trenching program (Ash, 2004).

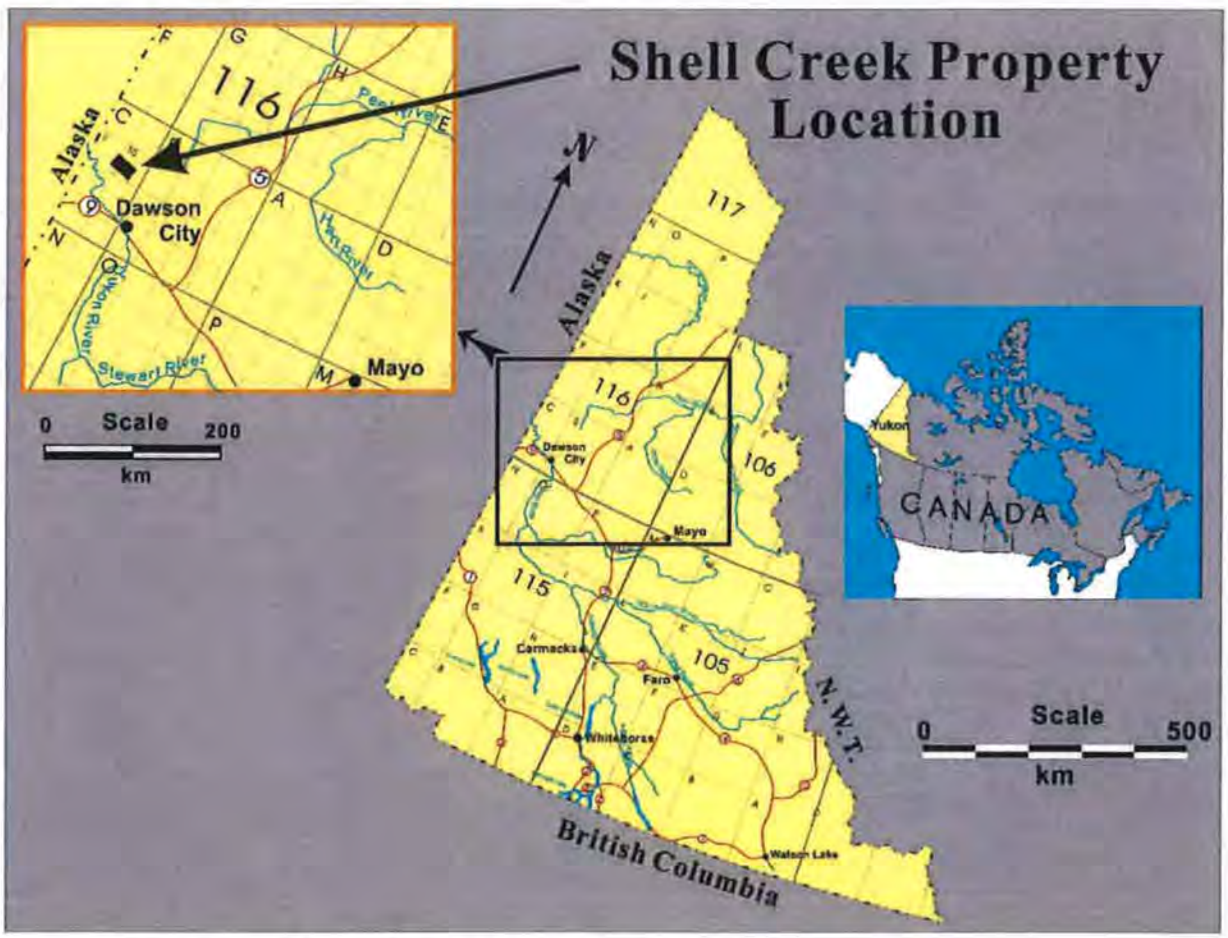


Figure 1. Location of the Shell Creek Property in west central Yukon.

The Shell Creek Property visits had two primary objectives:

1. Demonstrate to Logan Resource staff geologists (Daithi Mac Gearailt and Shane Treacy) and contract geologist (Jean Pautler) the setting and style of Au and Cu mineralization associated with the quartz vein systems.
2. Collect a number of rock samples from both the Au-bearing veins and vein proximal, chloritized Cu-bearing sediments to both reaffirm and also provide further constraints on the metal content of these mineralized systems.

The Shell Creek visit focused on an examination of the 2004 trench area, where the relationship of the vein Cu-Au and vein-marginal sedimentary Cu mineralization are best constrained. Prospecting of quartz float boulders occurring down slope from the 2004 trench to the original discovery VG quartz boulder was successful in identifying three separate boulders with very fine to medium-grained VG which helped demonstrate the setting, style and frequency of VG in these quartz vein systems. One of these boulders demonstrated a relatively higher grade style of vein mineralization that had not been previously recognized and is briefly described.

Some effort was also made to clearly demonstrate that the green chlorite rich rocks proximal to the veins is hydrothermally-altered, fine clastic sedimentary rocks and not a mafic volcanic rock as it has at times been mistaken for, when involving localized cursory examination.

A total of **79** rock grab\chip samples were collected for analysis. These include **24** of QCC vein material and **44** of the chloritized sedimentary rock samples. The results of these analyses are presented and discussed. **Eleven** of the samples collected where to follow up on MMI soil anomalies. The results of these finding are presented elsewhere (Mac Gearailt, 2009 in prep.)

The 2004 analytical data for the Cu in vein-marginal chloritized sediments is compared to the 2008 data as the analytical methods applied in 2004 generated more sensitive detection limits and indicate correlations not detected in the 2008 data set.

Photo 1. In creek bed above VG discovery boulder sampling intensely chloritized sedimentary host rock on large vein boulder. Individuals in photo from left to right are Daithi Mac Gearailt, John Harre (helicopter pilot), Shane Treacy and Jean Pautler.

Regional Geological Setting

The Simba BIF and related gold-quartz vein systems are contained in clastic sedimentary rocks of the Precambrian to Lower Cambrian Hyland Group, which is a component of the Selwyn Basin off-shelf succession. In the property area Hyland Group rocks comprise the lowest tectono-stratigraphic element of the Dawson Thrust Sheet, just along the northern margin of the regionally extensive Tintina Fault Zone.

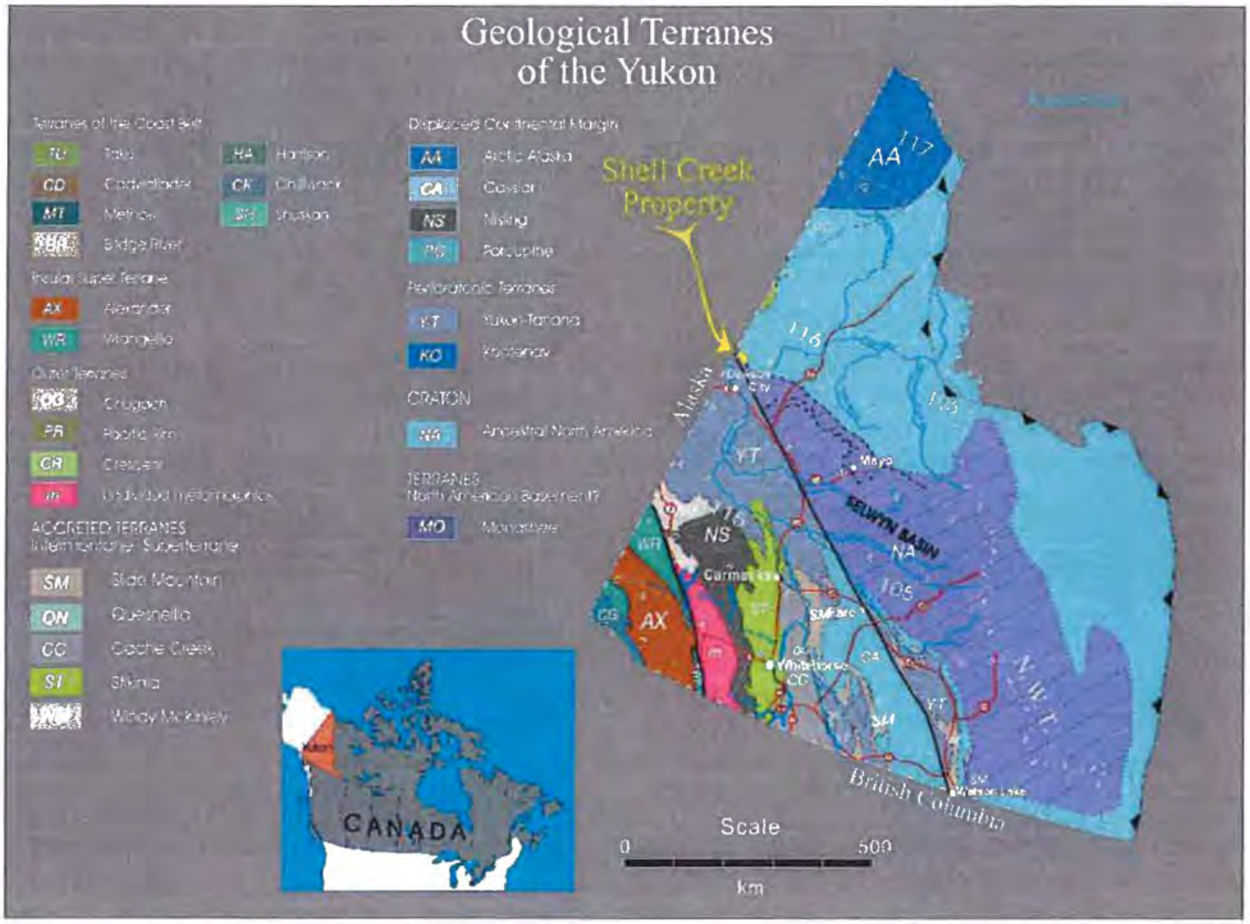


Figure 2. Regional geological setting of the Shell Creek property in east central Yukon.

Property Geology

The area of the property under review and examination includes three primary stratified units (Figures 3 & 4). A basal limestone sequence is overlain by an interval of poorly sorted gritty sandstone. Above the BIF the clastic sedimentary rocks are dominated by inter layered siliceous siltstone and shale with lesser fine sandstone that is host to both the BIF and spatially associated gold-quartz vein systems. The clastic sedimentary rocks are overlain by a succession of mafic volcanic flows and breccias with locally preserved pillow structures.

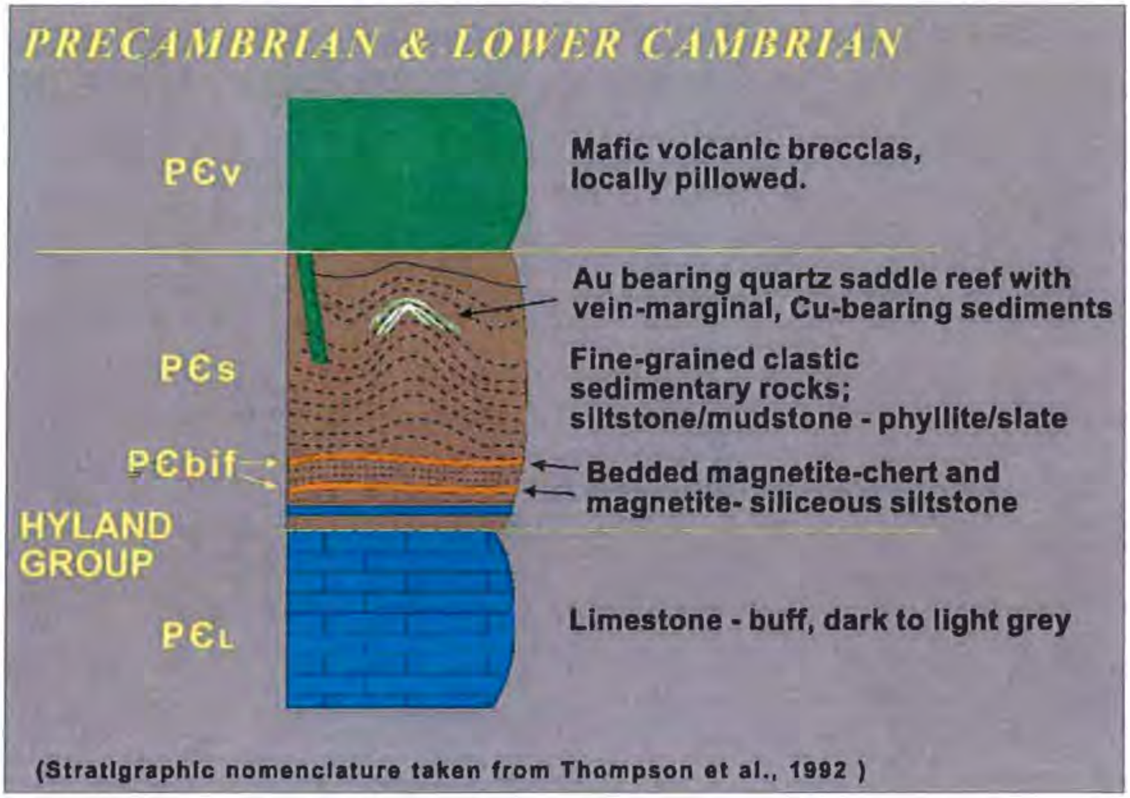


Figure 3. Diagrammatic stratigraphic section for the Shell Creek property geology illustrating the setting of the quartz vein systems. The vertical extent of the system remains to be determined.

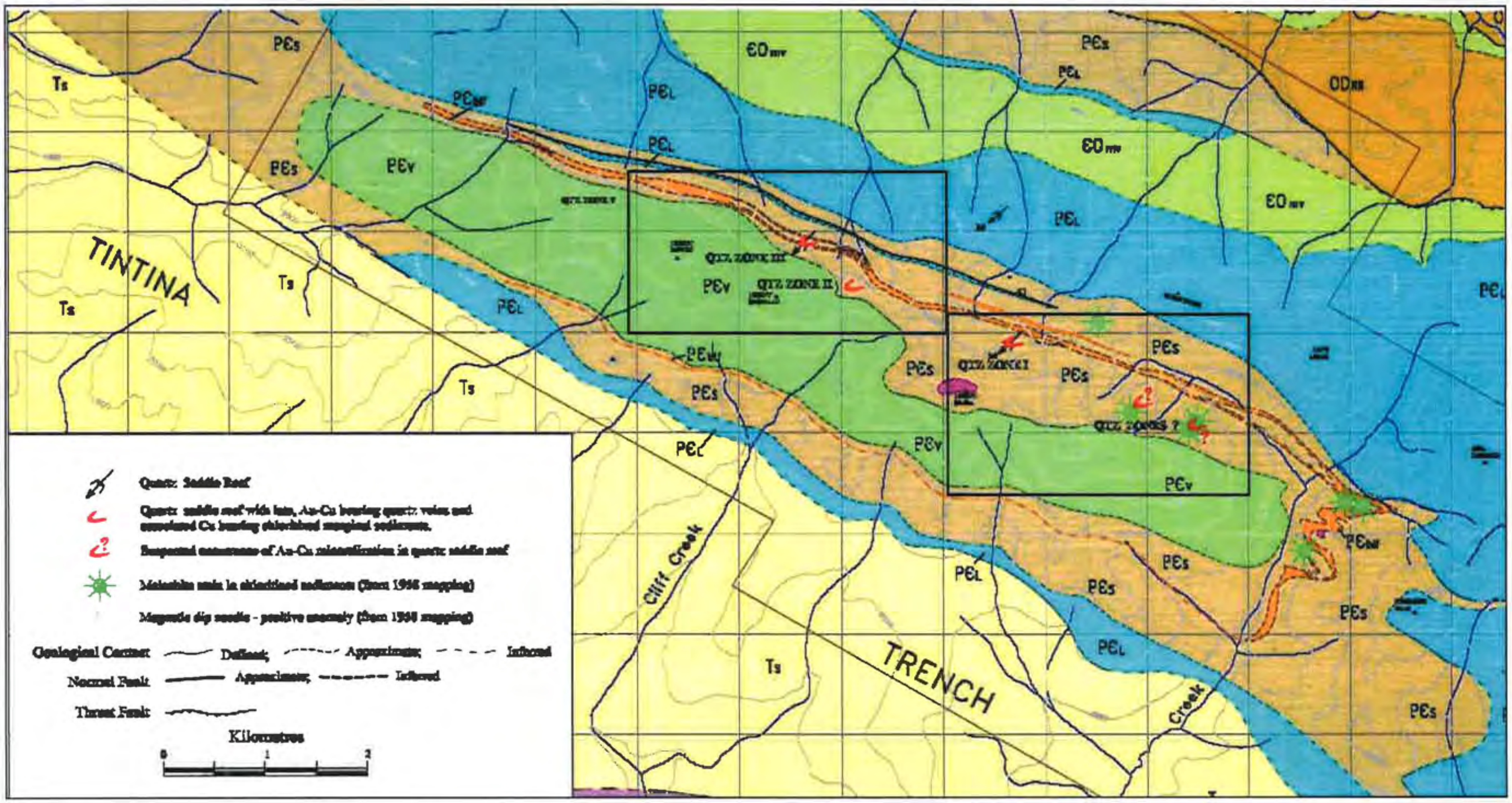


Figure 4. Geology in the area of the Shell Creek BIF illustrating the location of quartz saddle reefs.

Mineralization

Gold and copper at the Shell Creek property are associated with late quartz-carbonate-chlorite (QCC) veins contained in and around early deformed bull quartz veins hosted by fine-grained clastic sedimentary rocks. Host siliceous shales and siltstones proximal to the late QCC veins are often hydrothermally chlorite-carbonate altered, with chalcocite concentrated along cleavage planes. Preliminary work suggests that these vein systems form saddle reef-type fold structures that plunge at shallow angles to the SW.

Within the individual reefs, visible gold (VG) is often associated with chalcocite and lesser bornite that occurs most often as 1 to 3 centimeter patches consisting of concentrated sulphide in thin discontinues fracture fill stringers in early-deformed bull quartz (Photo 2) in close proximity to late-stage, dilation-fill, comb structure QCC veins (Photos 3).

Within these vein systems gold occurs as very fine to medium-grained flakes and blebs that appear as free gold. Most grains of this size are barely visible with the naked eye, but are readily identified with a 10x hand lens. The very fine-grained sized flakes are most common and all gold grains identified to date are either within chalcocite or in quartz at the edges of the chalcocite concentrations.

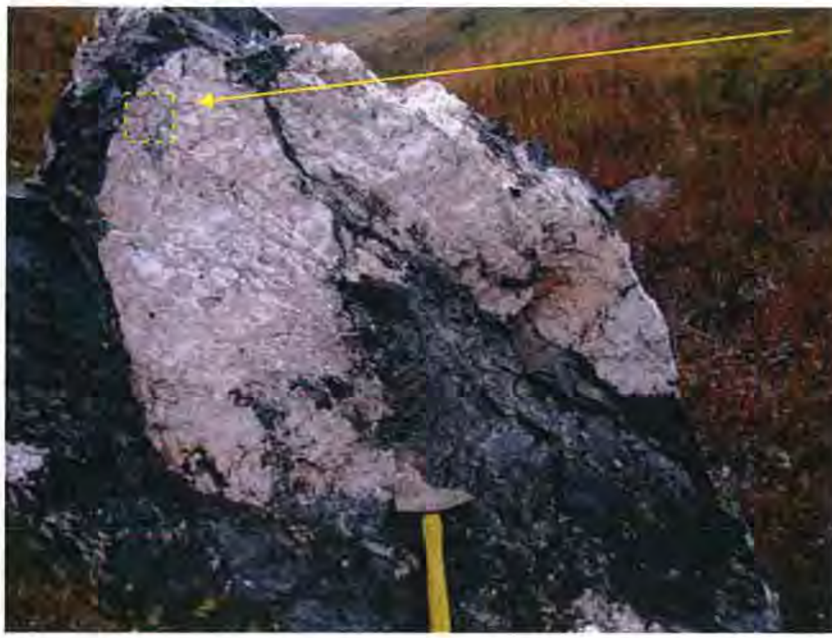
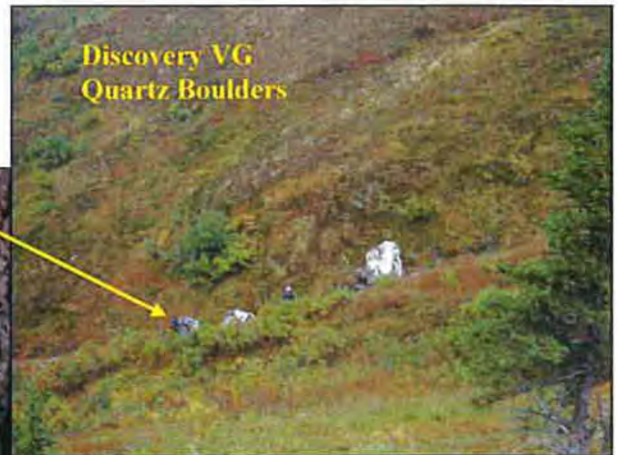
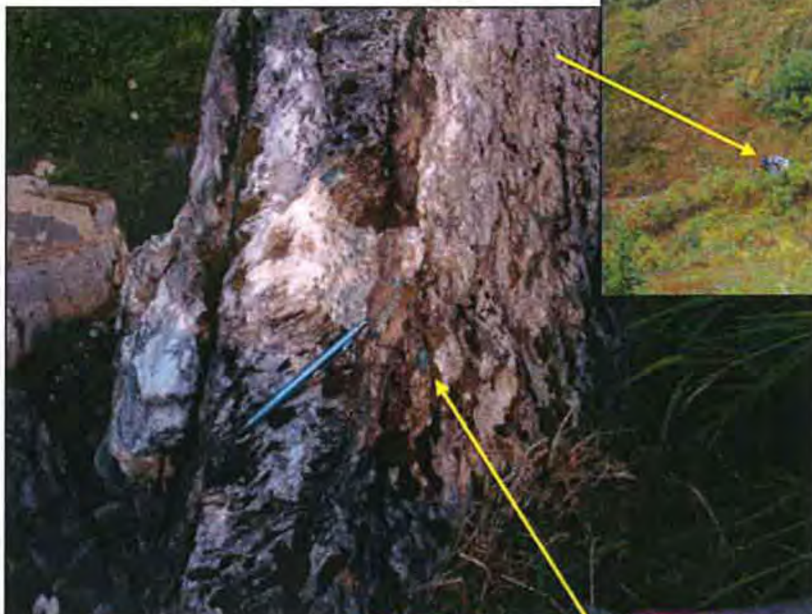


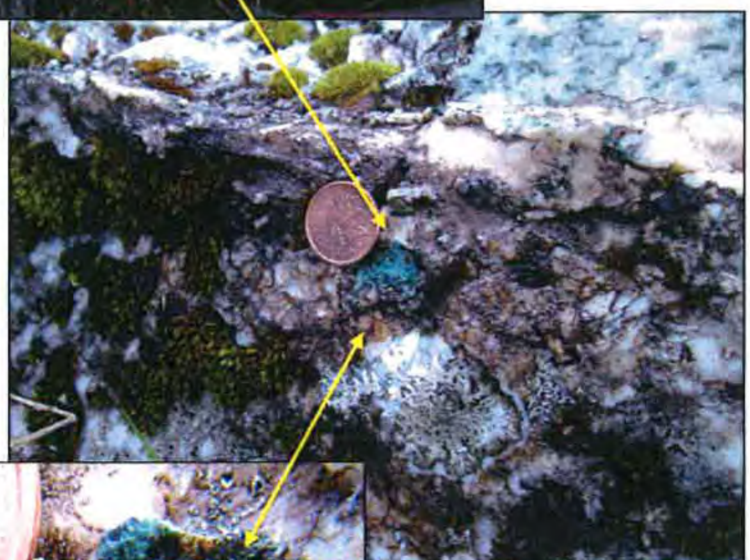
Photo 2b. Chalcocite infilling fracture in early bull quartz

Photo 2a. Folded and fractured early bull quartz with chalcocite formed on fractures

Photo 3. Late dilation fill comb structure quartz vein with VG







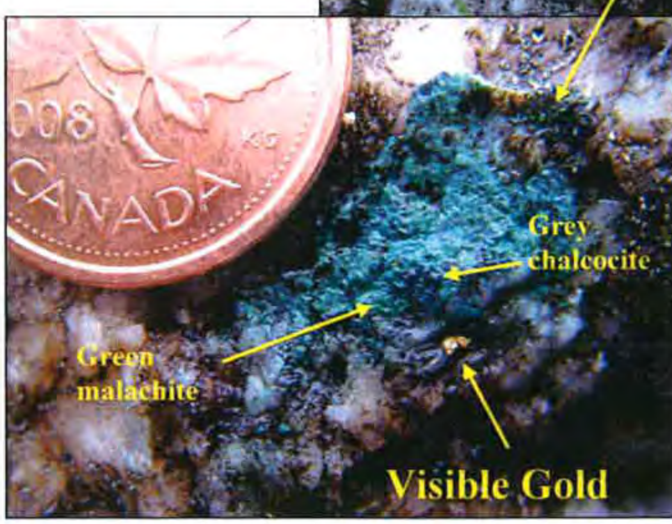


Photo 3b & c. Progressive detailed views Malachite stained chalcocite with VG.

Higher Grade Au-Cu Vein Material

While prospecting quartz float in the down slope boulder train, in an effort to identify examples of visible gold, two angular boulders (0.4-0.7 m in longest dimension) where identified and sampled that contained a style of relatively higher grade chalcocite mineralization not previously recognized (Photo 4). One boulder largely buried by stream gravels, was found several metres up stream from the VG, discovery boulder (Photo 3). A second boulder was identified half way down slope between the 2004 T-trench and the discovery boulder.

Both these samples were uncharacteristically well mineralized with chalcocite and contained readily identifiable VG. When broken into fist size fragments the VG was readily identified in most if not all the samples. Unlike most of the previously identified chalcocite which characteristically occurred as blebs and clots scattered throughout the late QCC veins and proximal, fractured early veins, these two quartz boulders displayed a semi massive internal connectivity of the sulphide, imparting a ghost, coarse net texture with the highest area of sulphide concentration at the junctions of these fracture networks.

Identification of these boulders indicates a new and apparently higher grade style of Cu-Au mineralization forms a part of the quartz vein system. The setting, size\volume or frequency of these distinctive styles of vein mineralization remains unknown.

It is suspected however, that that infiltration of the sulphide bearing fluids may be potentially best developed at the nose of the folded vein structures where dilation and the opportunity for open space development is greatest within the early deformed bull quartz. Such a potentially important relationship for development of relatively higher chalcocite concentrations with higher gold content offers additional untested potential for the mineralized quartz vein system.

Photo 4 Green, malachite on grey chalcocite in early deformed fractured bull quartz.

Quartz Vein Host Rock Protolith (?)

Field relationships demonstrating the progressive development of the hydrothermal overprint within the sedimentary unit on approach to the vein system was reviewed to help resolve the contention that this chlorite-rich, vein-marginal host rock may be of mafic volcanic origin. Progressive increase in the relative volume of altered host rock increases from:

1) preferential replacement along cleavage planes (Photo 5a) to,
2) a rock which is largely undergone hydrothermal replacement, but preserves remnant of the sedimentary host rock (Photo 5b) to
3) one that has undergone complete replacement (Photo 5c).

Photo 5a (top left): dark-green chlorite formed along cleavage planes in clastic sediments.

Photo 5b (top right): Partial replacement of sediment to chlorite-quartz-carbonate schist.

Photo 5c (bottom left) Sedimentary protolith pervasively altered to chlorite- quartz-carbonate schist.

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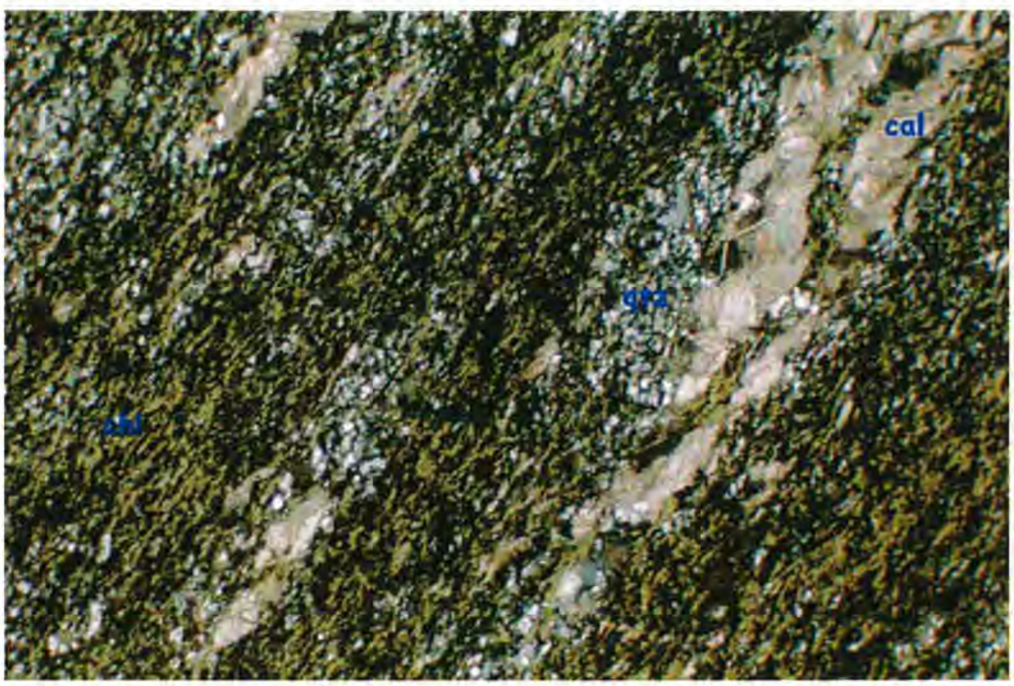
A sample of the later (Photo 5c) was sampled and submitted to Teck Cominco Global Discovery Labs for independent, petrographic thin section analysis. This work was conducted by J.A. McLeod and his reported analysis is reproduced below, including the photomicrograph immediately following it.

Quartz:	40%	Leucoxene:	5%
Chlorite:	35%	Feldspar:	Tr.
Calcite:	20%	Epidote:	Tr.

The rock is seen to have a banded or schistose texture microscopically with seams of dominating minerals forming discontinuous lamellae. The most obvious mineralogical seam is one rich in chlorite with contained turbid, ill formed leucoxene. The chlorite is possibly an alteration or retrograde mineral. Caught up in the chlorite are lenticular seams of calcite from 1 – 2 to several mms in length but rarely wider than a mm. In the groundmass significant angular quartz (very fine – 50 microns) is seemingly strung out in the rock foliation. Rare grains of altered feldspar, often with minor epidote are noted. The rock is likely an argillaceous siltstone that has undergone regional dynamo-thermal metamorphism and subsequent retrograde metamorphism. It is now a calcite-chlorite schist.
A photomicrograph is appended to illustrate mineralogy and texture.

PHOTOMICROGRAPHS: LOGAN RESOURCES - #816919 (V08-0686R)



280 μm

R08:47331. (816919) Chlorite, calcite and quartz in a foliated rock. Transmitted light, crossed nicols, magnification 25x.

Photo 6. Photomicrograph of vein-marginal, chloritized sediment (after McLeod, 2008). Field evidence for a potential source of the alteration minerals is clearly evident in the vein mineral assemblage which the altered host rocks surround. The photo shown below

vein mineral assemblage which the altered host rocks surround. The photo shown below (Photo 7) is of a large vein boulder to demonstrate the presence of carbonate and chlorite as locally prominent minerals of hydrothermal origin within the vein system. These veins consist of quartz, chlorite and carbonate, consistent with the alteration mineralogy in the surrounding host rock; a straightforward one to one relationship.

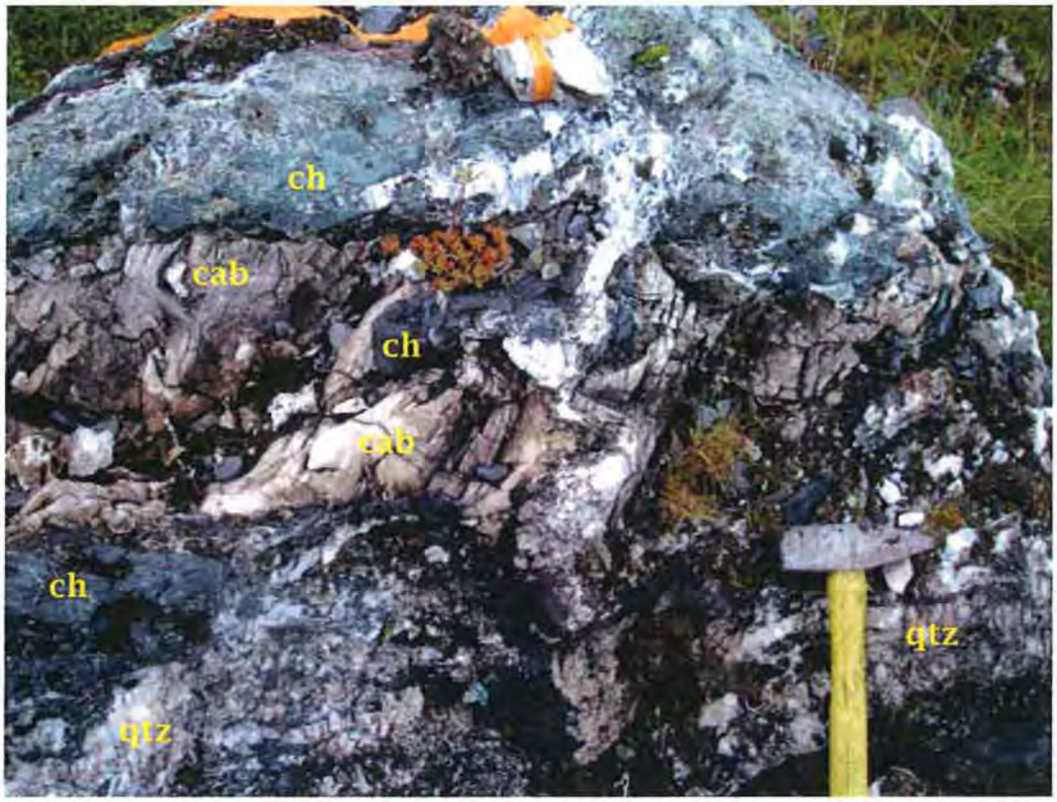


Photo 7. Carbonate-chlorite rich quartz vein boulder

2008 Sampling Program

As the general style and setting of the mineralization in these quartz vein systems had been previously established (Ash, 2004) the 2008 short term sampling program focused on further evaluating the range in grade of base and precious metal mineralization by increasing the assayed sample population.

Sampling focused on an area between the 2004 trench (Photo 4) and the VG discovery quartz boulder in the creek bed several 100 metres to the ENE of the trench. Both the Au-Cu mineralized quartz veins and the Cu-bearing, chloritized, vein-marginal sediments were sampled for assay. The sampling included:

1) Twenty-Two (22) grab\chip samples from random quartz and QCC vein boulders displaying signs of malachite staining and associated chalcocite mineralization. These samples were processed and analyzed by ACME Analytical Labs, Vancouver, B.C. (Certificate # VAN0800829.7) and underwent both:
    a) Fire Assay (metallics) of 30g samples (G6.ME), and
    b) 4 Acid digestion ICP-ES analysis on 0.5g samples (7TD).
2) Two (2) larger quartz vein samples that were subdivided into a number of smaller equally portioned samples. These samples were prepped and analyzed by Assayers Canada Ltd., Vancouver, B.C. (Certificate # 8V-2998-RA1).
3) Forty-four (44) grab\chip samples of chloritized, vein-marginal sediment that underwent 4 Acid digestion ICP-ES analysis on 0.5g samples by ACME Analytical Labs, Vancouver, B.C. (Certificate # VAN0800829.7)

All samples were collected, noted, photographed, bagged and tagged by Logan Resources geologist, Shane Treacy.

Au in quartz veins

As indicated above, quartz vein samples were assayed by two separate venders using different analytical processes. All quartz vein samples were split into fine (-150) and coarse (+150) fractions for separate analyses to help assess potential analytical issues related to the nuggety, free gold being evaluated.

Vein Grab Samples

The results for selected elements of the 22 grab\chip sample analyses are presented in Table 1. These data highlight a number of features. In particular, the direct association of gold with Cu-sulphide mineralization is borne out by the fact that samples with anomalous gold consistently have elevated Cu concentrations. The data does, however also demonstrate that there is no direct correlation between gold grade and copper content, e.g. the highest two Cu analysis are among the more weakly anomalous gold values. This data set show that Ag is consistently more abundant in the

Photo 8b. Close up of 2004 trench

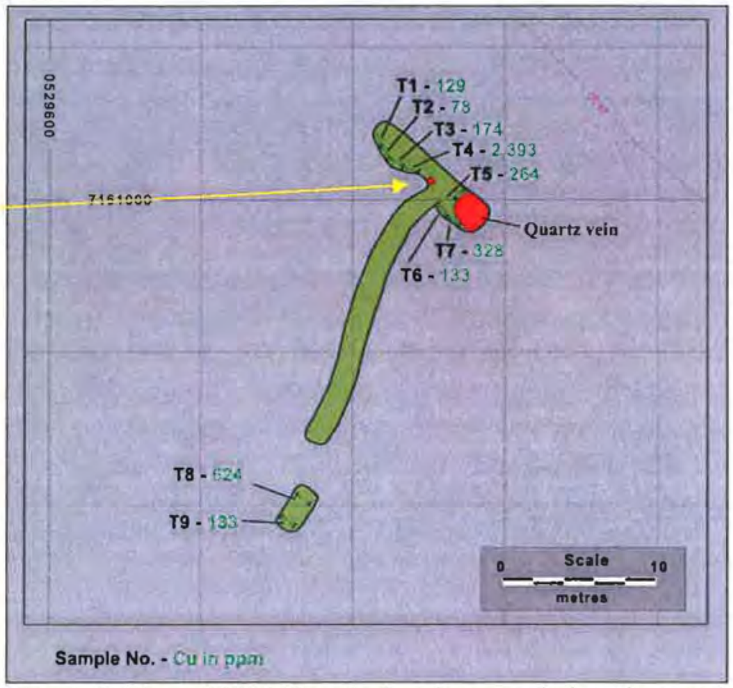


Figure 5. Map of 2004 Trench showing sample locations and Cu abundances

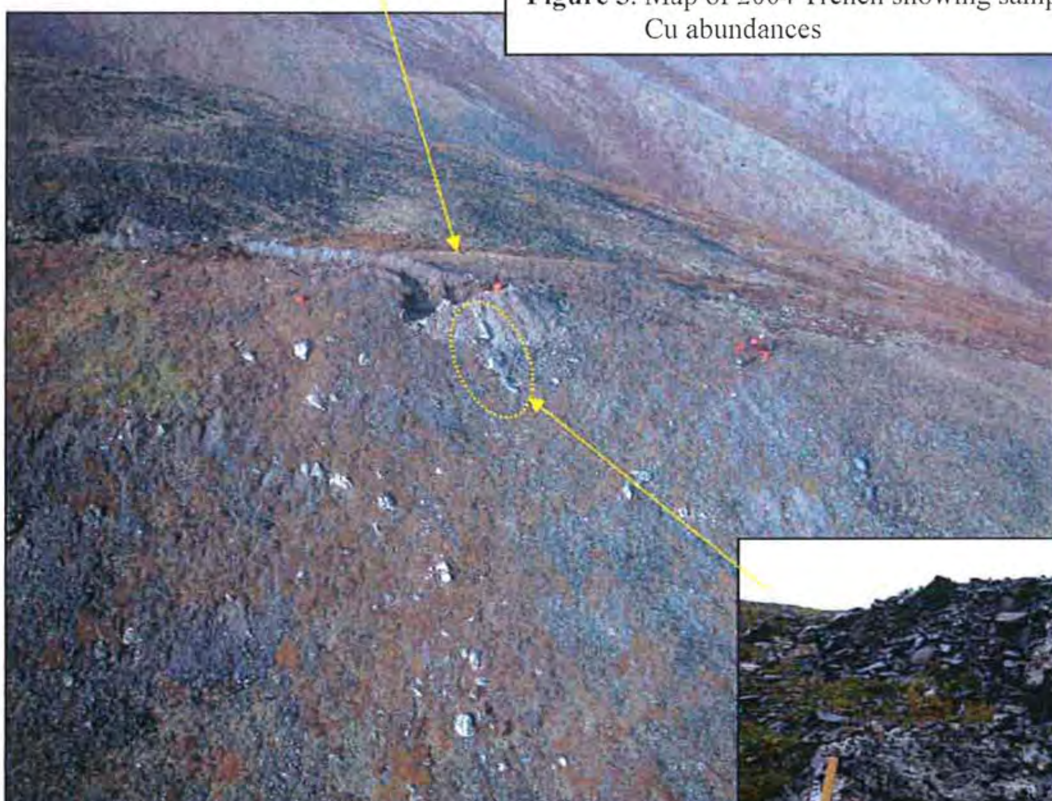


Photo 8a. Trenching on Quartz Zone I exposed several gold bearing quartz veins with vein marginal copper.

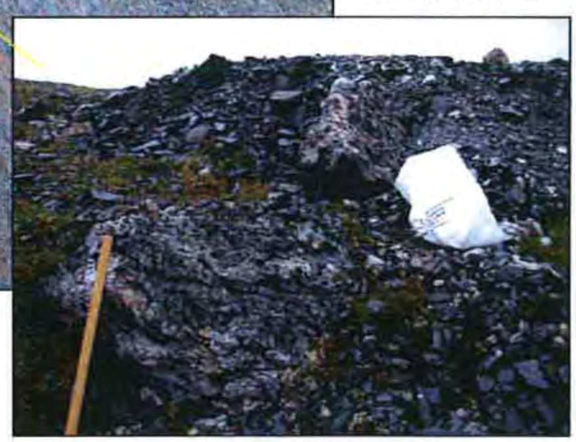
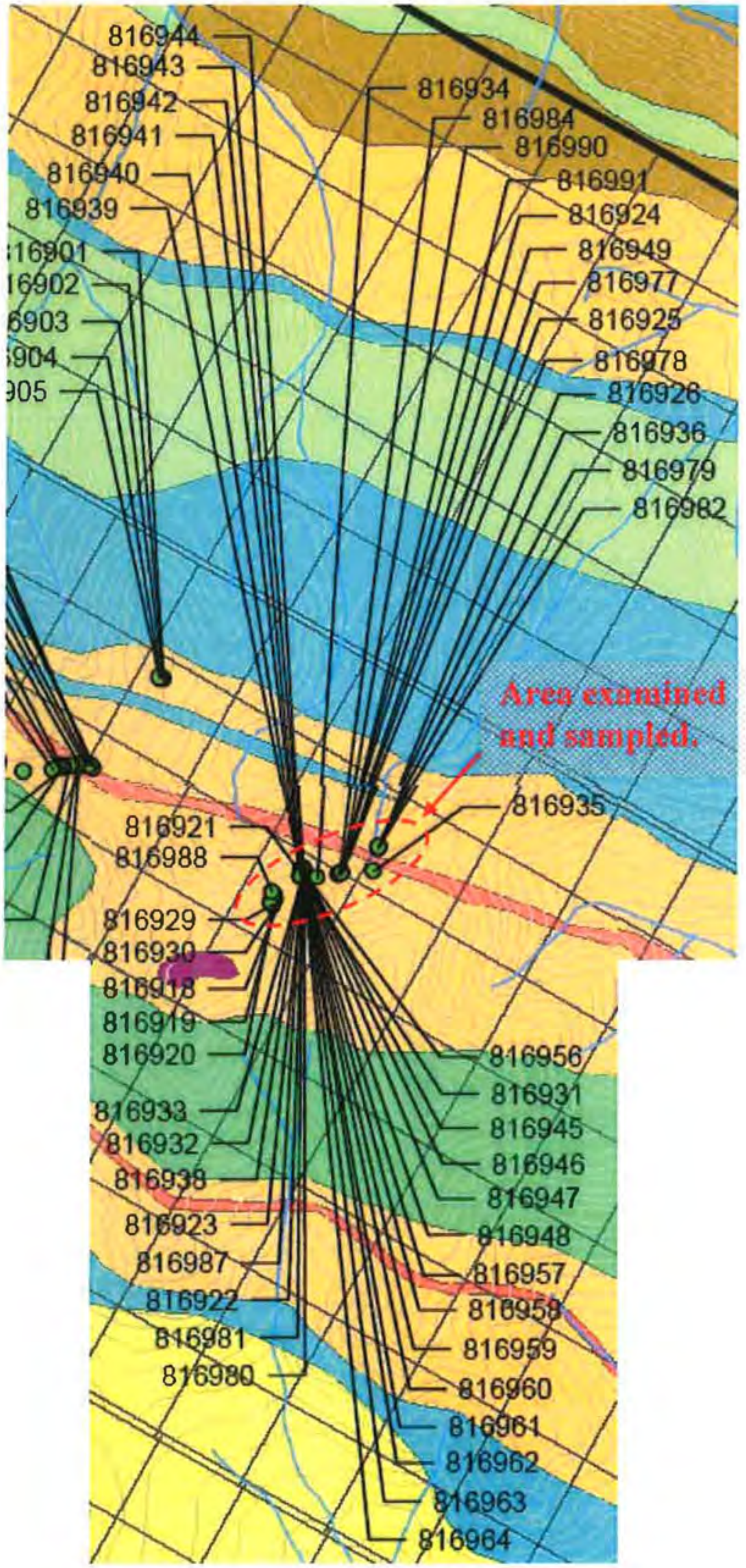


Photo 8c. Quartz subcrop sampled from the NE end of the trench.

Figure 6. Geology of area examined with sample localities indicated (see Figure 3 for location of cropped map area shown)



Apart from **Cu** and **Au**, abundances for most other elements (not shown in Table 1) **Bi** (0.01%) and **Sb** (0.01%), **As** (0.02%), **Sr** (0.01%), **Cd** (0.001%), **W** (0.01%), **Pb** (0.02%), **Zn** (0.01%), **Mo** (0.001%), **Co** (0.001%) are all below the detection levels, as shown in brackets, for the individual elements analyzed, irrespective of the elevated nature of Au and Cu.

Ag at 5 g\t for sample 816937 is the only analysis to show a value above the detection level of 2 g\t. This sample although elevated in Au, at 0.58 g\t is well below the more elevated Au samples at 3 to 4 g\t, which show no associated increase. Controls on associations of elevated silver in the mineralized system remain to be established.

Table 1
Precious & Selected Base Metal
Abundances of Quartz Vein Samples

Sample	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	Ag	Cu
	kg	g	g/t	g	mg	g/t	g/t	%
	0.01	1	0.01	0.01	0.005	0.01	2	0.001
816918	1.04	525	0.24	22.26	<0.005	0.23	<2	**0.660**
816920	0.52	500	<0.01	22.36	<0.005	<0.01	<2	0.011
816924	1.74	460	0.21	18.69	<0.005	0.21	<2	0.045
816925	2.01	502	**1.42**	20.58	**0.622**	**2.60**	<2	**0.402**
816926	2.11	533	**2.64**	22.96	**0.911**	**4.24**	<2	**0.230**
816928	1.35	594	0.03	24.97	<0.005	0.03	<2	**0.168**
816929	1.02	526	<0.01	19.29	<0.005	<0.01	<2	0.002
816930	1.35	598	<0.01	25.26	<0.005	<0.01	<2	0.002
816932	1.51	540	0.13	25.17	<0.005	0.12	<2	**0.274**
816933	1.49	553	0.03	19.50	<0.005	0.03	<2	0.055
816934	0.91	464	0.03	23.41	<0.005	0.03	<2	0.068
816937	1.75	445	0.31	19.21	0.122	0.58	**5**	**1.861**
816909	2.06	488	0.20	21.63	<0.005	0.19	<2	0.056
816977	1.39	536	**1.87**	25.84	**1.479**	**4.54**	<2	**0.337**
816978	1.64	428	**1.29**	24.23	**0.734**	**2.93**	<2	**0.240**
816979	10 samples **Table 2**			Larger samples split into relatively				
816980	20 samples **Table 3**			equal portions & assayed separately				
816981	0.66	433	0.11	20.35	<0.005	0.1	<2	**0.205**
816982	2.08	512	0.49	18.81	0.350	**1.16**	<2	0.096
816983	1.12	526	0.02	24.04	<0.005	0.02	<2	**0.118**
816984	0.94	527	0.30	26.42	0.111	0.49	<2	0.018
816988	1.17	561	0.10	26.10	0.087	0.25	<2	**0.246**
816990	2.38	555	**1.36**	29.83	**0.702**	**2.55**	<2	**0.348**
816991	1.88	486	**1.84**	20.06	**0.608**	**3.02**	<2	**0.351**

Certificate VAN08008297.1 ACME Analytical Labs, Vancouver, BC
Wgt & Wt = weight; **Tot** = Total

Larger Subdivided Quartz Vein Assay Samples

For two of the quartz vein samples reported on following, larger amounts of vein material were collected for assay and treated differently with respect to analytical procedure and vendor used to conduct the analyses. The second vendor was used due to their ability to process and analyze much larger samples and was considered necessary to assess potential analytical issues related to the style of free gold present and the associated 'nugget effect' created. The combined large sample was subdivided into equally portioned amounts. Each of these individual samples were processed and fine and coarse fractions (+ & - 150 mesh), separated and analyzed separately for Au.

1. A large sample (#816979) of well mineralized quartz vein material was obtained from a boulder found partially buried in the creek bed, several meters upslope from the original VG discovery boulder (Photo 3). The rock contained up to several percent chalcocite with obvious visible gold noted in several of the sample fragments. The results of these analyses are shown in Table 2.

2. A very large sample (#816980) combining roughly 150 lbs (68 kg) of fragments from mixed early and late quartz vein material collected from two vein boulders situated at the immediate down slope edge at the NE end of the 2004 trench (Photo 8a, c & 9). The quartz boulders appear to be sub crop from one of the quartz veins exposed in the trench (Photo 8a, with corresponding vein indicated on trench map). The sample was obtained using a 10 lb sledge hammer and required considerably more effort than anticipated. Small areas of patchy malachite stain was a characteristic feature of this vein material, however no concentrated chalcocite or VG was identified. The results of these analyses are shown in Table 3.

Discussion of Assay Results

Sample # 816979

Analysis of the coarser sample fractions for this sample suggests a rough average of 2g\t for that specific vein portion sampled.

These data show that the coarser fractions (+ 150) are consistently enriched relative to the finer (-150) size fractions. There is marked consistency in the range of gold content for the -150 fractions for all the samples between 0.20 to 0.30 g\t Au, irrespective of the gold content detected in the coarser fraction of the same sample. These relationships clearly support the observed style of very fine to medium-grained, free gold commonly identified in the quartz veins. This relationship also highlights the need for some assessment to determine an appropriate size fraction and analytical procedures required to ensure that future analysis is adequate at capturing coarser, nuggety gold fraction to more accurately constrain gold content of the mineralized system.

Sample # 816980

This sample was not particularly well mineralized with respect to measured gold content (Table 3). These analyses do show that the only elevated values are identified in the +150 fraction, less pronounced but a similar relationship to that identified in sample 816979. It also shows a relatively restricted value for the -150 fraction with most at 0.04 g\t, which are higher than the bulk of the +150 samples, where they are not anomalous. The reasons for this relationship are not entirely clear, but appear to suggest that there may be a second style of gold mineralization, possibly at the microscopic scale and tied up with the sulphide. Detailed study of the mineralization would be required to establish this.

Table 2
Au in splits from larger Quartz Vein Sample

Sample Number	**Au** (-150) g/t	**Au** (+150) g/t
816979	0.29	**2.07**
816979	0.24	**1.78**
816979	0.28	**0.95**
816979	0.20	**1.40**
816979	0.20	**1.78**
816979	0.27	**2.28**
816979	0.22	**0.92**
816979	0.24	**2.35**
816979	0.24	?
816979	0.33	?
*0211	2.09	2.19
*BLANK	<0.01	<0.01

Certificate 8V2998RA - Assayers Canada

Table 3
Au in splits from larger Quartz Vein Samples

Sample Number	(-150) **Au** g/t	(+150) **Au** g/t
816980	0.04	0.01
816980	0.04	0.01
816980	0.06	0.01
816980	0.04	0.01
816980	0.04	0.08
816980	0.04	0.01
816980	0.04	**0.12**
816980	0.04	0.01
816980	0.04	**0.32**
816980	0.03	0.01
816980	0.04	0.01
816980	0.03	0.01
816980	0.04	0.01
816980	0.04	**0.12**
816980	0.02	0.01
816980	0.04	0.01
816980	0.03	**0.16**
816980	0.04	0.01
816980	0.04	0.01
816980	0.03	0.01
*0211	2.19	2.20
*BLANK	<0.01	<0.01

Certificate 8V2998RA - Assayers Canada

Assay Results for Cu in Vein Marginal Chloritized Sediments

The 34 samples of chloritized, vein-marginal sediment collected for assay included both:

1) A series of rock chips from outcrop\subcrop roughly equidistant intervals along the upslope side of the NW trending portion of the trench previously sampled for assay in 2004 (Photos 4a, b & 7 and area indicated as T1 to T7 in Figure 5), and
2) Highly chloritized sedimentary rocks forming part of the larger quartz boulders randomly identified across the area examined. These samples were collected to help provide some indication of the more intensely altered sedimentary host rock expected to be more prevalent at the core of the mineralized vein system.

The reported results (Table 4) indicate that the majority of the anomalous samples (7 of the 44) contain Cu in the range of 0.14 to 2.5%. Three of the more highly anomalous samples are in the range of 0.4-0.6% Cu.

As a matter of course, assay samples collected are photographed prior to being bagged and sealed. Several of these samples for which Cu content has been determined (Table 4) are illustrated (Photo 11).

Silver (Ag) at 4 and 5g for two of the samples is significant. At detection levels of <2g, it is possible that other anomalous values may be present but are not evident at the 2g threshold. The sample with the reported 4g Ag has the highest concentration for copper at 0.63% for all the samples; however the higher 5g sample contains only 0.17% ruling out any sort of correlation indicating higher Ag grades are associated with higher Cu grades, at least for the limited data set available. It is however likely that elevated Ag would require some level of anomalous sulphide development to be detected. The setting of the silver within this mineralized system remains to be established.

Photo 10a (below): Sampling of chloritized Cu-bearing sediments from 2004 trench

Photo 10b (top right): Malachite stained, vein-marginal sediments

Photo 10c (bottom right): Intensely chloritized sediment above QCC vein.

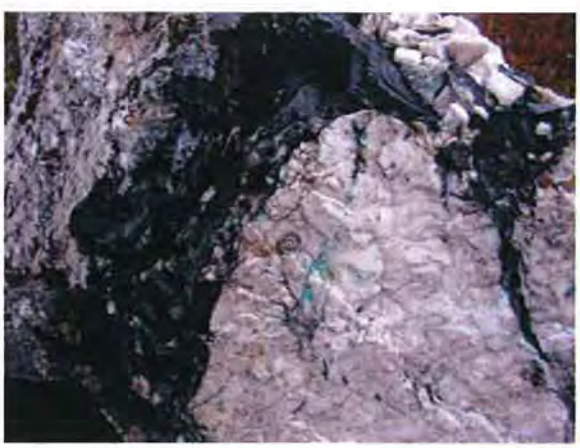


Photo 10c (bottom right): Intensely chloritized sediment above QCC vein

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Table 4.
Assay Results for Selected Base & Precious Metals - Chloritized Sediments

Sample	Wgt KG 0.01	Cu % 0.001	Ag g/t 2	Mo % 0.001	Pb % 0.02	Zn % 0.01	As % 0.02	Cd % 0.001	Sb % 0.01	Bi % 0.01
816913	0.72	0.008	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816914	0.96	0.004	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816915	0.80	0.006	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816916	1.10	0.007	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816917	0.89	0.013	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816921	1.74	**0.393**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816922	1.10	**0.506**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816923	1.69	0.013	<2	0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816927	1.53	**0.225**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816931	1.07	0.015	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816935	1.46	**0.174**	**5**	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816936	1.53	**0.231**	2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816938	3.24	0.016	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816939	0.70	0.009	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816940	3.78	0.021	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816941	1.03	0.016	2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816942	1.22	0.007	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816943	1.63	**0.146**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816944	1.16	**0.143**	2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816945	1.91	0.011	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816946	0.69	**0.629**	**4**	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816947	0.57	**0.141**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816948	1.16	0.009	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816949	0.32	0.001	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816956	4.05	0.010	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816957	2.74	0.014	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816958	1.08	0.007	2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816959	1.62	0.012	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816960	1.12	0.007	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816961	1.19	0.009	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816962	0.15	0.009	<2	<0.001	<0.02	0.04	<0.02	<0.001	<0.01	<0.01
816963	0.74	0.014	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816964	1.18	0.013	<2	<0.001	<0.02	0.04	<0.02	<0.001	<0.01	<0.01
816987	2.16	**0.219**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
817051	2.00	0.008	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817052	1.89	0.006	3	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817053	0.93	0.008	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817054	1.76	0.010	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817055	2.26	0.011	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817056	1.25	0.006	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817057	1.67	0.011	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817058	1.95	0.004	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817059	3.77	0.008	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01

ACME - Job # VAN08008297

Photos 11. Selected examples of assay samples of chloritized sediment with elevated copper (Cu) reported in Table 4.

Table 5
2004 Trench Assay Samples
of Chlorite Alterd Sediments

SAMPLE	Au	Ag	Cu	Mo	Pb	Zn	As	Sb	Bi
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	<.5	<.1	0.4	0.1	0.1	<1	<.5	<.1	<.1
CAS04-T1	0.9	<.1	129.4	0.5	6.3	171	1.8	0.1	0.2
CAS04-T2	<.5	<.1	77.9	0.2	6.5	126	1.4	0.1	0.2
CAS04-T3	0.6	<.1	173.8	0.6	6.7	133	1.6	0.2	0.2
CAS04-T4	16	0.7	2,392.5	0.2	5.6	188	1.9	0.4	0.7
CAS04-T5	13.5	0.1	264.3	0.2	6.4	242	1.8	<.1	0.2
CAS04-T6	4.9	0.1	132.7	0.2	7.2	161	1.6	<.1	0.2
CAS04-T7	6.7	0.1	327.5	0.4	4.6	199	1.5	0.1	0.2
CAS04-T8	10.3	0.2	624.1	0.3	6.5	179	2.2	0.1	0.4
CAS04-T9	1.7	<.1	83.4	0.6	7.4	136	1.8	0.1	0.2

Acme file # A406034 (Sept 24 -2004) Analysis: GROUP 1DX - 15.0 GM

The 2004 data showed elevated copper for all the samples analyzed. Only one of these samples showed a measurable anomaly at 0.24% Cu for the vein-marginal, hydrothermally altered sedimentary rocks.

The higher detection limit for the 2004 sample set also show that in addition to Cu, Zn is also elevated (100 to 200+ ppm range) for all the samples. There is however, no relative increase in the abundance of Zn corresponding to significant increases in copper. This relationship is born out by both the 2004 and 2008 data sets.

Unlike the 2008 samples, the 2004 samples of chloritized, vein-marginal sediment collected also included gold (Au) in the analysis (Table 5). It was on the basis of the negligible Au for all the samples assayed in 2004 that Au was not included in the 2008 analysis of the chloritized vein-marginal sediments.

It must be noted however, that larger sample sizes with coarse and fine fractions could be applied to this unit to ensure that there is not some aspect of coarse, free gold associated with it that has been overlooked. One can never ignore the adage that "*gold is where you find it*".

It is considered more likely however, as it is virtually the case for all gold-bearing deposits with relatively coarse, visible, free gold that such gold (Au) is contained in quartz.

SUMMARY

At least two and possibly more deformed quartz saddle reefs on the Shell Creek property are cut by late-stage quartz-carbonate-chlorite (QCC) veins that contain and introduce Cu-sulphide mineralization with fine to medium-grained visible gold (VG).

The 2008 field program was successful in:

1) Demonstrating the setting and style of visible gold within this copper bearing vein systems. Specifically, the identification of free gold in 3 separate samples of vein material found in float, for the area examined, helped demonstrate the frequency of free gold in the system.
2) Identifying a new and relatively high-grade style of Cu-Au mineralization developed in early fractured bull quartz proximal to late stage QCC veins.
3) Identifying an issue with analytical procedures which should be evaluated further to establish methods that accurately assess gold content. This feature is highlighted by the marked discrepancy between the two analytical methods applied. In the ACME data set the -150 fraction is consistently higher in gold content than the +150 fraction which is the opposite relationship reported for samples assayed by Assayers Canada in which the +150 fraction is consistently higher.

Based on:

1) The relatively common occurrence of visible gold in quartz float that forms aprons down slope from at least two vein systems that have been defined to date,
2) The potential size of these quartz vein systems and the current lack of any relevant data to constrain the scale, frequency or continuity of the gold rich zones within them, and
3) The very limited area for only one of the potentially Cu-Au mineralized vein system that has been exposed and evaluated to date the following approach is recommended.

Recommendations

Any exploration program employed to further assess the gold potential of these quartz vein systems should focus firstly on identifying and exposing potential surface concentrations of Cu-sulphide mineralization.

A geophysical program using a detailed induced polarization (IP) survey to isolate concentrated zones of late stage veins within the individual vein systems, followed by a trenching program sufficient to provide exposed sections across the width of the mineralized structure focusing on IP anomalous zones.

Once the zones of mineralization have been established a drilling program is recommended that uses vertical to near vertical drill holes to test the persistence and continuity (i.e. overall geometry) of the quartz structures with depth as well as the

presentence and Cu content of intervening chloritized sediment would be of considerable value in assessing the mineralized systems.

Comparison with other Au and Cu Deposits

Frequency of VG in Quartz Vein Float

Although the gold-quartz veins at Shell Creek display features that are more likely analogous to saddle reef, versus gold-quartz vein deposits, on a comparative basis the persistence of VG at Shell Creek is notable. The lead author of this report has conducted mapping and mineral deposits research in most of the major gold-quartz lode (e.g. Bralorne Mine, Cassiar - Erickson Mine, Rossland - IXL & Midnight Mines) and significant placer gold camps (Klondike, Barkerville, Atlin) in the Canadian Cordillera. During the course of this work rich pockets of lode gold or significant placer recoveries have on occasion been witnessed but the frequency of identify visible gold in quartz veins has in no way compared to the frequent identification of VG at Shell Creek.

Cu grades at 0.25 to 0.4%

Although not particularly analogous, either genetically or with regard to available info-structure, the Gibraltar Mine in south-central BC has produced copper at mining grades of 0.1 to 0.3% Cu for close to 30 years. Gibraltar is possibly best described as a primary Cu-Mo porphyry deposit in which copper mineralization has been enriched\upgraded along younger shear zones hosting Cu-bearing quartz veins.
Beyond its genetic differences the deposit does demonstrate a situation in which Cu grades comparative to those identified at Shell Creek are minable. As to whether or not comparative volumes of potential minable ore exist at the Shell is a question that remains to be established. The potential scale of the system, however suggests there is no reason why it could not be. More significant and in positive contrast too Gibraltar, where Cu production is supplemented by Mo, the Shell Creek Deposit (?) would be supplemented by Au should appreciable minable volumes exist.

References

Ash, C.H. (2004): Quartz saddle reefs with visible gold and vein marginal Cu (chalcocite) mineralization are associated with the Shell Creek banded iron formation (BIF); In house report for Logan Resources, 12 p.

Appendix F

Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon

by Daithi Mac Gearailt

Appendix G

Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on the Shell Creek Property of Logan Resources Ltd.

Prepared By: Mount Morgan Resources Ltd.

Appendix F

Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon

by Daithi Mac Gearailt

LOGAN RESOURCES LTD.

Report on Investigation of Selected uranium anomalies, Shell Creek Property, Yukon

A FIVE DAY INVESTIGATION, BY DAITHI MAC GEARAILT.

DAITHI MAC GEARAILT
2/1/2009

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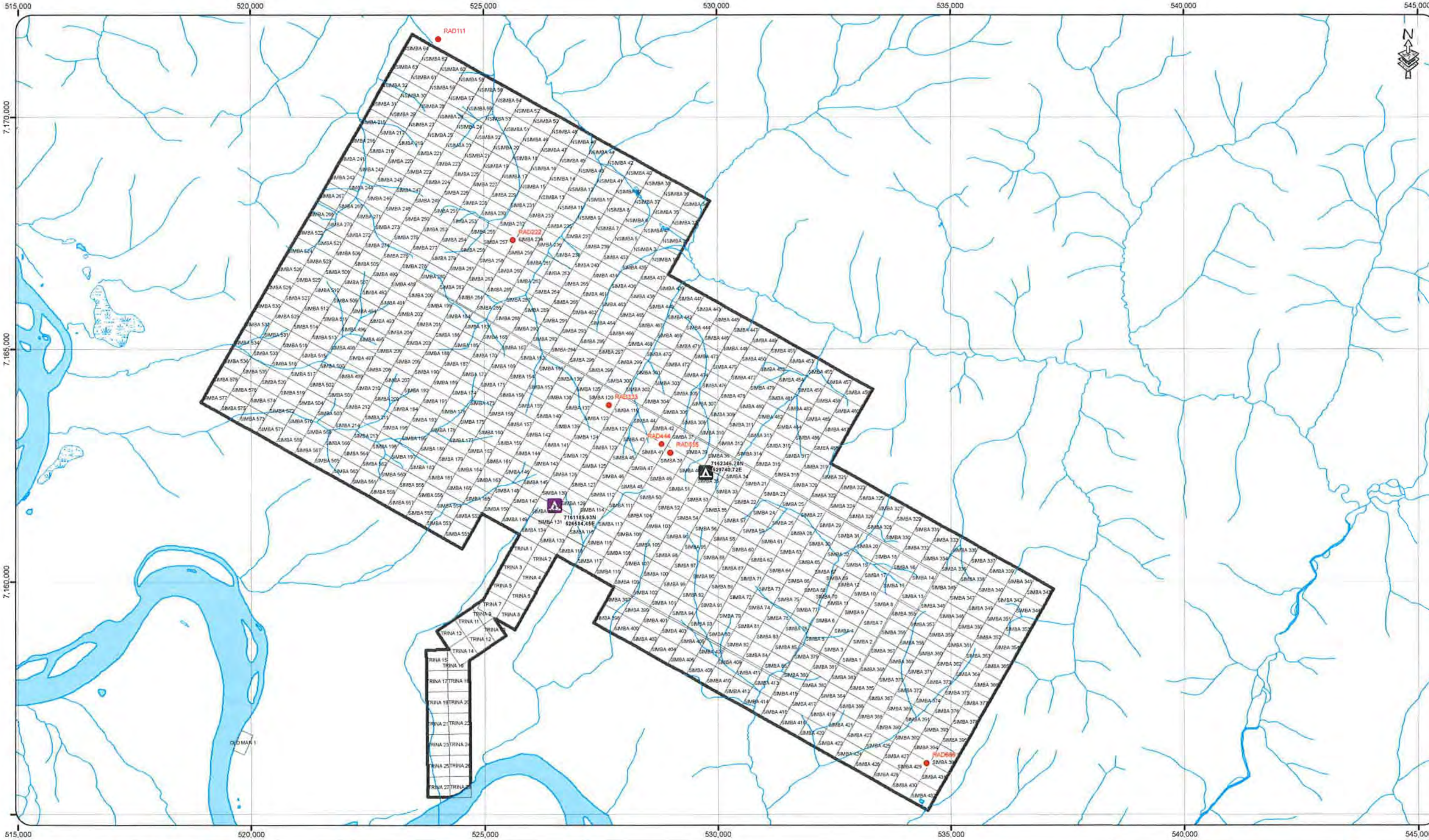
SHELL CREEK RADIOMETRIC REPORT (2008)

In 2008 a four day investigation of six areas that displayed anomalous uranium values from the 2007 airborne magnetic and radiometric survey was conducted by Logan Resources staff geologist Daithi Mac Gearailt. Figure 1 shows a map with the locations of the anomalous areas and Table 1, gives their exact UTM coordinates. Figure 2 shows the radiometric map of Shell creek from which the locations were determined.

SHELL CREEK RADIOMETRIC ANOMALIES		
NAME	UTM-X NAD 83	UTM-Y NAD83
RAD_111	524,030	7,171,681
RAD_222	525,618	7,167,346
RAD_333	527,669	7,163,792
RAD_444	528,796	7,162,953
RAD_555	528,979	7,162,768
RAD_666	534,483	7,156,103

Table 1: NAME AND COORDINATES OF ANOMALIES



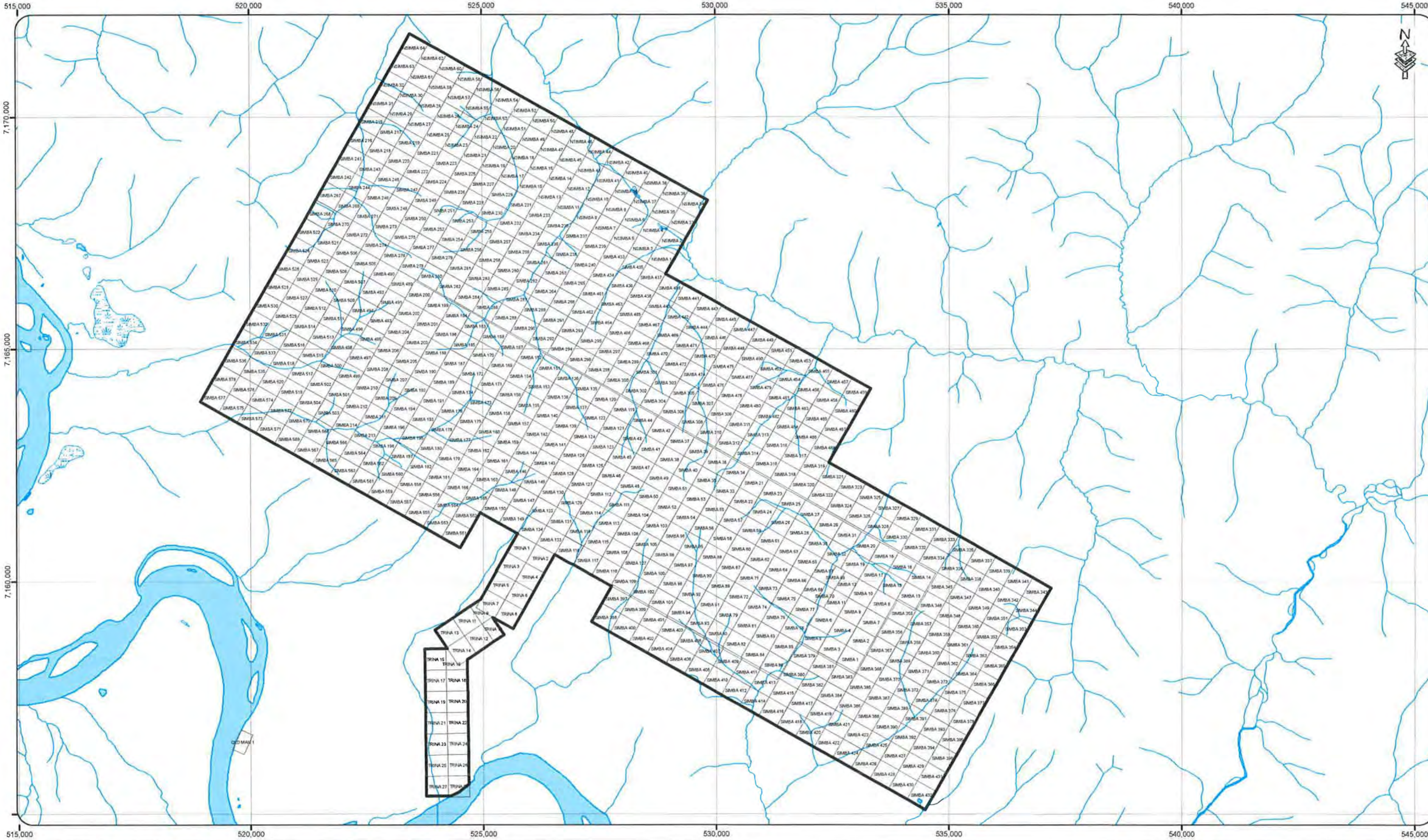
Shell Creek Claims
Anomalous Uranium

LOGAN RESOURCES LTD

- 2007 Radiometric Uranium Anomalies
- Yukon Mineral Claims
- Existing Campsite
- Proposed Camp Site
- Wetlands
- Lakes
- Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83



Shell Creek Claims
2008 Claim Map

LOGAN RESOURCES LTD

Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

RAD_111

Rad_111 is located to the northwest corner of the Shell Creek property, just outside the claim boundary. The area has good exposures of slightly oxidised quartzite. The exact coordinate of the anomaly lies between two of these outcrops, RAD_111_C1, (see fig 3) and RAD_111_C2, (see fig 4). A sample of the quartzite float from the exact location was taken and sent to Acme labs in Vancouver for ? analysis. Results from the analysis are in appendix 1.

Rad_111_C1

This is a small knoll of fine to medium grained quartzite which contains a large amount of disseminated pyrite. The area has some good rock exposure. It appears that there is some possible bedding at this location (Fig 3.), which could be important if the source of the Uranium is detrital and not from some other source i.e. Hydrothermal. The area reads roughly 439 counts per minute (C/M), and when assayed in the field using a GR-135G Identifier, hand held scintillometer readings of up to 9.9 ppm uranium were achieved. The bedding is roughly bearing 160° with a dip of 80° to the northeast.

Figure 3: RAD_111_C1 (LOOKING EAST)

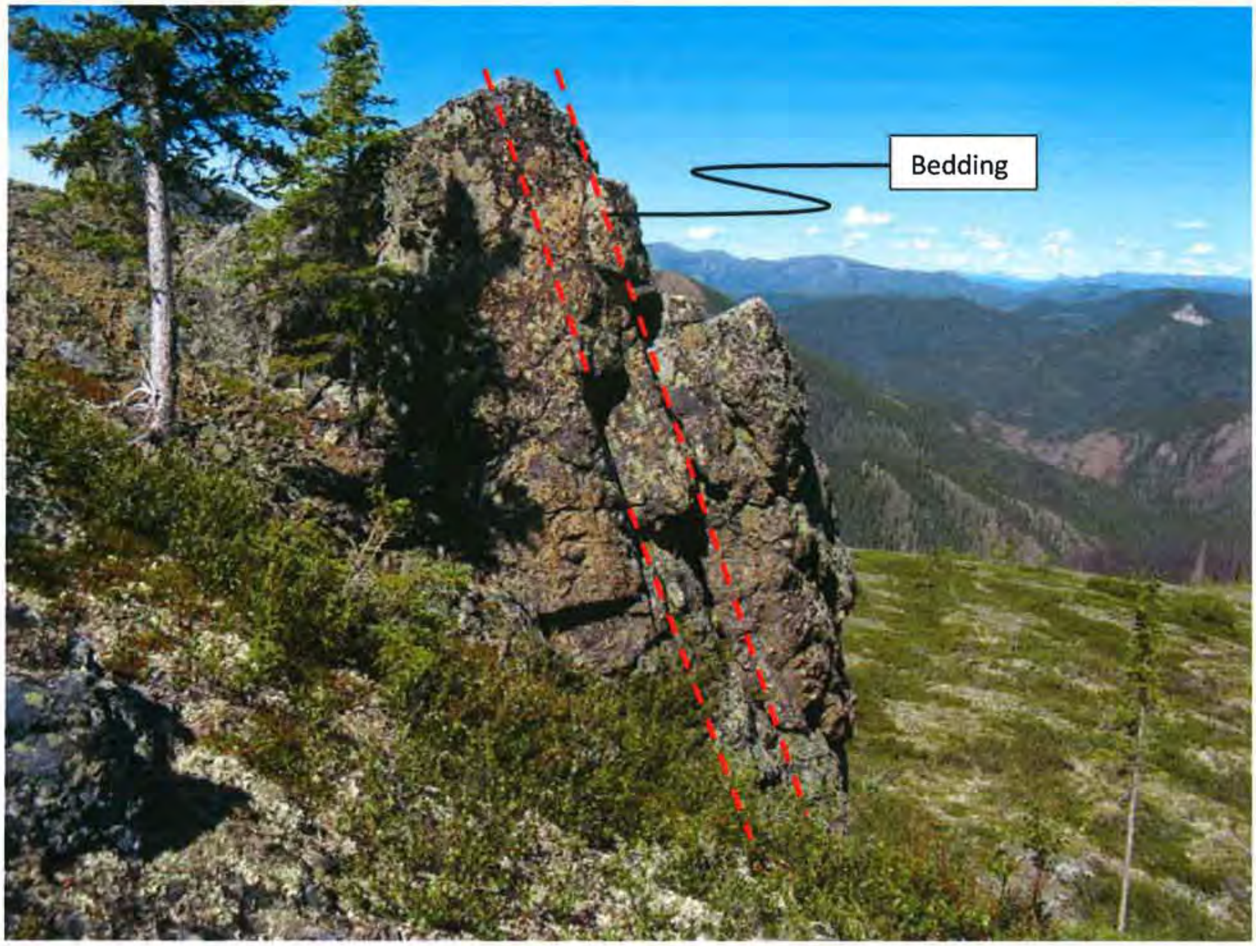


Figure 4: RAD_111_C1. WITH BEDDING, LOOKING SOUTH

The full results of the field assay with the hand held scintillometer are in Table 2 below.

	PPM	CPM
TOTAL	39	1499
POTASSIUM	7.7%	321
URANIUM	9.9b	77
THORIUM	32.1	27

Table 2: SCINTILLOMETER READINGS FOR RAD_111_C1.

RAD_111_C2

Figure 5: RAD_111_C2. LOOKING WEST

The quartzite here was a slightly more sheared and blocky compared to RAD_111_C1. It still displayed the same oxidized and rusty coloured pebbly quartzite as seen at C1.

This area gave a reading of 460 C/M and the full results of the field assay with the hand held scintillometer are in Table 3, below.

	PPM	CPM
TOTAL	38.9	1497
POTTASIUM	7.9%	324
URANIUM	10.7	73
THORIUM	27.5	23

Table 3: SCINTILLOMETER READINGS FOR RAD_111_C2

Rad_111_C3

This is the exact location of the radiometric anomaly (524031/7171681). This location is directly between both of the oxidized quartzite outcroppings. There is no outcrop at this location and the area appears to somewhat slumped. The scintillometer read 265 C/M at this location. A sample of Quartzite float was taken from here and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

RAD_222

Topographically this area is a small hill (See Fig 6), that has no exposure and is covered with moss and lichen with some stunted spruce around it. Three small trial pits revealed slightly silicified black organic shale. A sample was taken and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

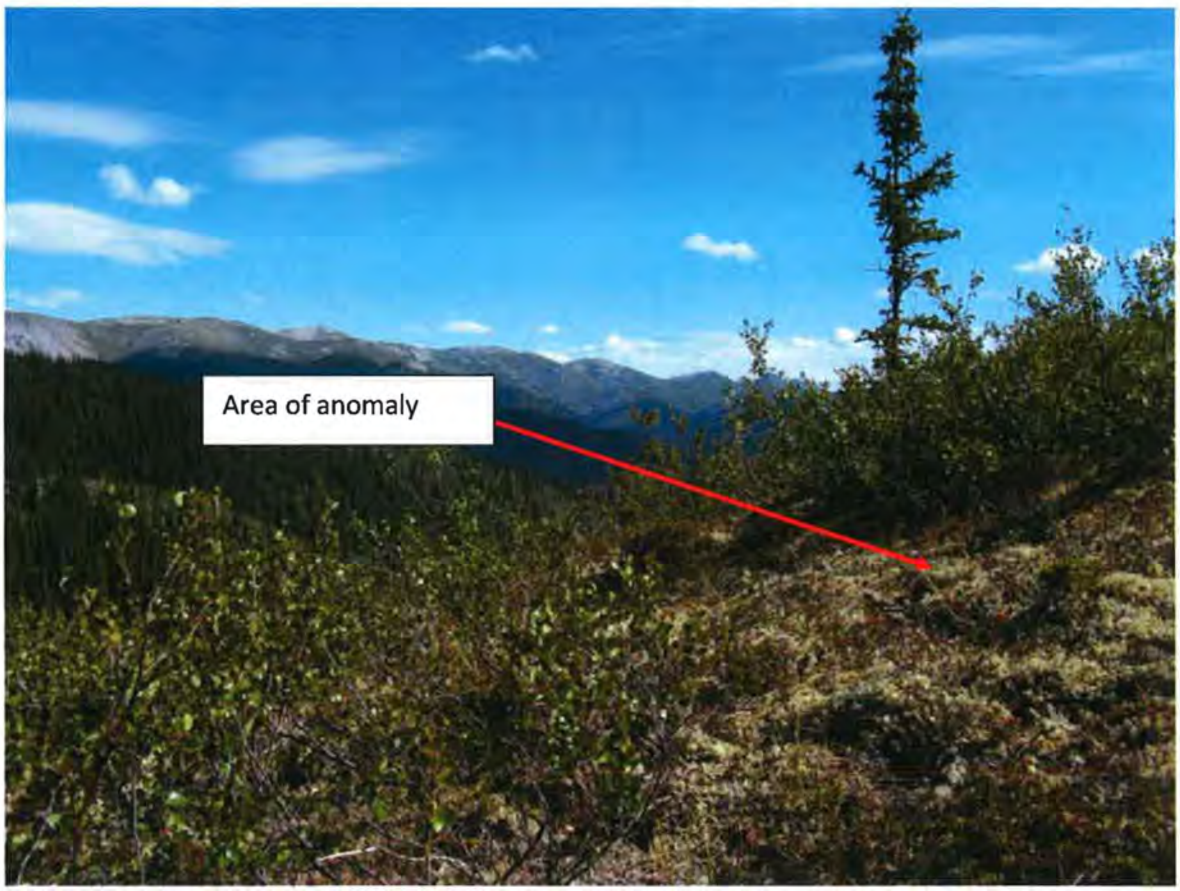


Figure: 6 RAD_222 ANOMALY.

The area was assayed in the field with a hand held scintillometer and the results of this are shown in table 4 below.

	PPM	CPM
TOTAL	**12.4**	**476**
POTASSIUM	**0.1%**	**46**
URANIUM	**10**	**39**
THORAMIUM	**2.4**	**3**

Table 4: SCINTILLOMETER READINGS FOR RAD_222.

RAD_333

Rad_333 is located on the north facing slope of a moderate hill just west of where Logan Resources had their 2007 camp. The anomaly is hosted in an oxidised med-grained quartzite sequence. It is easily discovered with the hand held scintillometer because of the low levels of radiation in the carbonates as you traverse the area. Typically the carbonates have a count of roughly 50 to 60 C/M, where as the quartzite typically has values of around 1200 C/M. The geology in this area generally displays an east west orientation as does the Quartzite bed which has a bearing of roughly 112°. Because of the blocky and broken nature of the area a structural dip for the quartzite bed was difficult to determine. One grab sample was taken and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

The area was assayed in the field with a hand held scintillometer and the results of this are shown in table 5 below.

	PPM	CPM
TOTAL	**76.1**	**2925**
POTASSIUM	**8.1%**	**451**
URANIUM	**9.7**	**204**
THORAMIUM	**122.4**	**100**

Table 5: SCINTILLOMETER READINGS FOR RAD_333.

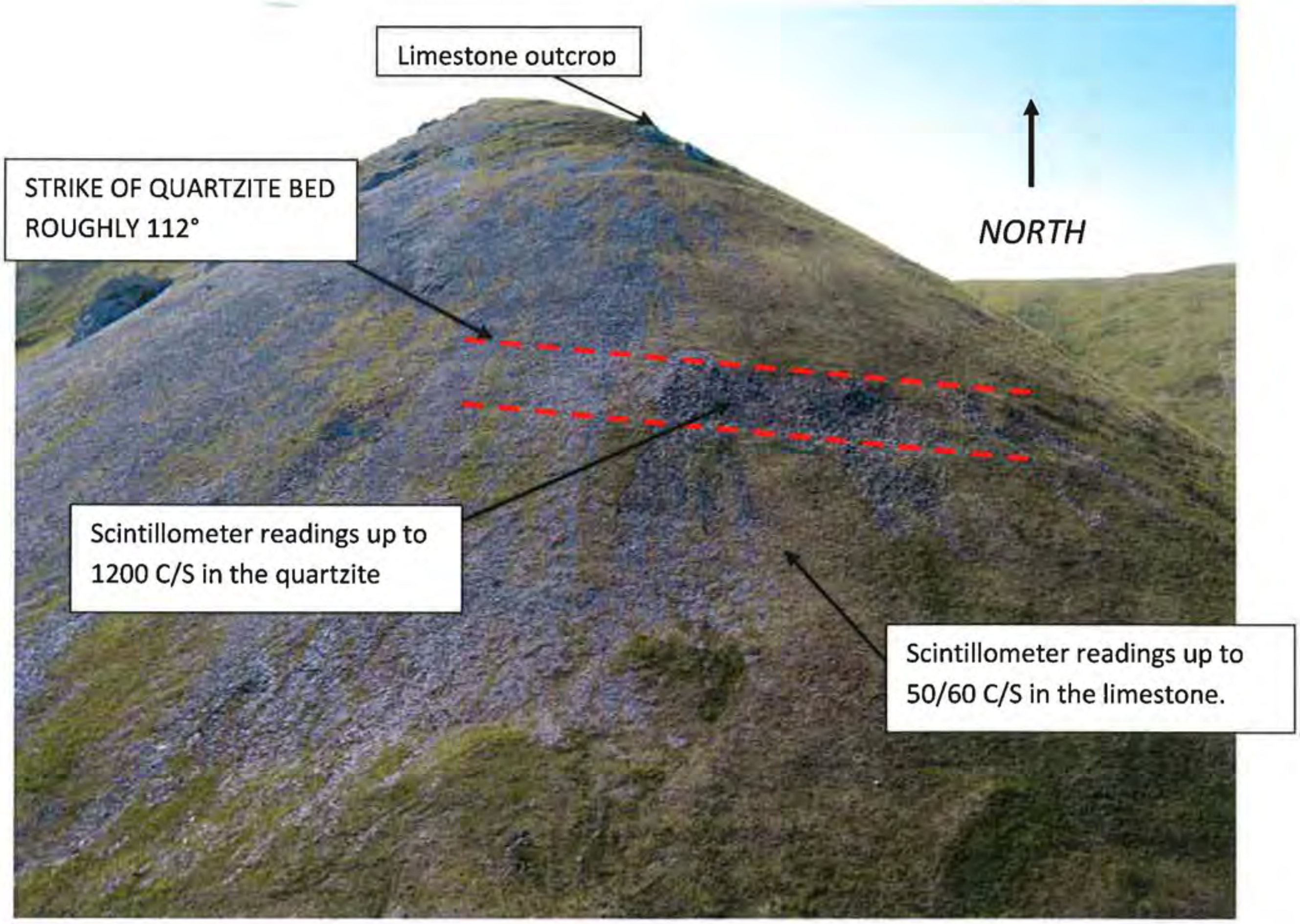


Figure 7: RAD_333

RAD_444

The location of Rad_444 is difficult to determine as there is no obvious zone. It appears that the coordinates point to a contact between the limestones to the north and some green chloritized phyllites to the south, See fig 4. The contact runs roughly 100° to 110° with a dip difficult to determine. See fig 7. There is an abundance of bull quartz that is common at Shell creek and appears to be the source of the chlorite. Unlike other quartz in the area there is no visible gold, chalchocite or malachite staining.

Figure 8: Dark green heavily chloritized sediments.

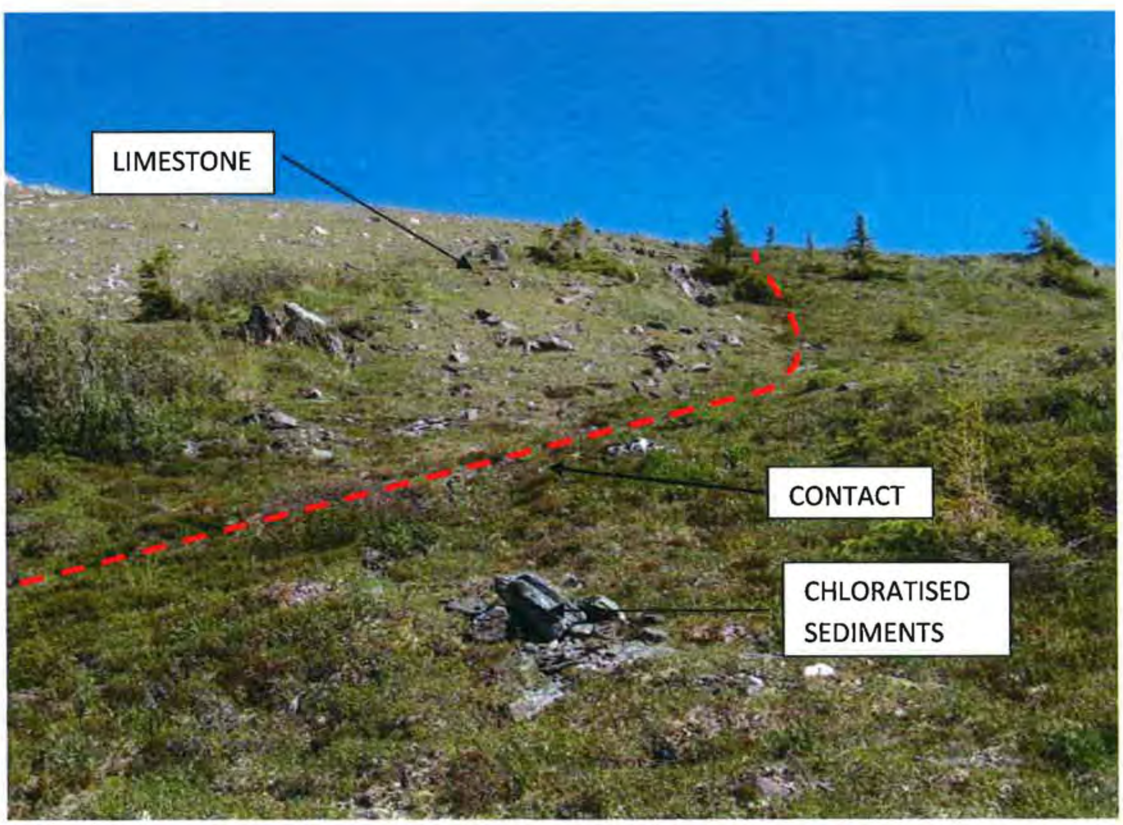


Figure 9: Contact between limestone and chloritic sediments.

Rad_555

The anomaly is located in a narrow medium grained oxidised quartzite bed roughly 25m across at surface. Mineralization in the quartzite is dissemimated oxidized pyrite. The quartzite horizon is flanked on both sides by shale units. Thinly bedded platy dark gray / black shale to the north that grades into winey/purple shale and then winey shale to the south that grades into a limestone.

Scintillometer readings 300m to the north of the quartzite bed putting you in the limestone give scintillometer readings of 30 C/S. Radiometric counts increase slightly as you cross into the shales where readings of 95 C/S are seen. Five small pits were dug in the quartzite horizon and are labelled 816901, 816902, 816903, 816904 and 816905. Assay results of the quartzite from these test pits can be seen in Appendix 1.

816901	ELEMENT	PPM	CPM
TOTAL		56.6	2178
	POTASSIUM	7.3%	389
	URANIUM	22.1	153
	THORIUM	55.5	46
816902	ELEMENT	PPM	CPM
TOTAL		79.9	3072
	POTASSIUM	7.2%	461
	URANIUM	11.6	242
	THORIUM	144.7	118
816903	ELEMENT	PPM	CPM
TOTAL		91.3	3513
	POTASSIUM	3.7%	419
	URANIUM	21	305
	THORIUM	164.8	136
816904	ELEMENT	PPM	CPM
TOTAL		61.5	2365
	POTASSIUM	10.9%	447
	URANIUM	0	116
	THORIUM	98.1	79
816905	ELEMENT	PPM	CPM
TOTAL		71.7	2757
	POTASSIUM	11.0%	501
	URANIUM	0.0	169
	THORIUM	126.3	103

Table 6: SCINTILLOMETER READINGS FOR RADD_555

Two Mobile Metal Ion (MMI) soil sample lines were placed over the quartzite horizon in a north south orientation to see if any anomalous geochemical signature could be picked up. There were 8 points in each line with a line spacing and sample spacing of 25 metres. The results of these are in appendix 2, (MMI results).

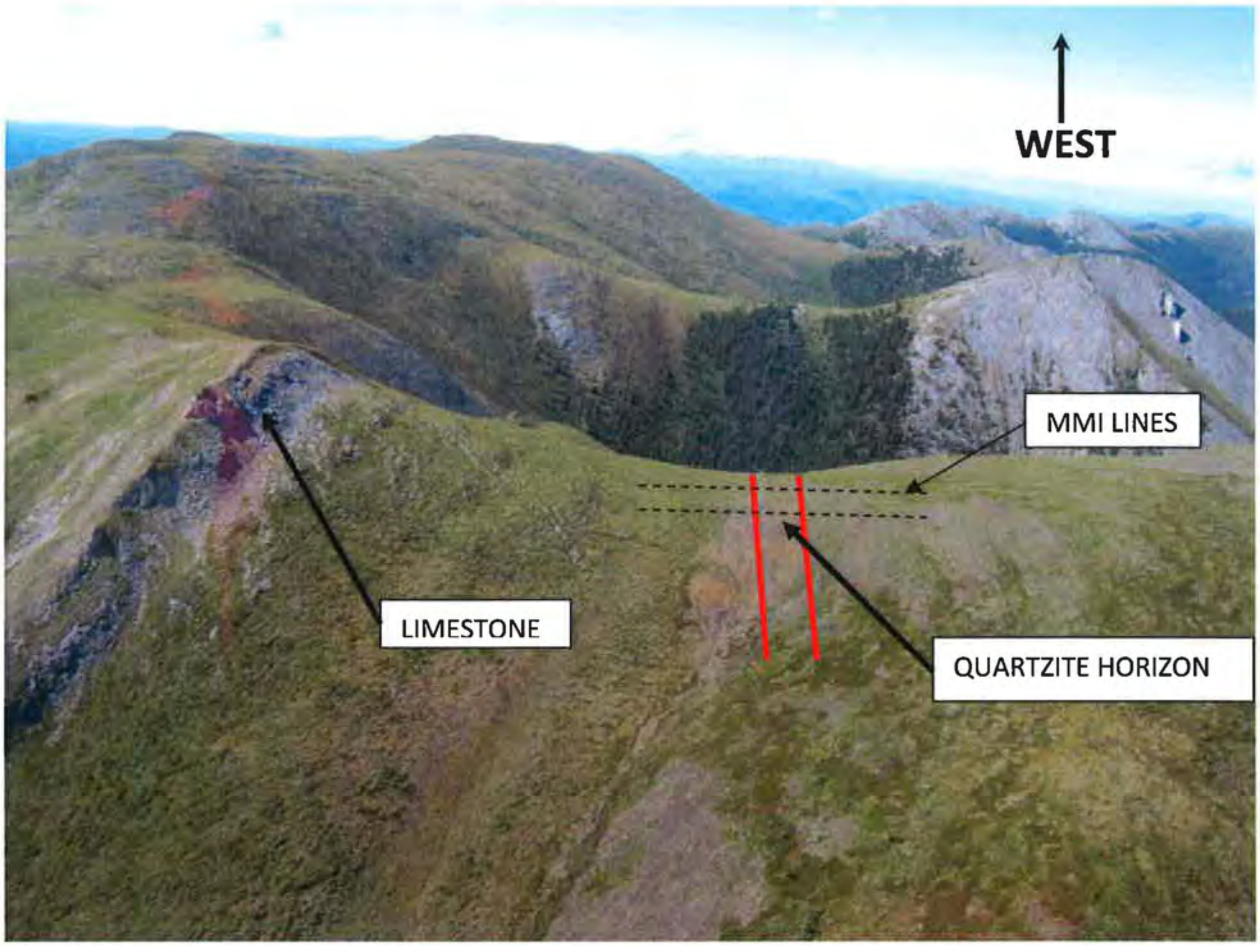


Figure 8: Aerial photograph of RADD_555, looking west.

RAD_666

Figure 9: RAD 666

Rad 666 is located in a densely wooded area of stunted poplar and black spruce that suffered a burn in the recent past (last 10 years or so). The anomaly seems to be coming from an exposed area see (Fig 11) that is generally composed of a silty cream to light brown coloured clay with minor amounts of ash. The area was mapped in as Arkosic sandstone ?. The photo above is looking in a north direction so flight lines would have picked the exposed face head on and this could have influenced the anomaly i.e. made it stand out.

Below is a table showing the observed ground readings from the hand held scintilometer at UTM coordinates 0534644, 7156156

	PPM	CPM
TOTAL		215 to 286
POTASSIUM	2.7%	663
URANIUM	0.0	22
THORIUM	17.1	14

INTERPRETATION AND RECOMMENDATIONS:

The higher radiometric anomalies on the property appear to be mainly associated with an oxidised, fine to medium grained pebbly quartzite horizon. It has been postulated that detrital zircons could be responsible for the slightly elevated radiometric readings, but more likely is that remobilised fluids with a slightly elevated uranium signature have preferentially passed through some of the quartzite beds.

The anomalies are weak and as of yet not given any indication to be of any economic potential however some of the radiometric readings with the hand held scintilometer did increase when an effort was made to dig down to less weathered material. One or two of the anomalies are coincident with magnetic highs (see mag map with rads on it), and could represent fluids from a buried intrusion that were mobilised and concentrated in the favourable matrix of the quartzite. This would also account for the slight pyritization of these quartzite units.

A recent soil survey in the area of RAD 111 noted that "Two metallogenetically significant anomalies have been defined by the survey. These include an ovoid to semi-circular AuRR-URR-CeRR anomaly and a linear northeast-trending Bi-Pb-Zn-Cu anomaly that is encapsulated by the former. The morphology and constituent elements contained within these two anomalies are suggestive of Olympic Dam-type mineralization with a base metal overprint"

- The area should be trenched to see if less weathered material could be revealed.
- These areas of coincident radiometric and magnetic highs warrant further investigation, as they are potential targets for economic mineralisation.

Appendix G

Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on the Shell Creek Property of Logan Resources Ltd.

Prepared By: Mount Morgan Resources Ltd.

Results Of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on The Shell Creek Property of Logan Resources Ltd., Ogilvie Mountains, Dawson Mining District, Yukon Territory, Canada

February 9, 2009

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EXECUTIVE SUMMARY

A Mobile Metal Ions (MMI-M) soil geochemical survey undertaken on the Shell Creek property of Logan Resources has delineated two distinctive and yet associated anomalies that are metallogenetically significant. These include a large, ovoid-shaped Au-U-Ce anomaly that is developed over 50% of the claim group. Within this anomaly and at its western edge is a linear, northeast-trending Bi-Pb-Zn-Cu anomaly that trends off of the claim group to the southwest. These anomalies are primarily developed in inorganic soil samples but there are contributions to the overall pattern by organic soil samples.

The Au-U-Ce anomaly has overtones of Olympic Dam type mineralization however integrated geophysical and geological surveys may provide more evidence for this possibility. The Bi-Pb-Zn-Cu anomaly appears to be the geochemical signature of a separate mineralizing event.

The analysis of inorganic and organic soil using MMI-M extraction, sample spacing on the grid and the character of the samples are adequate to delineate precious and base metal anomalies.

Data integration should be attempted prior to further exploration on the property including diamond drilling.

PREAMBLE

The exploitation of mineral commodities in the near-surface geological environment has become increasingly difficult due to the exhaustion of mineralization exposed at surface and the mantling of prospective bedrock by glacially transported till and its derivatives. Thick glaciofluvial and glaciolacustrine sediments topped by organic deposits make mineral exploration in these terrains challenging. For this reason a plethora of innovative exploration geochemical selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-parts per billion ranges, have been developed. These techniques offer the explorationist tools to "see through" overburden and derive useful mineral exploration data for integration with geology and geophysics and ultimately for drill-testing multivariate anomalies. Disrupted overburden, such as that observed with logging practices (scarification), tends to complicate MMI responses although modified sampling practices can be adopted to rectify this disturbed environment. Areas affected by landslide are also complicating factors.

The proprietary Mobile Metal Ions Process (MMI) soil geochemical technique has been utilized on a wide range of commodity types from base and precious metals to diamonds worldwide. The Process is based upon proprietary partial extraction techniques, specific combinations of ligands to keep metals in solution, and relies on strict adherence to sampling protocols usually established during an

orientation program. Geochemical data resulting from MMI analysis of improperly collected soils cannot be ameliorated with univariate and/or multivariate statistical and/or graphical solutions.

The recognition of anomalies in geochemical data has progressed from simple visual inspection in small data sets to multivariate, parametric and non-parametric or robust statistical methods for large datasets usually extracted from regional geochemical surveys. Derived parameters from these statistical exercises, such as factor scores or discriminant functions, have been successfully utilized in reducing a large number of potentially useful variables to a select few variables that identify and localize anomalous geochemical signatures. These statistical approaches have been required to manipulate accurate and precise, low-cost, multi-element geochemical data.

The MMI technology uses a different approach to exploration geochemistry by analyzing soils for a select few commodity elements upon which to base property evaluations. Having stated this, the MMI-M multi-element suite that was utilized to analyze inorganic soils from the Shell Creek property survey comprises analyses for 45 elements. These consist of a multi-element suite that reports ppb and sub-ppb analyses for base and precious metals, pathfinder elements for these commodities, as well as elements useful for mapping bedrock geology obscured by glacial overburden and its derivatives. A small number of elements in this package report in the parts per million ("ppm") concentration range (Al, Ca,

Mg, and Fe). The large number of elements in the database provides an opportunity to assess an area of interest for a wide range of metallic mineral deposits with only minor drawbacks in terms of lower limits of determination. The specific details of this assessment are described below.

TERMS OF REFERENCE

The author of this report was contracted by Mr. Seamus Young of Logan Resources Ltd. to undertake the interpretation of Mobile Metal Ions soil geochemical survey data from the Shell Creek property of Logan Resources Ltd. The Shell Creek property is located in west-central Yukon Territory, Canada, on the north shore of the Yukon River approximately 75 km (47 miles) northwest of Dawson City. This report represents a final interpretation of work and is completed with recommendations for follow-up exploration. The MMI-M survey was undertaken to assess the property for MMI-M geochemical signatures related to Olympic Dam-type copper-uranium-gold-rare earth element mineralization in the area. Anomalous copper and uranium in stream sediment geochemical samples in the area plus gold showings on the property support the potential for the existence of this type of mineralization in the Proterozoic-age rocks on the property.

APPROACH TO THE SURVEY

The Shell Creek MMI-M exploration survey, including the use of Mobile Metal Ions Technology undertaken by Logan Resources was designed to assess the

survey area for high-contrast geochemical signatures for Olympic Dam-type Cu-Au-U-REE (rare earth element) mineralization. Overburden cover and mineralization that is essentially blind in many parts of the property has hindered exploration and the MMI survey is an attempt to provide a tool for focused exploration. The proximity of Wernecke breccias nearby has prompted the search for the Olympic Dam mineralization.

SAMPLE COLLECTION AND ANALYSIS

In MMI surveys there are some general approaches that are used to guide sample collection including preferred depths of sampling and these are described briefly here. Additional information is also available from the SGS website (www.sgs/geochemistry.com).

Soil samples, each weighing approximately 250 grams, are usually collected at variable sample spacing along single transects over known mineralized zones or extrapolated trends of these zones. Generally, 25-m stations in precious metal exploration and up to 50 m in the case of base metals are the routine spacing. Sample spacing should be established on the basis of a "best-estimate" of the likely target being sought with estimates from historical data or exploration results from nearby programs. Initially, samples are often collected at a closer spacing until it is determined that a larger spacing is appropriate to the target being sought. At the Heidi property soils were sampled at a depth of 10-25 cm below the active or live organic layer or the point at which soil formation is initiated in

this environment. The sample collected between10-25 cm is a continuous 15 cm long plug of sediment or a continuous vertical channel of sediment.

Samples are bagged on site without preparation and shipped to SGS Laboratories (Toronto, Ont.) for MMI-M analysis. The MMI-M is a neutral extraction with analytical finish by inductively coupled plasma-mass spectrometry (ICP-MS).

A review of sample collection information provided by Logan Resources indicates that this approach to sampling has resulted in both inorganic and organic soil samples being submitted for analysis. Sampled material was a variably-colored sand-silt-clay collected from the B-horizon and humified organic material from the A-horizon. Gentle to steep slopes are present in the survey area and permafrost was encountered locally. Most samples were described as being damp. A total of 336 soil samples were collected for this survey.

DATA TREATMENT AND PRESENTATION

In exploration surveys where sampling and analytical protocols have been determined by an orientation survey, analytical data is examined visually for analyses less than the lower limit of detection (<LLD) for ICP-MS. Data <LLD are replaced with a value ½ of the LLD for statistical calculations and graphical representation. For most exploration surveys, MMI data is plotted as response ratios. For the calculation of response ratios the 25th percentile is determined

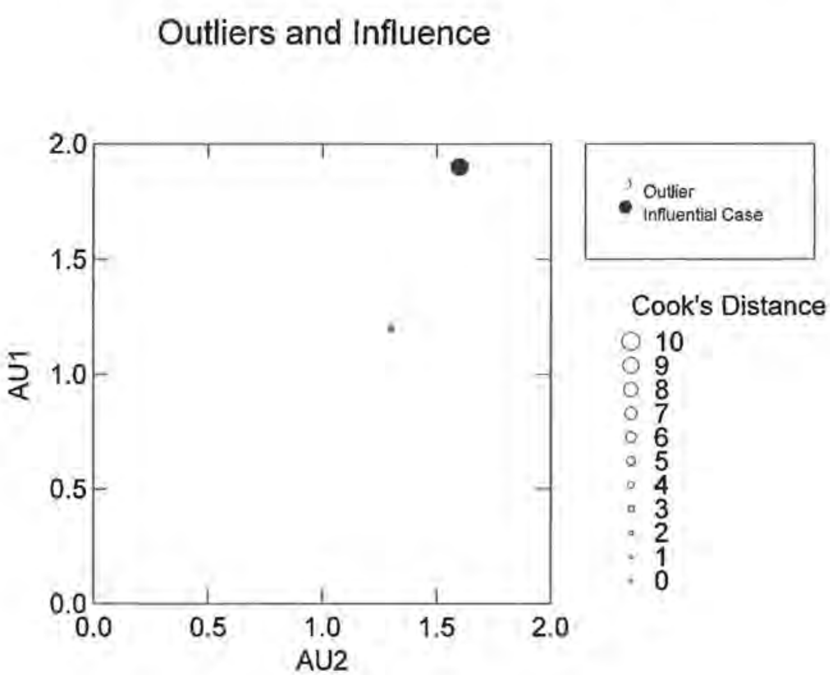
using the software program SYSTAT (V10) and the arithmetic mean of the lower quartile used to normalize all analyses. The normalized data represent "response ratios" which are then utilized in subsequent plots. Zeros resulting from this calculation are replaced with "1". Response ratios are a simple way to compare MMI data collected from different grids, areas and environments from year to year. This normalized approach also significantly removes or "smoothes" analytical variability due to inconsistent dissolution or instrument instability. For the Shell Creek survey the interpretation is based on response ratios.

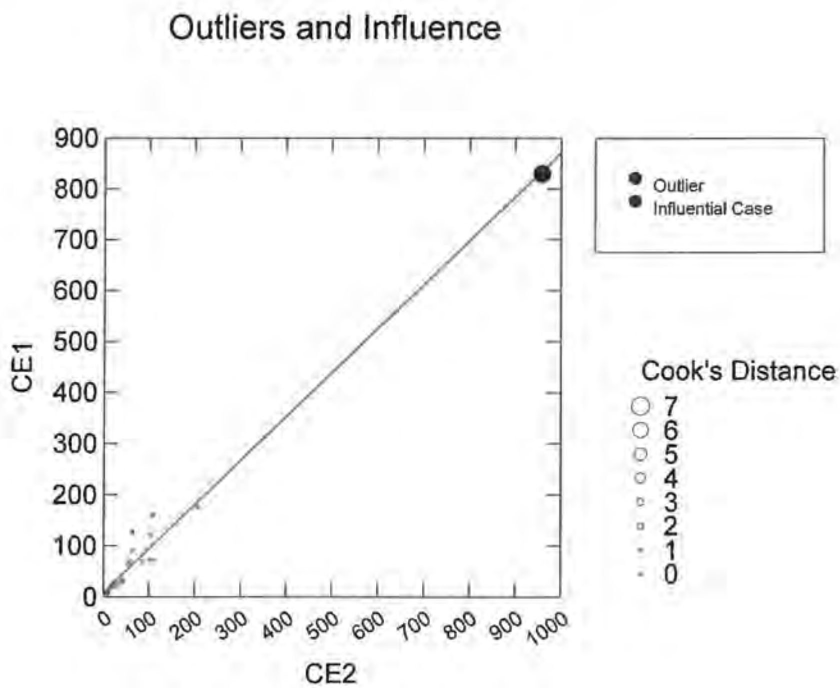
Analytical data as received from SGS Mineral Services and Logan Resources is presented in Appendix 1 along with sample descriptions. Analytical data from analytical duplicates, replicate analyses of standard MMI reference materials and analytical blanks are given in Appendix 2 as "QAQC". The 25th percentiles and backgrounds used to calculate response ratios are included in Appendix 2 with the edited analytical data. The variation in concentration of MMI-M suite elements on the property is discussed in a geochemical narrative based on bubble plots produced with ARCVIEW software. Prior to plotting organic and inorganic samples were separated and response ratios calculated separately. In this way geochemical flux in both organic and inorganic samples can be reviewed for each population.

RESULTS

Data Reproducibility-Analytical Duplicates

Analytical duplicate sample analyses are presented below as simple linear regression plots and in Appendix 2 and permit an assessment of the ability to reproduce analyses at a wide range in concentration. It is observed that the duplicate pairs exhibit a very high degree of reproducibility across a wide range in concentration for most MMI-M elements including the base metal commodity elements Au, Cu, Ce and U. Any variability that exists between duplicates is within +/- 25% and as such is interpreted not to be a hindrance to interpretation and the recognition of *bona fide* trends in the dataset. Most variability occurs at or near the lower limit of determination ("LLD"). The excellent analytical reproducibility for the important commodity elements Au, Cu, Ce and U is demonstrated in the simple linear regression plots below.




Outliers and Influence
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800
700
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CE1
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Cook's Distance
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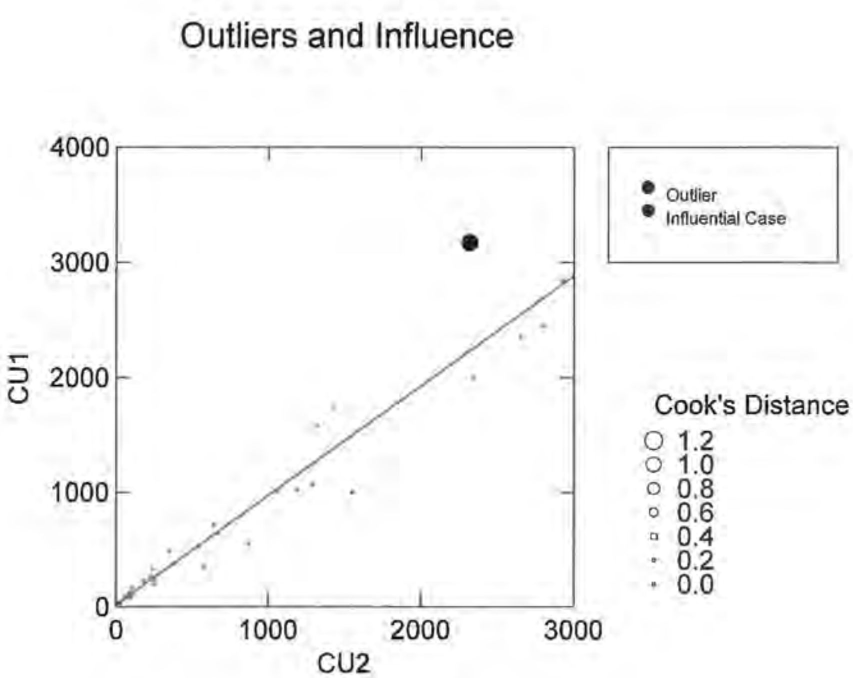
Outliers and Influence
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3000
CU2
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Cook's Distance
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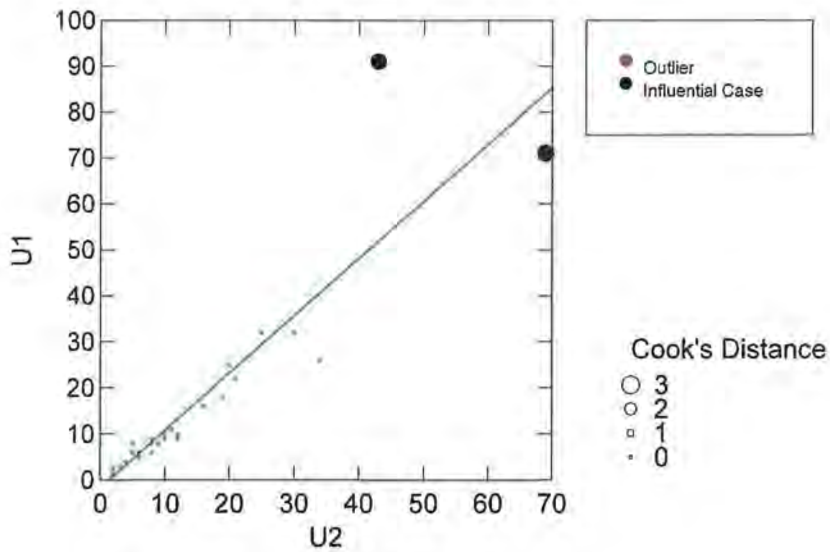
0.0

Outliers and Influence



Note: ***Cook's distance is a commonly used estimate of the influence of a data point when doing regression. Cook's distance measures the effect of deleting a given observation. Data points with large residuals (outliers) may distort the outcome and accuracy of a regression.***

Standard Reference Materials

A review of the QC analytical data in Appendix 2 indicates there is excellent agreement of the replicate analyses for the standard reference material MMISRM16 with the accepted or recommended values. This is particularly true for the commodity elements. Minor variation in reproducibility in expected values is observed for some of the rare earths.

Analytical Blank Replicates

A review of the replicate analyses of the analytical blanks (Appendix 2) indicates minor amounts of contamination are present in the blanks. The table below summarizes the elements present and in what quantities for the blanks. This demonstrates the absence of **significant** laboratory-based contamination that is being introduced into the sample.

Summary of detected contaminants in analytical blanks, Shell Creek MMI-M survey.

Element	Samples Reporting	Concentration Level
Al	5	4@ 1ppm, 1@2 ppm
As	1	10 ppb
Au	1	0.3 ppb
Ba	1	10 ppb
Ce	1	5 ppb
Cu	1	20 ppb
Dy	2	1 ppb
Fe	2	1@1 ppm, 1@ 2 ppm
Gd	2	1 ppb
La	6	5@1 ppb, 1@ 2 ppb
Nd	8	5@ 1 ppb, 3@ 2 ppb
Ni	2	1@ 10 ppb, 1@ 9 ppb
Pb	1	10 ppb
Pr	1	1 ppb
Sm	2	1 ppb
Sr	5	2@ 10 ppb, 2@ 20 ppb
Th	3	1@ 0.6 ppb, 1@ 0.7 ppb, 1@ 0.8 ppb
Ti	4	2@ 3 ppb, 1@ 4 ppb, 1@ 5 ppb
U	1	1 ppb
W	2	1 ppb
Y	2	1@ 6 ppb, 1@ 8 ppb
Zn	1	20 ppb

Data Description

The Shell Creek MMI-M dataset is marked by several elements that are at or below the LLD. These include Au, Bi, Cr, Li, Mo, Nb, Pd, Pt, Sb, Sn, Ta, Tb, Te, Tl and W. Some of these elements are typically less mobile than Cu or Zn and their presence in measurable quantities in a small number of samples is testament to this. The high percentage of samples with Au contents <LLD in this survey is not surprising given the very low mobility of Au in the surficial/secondary environment. It is worth noting that the diagnostic signal of a significantly mineralized zone will generally produce moderate- to high-contrast apical responses over the target; however, away from the mineralization at "background" locations there may be no trace of the presence of a specific metal in the analysis. This is another consideration when viewing MMI data-the presence of significant numbers of elements < the LLD is not necessarily cause for concern or that the MMI extraction is not working or has been "buffered" by soil composition. The MMI process is designed to only extract metals that are moving from source to surface and characteristically report metal contents in low ppb concentrations.

Method of Interpretation

Multivariate statistical and graphical techniques were not utilized for the interpretation of MMI data in the Shell Creek survey interpretation. A simple

visual approach was used. The MMI-M data was examined for anomalous spikes or groups of elevated responses for single and/or coincident elements. Element groupings such as Au-Ag, Au-Ag-Pd, Zn-Cd, Ni-Co, Ni-Co-Ag and Ni-Cu all have relevance to underlying geological conditions and their contained mineralization and are used to assist the rankings of any particular MMI response in terms of follow-up.

When concentration-only data is reviewed unique "spikes" or anomalous responses are assessed. When response ratios are used there are general guidelines brought to bear on the interpretation. Generally, a response ratio of <10 indicates less than interesting responses and is usually an indication of the lack of a significant mineralized zone in the bedrock underpinning the survey area. A response ratio >20 or 20 times background is an initial indication of a low-contrast anomalous response although this "threshold" is not universal. A response of between 21 and 50 is used as a moderate response with RR>50 being referred to as high contrast. Often, pattern recognition in the interpretation of geochemical data is paramount. These parameters were applied to the interpretation of MMI-M geochemical data from the Shell Creek property.

AREAL DISTRIBUTION OF ANOMALOUS RESPONSES IN THE SHELL CREEK MMI-M SURVEY AREA

ARCVIEW Bubble Plots

The variation in concentration and the resulting morphologies of anomalous responses in the MMI-M data from the Shell Creek survey area are described in

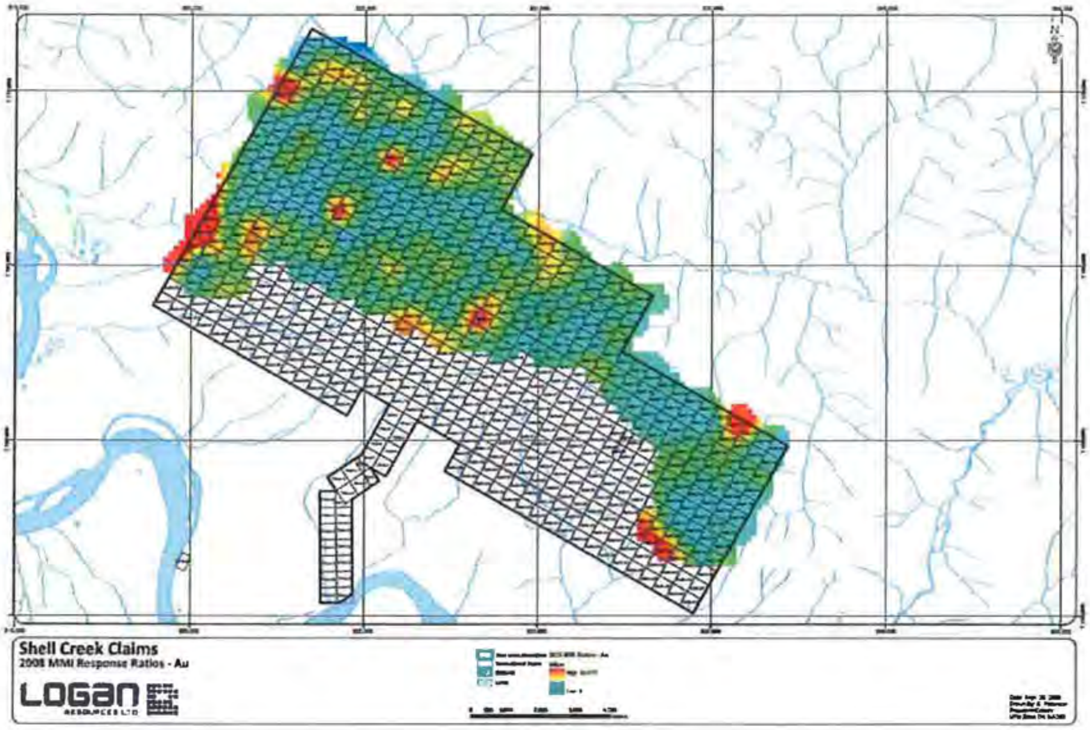
the following section. All plots of MMI-M suite elements considered to be significant are available for viewing in Appendix 3. The plots are produced so as to provide a different symbology for the individual sample types. That is, organic and inorganic soils are given a distinctive symbol (triangles for inorganic soils and circles for organic soils) so that responses on the grid for each of these different sample types can be deduced from one another. Plots of MMI-M geochemistry are draped upon topography including streams and lakes and also claim boundaries. The individual responses are presented as bubbles whose diameter is directly proportional to the magnitude of the geochemical response (as response ratios) and they are also color-coded so that hot colors represent high responses and the cooler colors indicate low responses.

Precious and Related Metal Responses (Au, Ag and As)

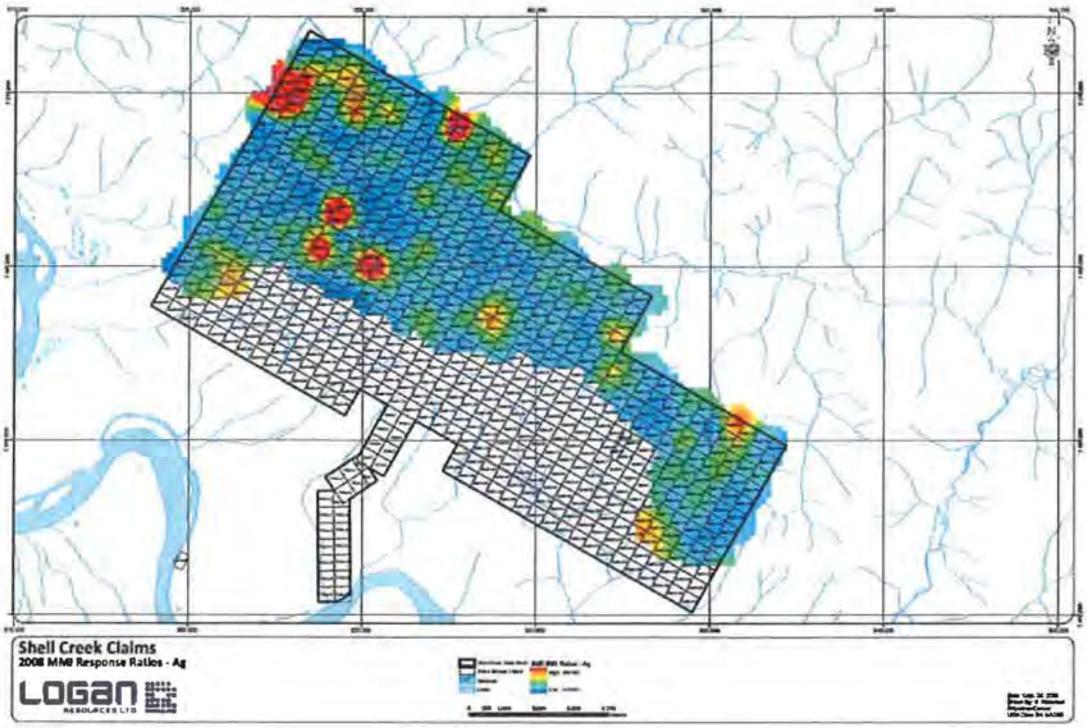
AuRR (1- 76): Gold anomalies on the property are entirely single-sample responses that are widely scattered across the survey area and are without apparent linkage. There is limited correspondence between Au and As responses except for the area near the western edge of the survey grid where overlap between these two elements is noted. There is a total of seven AuRR single-sample anomalies on the property.

If lower-contrast responses (yellow on the figure) are combined with the high-contrast responses then a crude, large scale ovoid anomaly is developed and centered in the more northerly portion of the claim group. This anomaly covers approximately 50% of the survey area. The origin of this anomaly is unknown

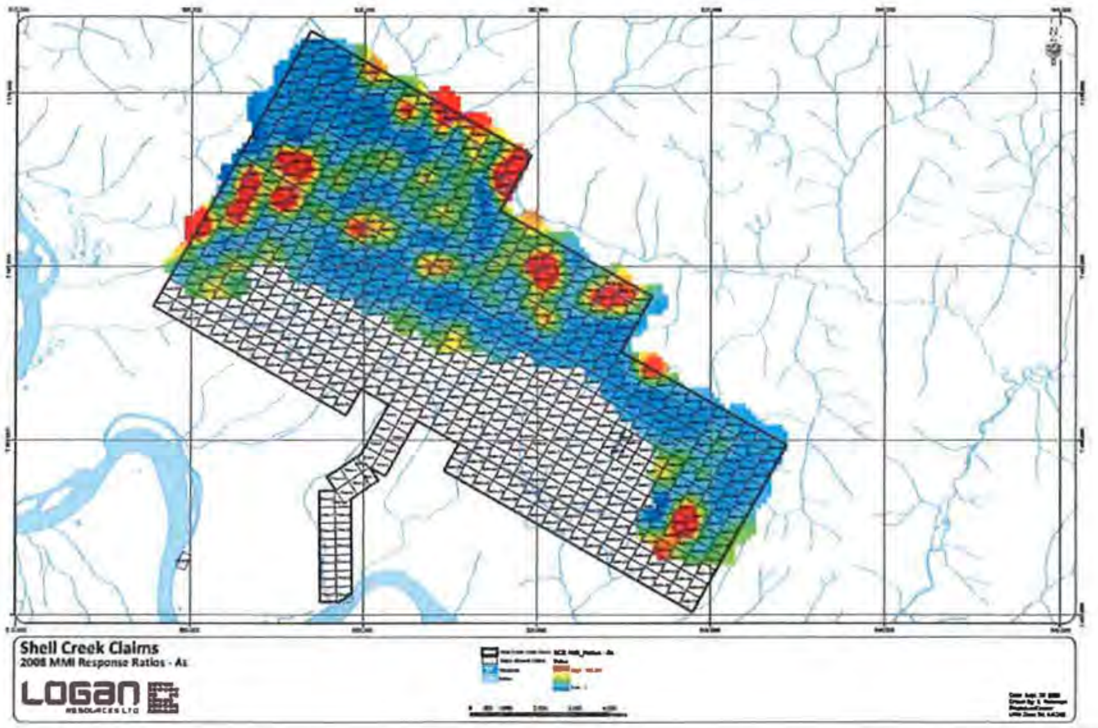
however it is likely directly linked to the distribution of Au in the rocks that underpin the survey area.



AgRR (1- 395): The Shell Creek grid is marked by five areas of significantly elevated Ag responses. Four of these are single sample anomalies and include both organic and inorganic soil samples. The main area of elevated response occurs at the northern tip of the claim group and consists of multiple inorganic soil samples with moderate- to high-contrast responses. The anomaly has a somewhat arcuate morphology band is open to the west. The maximum response in the survey area is 395 times background.

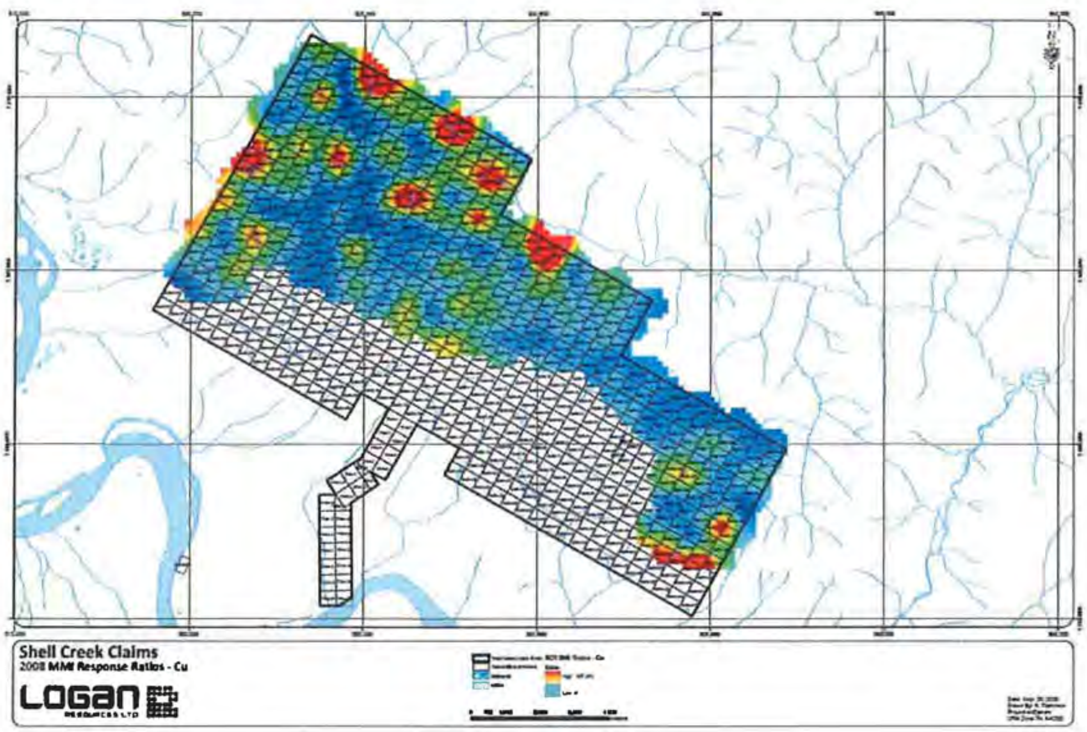


AsRR (1- 200): There are numerous one to three sample AsRR anomalies on the Shell Creek grid although none of these are coincident with the AgRR anomalies. Some of the anomalies are noted to be adjacent to stream courses suggesting the possibility that the elevated responses in both organic and inorganic samples are related to hydromorphic dispersion of As from arsenopyrite-bearing mineralization. The northeast area of the grid and to a lesser extent the western edge of the grid are marked by anomalous responses developed at the extremity of sampling. This suggests the anomalies are not truncated and are open in these areas.

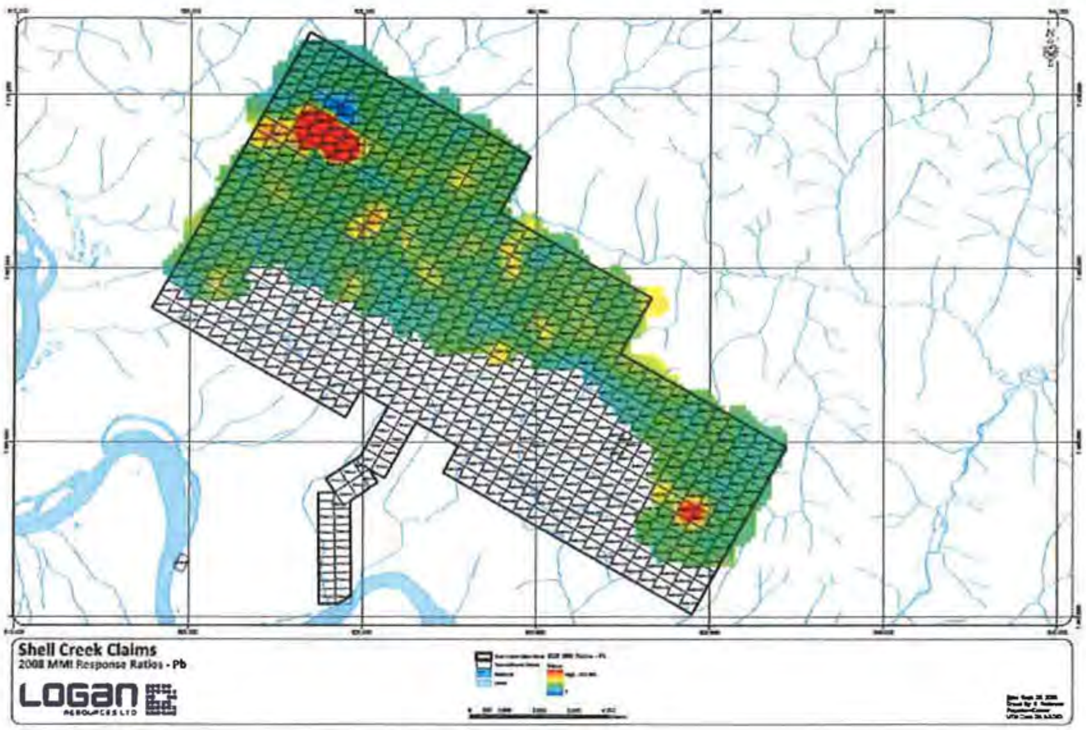


Base and Related Metal Responses (Cu, Pb, Zn and Bi)

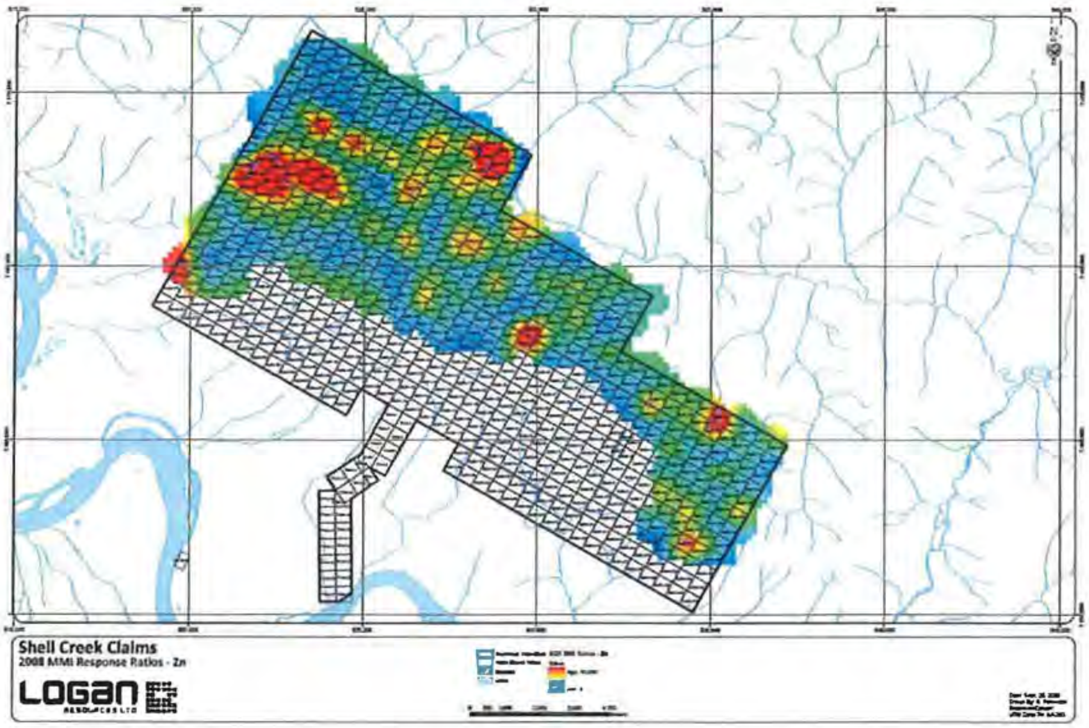
CuRR (1-176): There are ten individual CuRR anomalies defined on the Shell Creek grid and interestingly all of these anomalies are developed in organic soil samples. The anomalies are present along the northern portion of the survey area and also provide a crude indication of the areally-extensive ovoid of AuRR responses. The Cu anomalies are one- to three-sample anomalies and in many cases are situated adjacent to stream courses. Single-sample anomalies are developed in association with the linear Bi-Pb-Zn anomaly described below.



PbRR (1- 401): The northern Shell Creek survey area has a single, multi-sample anomaly that is developed in both organic and inorganic soils. The Pb anomaly is coincident with the northeast tip of the linear Bi anomaly and is encapsulated by the circular AuRR anomaly. This observation tends to support the presence of metal zonation in the bedrock underpinning the claim group in this area.

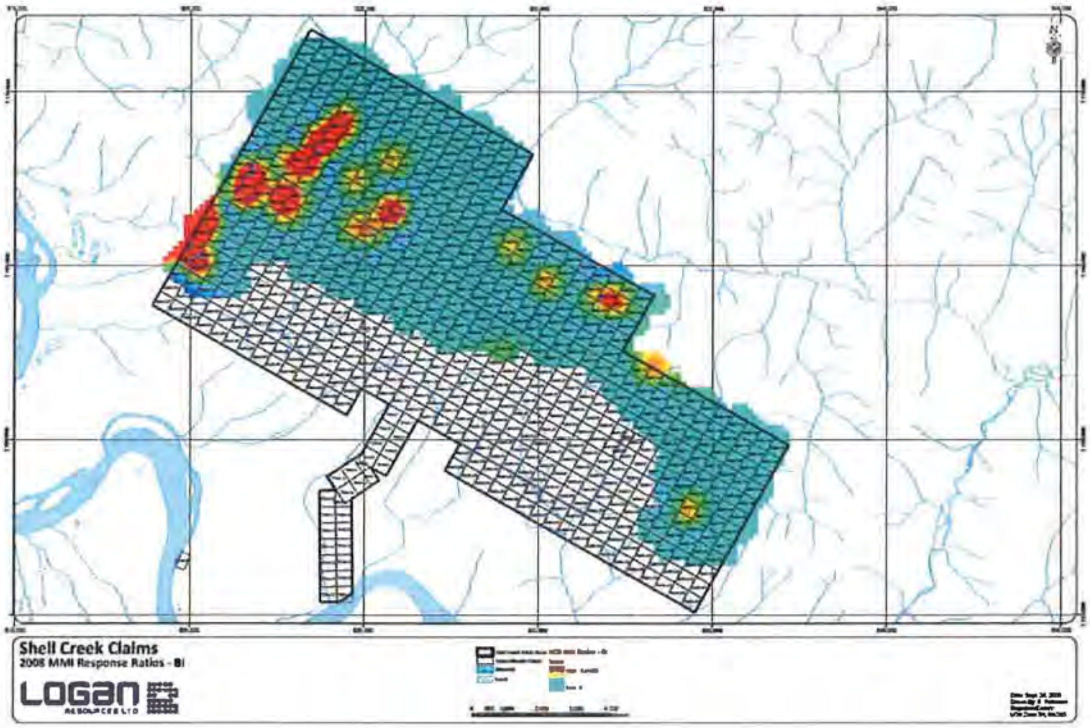


ZnRR (1- 142): Similar to the PbRR anomaly, the most significant ZnRR anomaly, comprising multiple organic and inorganic soil samples, is coincident with the linear Bi anomaly. Elsewhere on the claim group ZnRR anomalies tend to be single-sample elevated responses developed in isolation from one another. They do not define a cohesive anomalous response.



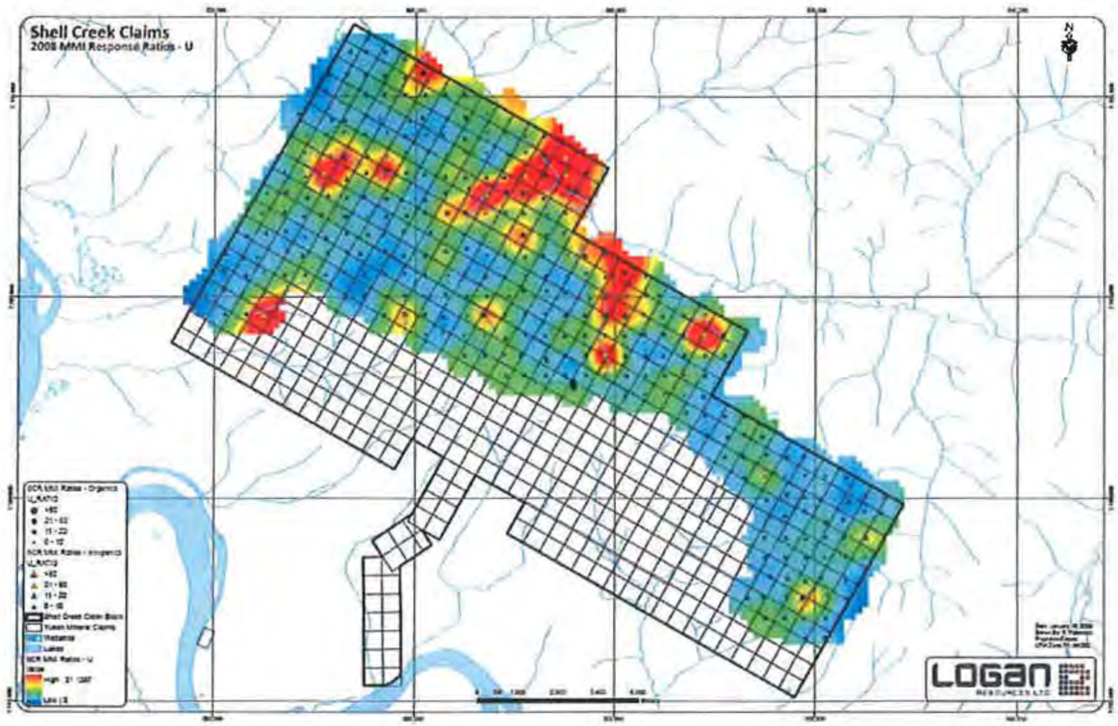
<u>BiRR (1- 38):</u> A very-high-contrast, multi-sample, northeast-trending Bi anomaly is documented from the western edge of the grid. This anomaly trends off of the claim group and likely continues to the southwest. This anomalous response is strongly coincident with elevated AsRR but much less coincident with observed Au and Ag anomalies. This is strongly suggestive of metal zonation in the bedrock in this area. Elsewhere on the grid, particularly to the east and southwest, elevated BiRR consisting of widely separated, low-contrast responses predominate. There is no indication of the circular or ovoid anomaly documented in the Au data for the Bi results. All BiRR anomalous responses are developed

from the analysis of inorganic soil samples.

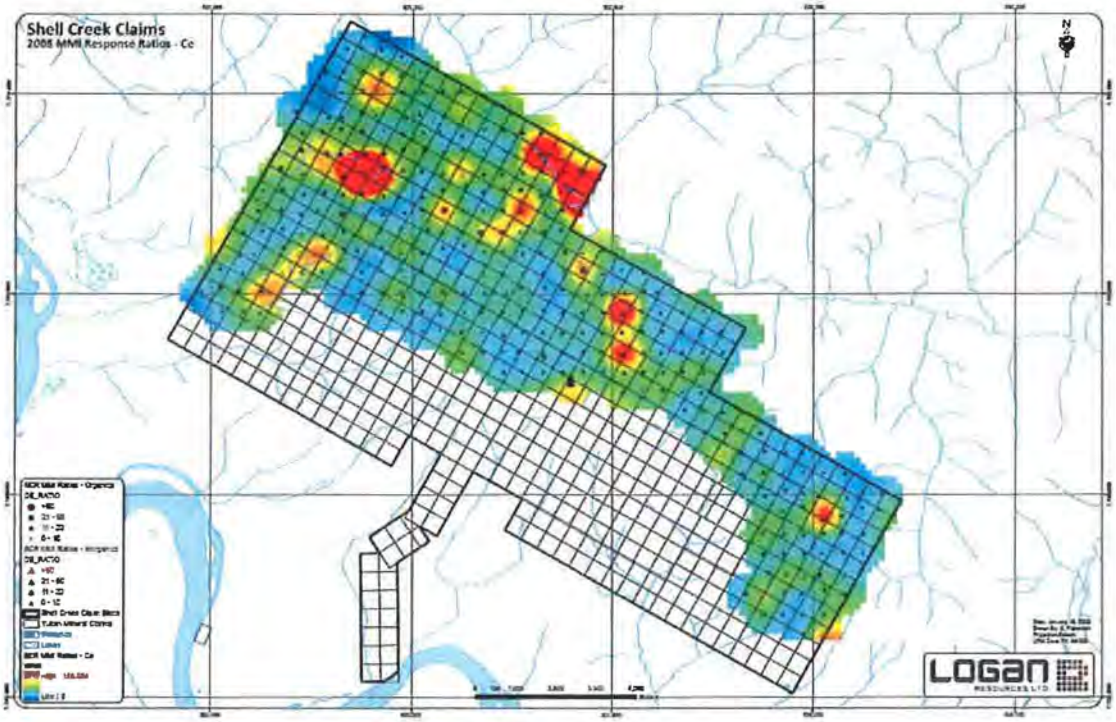


Additional Commodity Elements (U and Ce)

URR (1-31): Broad, moderate-contrast URR responses with maximum responses of 31 times background are observed along the northern edge of the claim boundary. These are multi-sample responses for primarily inorganic soils but also for lesser numbers of organic soil samples. The shape of the anomaly is arcuate and approximates the ovoid shape of the previously described AuRR anomaly although the URR anomaly is less well-defined. Elsewhere on the claim group elevated URR are present as single-sample, isolated responses.



CeRR (1- 160): The light rare earth element Ce, as a representative of the geochemically coherent REE, produces patterns of anomalous responses that approximate those for AuRR and URR. The CeRR anomaly is developed at the northern claim boundary and has an arcuate morphology. The definition of the anomaly is based upon organic and inorganic soil sample analyses. The maximum response ratios are 160 times background.



OBSERVATIONS and DISCUSSION

General Comments

This MMI-M survey at the Shell Creek property of Logan Resources has identified two significant types of anomalies based on constituent elements and anomaly morphology. The first of these is an arcuate to ovoid AuRR-URR-CeRR anomaly situated at the northern claim boundary. Despite the crude definition of this circular response it is present in multiple samples and for the elements U and Ce as well. This anomaly likely extends past the claim boundaries. The second significant feature is a somewhat linear, northeast-trending Bi anomaly that extends off of the claim group to the southwest. This is a strong base metal anomaly with associated Pb-Zn-Cu anomalous responses albeit there are only single sample anomalies for Cu in this feature. The Bi-Pb-Zn-Cu anomaly is

developed within the larger Au-U-Ce ovoid and both of these features are interpreted to be reflective of mineralization within the bedrock. It is possible the ovoid Au-U-Ce anomaly is an earlier phase of mineralization and the linear Bi-Pb-Zn-Cu anomaly has been subsequently superimposed on the ovoid although follow-up examination of this possibility would determine the validity of this scenario.

Soil Types

In the Shell Creek survey, soil samples were collected at a consistent depth of 10-25 cm below the active or non-humified organic layer. In the majority of cases this depth resulted in the collection of an inorganic soil sample. In some cases this resulted in the collection of an organic sample. Although there is no statistically significant difference in metal contents between organic and inorganic soil samples analyzed with MMI-M the results from the Shell Creek survey indicate that the inclusion of organic soil samples can result in some variance in the geochemical patterns observed in the survey results. This variance can be recognized by the nature of the response whereby a single elevated organic soil sample that is developed in isolation from adjacent organic and inorganic soil samples can likely be ignored. Further, if there is available geophysics or geology in the vicinity of the organic anomaly then the possibility of a *bona fide* anomaly can be reviewed in terms of additional information. This feature does not seem to place any restrictions of the *bona fide* nature of the anomalies at Shell Creek. In the Shell Creek survey the multi-element and multi-sample anomalies are based

primarily on inorganic soil samples and the results are not skewed by the inclusion of organic soils in the database. This possibility was avoided by extracting the organic soils from the database and calculating response ratios for them separately.

Data Quality

The Shell Creek survey was undertaken with a significant component of quality control sampling. Analytical duplicates were assessed with simple linear regression and demonstrate the quality of data used for interpretation is excellent such that the data is not a hindrance to the recognition of *bona fide* anomalies. Replicate analyses of analytical blanks indicates no significant contamination is being introduced into the sample and the analyses are interpreted to be accurate based on the agreement between the recommended and observed analytical data for the MMI standard MMISRM16.

These observations are of prime importance since properly collected samples without a framework of "QC" provides no assurance that the data is genuinely reflecting the accurate and reproducible distribution of elements of interest in the survey area.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are evident from this MMI-M exploration survey on the Shell Creek property.

1. The survey has successfully demonstrated that MMI-M partial extractions on inorganic and organic soil samples collected from the Shell Creek claim group can isolate MMI-M precious and base metal anomalies. This includes the commodity elements Au, U and Ce and Bi-Pb-Zn-Cu.

2. The Shell Creek survey area is characterized by multiple high-contrast generally coincident and aerially extensive precious metal and associated metal anomalies in the northern portion of the survey area.

3. Two metallogenetically significant anomalies have been defined by the survey. These include an ovoid to semi-circular AuRR-URR-CeRR anomaly and a linear northeast-trending Bi-Pb-Zn-Cu anomaly that is encapsulated by the former.

4. The morphology and constituent elements contained within these two anomalies are suggestive of Olympic Dam-type mineralization with a base metal overprint.

5. Variability in analytical duplicate samples is present but is insignificant in terms of anomaly definition.

6. Sampling materials collected for MMI analysis are effective and appropriate sample media for an MMI survey.

7. The analyses generated by the MMI-M extraction are accurate and precise and are effective for the detection of low- to high-contrast anomalies.

The recommendations that flow from this survey are as follows:

1. The MMI process does not indicate the grade of mineralization responsible for the production of an MMI anomaly nor does it indicate the depth of the source region for the anomaly. Accordingly, it is strongly recommended that an attempt at modeling the geological setting of the target mineralization based on their geophysical responses with emphasis on depth to source be undertaken prior to a diamond drill program. This exercise can greatly assist the drilling when attempting to provide explanations for the geological context of geophysical and MMI anomalies. The attitude of the target can be effectively delineated in this manner.

2. Prior to diamond drill testing the MMI dataset should be integrated with all available geophysical and geological surveys so that multivariate drill targets can be determined.

3. The inclusion of a soil sample to act as a standard in the future is an absolute necessity if the quality of analytical data is to be monitored with field

duplicates. The necessary standards should have a significant range in concentration for the commodity elements of interest.

Mark Fedikow

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Lac du Bonnet, Manitoba

February 9, 2009

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CERTIFICATE of AUTHOR

I, Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P.Eng., P.Geo., do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with a field office at:

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   Lac du Bonnet, Manitoba, Canada R0E 1A0.

2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975. In addition, I earned an M.Sc. in geophysics and geochemistry from the University of Windsor and a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney) in 1982.

3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba. I am also a Fellow of the Association of Exploration (Applied) Geochemists, and a Member of the Prospectors and Developers Association of Canada. I am registered as a Professional Engineer (P.Eng.) and a Professional Geologist (P.Eng.) by the Association of Professional Engineers and Geoscientists of Manitoba (APEGM). I am registered as a Certified Professional Geologist (C.P.G.) by the American Association of Professional geologists (Westminster, Colorado, U.S.A.).

4. I have worked as a geologist for a total of thirty-three years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.

5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.

6. I am responsible for the preparation of the technical report titled " Results Of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on The Shell Creek Property of Logan Resources Ltd., Wernecke Mountains, Dawson Mining District, Yukon Territory, Canada"

7. I have not had prior involvement with the property that is the subject of the Technical Report.

8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

9. I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.

10. I consent to the filing of the Technical Report with any stock exchanges or other regulatory authority and any publication by them, including electronic publication in the public company files on the web-sites accessible by the public, of the Technical Report.

Dated this 9th Day of February, 2009.

SIGNED BY MARK FEDIKOW

__________________________.
Signature of Qualified Person

"M.A.F. Fedikow".
Print name of Qualified Person

APPENDIX 1

GRID_ID	.IELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
1	SCRS_1_08	1	Gentle to W, in forest	Moderate	Wet	A	4	Black	No
10	SCRS_10_08	10	Flat, base of mountain, next to creek,	Moderate	Damp/wet	A	3	Black	No
11	SCRS_11_08	11	Steep NW, deep forest	Well	Damp	A	3	Black	No
12	SCRS_12_08	12	Moderate slope W	Well	Damp	B	3	Grey	Yes
13	SCRS_13_08	13	Steep E, deep forest	Well	Damp	B	3	Brown	No
14	SCRS_14_08	14	Moderate slope SW	Well	Damp	B	2.5	Brown	No
15	SCRS_15_08	15	Moderate slope to SE, forest	Well	Damp	B	3	Brown	No
16	SCRS_16_08	16	Flat, deep forest, base of mountain, creek	Well	Damp	A	3	Black	No
17	SCRS_17_08	17	Steep to S, deep forest	Well	Damp	A	3	Black	Yes
18	SCRS_18_08	18	Gentle slope, many trees	Moderate	Damp	B	3	Brown	No
19	SCRS_19_08	19	Gentle slope W, many trees	Moderate	Damp	B	3	Dark brown	No
2	SCRS_2_08	2	Moderate slope to S, thick forest	Well	Damp	B	3	Brown	No
20	SCRS_20_08	20	Gentle slope, grass and tree covered	Well	Damp	B	3	Grey brown	Yes, 250m E
21	SCRS_21_08	21	Moderate slope to E and creek, grass and trees uderlain by broken rock	Well	Damp/dry	A	2	Dark brown	Yes, 250m E downhill at creek - limestone
22	SCRS_22_08	22	Moderate slope W, some trees	Well	Damp	A	3	Dark brown	Yes
23	SCRS_23_08	23	Moderate SE slope, grass covered, some	Well	Damp	A	2	Very dark brown	Yes, to SE on ridge
24	SCRS_24_08	24	Steep E facing slope, vegetation	Good	Moist	B	2	Light brown and	
25	SCRS_25_08	25	Moderate slope to W, near bottom of valley	Moderate	Soggy	B	4	Dark brown and	No
26	SCRS_26_08	26	Downward, NW, valley, some flowers	Well	Damp	B	3	Grey	No
27	SCRS_27_08	27	Steep slope S	Well	Damp	B	3	Dark brown	Yes, at 1m
28	SCRS_28_08	28	Slope S, few trees, lots of shale	Good	Moist	B	2	Black	No
29	SCRS_29_08	29	Grass and moss, 45deg slope N	Well	Damp	B	4	Grey	No
3	SCRS_3_08	3	Moderate slope to S, thick forest	Well	Damp	B	3	Grey brown	No
30	SCRS_30_08	30	Steep to S, very vegetated area	Good	Damp	B	4	Silvery grey	No
4	SCRS_4_08	4	Gentle to W, bottom valley	Moderate	Damp	B	4	Dark grey	No
43	SCRS_43_08	43	Moderate W slope	Well	Wet	B	3	Greyish brown	Yes
44	SCRS_44_08	44	Moderate W slope	Moderate	Wet	A	2	Black	No
45	SCRS_45_08	45	Steep W slope	Well	Dry	A	1	Brown	No
46	SCRS_46_08	46	Steep E slope	Well	Damp	A	2	Black	Yes
47	SCRS_47_08	47	Gentle	Moderate	Dry	A	2	Brown	Yes
48	SCRS_48_08	48	Steep W slope	Well	Dry	B	2	Brown	Yes
49	SCRS_49_08	49	Moderate SE slope	Well	Wet	B	3	Brown	No
5	SCRS_5_08	5	Moderate slope to N	Moderate	Damp	A	4	Black	No
51	SCRS_51_08	51	Steep slope W	Moderate	Damp	B	3	Dark - black	No
52	SCRS_52_08	52	Steep slope	Well	Dry	B	2	Dark Grey	Yes, lots
53	SCRS_53_08	53	Steep slope SE	Well	Dry	B	2	Dark	Yes, lots
54	SCRS_54_08	54	Steep slope S	Well to moderate	Dry/Damp	B	1	Dark Grey	Yes
6	SCRS_6_08	6	Steep slope to SW	Well	Damp	B	3	Dark brown	No
7	SCRS_7_08	7	Moderate to S, near top of hill	Well	Damp	B	3	Brown	No
8	SCRS_8_08	8	Steep slope to E	Well	Damp	B	3	Brown	Yes, at 40m
9	SCRS_9_08	9	Steep SW, deep forest	Well	Damp	A	3	Black	No
100	SCRS_100_08	100	Steep slope W	Well	Dry	B	3	Dark grey	Yes
101	SCRS_101_08	101	Steep slope N	Well	Dry	B	3	Dark grey	No
102	SCRS_102_08	102	Steep slope SE	Well	Dry	B	4	Light brown	No
103	SCRS_103_08	103	Steep slope E	Well	Dry	B	3	Dark brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
104	SCRS_104_08	104	Steep slope E	Poor	Wet	B	4	Dark brown	No
105	SCRS_105_08	105	Moderate slope to S, above creek, thick moss and spruce	Moderate	Damp	B	4	Dark grey to brown	No
106	SCRS_106_08	106	Top of small hill - flat area	Moderate	Damp	B	4	Creamy orangey light brown	No
114	SCRS_114_08	114	Moderate slope toN	Well	Damp	A	4	Black	No
115	SCRS_115_08	115	Flat, 5m from creek	Moderate	Wet	B	4	Grey with some orange brown	No
116	SCRS_116_08	116	Flat, top of hill	Moderate	Damp	B	3	Brown	No
117	SCRS_117_08	117	Flat, top pf hill	Well	Damp	B	2	Grey brown	No
118	SCRS_118_08	118	Moderate slope to E	Well	Damp	A	4	Black	No
119	SCRS_119_08	119	Moderate slope to W	Moderate	Damp	B	3	Grey	No
120	SCRS_120_08	120	Flat, on top of hill	Well	Damp	B	3	Brown	No
121	SCRS_121_08	121	Flat, 7m from creek	Moderate	Damp	B	4	Grey	No
122	SCRS_122_08	122	Flat forest	Moderate	Wet	B	2	Grey	No
123	SCRS_123_08	123	Gentle to E	Moderate	Wet	B	3	Grey brown	No
124	SCRS_124_08	124	Gentle slope to E, forest in valley	Moderate	Damp	B	2	Brown	No
125	SCRS_125_08	125	S facing slope, moss and trees	Well	Damp	A	2	Light brown	No
126	SCRS_126_08	126	Flat ridge with moss	Well	Damp	A	4	Light grey	No
127	SCRS_127_08	127	Flat	Moderate	Damp	B	2	Brown	Yes
128	SCRS_128_08	128	Gentle slope	Moderate	Damp	A	1	Brown	No
129	SCRS_129_08	129	Moderate slope	Well	Damp	A	2	Brown	No
130	SCRS_130_08	130	Gentle slope with a lot of trees	Well	Dry	A	1	Light brown	No
55	SCRS_55_08	55	Steep slope S	Moderate	Damp	B	3	Dark Grey	No
56	SCRS_56_08	56	Steep slope NE	Moderate	Damp	B	3	Dark Grey	No
57	SCRS_57_08	57	Steep slope W	Moderate	Damp	B	2	Dark brown	No
58	SCRS_58_08	58	Steep	Well	Damp	B	3	Grey	Yes
59	SCRS_59_08	59	Steep	Well	Damp	B	2	Grey	Yes
60	SCRS_60_08	60	Steep	Well	Damp	B	3	Brown, grey	Yes
61	SCRS_61_08	61	Steep	Well	Damp	B	2	Brown, grey	No
62	SCRS_62_08	62	Steep	Well	Damp	B	2	Grey	Yes
63	SCRS_63_08	63	Steep	Well	Damp	A	1	Brown	Yes
64	SCRS_64_08	64	Steep	Well	Damp	A	1	Brown	Yes
65	SCRS_65_08	65	Moderate	Well	Damp	A	1	Dark brown	Yes
66	SCRS_66_08	66	Steep	Well	Damp	B	2	Grey	Yes
68	SCRS_68_08	68	Moderate	Well	Damp	B	3	Grey brown	Yes
69	SCRS_69_08	69	Moderate	Well	Damp	B	3	Dark brown	No
70	SCRS_70_08	70	Gentle slope, trees	Moderate	Damp	A	2	Brown	No
71	SCRS_71_08	71	Flat, lots of trees	Poor	Damp	B	2	Grey brown	No
72	SCRS_72_08	72	Flat	Poor	Damp	A	2	Brown	No
73	SCRS_73_08	73	Flat	Moderate	Damp	B	3	Grey brown	No
74	SCRS_74_08	74	Very gentle, trees	Poor	Damp	A	2.5	Brown	No
75	SCRS_75_08	75	Flat, trees	Well	Wet	B	3	Grey	Yes
76	SCRS_76_08	76	Moss covered plateau, slight dip to N	Well	Wet/damp	B	3	Yellowish grey brown	No
77	SCRS_77_08	77	Very gentle E facing slope, beside small drainage channel, very dense vegetation	Well	Damp	B	3	Grey brown	No
78	SCRS_78_08	78	Moderate to steep W facing slope, spruce and moss underlain by boulders	Well	Damp	A	2	Black, hint of grey brown	No
79	SCRS_79_08	79	Top of ridge trending N-S, steep to E and W,	Well	Damp	B	4	Medium grey brown	Yes, along ridge

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
	SCRS_9104_08	9104	Steep slope E	Poor	Wet	B	4	Dark brown	No
98	SCRS_98_08	98	Steep slope W	Well	Dry	B	3	Dark grey	Yes
99	SCRS_99_08	99	Steep	Well	Dry	B	3	Light brown	No
	555_1_08	555108		Well	Damp	B	3	Grey	Yes, uphill
	555_2_08	555208		Well	Damp	B	1	Grey brown	
	555_3_08	555308		Well	Damp	B	1	Greyish yellowish brown	
	555_4_08	555408		Well	Damp	B	3	Brown	
	555_5_08	555508		Well	Damp	B	1	Dark brown	
	555_6_08	555608		Well	Damp	B	4	Brown	
	555_7_08	555708		Well	Damp	B	1	Medium to dark grey brown	
	555_8_08	555808		Well	Damp	B	2	Brown	
	555_91_08	5559108		Well	Damp	B	3	Grey	Yes, 50m S
110	SCRS_110_08	110	Gentle slope to NE	Well	Damp	B	3	Grey	No
111	SCRS_111_08	111	Flat valley	Well	Damp	B	4	Grey	No
112	SCRS_112_08	112	Flat, on a small ridge	Well	Damp	B	4	Grey	No
113	SCRS_113_08	113	Steep slope to NE	Well	Damp	B	2	Grey	Yes, at 40m
149	SCRS_149_08	149	Gentle slope to SW, top of hill	Moderate	Damp	B	3	Brown grey	No
150	SCRS_150_08	150	Moderate slope to SW	Well	Damp	A	4	Black	No
151	SCRS_151_08	151	Moderate slope to E, thick forest	Well	Damp	B	4	Grey brown	No
152	SCRS_152_08	152	Gentle slope to S in a valley, 20m from	Well	Damp	B	3	Grey	No
153	SCRS_153_08	153	Moderate slope to W	Moderate	Damp	B	2	Grey	No
154	SCRS_154_08	154	Flat, on a ridge	Well	Damp	B	3	Brown	Yes, at 15m
155	SCRS_155_08	155	Gentle slope to SW, top of hill	Well	Damp	B	3	Brown	No
156	SCRS_156_08	156	Moderate slope to N	Well	Damp	A	4	Black	No
157	SCRS_157_08	157	Gentle slope to N, 15m from creek	Moderate	Damp	A	4	Black	No
158	SCRS_158_08	158	Gentle slope to W	Moderate	Damp	B	4	Grey	No
170	SCRS_170_08	170	Gentle slope	Well	Dry	B	1	Grey	No
171	SCRS_171_08	171	Gentle slope	Moderate	Dry	A	1	Brown	Yes
172	SCRS_172_08	172	Moderate slope	Well	Damp	A	2	Brown	No
173	SCRS_173_08	173	Gentle slope to E	Well	Damp	B	3	Grey	No
174	SCRS_174_08	174	Moderate slope to SW	Well	Damp	B	2	Grey brown	Yes, at 30m
183	SCRS_183_08	183	Flat, lots of trees	Well	Damp	A	2	Black and brown	Yes
184	SCRS_184_08	184	Flat, trees	Moderate	Damp	A	2	Black and brown	Yes
185	SCRS_185_08	185	Flat	Moderate	Wet	B	2	Grey brown	Yes
186	SCRS_186_08	186	Gentle slope, trees	Well	Damp	B	2	Brown grey	Yes
187	SCRS_187_08	187	Moderate slope, trees	Well	Wet	A	2	Brown	No
188	SCRS_188_08	188	Flat, forest	Moderate	Damp	A	2	Brown	Yes
189	SCRS_189_08	189	Very gentle slope, trees	Well	Wet	B	3	Grey	No
199	SCRS_199_08	199	Gentle slope	Well	Damp	B	2	Brown	Yes
200	SCRS_200_08	200	Moderate slope	Well	Dry	A	2	Brown	Yes
201	SCRS_201_08	201	Steep	Well	Damp	A	2	Brown	No
202	SCRS_202_08	202	Moderate slope	Well	Damp	A	2	Dark brown	Yes
203	SCRS_203_08	203	Flat	Well	Damp	A	2	Brown	Yes
204	SCRS_204_08	204	Gentle slope	Moderate	Damp/dry	A	2	Brown black	No
205	SCRS_205_08	205	Gentle slope	Well	Damp	A	2	Brown	Yes
211	SCRS_211_08	211	Steep slope W	Well	Dry	A	1	Black	Yes
212	SCRS_212_08	212	Steep slope	Well	Dry	A	1	Black	Yes

GRID_ID	.ELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
213	SCRS_213_08	213	Steep slope NE	Well	Dry	B	4	Creamy brown	Yes
214	SCRS_214_08	214	Steep slope N	Well	Damp	B	3	Grey to black	Yes
215	SCRS_215_08	215	Steep slope NE	Well	Dry	B	3	Grey	Yes
216	SCRS_216_08	216	Steep slope S	Well	Dry	A	1	Light brown	No
217	SCRS_217_08	217	Moderate slope E	Moderate	Damp	A	1	Black	No
218	SCRS_218_08	218	Moderate slope NW	Moderate	Damp	A	1	Dark, black	No
219	SCRS_219_08	219	Moderate slope SW	Well	Dry	B	3	Dark grey	No
220	SCRS_220_08	220	Moderate slope SE	Well	Dry	B	4	Grey	No
221	SCRS_221_08	221	Moderate slope	Well	Dry	A	1	Orangey brown	No
222	SCRS_222_08	222	Flat	Moderate	Damp	B	4	Grey	No
229	SCRS_229_08	229	Moderate slope NE	Well	Damp	B	3	Brown	No
230	SCRS_230_08	230	Steep slope E, bushes and forest	Well	Damp	B	2.5	Grey brown	No
231	SCRS_231_08	231	Moderate slope W	Well	Damp	B	4	Brown grey	No
232	SCRS_232_08	232	Flat,ridge, bushes	Well	Dry	B	4	Light brown	No
233	SCRS_233_08	233	Steep slope SW, forest	Well	Dry	B	3	Light brown	No
234	SCRS_234_08	234	Flat, by creek, base of mountain	Poor	Damp/wet	B	4	Grey	No
235	SCRS_235_08	235	Gentle slope E, moss, forest	Well	Damp/wet	B	3	Grey	No
236	SCRS_236_08	236	Gentle slope W, moss, forest	Moderate	Damp	B	4	Grey	No
237	SCRS_237_08	237	Gentle slope E	Moderate	Damp/wet	B	3	Grey	No
238	SCRS_238_08	238	Flat, swampy, moss, forest	Moderate	Damp/wet	A	3	Black	No
239	SCRS_239_08	239	Flat, swampy	Moderate	Damp	B	4	Grey	No
244	SCRS_244_08	244	Gentle slope to NW	Moderate	Damp	B	3	Grey	No
245	SCRS_245_08	245	Flat valley	Well	Damp	A	4	Black	No
246	SCRS_246_08	246	Gentle slope to S	Well	Damp	B	3	Brown	No
247	SCRS_247_08	247	Moderate slope to S	Well	Damp	B	2	Brown	No
248	SCRS_248_08	248	Gentle slope to NW	Moderate	Wet	B	2	Grey	No
249	SCRS_249_08	249	Gentle slope to W, near top of hill	Well	Damp	B	2	Brown	No
250	SCRS_250_08	250	Gentle to E	Moderate	Damp	B	4	Grey	No
251	SCRS_251_08	251	Moderate slope to N	Moderate	Damp	B	4	Grey	No
252	SCRS_252_08	252	Flat	Moderate	Wet	B	4	Grey	No
253	SCRS_253_08	253	Gentle slope to E	Moderate	Damp	B	4	Grey	No
254	SCRS_254_08	254	Flat, near swamp	Poor	Wet	B	4	Grey	No
255	SCRS_255_08	255	Gentle slope to S	Moderate	Damp	B	3	Brown	No
277	SCRS_277_08	277	Moderate slope	Well	Damp	A	2	Brown	Yes
278	SCRS_278_08	278	Steep slope	Moderate	Damp	A	3	Dark brown	Yes
279	SCRS_279_08	279	Gentle	Moderate	Damp	B	2	Brown	Yes
280	SCRS_280_08	280	Flat	Well	Damp	A	3	Brown	No
281	SCRS_281_08	281	Gentle	Well	Damp	A	3	Brown	No
282	SCRS_282_08	282	Flat	Moderate	Wet	A	2	Brown black	No
283	SCRS_283_08	283	Flat, trees	Moderate	Wet	B	2	Brown	No
	5552_1_08	5552108		Moderate	Wet	B	3	Dark grey brown	
	5552_2_08	5552208		Moderate	Damp	B	1	Yellowish brown	
	5552_3_08	5552308		Well	Damp	B	2	Light yellowish brown	
	5552_4_08	5552408		Well	Damp	B	2	Brown	
	5552_5_08	5552508		Well	Damp	B	1	Dark grey brown	
	5552_6_08	5552608		Well	Damp	B	1	Brown	
	5552_7_08	5552708		Well	Damp	B	1	Light greyish brown	
	5552_8_08	5552808		Well	Damp	B	1	Light yellowish brown	
107	SCRS_107_08	107	Steep slope to NE	Moderate	Damp	B	2	Brown	No
108	SCRS_108_08	108	Moderate slopeto NW, 15m from creek	Well	Damp	B	2	Brown	No

GRID_ID	ELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
109	SCRS_109_08	109	Moderate slope to N	Moderate	Wet	B	2	Grey brown	No
190	SCRS_190_08	190	Steep slope SW	Well	Dry	B	3	Dark grey	No
191	SCRS_191_08	191	Flat, top of a hill	Well	Dry	B	4	Grey	No
192	SCRS_192_08	192	Steep slope	Well	Dry	B	3	Orangey brown	Yes
193	SCRS_193_08	193	Steep slope E	Well	Dry	A	1	Black	Yes
194	SCRS_194_08	194	Steep slope	Well	Dry	B	3	Dark grey	No
195	SCRS_195_08	195	Steep slope S	Well	Dry	B	3	Grey	Yes
196	SCRS_196_08	196	Steep slope SE	Well	Dry	B	3	Grey	Yes
197	SCRS_197_08	197	Steep slope W	Well	Dry	A	3	Dark grey	Yes
198	SCRS_198_08	198	Steep slope E	Well	Dry	A	1	Black	Yes
207	SCRS_207_08	207	Steep slope E	Well	Dry	A	1	Black	No
208	SCRS_208_08	208	Steep slope NW	Well	Dry	B	4	Brown to grey	No
209	SCRS_209_08	209	Flat, top of a hill	Well	Dry	B	4	Orangey brown	No
210	SCRS_210_08	210	Steep slope N	Well	Dry	B	4	Grey	No
223	SCRS_223_08	223	Steep slope NW	Well	Damp	A	3	Black	No
224	SCRS_224_08	224	Moderate slope W	Poor	Damp	B	3	Grey	No
225	SCRS_225_08	225	Steep slope W	Well	Damp	B	2	Orangey brown	No
226	SCRS_226_08	226	Steep slope W	Well	Damp	B	3	Brown to grey	No
227	SCRS_227_08	227	Steep slope SW	Well	Dry	B	3	Orangey brown	No
228	SCRS_228_08	228	Flat, top of a hill	Well	Damp/dry	B	3	Orangey grey	Yes
236	SCRS_236_08	236	Gentle slope W, moss, forest	Moderate	Damp	B	4	Grey	No
240	SCRS_240_08	240	Steep slope E	Well to moderate	Damp	A	1	Black	No
241	SCRS_241_08	241	Steep slope	Well	Damp	A	1	Black	No
242	SCRS_242_08	242	Steep slope N	Moderate	Damp	B	4	Orangey grey	No
243	SCRS_243_08	243	Steep slope NE	Moderate	Damp	B	4	Grey	No
257	SCRS_257_08	257	Gentle slope	Moderate	Wet	A	2	Brown	No
258	SCRS_258_08	258	Flat by the creek, swampy	Moderate	Damp/wet	A	3	Black	No
259	SCRS_259_08	259	Flat slope W, next to creek, forest	Moderate	Damp/wet	B	4	Dark grey	No
260	SCRS_260_08	260	Gentle slope SW, forest	Well	Damp	B	3	Grey	No
271	SCRS_271_08	271	Moderate slope	Well	Damp	A	2	Dark brown	Yes
272	SCRS_272_08	272	Gentle slope	Well	Damp	A	2	Brown	No
273	SCRS_273_08	273	Moderate slope	Well	Damp	A	2	Brown	Yes
274	SCRS_274_08	274	Flat, top of mountain	Moderate	Damp	A	2	Brown	Yes
275	SCRS_275_08	275	Moderate with trees	Well	Damp	A	2	Brown	Yes
276	SCRS_276_08	276	Flat	Well	Damp	B	3	Brown	Yes
284	SCRS_284_08	284	Slope	Well	Damp	B	3	Dark grey	No
285	SCRS_285_08	285	Steep slope W	Well	Damp	B	2.5	Grey	Yes
286	SCRS_286_08	286	Moderate slope N	Well	Damp	B	2	Brown	No
287	SCRS_287_08	287	Moderate slope SW, top of mountain	Well	Damp	B	3	Brown	Yes
288	SCRS_288_08	288	Steep slope E, forest	Well	Damp	A	3	Black	Yes
289	SCRS_289_08	289	Moderate slope N	Well	Damp	B	3	Brown	No
290	SCRS_290_08	290	Steep slope NE	Well	Damp	B	3	Brown	No
291	SCRS_291_08	291	Moderate slope W, forest	Moderate	Damp	B	3	Grey	No
292	SCRS_292_08	292	Gentle slope NE	Moderate	Damp	B	3	Grey	No
293	SCRS_293_08	293	Gentle slope E	Well	Damp	A	3	Black	No
294	SCRS_294_08	294	Flat, next to creek, base of mountain	Moderate	Damp	B	3	Grey	No
295	SCRS_295_08	295	Moderate slope to SW	Well	Damp	B	4	Grey brown	No
296	SCRS_296_08	296	Moderate slope to W	Well	Damp	A	4	Black	No
297	SCRS_297_08	297	Gentle slope to S	Well	Damp	A	4	Black	No
298	SCRS_298_08	298	Moderate slope to E	Well	Damp	B	3	Brown	No
299	SCRS_299_08	299	Gentle slope to SE	Well	Damp	B	4	Grey brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
300	SCRS_300_08	300	Flat valley,15m from creek	Moderate	Damp	B	4	Grey brown	No
301	SCRS_301_08	301	Moderate slope to SW	Well	Damp	B	4	Brown	Yes, at 15m
302	SCRS_302_08	302	Gentle slope to SE	Moderate	Damp	B	2	Grey	No
303	SCRS_303_08	303	Gentle slope to N	Well	Damp	B	4	Grey	No
304	SCRS_304_08	304	Gentle slope to NE, 10m from creek	Well	Damp	B	4	Grey	No
305	SCRS_305_08	305	Moderate slope to W	Well	Damp	B	4	Brown	No
306	SCRS_306_08	306	Flat, on top of hill	Well	Damp	B	3	Grey brown	No
307	SCRS_307_08	307	Flat, on a ridge	Well	Damp	B	4	Brown	Yes, at 20m
308	SCRS_308_08	308	Flat, next to creek, swampy	Moderate	Damp/wet	A	3	Black	No
309	SCRS_309_08	309	Moderate slope N	Well	Damp	B	3	Grey	No
310	SCRS_310_08	310	Moderate slope SW	Well	Damp	B	4	Grey brown	No
311	SCRS_311_08	311	Steep slope SE, forest	Well	Damp	B	2.5	Brown	No
312	SCRS_312_08	312	Gentle slope E, next to creek	Well	Damp	B	3	Grey	No
313	SCRS_313_08	313	Gentle slope NW	Well	Damp	B	2	Grey	Yes
50	SCRS_50_08	50	Moderate slope to SW	Well	Damp	B	2	Grey	No
67	SCRS_67_08	67	Gentle slope to N	Well	Damp	B	4	Light brown	No
	SCRS_9211_08	9211	Steep slope	Moderate	Damp	B	3	Grey to brown	No
131	SCRS_131_08	131	Steep hill NW togully. Grassy,underlain by	Well	Damp	B	3	Dark brown	Yes, just uphill
132	SCRS_132_08	132	Moderate slope SE to valley, just below	Well	Damp	B	2	Dark brown	Yes, S along ridge
133	SCRS_133_08	133	Very gentle slope N, forest	Well	Damp	A	3	Dark brown	No
134	SCRS_134_08	134	Very gentle slope W to creek	Well	Damp	B	3	Medium grey brown	No
135	SCRS_135_08	135	Moderate NE slope, just above dense	Well	Damp	B	2	Grey	Yes, limeston OC
136	SCRS_136_08	136	Gentle slope SE, forest	Well	Damp	B	4	Light brown	No
137	SCRS_137_08	137	Moderate slope W, forest	Well	Damp	B	4	Dark grey	No
138	SCRS_138_08	138	Gentle slope N	Moderate	Damp	B	3	Grey brown	No
139	SCRS_139_08	139	Gentle slope N	Moderate	Damp/wet	B	4	Grey	No
140	SCRS_140_08	140	Gentle slope NW	Well	Damp	B	3	Grey	No
141	SCRS_141_08	141	Gentle slope E	Well	Damp	B	4	Brown	No
142	SCRS_142_08	142	Moderate slope W	Well	Damp	B	4	Dark grey	Yes
143	SCRS_143_08	143	Gentle slope N	Well	Damp	B	3	Brown grey	No
144	SCRS_144_08	144	Flat, swampy	Poor	Wet	B	3	Dark grey	No
145	SCRS_145_08	145	flat, bushes	Moderate	Damp/wet	B	4	Brown	No
146	SCRS_146_08	146	Flat, small bushes	Well	Damp	B	4	Light brown	No
147	SCRS_147_08	147	Flat, small bushes	Well	Damp	B	4	Brown grey	No
148	SCRS_148_08	148	Moderate slope	Moderate	Damp	B	2	Grey brown	No
159	SCRS_159_08	159	Steep slope E	Well	Dry	A	2	Brown	Yes
160	SCRS_160_08	160	Steep slope W	Well	Dry	A	1	Orangey brown	Yes
161	SCRS_161_08	161	Flat	Well	Dry	B	4	Grey	No
162	SCRS_162_08	162	Moderate slope N	Well	Dry	A	1	Black	No
163	SCRS_163_08	163	Moderate slope N	Well	Dry	A	1	Dark	No
164	SCRS_164_08	164	Moderate slope E	Well	Dry	B	3	Grey	No
165	SCRS_165_08	165	Moderate slope E	Well	Dry	A	1	Black	No
166	SCRS_166_08	166	Moderate slope NE	Well	Dry	A	1	Orangey brown	No
167	SCRS_167_08	167	Moderate slope SW	Moderate	Damp	B	4	Grey	No
168	SCRS_168_08	168	Pretty flat	Well	Dry	A	3	Dark	No
169	SCRS_169_08	169	Moderate slope N	Well	Dry	A	3	Dark brown	No
175	SCRS_175_08	175	Steep S, cliffs	Well	Damp/dry	B	3	Brown	Yes
176	SCRS_176_08	176	Steep W, forest	Well	Damp	B	1	Grey	No
177	SCRS_177_08	177	Moderate slope E, ridge	Well	Damp	B	2.5	Dark brown	Yes
178	SCRS_178_08	178	Moderate slope W	Well	Damp	B	3	Light brown	No
179	SCRS_179_08	179	Gentle slope NE	Well	Damp/dry	B	3	Light brown	No
180	SCRS_180_08	180	Flat, slope towards creek 40m SW	Well	Damp	B	2.5	Light brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
181	SCRS_181_08	181	Flat, swampy, next to creek	Moderate	Damp/wet	B	3	Grey	No
182	SCRS_182_08	182	Gentle slope W	Well	Damp	B	3	Light brown	No
206	SCRS_206_08	206	Flat, swampy area	Poor	Wet	B	4	Brown	No
261	SCRS_261_08	261	Steep slope S	Well	Dry	A	1	Brown to black	Yes
262	SCRS_262_08	262	Moderate slope W	Well	Dry	A	1	Dark brown	No
263	SCRS_263_08	263	Steep slope NE	Well	Dry	A	1	Brown to black	No
264	SCRS_264_08	264	Flat	Well	Damp/dry	A	1	Black	No
265	SCRS_265_08	265	Steep slope NW	Well	Damp	A	1	Black	No
266	SCRS_266_08	266	Moderate slope S	Well	Dry	A	1	Black	No
267	SCRS_267_08	267	Steep slope E	Well	Dry	A	1	Black	No
268	SCRS_268_08	268	Moderate slope NE	Well	Damp/dry	A	1	Black	No
269	SCRS_269_08	269	Flat, next to lake	Poor	Damp	B	4	Grey	No
270	SCRS_270_08	270	Moderate slope S	Moderate	Damp/dry	B	4	Grey	No
31	SCRS_31_08	31	Ridge	Well	Damp	B	4	Grey	Yes
32	SCRS_32_08	32	Ridge	Well	Damp	B	3.5	Brown	Yes
33	SCRS_33_08	33	Ridge	Well	Damp	B	2	Dark grey	Yes
34	SCRS_34_08	34	Steep SE, forest begins here	Well	Damp	A	3	Black	Yes
35	SCRS_35_08	35	Steep S, deep forest	Well	Damp	B	3	Dark brown	Yes
36	SCRS_36_08	36	Moderate slope W, forest	Moderate	Damp	B	1	Grey	Yes
37	SCRS_37_08	37	Steep W, giant gully between two mountains	Well	Damp	B	2	Bluish grey	Yes
38	SCRS_38_08	38	Moderate slope N	Well	Damp	B	3	Dark grey	No
39	SCRS_39_08	39	Steep NW, forest	Well	Damp	B		Dark grey	Yes
40	SCRS_40_08	40	Moderate slope W	Well	Damp	B	2	Grey	No
41	SCRS_41_08	41	Steep NE, shales, small boulders	Well	Damp	A	3	Black	Yes
42	SCRS_42_08	42	Flat, plateau on ridge	Well	Damp	A	3	Black	Yes
80	SCRS_80_08	80	Flat	Well	Damp	B	2	Grey	Yes
81	SCRS_81_08	81	Steep	Well	Damp	B	2	Grey	Yes
82	SCRS_82_08	82	Steep	Well	Damp	B	3	Grey	Yes
83	SCRS_83_08	83	Steep	Well	Damp	B	2	Brown	Yes
84	SCRS_84_08	84	Flat	Well	Damp	B	3	Grey, brown	Yes
85	SCRS_85_08	85	Steep	Well	Damp	B	2	Brown	Yes
86	SCRS_86_08	86	Steep	Well	Damp	B	2	Brown	Yes
87	SCRS_87_08	87	Steep	Well	Damp	B	2	Brown	Yes
88	SCRS_88_08	88	Steep	Well	Wet	B	3	Grey	Yes
89	SCRS_89_08	89	Moderate	Well	Damp	B	3	Grey	Yes
90	SCRS_90_08	90	Steep slope to SW	Well	Damp	A	3	Black	No
91	SCRS_91_08	91	Moderate slope to E	Well	Damp	A	3	Black	No
92	SCRS_92_08	92	Moderate slope to N	Well	Damp	A	4	Black	No
93	SCRS_93_08	93	Moderate slope to E	Well	Damp	A	4	Black	No
94	SCRS_94_08	94	Moderate slope to N	Well	Damp	B	4	Grey	No
95	SCRS_95_08	95	Moderate slope to E	Well	Damp	A	4	Black	No
96	SCRS_96_08	96	Gentle slope to W, 30m from creek	Moderate	Damp	B	3	Grey	No
967	SCRS_967_08	967	Moderate slope to E	Well	Damp	B	3	Grey	No
968	SCRS_968_08	968	Moderate slope to W	Well	Damp	B	3	Grey	No
97	SCRS_97_08	97	Flat	Well	Damp	B	4	Grey	No
	SCRS_980_08	980	Steep	Well	Damp	B	3	Grey	Yes

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
1	SCRS_1_08		Thomas	7156557.14	534765.26	TO102352	SCRS_1_08	0.5	24
10	SCRS_10_08		Kevin	7157539.63	534692.87	TO102352	SCRS_10_08	0.5	1
11	SCRS_11_08		Kevin	7157635.29	535287.86	TO102352	SCRS_11_08	0.5	43
12	SCRS_12_08		Kevin	7157540.75	535789.89	TO102352	SCRS_12_08	1	110
13	SCRS_13_08		Kevin	7158083.80	533897.12	TO102352	SCRS_13_08	0.5	0.5
14	SCRS_14_08		Kevin	7158038.69	534321.02	TO102352	SCRS_14_08	8	0.5
15	SCRS_15_08		Kevin	7157959.75	534759.18	TO102352	SCRS_15_08	7	0.5
16	SCRS_16_08		Kevin	7158026.62	535160.48	TO102352	SCRS_16_08	0.5	25
17	SCRS_17_08		Kevin	7157959.29	535762.59	TO102352	SCRS_17_08	0.5	17
18	SCRS_18_08		Sarah	7158544.74	533754.00	TO102352	SCRS_18_08	3	0.5
19	SCRS_19_08		Sarah	7158551.15	534257.40	TO102352	SCRS_19_08	3	42
2	SCRS_2_08		Thomas	7156569.46	535244.57	TO102352	SCRS_2_08	10	23
20	SCRS_20_08		Sarah	7158554.84	534767.54	TO102352	SCRS_20_08	11	53
21	SCRS_21_08		Sarah	7158543.44	535226.04	TO102352	SCRS_21_08	0.5	24
22	SCRS_22_08		Sarah	7158555.67	535756.77	TO102352	SCRS_22_08	0.5	47
23	SCRS_23_08		Sarah	7158550.87	536241.93	TO102352	SCRS_23_08	0.5	49
24	SCRS_24_08	Clay	Bronwyn	7159059.20	533747.02	TO102352	SCRS_24_08	9	19
25	SCRS_25_08	Clay	Bronwyn	7159037.36	534275.64	TO102352	SCRS_25_08	12	15
26	SCRS_26_08	Fairly rocky with lots of heavy moss, grey clay, small creek a few metres away	Bronwyn	7159015.26	534768.89	TO102352	SCRS_26_08	1	33
27	SCRS_27_08	Clay	Bronwyn	7159048.68	535258.44	TO102352	SCRS_27_08	17	13
28	SCRS_28_08	Silty dirt	Bronwyn	7159053.55	535714.89	TO102352	SCRS_28_08	0.5	14
29	SCRS_29_08	Clay	Bronwyn	7159039.17	536262.89	TO102352	SCRS_29_08	10	35
3	SCRS_3_08		Thomas	7157046.78	533764.43	TO102352	SCRS_3_08	18	17
30	SCRS_30_08	Clay	Bronwyn	7159592.25	534243.14	TO102352	SCRS_30_08	4	27
4	SCRS_4_08	Some permafrost	Thomas	7157059.01	534243.64	TO102352	SCRS_4_08	3	43
43	SCRS_43_08	Big OC 150m E, very good sample, big trees	Archie	7160532.24	533243.13	TO102352	SCRS_43_08	0.5	31
44	SCRS_44_08	Big trees, vegetation thick	Archie	7160548.84	533756.88	TO102352	SCRS_44_08	0.5	64
45	SCRS_45_08	Boulder field, trees starting to grow	Archie	7160536.86	534256.19	TO102352	SCRS_45_08	2	11
46	SCRS_46_08	Boulder field, sample taken on OC, black soil	Archie	7160571.74	534744.61	TO102352	SCRS_46_08	0.5	18
47	SCRS_47_08	Beside creek, 10m, Vegetation is thick, big	Archie	7160541.96	535252.60	TO102352	SCRS_47_08	0.5	60
48	SCRS_48_08	Boulder field	Archie	7160540.64	535786.72	TO102352	SCRS_48_08	45	12
49	SCRS_49_08	Very bushy	Archie	7161050.83	532757.57	TO102352	SCRS_49_08	2	26
5	SCRS_5_08		Thomas	7157019.28	534714.20	TO102352	SCRS_5_08	0.5	34
51	SCRS_51_08	Spruce and lots of deadwood	Phil	7161100.90	533778.64	TO102352	SCRS_51_08	0.5	27
52	SCRS_52_08	Hard to get sample	Phil	7161027.66	534297.44	TO102352	SCRS_52_08	10	15
53	SCRS_53_08	Really steep, some spruce, can't find really	Phil	7161066.83	534712.29	TO102352	SCRS_53_08	8	64
54	SCRS_54_08	Lots of rock and trees, hard to find sample without roots.	Phil	7161568.11	532303.25	TO102352	SCRS_54_08	6	41
6	SCRS_6_08		Thomas	7157058.72	535259.79	TO102352	SCRS_6_08	0.5	15
7	SCRS_7_08		Thomas	7157564.86	533323.74	TO102352	SCRS_7_08	30	11
8	SCRS_8_08		Thomas	7157576.18	533705.83	TO102352	SCRS_8_08	13	35
9	SCRS_9_08		Kevin	7157586.99	534283.30	TO102352	SCRS_9_08	0.5	4
100	SCRS_100_08	Lots of rocks, hard to find sample	Phil and Daithi	7164042.21	530238.99	TO102353	SCRS_100_08	2	170
101	SCRS_101_08	Spruce, permafrost, lots of gravel	Phil and Daithi	7164090.51	530738.16	TO102353	SCRS_101_08	4	177
102	SCRS_102_08	Permafrost, creek above	Phil and Daithi	7164078.42	531233.61	TO102353	SCRS_102_08	16	201
103	SCRS_103_08	Above fast-going creek, permafrost	Phil and Daithi	7164079.38	531723.74	TO102353	SCRS_103_08	2	77

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
104	SCRS_104_08	2 samples at this point	Phil and Daithi	7164063.71	532218.90	TO102353	SCRS_104_08	11	109
105	SCRS_105_08	Thick moss cover, soil moisture almost wet	Phil and Daithi	7164079.23	532712.07	TO102353	SCRS_105_08	1	40
106	SCRS_106_08	Good sample, dense clay, not much stones or chips	Phil and Daithi	7164057.12	533251.41	TO102353	SCRS_106_08	5	187
114	SCRS_114_08		Thomas	7164520.13	526311.29	TO102353	SCRS_114_08	0.5	48
115	SCRS_115_08	Some permafrost	Thomas	7164571.99	526736.48	TO102353	SCRS_115_08	10	59
116	SCRS_116_08		Thomas	7164567.63	527240.56	TO102353	SCRS_116_08	6	204
117	SCRS_117_08		Thomas	7164587.39	527753.64	TO102353	SCRS_117_08	3	154
118	SCRS_118_08		Thomas	7164588.99	528256.77	TO102353	SCRS_118_08	0.5	16
119	SCRS_119_08	Really thick layer of moss	Thomas	7164548.13	528753.36	TO102353	SCRS_119_08	2	68
120	SCRS_120_08		Thomas	7164555.27	529241.69	TO102353	SCRS_120_08	5	172
121	SCRS_121_08		Thomas	7164539.39	529758.83	TO102353	SCRS_121_08	0.5	80
122	SCRS_122_08		Thomas	7164539.13	530252.94	TO102353	SCRS_122_08	12	225
123	SCRS_123_08		Thomas	7164575.38	530721.14	TO102353	SCRS_123_08	5	82
124	SCRS_124_08		Thomas	7164519.91	531196.69	TO102353	SCRS_124_08	9	196
125	SCRS_125_08	Fairly rocky, very silty	Bronwyn	7164545.04	531748.96	TO102353	SCRS_125_08	2	251
126	SCRS_126_08	Clay	Bronwyn	7164563.11	532265.90	TO102353	SCRS_126_08	10	250
127	SCRS_127_08		Lukas	7165035.62	519756.33	TO102353	SCRS_127_08	0.5	17
128	SCRS_128_08		Lukas	7165137.40	520232.43	TO102353	SCRS_128_08	3	109
129	SCRS_129_08		Lukas	7165056.74	520692.45	TO102353	SCRS_129_08	3	11
130	SCRS_130_08		Lukas	7165094.08	521261.52	TO102353	SCRS_130_08	16	267
55	SCRS_55_08	Dead trees around	Phil	7161525.79	532804.40	TO102353	SCRS_55_08	8	19
56	SCRS_56_08	Leafy trees	Phil	7161599.40	533228.08	TO102353	SCRS_56_08	3	27
57	SCRS_57_08	Can't find good clay, creek above, spruce everywhere	Phil	7161542.01	533689.36	TO102353	SCRS_57_08	2	46
58	SCRS_58_08	Cliffs, trees	Tubs	7162129.20	531799.17	TO102353	SCRS_58_08	7	35
59	SCRS_59_08	Trees	Tubs	7162069.02	532257.26	TO102353	SCRS_59_08	31	18
60	SCRS_60_08	Trees	Tubs	7162051.16	532752.09	TO102353	SCRS_60_08	5	32
61	SCRS_61_08	Trees, willows	Tubs	7162045.07	533252.55	TO102353	SCRS_61_08	4	185
62	SCRS_62_08	Trees, willows	Tubs	7162563.34	530274.16	TO102353	SCRS_62_08	3	58
63	SCRS_63_08	Cliffs, trees	Tubs	7162569.93	530747.11	TO102353	SCRS_63_08	1	69
64	SCRS_64_08	Vegetation, boulders	Tubs	7162592.41	531250.04	TO102353	SCRS_64_08	2	35
65	SCRS_65_08	Cliffs, trees	Tubs	7162539.53	531743.93	TO102353	SCRS_65_08	2	28
66	SCRS_66_08	Trees, willows	Tubs	7162544.99	532210.07	TO102353	SCRS_66_08	1	57
68	SCRS_68_08	Small sample	Lukas	7163062.00	528753.00	TO102353	SCRS_68_08	18	29
69	SCRS_69_08	Small sample	Lukas	7163062.72	529273.87	TO102353	SCRS_69_08	4	37
70	SCRS_70_08	Small sample	Lukas	7163080.40	529777.45	TO102353	SCRS_70_08	2	19
71	SCRS_71_08	Small sample	Lukas	7163042.33	530296.11	TO102353	SCRS_71_08	2	74
72	SCRS_72_08	Small sample	Lukas	7163047.59	530761.18	TO102353	SCRS_72_08	5	38
73	SCRS_73_08	Small sample	Lukas	7163052.20	531257.40	TO102353	SCRS_73_08	2	74
74	SCRS_74_08	Small sample	Lukas	7163053.23	531742.66	TO102353	SCRS_74_08	1	43
75	SCRS_75_08	Small sample	Lukas	7163045.43	532253.93	TO102353	SCRS_75_08	42	26
76	SCRS_76_08	Good clay, some organic matter and a few rock chips, some of which are rusty	Sarah	7163548.94	526246.03	TO102353	SCRS_76_08	3	88
77	SCRS_77_08		Sarah	7163548.13	526757.65	TO102353	SCRS_77_08	20	44
78	SCRS_78_08	Lots of organic matter and rootlets in sample, some decent clay though	Sarah	7163548.07	527252.11	TO102353	SCRS_78_08	2	58
79	SCRS_79_08	Good clay sample	Sarah	7163560.07	527653.48	TO102353	SCRS_79_08	11	84

GRID_ID	.ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
	SCRS_9104_08	2 samples at this point	Phil and Daithi	7164063.71	532218.90	TO102353	SCRS_9104_08	6	103
98	SCRS_98_08		Phil and Daithi	7164060.00	529250.00	TO102353	SCRS_98_08	6	53
99	SCRS_99_08	Roots, lots of small trees, creek above	Phil and Daithi	7164052.00	529754.00	TO102353	SCRS_99_08	0.5	115
	555_1_08		Sarah	7162754.81	528950.19	TO102355	555_1_08	16	13
	555_2_08	Very poor sample	Sarah	7162777.67	528952.45	TO102355	555_2_08	8	194
	555_3_08	Very poor sample	Sarah	7162803.94	528948.28	TO102355	555_3_08	35	155
	555_4_08		Sarah	7162827.31	528943.44	TO102355	555_4_08	2	271
	555_5_08	Poor sample, lots of grit and chips	Sarah	7162852.34	528939.09	TO102355	555_5_08	5	103
	555_6_08		Sarah	7162877.10	528934.60	TO102355	555_6_08	24	201
	555_7_08		Sarah	7162899.79	528931.15	TO102355	555_7_08	6	120
	555_8_08		Sarah	7162925.64	528926.71	TO102355	555_8_08	2	272
	555_91_08		Sarah	7162753.00	528957.13	TO102355	555_91_08	12	7
110	SCRS_110_08		Thomas	7164562.59	524230.06	TO102355	SCRS_110_08	0.5	28
111	SCRS_111_08		Thomas	7164588.60	524754.83	TO102355	SCRS_111_08	4	74
112	SCRS_112_08		Thomas	7164564.94	525238.73	TO102355	SCRS_112_08	1	72
113	SCRS_113_08		Thomas	7164503.79	525714.26	TO102355	SCRS_113_08	12	3
149	SCRS_149_08		Thomas	7165525.38	520786.66	TO102355	SCRS_149_08	26	9
150	SCRS_150_08		Thomas	7165612.99	521236.76	TO102355	SCRS_150_08	0.5	20
151	SCRS_151_08		Thomas	7165542.66	521747.91	TO102355	SCRS_151_08	4	16
152	SCRS_152_08		Thomas	7165544.66	522258.21	TO102355	SCRS_152_08	1	118
153	SCRS_153_08	Horizon partially frozen	Thomas	7165562.98	522769.55	TO102355	SCRS_153_08	9	37
154	SCRS_154_08		Thomas	7165629.43	523246.49	TO102355	SCRS_154_08	3	239
155	SCRS_155_08		Thomas	7165563.70	523747.68	TO102355	SCRS_155_08	91	12
156	SCRS_156_08		Thomas	7165563.50	524247.95	TO102355	SCRS_156_08	0.5	21
157	SCRS_157_08		Thomas	7165581.68	524736.28	TO102355	SCRS_157_08	11	40
158	SCRS_158_08		Thomas	7165565.43	525246.93	TO102355	SCRS_158_08	1	38
170	SCRS_170_08		Lukas	7166078.49	520282.44	TO102355	SCRS_170_08	2	126
171	SCRS_171_08		Lukas	7165948.40	520724.77	TO102355	SCRS_171_08	0.5	6
172	SCRS_172_08		Lukas	7165968.05	521067.01	TO102355	SCRS_172_08	0.5	18
173	SCRS_173_08		Thomas	7166159.22	521798.05	TO102355	SCRS_173_08	12	21
174	SCRS_174_08		Thomas	7166024.74	522187.49	TO102355	SCRS_174_08	4	76
183	SCRS_183_08		Lukas	7166044.34	526789.87	TO102355	SCRS_183_08	0.5	274
184	SCRS_184_08		Lukas	7166076.99	527244.79	TO102355	SCRS_184_08	0.5	200
185	SCRS_185_08		Lukas	7166014.53	527755.68	TO102355	SCRS_185_08	9	136
186	SCRS_186_08		Lukas	7166030.63	528201.35	TO102355	SCRS_186_08	0.5	239
187	SCRS_187_08		Lukas	7166042.13	528807.26	TO102355	SCRS_187_08	3	22
188	SCRS_188_08		Lukas	7166016.97	529245.90	TO102355	SCRS_188_08	0.5	91
189	SCRS_189_08		Lukas	7166097.24	529737.87	TO102355	SCRS_189_08	12	236
199	SCRS_199_08		Lukas	7166606.69	525384.68	TO102355	SCRS_199_08	2	300
200	SCRS_200_08		Lukas	7166512.06	525763.52	TO102355	SCRS_200_08	0.5	239
201	SCRS_201_08	Hard to find a good sample here	Lukas	7166550.22	526223.61	TO102355	SCRS_201_08	0.5	167
202	SCRS_202_08		Lukas	7166534.45	526702.42	TO102355	SCRS_202_08	0.5	241
203	SCRS_203_08		Lukas	7166529.04	527233.44	TO102355	SCRS_203_08	4	274
204	SCRS_204_08		Lukas	7166535.03	527698.68	TO102355	SCRS_204_08	3	196
205	SCRS_205_08		Lukas	7166549.92	528277.24	TO102355	SCRS_205_08	0.5	47
211	SCRS_211_08	Organic rich, small leafy trees, moss	Phil	7167001.89	523315.08	TO102355	SCRS_211_08	0.5	201
212	SCRS_212_08	Some moss, lots of rock, no trees	Phil	7166982.24	523799.00	TO102355	SCRS_212_08	1	43

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
213	SCRS_213_08	Moss, small spruce, flowers	Phil	7167018.43	524274.33	TO102355	SCRS_213_08	21	24
214	SCRS_214_08	Moss, leafy trees, small spruce	Phil	7167027.74	524796.70	TO102355	SCRS_214_08	4	67
215	SCRS_215_08	Lots of rock, soe moss, small spruce	Phil	7167110.17	525246.84	TO102355	SCRS_215_08	0.5	196
216	SCRS_216_08	Organic rich, leafy trees, spruce, moss, rock	Phil	7167081.14	525803.36	TO102355	SCRS_216_08	1	112
217	SCRS_217_08	Organic rich, spruce, moss	Phil	7167091.61	526266.09	TO102355	SCRS_217_08	0.5	14
218	SCRS_218_08	Organic rich, moss, leafy trees, spruce	Phil	7167075.99	526764.58	TO102355	SCRS_218_08	20	232
219	SCRS_219_08	Organic rich, moss, leafy trees, spruce	Phil	7167106.94	527251.21	TO102355	SCRS_219_08	0.5	300
220	SCRS_220_08	Dry clay, leafy trees, spruce	Phil	7167091.60	527710.72	TO102355	SCRS_220_08	4	176
221	SCRS_221_08	Organic rich, moss, small spruce	Phil	7167044.64	528298.44	TO102355	SCRS_221_08	2	297
222	SCRS_222_08	Creek above, moss, small spruce	Phil	7167104.83	528752.51	TO102355	SCRS_222_08	26	50
229	SCRS_229_08		Kevin	7167469.54	524277.57	TO102355	SCRS_229_08	2	266
230	SCRS_230_08		Kevin	7167421.47	524652.16	TO102355	SCRS_230_08	0.5	183
231	SCRS_231_08		Kevin	7167415.70	525251.45	TO102355	SCRS_231_08	0.5	172
232	SCRS_232_08		Kevin	7167602.04	525763.81	TO102355	SCRS_232_08	0.5	265
233	SCRS_233_08		Kevin	7167711.27	526340.43	TO102355	SCRS_233_08	1	300
234	SCRS_234_08		Kevin	7167558.15	526766.13	TO102355	SCRS_234_08	0.5	22
235	SCRS_235_08		Kevin	7167639.72	527272.85	TO102355	SCRS_235_08	5	58
236	SCRS_236_08		Kevin	7167604.77	527705.37	TO102355	SCRS_236_08	26	43
237	SCRS_237_08		Kevin	7167455.21	528217.95	TO102355	SCRS_237_08	9	45
238	SCRS_238_08	Deep A horizon, then permafrost	Kevin	7167531.50	528666.36	TO102355	SCRS_238_08	0.5	59
239	SCRS_239_08		Kevin	7167667.35	529036.67	TO102355	SCRS_239_08	3	23
244	SCRS_244_08		Thomas	7168101.78	523771.86	TO102355	SCRS_244_08	19	72
245	SCRS_245_08		Thomas	7168137.74	524262.74	TO102355	SCRS_245_08	0.5	75
246	SCRS_246_08		Thomas	7168100.11	524762.16	TO102355	SCRS_246_08	5	203
247	SCRS_247_08		Thomas	7168057.35	525232.55	TO102355	SCRS_247_08	7	208
248	SCRS_248_08		Thomas	7168003.98	525756.22	TO102355	SCRS_248_08	11	111
249	SCRS_249_08		Thomas	7167979.76	526254.75	TO102355	SCRS_249_08	2	105
250	SCRS_250_08		Thomas	7167978.34	526772.81	TO102355	SCRS_250_08	4	41
251	SCRS_251_08		Thomas	7167990.63	527227.71	TO102355	SCRS_251_08	3	30
252	SCRS_252_08		Thomas	7168024.55	527753.50	TO102355	SCRS_252_08	12	44
253	SCRS_253_08		Thomas	7168045.80	528251.45	TO102355	SCRS_253_08	2	44
254	SCRS_254_08		Thomas	7168067.50	528757.19	TO102355	SCRS_254_08	25	35
255	SCRS_255_08		Thomas	7168094.47	529255.92	TO102355	SCRS_255_08	1	156
277	SCRS_277_08		Lukas	7169024.64	525274.31	TO102355	SCRS_277_08	0.5	79
278	SCRS_278_08		Lukas	7169060.01	525679.56	TO102355	SCRS_278_08	3	45
279	SCRS_279_08		Lukas	7168955.80	526237.12	TO102355	SCRS_279_08	1	49
280	SCRS_280_08		Lukas	7169097.25	526799.13	TO102355	SCRS_280_08	2	39
281	SCRS_281_08		Lukas	7169088.26	527257.47	TO102355	SCRS_281_08	0.5	34
282	SCRS_282_08		Lukas	7169009.52	527744.12	TO102355	SCRS_282_08	90	17
283	SCRS_283_08		Lukas	7169004.65	528224.14	TO102355	SCRS_283_08	0.5	88
	5552_1_08		Sarah	7162744.94	528980.66	TO102356	5552_1_08	0.5	34
	5552_2_08		Sarah	7162771.49	528978.86	TO102356	5552_2_08	6	174
	5552_3_08		Sarah	7162797.48	528978.20	TO102356	5552_3_08	3	258
	5552_4_08		Sarah	7162822.26	528976.53	TO102356	5552_4_08	10	254
	5552_5_08		Sarah	7162844.68	528975.50	TO102356	5552_5_08	0.5	158
	5552_6_08		Sarah	7162872.00	528975.47	TO102356	5552_6_08	2	212
	5552_7_08		Sarah	7162897.63	528974.28	TO102356	5552_7_08	0.5	191
	5552_8_08		Sarah	7162924.16	528974.11	TO102356	5552_8_08	3	278
107	SCRS_107_08	Thick moss layer	Thomas	7164579.17	520272.25	TO102356	SCRS_107_08	13	210
108	SCRS_108_08		Thomas	7164577.56	520794.25	TO102356	SCRS_108_08	19	100

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
109	SCRS_109_08		Thomas	7164534.76	521218.24	TO102356	SCRS_109_08	33	57
190	SCRS_190_08	Organic rich, leafy trees, spruce, moss	Phil	7166528.00	520811.31	TO102356	SCRS_190_08	13	3
191	SCRS_191_08	Leafy trees, moss, spruce	Phil	7166591.40	521282.45	TO102356	SCRS_191_08	0.5	90
192	SCRS_192_08	Organic rich, leafy trees, spruce, moss	Phil	7166644.50	521776.28	TO102356	SCRS_192_08	2	300
193	SCRS_193_08	Organic rich, leafy trees, spruce, moss	Phil	7166477.40	522249.97	TO102356	SCRS_193_08	0.5	19
194	SCRS_194_08	Organic rich, leafy trees, spruce, moss	Phil	7166488.88	522776.92	TO102356	SCRS_194_08	0.5	154
195	SCRS_195_08	Lots of rock, some moss	Phil	7166584.53	523286.28	TO102356	SCRS_195_08	7	275
196	SCRS_196_08	Moss, small leafy trees	Phil	7166563.02	523816.85	TO102356	SCRS_196_08	2	298
197	SCRS_197_08	Lots of rock, some moss	Phil	7166542.68	524214.45	TO102356	SCRS_197_08	106	6
198	SCRS_198_08	Organic rich, moss, spruce	Phil	7166634.16	524727.37	TO102356	SCRS_198_08	0.5	58
207	SCRS_207_08	Organic rich, leafy trees, spruce, moss	Phil	7167059.88	521173.09	TO102356	SCRS_207_08	3	28
208	SCRS_208_08	Moss, leafy trees	Phil	7167110.49	521739.92	TO102356	SCRS_208_08	6	137
209	SCRS_209_08	Moss	Phil	7166999.04	522223.59	TO102356	SCRS_209_08	2	256
210	SCRS_210_08	Leafy trees, moss, spruce	Phil	7167052.00	522653.00	TO102356	SCRS_210_08	3	252
223	SCRS_223_08	Organic rich, moss, spruce, leafy trees	Phil	7167572.86	521295.50	TO102356	SCRS_223_08	0.5	40
224	SCRS_224_08	Organic rich, moss, spruce, leafy trees	Phil	7167606.27	521774.33	TO102356	SCRS_224_08	4	163
225	SCRS_225_08	Organic rich, moss, spruce, leafy trees	Phil	7167486.72	522304.03	TO102356	SCRS_225_08	7	218
226	SCRS_226_08	Organic rich, moss, spruce, leafy trees	Phil	7167534.00	522815.00	TO102356	SCRS_226_08	2	109
227	SCRS_227_08	Leafy trees,spruce,moss	Phil	7167481.75	523282.49	TO102356	SCRS_227_08	0.5	95
228	SCRS_228_08	Small spruce, moss	Phil	7167496.51	523737.44	TO102356	SCRS_228_08	3	217
236	SCRS_236_08		Kevin	7167604.77	527705.37	TO102356	SCRS_236_08	5	82
240	SCRS_240_08	Organic rich, moss, spruce, leafy trees	Phil	7168116.45	521734.27	TO102356	SCRS_240_08	2	25
241	SCRS_241_08	Organic rich, moss, spruce, leafy trees	Phil	7167984.75	522261.29	TO102356	SCRS_241_08	0.5	73
242	SCRS_242_08	Moss,leafy trees, spruce	Phil	7168094.01	522703.82	TO102356	SCRS_242_08	2	113
243	SCRS_243_08	Moss, spruce, rock	Phil	7167942.33	523284.48	TO102356	SCRS_243_08	2	129
257	SCRS_257_08		Lukas	7168571.95	522248.48	TO102356	SCRS_257_08	0.5	67
258	SCRS_258_08		Kevin	7168498.25	522877.90	TO102356	SCRS_258_08	5	114
259	SCRS_259_08		Kevin	7168483.41	523220.95	TO102356	SCRS_259_08	16	94
260	SCRS_260_08		Kevin	7168514.10	523808.44	TO102356	SCRS_260_08	0.5	125
271	SCRS_271_08		Lukas	7169012.04	522276.78	TO102356	SCRS_271_08	0.5	83
272	SCRS_272_08		Lukas	7169034.39	522780.02	TO102356	SCRS_272_08	0.5	77
273	SCRS_273_08		Lukas	7169105.63	523228.58	TO102356	SCRS_273_08	0.5	126
274	SCRS_274_08		Lukas	7169054.08	523753.43	TO102356	SCRS_274_08	3	204
275	SCRS_275_08		Lukas	7169089.72	524283.07	TO102356	SCRS_275_08	0.5	128
276	SCRS_276_08		Lukas	7169010.01	524751.79	TO102356	SCRS_276_08	3	278
284	SCRS_284_08		Kevin	7169565.36	522082.60	TO102356	SCRS_284_08	0.5	53
285	SCRS_285_08		Kevin	7169414.35	522913.69	TO102356	SCRS_285_08	20	17
286	SCRS_286_08		Kevin	7169408.31	523239.36	TO102356	SCRS_286_08	16	74
287	SCRS_287_08		Kevin	7169531.37	523745.31	TO102356	SCRS_287_08	7	53
288	SCRS_288_08		Kevin	7169447.29	524101.04	TO102356	SCRS_288_08	0.5	3
289	SCRS_289_08		Kevin	7169395.44	524851.51	TO102356	SCRS_289_08	45	41
290	SCRS_290_08		Kevin	7169481.13	525170.78	TO102356	SCRS_290_08	1	142
291	SCRS_291_08		Kevin	7169457.26	525801.55	TO102356	SCRS_291_08	40	8
292	SCRS_292_08	Permafrost in soil	Kevin	7169476.88	526248.46	TO102356	SCRS_292_08	0.5	39
293	SCRS_293_08		Kevin	7169557.31	526793.26	TO102356	SCRS_293_08	1	66
294	SCRS_294_08		Kevin	7169670.72	527258.75	TO102356	SCRS_294_08	0.5	7
295	SCRS_295_08	Area has had recent fires	Thomas	7170118.96	522768.17	TO102356	SCRS_295_08	265	8
296	SCRS_296_08		Thomas	7170020.80	523254.48	TO102356	SCRS_296_08	26	32
297	SCRS_297_08		Thomas	7170061.06	523758.39	TO102356	SCRS_297_08	2	13
298	SCRS_298_08	Area has had recent fires	Thomas	7170062.69	524208.80	TO102356	SCRS_298_08	2	55
299	SCRS_299_08		Thomas	7170050.77	524759.73	TO102356	SCRS_299_08	38	51

GRID_ID	..ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
300	SCRS_300_08		Thomas	7170055.84	525247.92	TO102356	SCRS_300_08	17	44
301	SCRS_301_08		Thomas	7170070.27	525742.84	TO102356	SCRS_301_08	2	68
302	SCRS_302_08		Thomas	7170054.57	526242.01	TO102356	SCRS_302_08	6	106
303	SCRS_303_08	Area has had recent fires	Thomas	7170538.04	522827.17	TO102356	SCRS_303_08	20	4
304	SCRS_304_08	Area has had recent fires	Thomas	7170559.81	523286.19	TO102356	SCRS_304_08	44	39
305	SCRS_305_08	Area has had recent fires	Thomas	7170554.22	523750.95	TO102356	SCRS_305_08	25	22
306	SCRS_306_08		Thomas	7170522.78	524217.54	TO102356	SCRS_306_08	26	53
307	SCRS_307_08		Thomas	7170457.71	524731.09	TO102356	SCRS_307_08	27	74
308	SCRS_308_08		Kevin	7170578.55	525203.37	TO102356	SCRS_308_08	2	26
309	SCRS_309_08		Kevin	7171116.45	523374.19	TO102356	SCRS_309_08	0.5	37
310	SCRS_310_08		Kevin	7171129.67	523748.65	TO102356	SCRS_310_08	2	122
311	SCRS_311_08		Kevin	7171095.48	524231.04	TO102356	SCRS_311_08	2	27
312	SCRS_312_08		Kevin	7170934.80	524739.56	TO102356	SCRS_312_08	17	4
313	SCRS_313_08		Kevin	7171455.79	523798.38	TO102356	SCRS_313_08	0.5	85
50	SCRS_50_08		Thomas	7161046.22	533219.51	TO102356	SCRS_50_08	0.5	31
67	SCRS_67_08		Thomas	7163049.16	527288.39	TO102356	SCRS_67_08	5	130
	SCRS_9211_08	Organic rich, moss	Phil	7167002.72	523235.08	TO102356	SCRS_9211_0	0.5	160
131	SCRS_131_08	Good sample	Sarah	7165002.63	523290.54	TO102354	SCRS_131_08	3	25
132	SCRS_132_08	Constant strong wind from SE	Sarah	7165050.40	523747.74	TO102354	SCRS_132_08	7	32
133	SCRS_133_08	Thick A horizon, good sample	Sarah	7165017.01	524302.70	TO102354	SCRS_133_08	5	86
134	SCRS_134_08	Spruce, willows, moss. Very good sample, just	Sarah	7165034.30	524744.70	TO102354	SCRS_134_08	15	165
135	SCRS_135_08		Sarah	7165036.37	525234.67	TO102354	SCRS_135_08	106	4
136	SCRS_136_08		Kevin	7165086.62	525767.86	TO102354	SCRS_136_08	10	124
137	SCRS_137_08		Kevin	7165028.31	526303.33	TO102354	SCRS_137_08	12	27
138	SCRS_138_08		Kevin	7165026.02	526801.63	TO102354	SCRS_138_08	1	300
139	SCRS_139_08		Kevin	7165014.86	527338.96	TO102354	SCRS_139_08	3	129
140	SCRS_140_08		Kevin	7165154.82	527706.25	TO102354	SCRS_140_08	6	45
141	SCRS_141_08		Kevin	7165151.08	528289.74	TO102354	SCRS_141_08	2	61
142	SCRS_142_08		Kevin	7165109.80	528748.23	TO102354	SCRS_142_08	0.5	28
143	SCRS_143_08		Kevin	7164973.83	529366.85	TO102354	SCRS_143_08	1	300
144	SCRS_144_08		Kevin	7164994.50	529743.04	TO102354	SCRS_144_08	0.5	66
145	SCRS_145_08		Kevin	7165029.19	530296.90	TO102354	SCRS_145_08	2	103
146	SCRS_146_08		Kevin	7165077.33	530786.36	TO102354	SCRS_146_08	8	264
147	SCRS_147_08		Kevin	7165039.55	531111.45	TO102354	SCRS_147_08	1	167
148	SCRS_148_08		Lukas	7165638.75	520230.38	TO102354	SCRS_148_08	9	7
159	SCRS_159_08	Very organic, lots of spruce	Phil	7165546.39	525825.17	TO102354	SCRS_159_08	2	46
160	SCRS_160_08	Organic rich, lots of rock and moss	Phil	7165575.12	526246.09	TO102354	SCRS_160_08	0.5	269
161	SCRS_161_08	Spruce, leafy trees, moss	Phil	7165501.33	526756.80	TO102354	SCRS_161_08	23	119
162	SCRS_162_08	Moss, spruce, creek above, organic rich	Phil	7165498.13	527252.46	TO102354	SCRS_162_08	0.5	106
163	SCRS_163_08	Organic rich, lots of spruce, some leafy trees	Phil	7165526.84	527759.52	TO102354	SCRS_163_08	0.5	57
164	SCRS_164_08	Spruce, leafy trees, moss	Phil	7165534.78	528263.76	TO102354	SCRS_164_08	1	300
165	SCRS_165_08	Can not find clay around, lots of spruce	Phil	7165534.83	528789.40	TO102354	SCRS_165_08	0.5	36
166	SCRS_166_08	Organic rich, lots of spruce	Phil	7165589.27	529272.43	TO102354	SCRS_166_08	3	180
167	SCRS_167_08	Very good sample, perfect clay, lots of spruce	Phil	7165502.99	529760.61	TO102354	SCRS_167_08	4	199
168	SCRS_168_08	Spruce all around, lots of moss	Phil	7165601.27	530218.92	TO102354	SCRS_168_08	9	128
169	SCRS_169_08	Spruce all around, creek above, lots of roots	Phil	7165514.24	530769.85	TO102354	SCRS_169_08	2	89
175	SCRS_175_08		Kevin	7166104.88	522813.98	TO102354	SCRS_175_08	14	158
176	SCRS_176_08	Roots in sample, but horizon and depth is	Kevin	7166143.70	523289.33	TO102354	SCRS_176_08	7	41
177	SCRS_177_08		Kevin	7166089.76	523635.30	TO102354	SCRS_177_08	15	22
178	SCRS_178_08		Kevin	7166163.80	524248.65	TO102354	SCRS_178_08	1	300
179	SCRS_179_08		Kevin	7166037.52	524715.06	TO102354	SCRS_179_08	0.5	253
180	SCRS_180_08		Kevin	7166030.20	525258.13	TO102354	SCRS_180_08	1	282

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
181	SCRS_181_08		Kevin	7166157.55	525766.12	TO102354	SCRS_181_08	0.5	60
182	SCRS_182_08		Kevin	7166224.50	526296.10	TO102354	SCRS_182_08	1	300
206	SCRS_206_08		Thomas	7166598.53	528714.85	TO102354	SCRS_206_08	4	76
261	SCRS_261_08	Leafy trees, spruce, moss, organic rich sample	Phil	7168499.15	524297.53	TO102354	SCRS_261_08	1	243
262	SCRS_262_08	Moss, spruce, leafy trees, organic rich soil	Phil	7168588.21	524768.95	TO102354	SCRS_262_08	0.5	90
263	SCRS_263_08	Moss, leafy trees, spruce, organic rich	Phil	7168589.91	525303.67	TO102354	SCRS_263_08	0.5	140
264	SCRS_264_08	Next to a creek, moss, leafy trees and spruce,	Phil	7168522.23	525789.76	TO102354	SCRS_264_08	1	43
265	SCRS_265_08	Spruce, moss, leafy trees, organic rich sample	Phil	7168588.93	526255.51	TO102354	SCRS_265_08	0.5	76
266	SCRS_266_08	Leafy trees, spruce, moss, organic rich sample	Phil	7168581.82	526781.25	TO102354	SCRS_266_08	0.5	24
267	SCRS_267_08	Moss, leafy trees, spruces, creek above	Phil	7168537.58	527302.42	TO102354	SCRS_267_08	2	23
268	SCRS_268_08	Leafy trees, spruce, moss	Phil	7168592.89	527765.34	TO102354	SCRS_268_08	0.5	7
269	SCRS_269_08	Moss, spruce	Phil	7168536.71	528195.08	TO102354	SCRS_269_08	6	144
270	SCRS_270_08	Good clay, leaves, spruce, moss	Phil	7168486.59	528731.79	TO102354	SCRS_270_08	18	130
31	SCRS_31_08		Kevin	7159700.12	534739.52	TO102354	SCRS_31_08	4	67
32	SCRS_32_08		Kevin	7159428.77	535275.96	TO102354	SCRS_32_08	17	81
33	SCRS_33_08		Kevin	7159494.16	535697.68	TO102354	SCRS_33_08	10	34
34	SCRS_34_08		Kevin	7159666.86	536226.63	TO102354	SCRS_34_08	2	18
35	SCRS_35_08		Kevin	7159646.95	536645.30	TO102354	SCRS_35_08	1	35
36	SCRS_36_08		Kevin	7159967.95	533794.37	TO102354	SCRS_36_08	1	26
37	SCRS_37_08		Kevin	7160123.20	534299.82	TO102354	SCRS_37_08	22	2
38	SCRS_38_08		Kevin	7160048.61	534749.83	TO102354	SCRS_38_08	0.5	14
39	SCRS_39_08		Kevin	7159993.98	535137.29	TO102354	SCRS_39_08	0.5	11
40	SCRS_40_08	OC hard to judge, too foggy to see	Kevin	7159926.25	535829.12	TO102354	SCRS_40_08	21	10
41	SCRS_41_08		Kevin	7160078.46	536252.30	TO102354	SCRS_41_08	1	8
42	SCRS_42_08	Deep A horizon here	Kevin	7160032.25	536716.93	TO102354	SCRS_42_08	1	40
80	SCRS_80_08	Trees	Tubs	7163500.12	528275.55	TO102354	SCRS_80_08	4	57
81	SCRS_81_08	Trees, bushy	Tubs	7163543.61	528749.07	TO102354	SCRS_81_08	40	10
82	SCRS_82_08	Trees, bushy	Tubs	7163572.54	529260.45	TO102354	SCRS_82_08	10	33
83	SCRS_83_08	Trees, willows	Tubs	7163562.49	529751.99	TO102354	SCRS_83_08	6	103
84	SCRS_84_08	Trees, bushy	Tubs	7163545.15	530254.51	TO102354	SCRS_84_08	5	197
85	SCRS_85_08	Trees, boulders	Tubs	7163542.28	530770.00	TO102354	SCRS_85_08	3	186
86	SCRS_86_08	Trees, boulders	Tubs	7163537.15	531208.24	TO102354	SCRS_86_08	0.5	248
87	SCRS_87_08	Trees, bushy	Tubs	7163549.42	531752.57	TO102354	SCRS_87_08	2	267
88	SCRS_88_08	Trees, bushy	Tubs	7163559.43	532252.05	TO102354	SCRS_88_08	4	17
89	SCRS_89_08	Trees, willows	Tubs	7163548.27	532746.89	TO102354	SCRS_89_08	3	122
90	SCRS_90_08		Thomas	7164062.37	525274.42	TO102354	SCRS_90_08	1	5
91	SCRS_91_08		Thomas	7164098.82	525702.18	TO102354	SCRS_91_08	4	70
92	SCRS_92_08		Thomas	7164040.77	526235.12	TO102354	SCRS_92_08	1	49
93	SCRS_93_08		Thomas	7164047.35	526750.15	TO102354	SCRS_93_08	2	48
94	SCRS_94_08		Thomas	7163979.91	527275.63	TO102354	SCRS_94_08	0.5	48
95	SCRS_95_08		Thomas	7164043.92	527758.47	TO102354	SCRS_95_08	0.5	22
96	SCRS_96_08		Thomas	7164053.95	528256.32	TO102354	SCRS_96_08	2	66
967	SCRS_967_08		Thomas	7163067.47	527750.56	TO102354	SCRS_967_08	2	10
968	SCRS_968_08		Thomas	7163060.27	528271.86	TO102354	SCRS_968_08	4	53
97	SCRS_97_08		Thomas	7164025.84	528737.85	TO102354	SCRS_97_08	16	136
	SCRS_980_08	Trees, boulders	Tubs	7163415.45	528291.93	TO102354	SCRS_980_08	33	18

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
1	SCRS_1_08	10	0.05	840	0.5	730	6	10	146	0.5	1540	1	0.7
10	SCRS_10_08	10	0.05	290	0.5	530	3	2.5	63	0.5	30	0.5	0.7
11	SCRS_11_08	0.5	0.1	340	0.5	660	4	37	88	0.5	1410	7	4.8
12	SCRS_12_08	10	0.05	1220	0.5	80	6	70	355	0.5	1020	12	5.9
13	SCRS_13_08	0.5	0.05	2070	0.5	80	10	7	299	0.5	100	1	1.9
14	SCRS_14_08	40	0.05	2240	1	30	24	177	455	200	610	31	13.9
15	SCRS_15_08	10	0.05	1890	0.5	50	8	121	131	0.5	1240	21	10.1
16	SCRS_16_08	0.5	0.05	510	0.5	730	52	26	24	0.5	140	12	6.7
17	SCRS_17_08	0.5	0.05	910	0.5	660	47	8	70	0.5	30	4	2.8
18	SCRS_18_08	0.5	0.05	2220	0.5	100	81	75	104	0.5	310	12	6.6
19	SCRS_19_08	0.5	0.05	980	0.5	770	19	25	22	0.5	160	12	5.5
2	SCRS_2_08	10	0.2	1590	0.5	670	9	238	176	0.5	2710	27	15
20	SCRS_20_08	0.5	0.05	1600	0.5	730	7	26	13	0.5	220	43	19.4
21	SCRS_21_08	0.5	0.05	590	0.5	740	14	5	9	0.5	70	9	4.7
22	SCRS_22_08	0.5	0.05	440	0.5	700	16	10	11	0.5	30	10	5.6
23	SCRS_23_08	0.5	0.05	460	0.5	680	14	2.5	8	0.5	20	5	2.9
24	SCRS_24_08	20	0.2	960	0.5	750	6	122	136	0.5	3170	15	6.6
25	SCRS_25_08	0.5	0.2	600	0.5	730	15	93	379	0.5	4990	11	8.7
26	SCRS_26_08	10	0.05	350	0.5	570	4	54	173	0.5	1890	8	5.5
27	SCRS_27_08	0.5	0.2	480	0.5	650	13	18	65	0.5	310	7	3.5
28	SCRS_28_08	0.5	0.05	190	0.5	500	5	15	211	0.5	940	2	1.7
29	SCRS_29_08	0.5	0.2	900	0.5	1090	10	49	173	0.5	2070	8	4.3
3	SCRS_3_08	30	0.7	3460	0.5	690	5	92	136	0.5	4680	14	7.5
30	SCRS_30_08	10	0.2	1010	0.5	710	12	97	151	0.5	2030	18	10.7
4	SCRS_4_08	0.5	0.1	920	0.5	650	41	23	84	0.5	1000	5	3.1
43	SCRS_43_08	0.5	0.05	470	0.5	680	7	5	14	0.5	110	2	1.2
44	SCRS_44_08	0.5	0.05	480	0.5	660	29	42	25	0.5	70	17	11.4
45	SCRS_45_08	0.5	0.05	300	0.5	610	23	2.5	10	0.5	50	3	1.9
46	SCRS_46_08	0.5	0.05	250	0.5	620	14	2.5	8	0.5	20	1	0.8
47	SCRS_47_08	0.5	0.05	390	0.5	580	44	11	17	0.5	30	5	3.2
48	SCRS_48_08	0.5	1.2	720	0.5	490	10	2.5	21	0.5	240	10	4.1
49	SCRS_49_08	0.5	0.05	890	0.5	600	5	237	75	0.5	1190	24	14.1
5	SCRS_5_08	0.5	0.05	320	0.5	550	8	2.5	55	0.5	220	0.5	0.25
51	SCRS_51_08	0.5	0.05	280	0.5	620	10	6	40	0.5	80	2	1.1
52	SCRS_52_08	0.5	0.05	190	0.5	630	25	25	25	0.5	270	7	3.5
53	SCRS_53_08	0.5	0.05	630	0.5	580	10	2.5	2.5	0.5	230	4	2.3
54	SCRS_54_08	0.5	0.05	530	0.5	600	15	2.5	2.5	0.5	460	3	1.8
6	SCRS_6_08	10	0.05	290	0.5	450	7	57	162	0.5	1350	6	4.9
7	SCRS_7_08	0.5	0.6	1240	0.5	580	15	2.5	31	0.5	910	7	3.2
8	SCRS_8_08	0.5	0.05	1740	0.5	590	9	229	246	0.5	1260	18	10.3
9	SCRS_9_08	70	0.05	220	0.5	690	33	8	85	0.5	30	8	5.4
100	SCRS_100_08	0.5	0.05	430	0.5	0.5	0.5	25	63	0.5	440	5	3.8
101	SCRS_101_08	0.5	0.05	1060	0.5	20	2	26	195	0.5	1540	38	35.9
102	SCRS_102_08	10	0.2	2540	0.5	0.5	6	61	46	0.5	410	19	11.6
103	SCRS_103_08	40	0.1	5500	1	60	13	14	68	0.5	1370	5	4.6

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppb	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
104	SCRS_104_08	30	0.2	5800	0.5	10	5	16	12	0.5	2500	4	3.6
105	SCRS_105_08	30	0.2	3090	0.5	290	32	20	253	0.5	1080	5	3
106	SCRS_106_08	0.5	0.1	660	0.5	0.5	9	44	78	0.5	260	9	4.3
114	SCRS_114_08	0.5	0.05	140	0.5	540	3	11	32	0.5	180	2	1
115	SCRS_115_08	0.5	0.2	1090	0.5	290	16	91	94	0.5	1440	54	30.8
116	SCRS_116_08	0.5	0.2	1840	0.5	0.5	7	55	59	0.5	380	18	13.3
117	SCRS_117_08	0.5	0.05	640	0.5	10	1	73	63	0.5	200	9	6.4
118	SCRS_118_08	10	0.05	200	0.5	540	5	11	38	0.5	330	2	1.3
119	SCRS_119_08	0.5	0.05	1850	0.5	210	14	17	139	0.5	780	11	8.5
120	SCRS_120_08	0.5	0.3	1560	0.5	10	8	80	466	0.5	1200	12	6.2
121	SCRS_121_08	0.5	0.3	810	0.5	180	0.5	29	148	0.5	2430	8	4.7
122	SCRS_122_08	40	0.3	6120	1	20	13	862	363	200	2790	194	99.9
123	SCRS_123_08	10	0.2	3270	0.5	120	9	43	244	0.5	1590	20	12.8
124	SCRS_124_08	0.5	0.1	6530	0.5	70	25	39	93	0.5	520	43	24.3
125	SCRS_125_08	10	0.05	2200	0.5	0.5	31	18	106	0.5	340	14	14.6
126	SCRS_126_08	20	0.2	6710	0.5	50	40	15	305	0.5	260	10	6.6
127	SCRS_127_08	0.5	0.3	230	0.5	180	9	2.5	23	0.5	50	5	3.4
128	SCRS_128_08	10	0.05	1500	2	10	5	30	27	0.5	240	3	1.8
129	SCRS_129_08	0.5	0.05	2640	0.5	640	50	25	25	0.5	90	10	5.1
130	SCRS_130_08	20	0.05	4340	0.5	20	31	104	281	200	560	27	16.2
55	SCRS_55_08	0.5	0.1	580	0.5	580	11	73	73	0.5	350	12	7.4
56	SCRS_56_08	0.5	0.05	860	0.5	580	10	147	139	0.5	780	9	5.3
57	SCRS_57_08	0.5	0.1	380	0.5	550	18	41	31	0.5	170	10	6.1
58	SCRS_58_08	0.5	0.4	90	0.5	450	7	5	2.5	0.5	80	4	2.8
59	SCRS_59_08	0.5	0.1	400	0.5	510	14	112	158	0.5	1220	11	6.4
60	SCRS_60_08	0.5	0.1	200	0.5	600	14	44	56	0.5	260	13	7.4
61	SCRS_61_08	40	0.05	860	1	20	7	120	339	0.5	350	28	12.7
62	SCRS_62_08	0.5	0.1	330	0.5	270	11	168	121	0.5	1040	21	12.9
63	SCRS_63_08	0.5	0.05	250	0.5	520	16	6	2.5	0.5	30	3	2
64	SCRS_64_08	0.5	0.1	150	0.5	560	10	48	33	0.5	120	7	4.2
65	SCRS_65_08	0.5	0.05	90	0.5	440	15	2.5	2.5	0.5	30	1	0.9
66	SCRS_66_08	0.5	0.05	260	0.5	300	6	21	200	0.5	90	7	4
68	SCRS_68_08	0.5	0.2	290	0.5	570	13	2.5	2.5	0.5	330	4	1.9
69	SCRS_69_08	0.5	0.05	290	0.5	630	23	35	37	0.5	120	6	3.9
70	SCRS_70_08	0.5	0.05	180	0.5	650	21	8	6	0.5	20	3	2
71	SCRS_71_08	0.5	0.05	330	0.5	440	9	26	25	0.5	30	7	3.8
72	SCRS_72_08	0.5	0.05	260	0.5	630	18	28	6	0.5	130	17	10
73	SCRS_73_08	0.5	0.05	350	0.5	440	10	74	44	0.5	110	46	30
74	SCRS_74_08	0.5	0.05	260	0.5	540	14	40	44	0.5	210	12	7.3
75	SCRS_75_08	0.5	0.3	1030	0.5	500	16	145	139	0.5	1100	27	13
76	SCRS_76_08	10	0.6	1420	0.5	40	7	138	142	0.5	3420	23	12.3
77	SCRS_77_08	0.5	0.3	1280	0.5	570	13	35	13	0.5	630	9	4.6
78	SCRS_78_08	0.5	0.05	270	0.5	630	20	7	5	0.5	40	4	3.1
79	SCRS_79_08	0.5	0.05	1020	0.5	360	11	16	2.5	0.5	60	16	7.5

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
	SCRS_9104_08	40	0.1	7190	2	10	4	14	16	100	480	5	3.9
98	SCRS_98_08	0.5	0.1	610	0.5	350	7	29	16	0.5	230	18	7.2
99	SCRS_99_08	20	0.05	1220	0.5	20	2	34	35	0.5	1100	7	5.2
	555_1_08	0.5	0.2	4280	0.5	770	8	2.5	220	0.5	2840	3	2.8
	555_2_08	10	0.05	830	1	60	16	651	139	0.5	290	41	17
	555_3_08	40	2.9	1180	19	90	6	2630	26	0.5	1010	597	237
	555_4_08	0.5	0.3	280	0.5	0.5	5	59	151	0.5	460	19	10.9
	555_5_08	0.5	0.5	30	0.5	90	7	328	109	0.5	1430	119	63.1
	555_6_08	10	0.7	850	0.5	30	5	737	22	0.5	1720	185	88.9
	555_7_08	0.5	0.3	140	0.5	190	6	55	6	100	680	49	31.5
	555_8_08	0.5	0.05	460	0.5	20	4	62	45	0.5	1530	59	40.2
	555_91_08	0.5	0.1	11400	0.5	890	6	2.5	142	0.5	890	1	1.1
110	SCRS_110_08	0.5	0.05	270	0.5	380	18	21	110	0.5	320	3	1.9
111	SCRS_111_08	0.5	0.2	930	0.5	400	29	53	46	0.5	2190	13	7.9
112	SCRS_112_08	0.5	0.05	450	0.5	270	19	33	147	0.5	1240	7	4.2
113	SCRS_113_08	0.5	0.3	100	0.5	390	3	9	71	0.5	530	2	1
149	SCRS_149_08	0.5	0.7	1690	0.5	600	15	7	201	0.5	970	9	5.2
150	SCRS_150_08	0.5	0.05	350	0.5	540	21	2.5	15	0.5	30	2	1.3
151	SCRS_151_08	0.5	0.7	2640	0.5	640	3	200	140	0.5	3270	25	12
152	SCRS_152_08	20	0.05	890	0.5	310	39	157	378	0.5	1240	42	22.6
153	SCRS_153_08	0.5	0.2	1790	0.5	490	7	46	186	0.5	690	7	3.3
154	SCRS_154_08	10	0.1	2260	0.5	100	4	96	172	0.5	570	18	9
155	SCRS_155_08	0.5	0.5	520	0.5	350	8	16	66	0.5	390	9	4
156	SCRS_156_08	0.5	0.05	180	0.5	450	5	2.5	39	0.5	40	1	0.8
157	SCRS_157_08	0.5	0.1	490	0.5	560	10	2.5	43	0.5	790	3	1.5
158	SCRS_158_08	0.5	0.2	750	0.5	480	9	44	99	0.5	1120	6	3.2
170	SCRS_170_08	60	3.8	2210	3	70	3	232	81	200	4430	45	20.9
171	SCRS_171_08	0.5	0.05	500	0.5	510	26	2.5	23	0.5	40	5	5
172	SCRS_172_08	0.5	0.05	740	0.5	550	35	19	21	0.5	40	9	5.4
173	SCRS_173_08	0.5	0.7	570	0.5	470	6	51	297	0.5	7000	11	5.8
174	SCRS_174_08	0.5	0.4	1450	0.5	300	6	248	672	0.5	3160	174	99
183	SCRS_183_08	0.5	0.05	650	0.5	40	2	2.5	30	0.5	0.5	0.5	0.25
184	SCRS_184_08	0.5	0.05	1130	0.5	20	2	23	126	0.5	50	5	6
185	SCRS_185_08	10	0.2	3360	0.5	60	37	40	460	0.5	960	12	8.6
186	SCRS_186_08	0.5	0.05	340	0.5	0.5	8	24	19	0.5	70	4	2.6
187	SCRS_187_08	0.5	0.05	3200	0.5	600	12	35	43	0.5	140	4	1.4
188	SCRS_188_08	0.5	0.05	1940	0.5	130	190	23	493	0.5	380	30	31.4
189	SCRS_189_08	20	0.4	4100	0.5	30	62	105	202	0.5	2130	88	41
199	SCRS_199_08	10	0.05	560	0.5	0.5	8	22	42	0.5	110	9	4.9
200	SCRS_200_08	0.5	0.05	560	2	0.5	14	21	83	0.5	100	4	3.2
201	SCRS_201_08	0.5	0.05	460	0.5	0.5	5	15	96	0.5	30	7	5.8
202	SCRS_202_08	10	0.05	1310	0.5	0.5	13	68	240	0.5	180	26	12.3
203	SCRS_203_08	20	0.1	1530	0.5	0.5	15	89	88	0.5	390	27	15
204	SCRS_204_08	10	0.05	3110	0.5	10	80	15	101	0.5	210	7	10.3
205	SCRS_205_08	0.5	0.05	3630	0.5	340	16	30	124	0.5	1170	4	1.7
211	SCRS_211_08	0.5	0.05	2600	0.5	40	20	68	55	0.5	60	35	20.5
212	SCRS_212_08	0.5	0.05	300	0.5	450	13	7	2.5	0.5	20	3	1.8

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
213	SCRS_213_08	0.5	0.3	480	0.5	510	20	16	19	0.5	570	11	4.7
214	SCRS_214_08	0.5	0.3	870	0.5	360	68	29	94	0.5	800	13	7.1
215	SCRS_215_08	0.5	0.05	360	0.5	0.5	2	19	57	0.5	60	7	4.9
216	SCRS_216_08	0.5	0.05	1500	0.5	210	339	128	124	0.5	700	25	13.2
217	SCRS_217_08	10	0.1	1090	0.5	410	123	13	199	0.5	1580	2	1.2
218	SCRS_218_08	0.5	0.05	4140	0.5	20	16	2.5	110	0.5	830	8	15
219	SCRS_219_08	0.5	0.05	2740	0.5	30	2	2.5	28	0.5	40	0.5	1.6
220	SCRS_220_08	10	0.05	5940	0.5	220	20	503	170	0.5	290	60	23.6
221	SCRS_221_08	0.5	0.05	760	0.5	0.5	17	13	98	0.5	80	4	3.1
222	SCRS_222_08	0.5	0.1	3280	0.5	600	53	129	33	0.5	850	35	16.1
229	SCRS_229_08	20	0.05	500	0.5	10	11	40	99	0.5	210	15	6.3
230	SCRS_230_08	0.5	0.05	300	1	0.5	5	13	41	0.5	60	3	2
231	SCRS_231_08	0.5	0.05	540	0.5	50	2	25	72	0.5	180	3	1.9
232	SCRS_232_08	0.5	0.05	610	0.5	10	2	2.5	21	0.5	20	0.5	0.6
233	SCRS_233_08	0.5	0.05	1960	0.5	120	14	21	111	0.5	120	9	4.9
234	SCRS_234_08	30	0.3	920	0.5	380	36	55	230	0.5	3120	10	5.6
235	SCRS_235_08	0.5	0.6	1450	0.5	430	26	127	307	0.5	2000	31	14.5
236	SCRS_236_08	0.5	0.4	1650	0.5	680	65	131	129	0.5	3650	37	20.5
237	SCRS_237_08	0.5	0.3	2250	0.5	480	56	127	171	0.5	2760	27	14.2
238	SCRS_238_08	0.5	0.05	1490	0.5	260	25	2.5	60	0.5	1450	1	0.9
239	SCRS_239_08	100	0.4	9570	0.5	200	18	1130	264	0.5	5600	142	77
244	SCRS_244_08	0.5	0.05	6830	0.5	590	30	2650	77	0.5	520	77	24.2
245	SCRS_245_08	0.5	0.1	2860	0.5	220	7	72	123	0.5	1200	18	9.6
246	SCRS_246_08	10	0.2	1140	0.5	10	26	155	49	0.5	290	25	11.2
247	SCRS_247_08	10	0.05	1560	0.5	40	5	24	346	0.5	560	5	3.7
248	SCRS_248_08	20	1	4180	1	230	16	127	420	300	1920	47	18.9
249	SCRS_249_08	0.5	0.2	2670	0.5	260	9	373	274	0.5	570	72	28.7
250	SCRS_250_08	0.5	0.1	1670	0.5	520	27	74	56	0.5	1100	15	6.4
251	SCRS_251_08	10	0.3	800	0.5	570	10	161	314	0.5	2350	21	11.4
252	SCRS_252_08	0.5	0.4	1960	0.5	520	79	79	87	0.5	3470	15	7.6
253	SCRS_253_08	20	0.3	1060	0.5	530	36	39	107	0.5	4430	6	3.7
254	SCRS_254_08	0.5	0.3	5250	0.5	410	592	543	218	100	4010	106	52.6
255	SCRS_255_08	30	0.1	1500	0.5	0.5	1	90	98	0.5	1080	11	5.7
277	SCRS_277_08	0.5	0.05	440	0.5	380	33	20	11	0.5	30	7	4
278	SCRS_278_08	0.5	0.05	510	0.5	490	34	5	2.5	0.5	30	2	1.2
279	SCRS_279_08	0.5	0.05	1170	0.5	410	29	11	8	0.5	20	8	3.8
280	SCRS_280_08	0.5	0.05	1230	0.5	520	38	19	6	0.5	70	9	4.9
281	SCRS_281_08	30	0.1	890	0.5	410	11	28	136	0.5	1390	4	2.6
282	SCRS_282_08	0.5	0.5	3050	0.5	770	72	43	186	0.5	2650	10	4.7
283	SCRS_283_08	30	0.3	4420	0.5	100	6	74	265	0.5	1380	13	7.9
	5552_1_08	0.5	0.05	3660	0.5	750	5	30	199	0.5	1740	3	1.9
	5552_2_08	0.5	0.1	430	0.5	30	4	775	7	0.5	160	65	26.2
	5552_3_08	0.5	0.05	520	0.5	10	4	61	91	0.5	300	60	37.1
	5552_4_08	20	1	210	0.5	20	4	169	39	0.5	12300	92	50
	5552_5_08	0.5	0.3	100	0.5	220	17	63	42	0.5	2290	62	45
	5552_6_08	0.5	0.05	720	0.5	110	9	88	137	0.5	1190	25	15.9
	5552_7_08	0.5	0.05	480	0.5	70	13	42	117	0.5	780	15	12.3
	5552_8_08	0.5	0.05	380	0.5	30	7	38	90	0.5	1050	30	20.2
107	SCRS_107_08	10	0.05	1910	0.5	70	6	29	65	0.5	380	4	2.6
108	SCRS_108_08	20	0.3	2090	0.5	260	22	117	188	0.5	1390	28	12.4

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
109	SCRS_109_08	0.5	0.3	1470	0.5	420	52	65	420	0.5	640	19	10.1
190	SCRS_190_08	0.5	0.2	390	0.5	590	9	18	39	0.5	370	6	2.5
191	SCRS_191_08	50	0.05	800	0.5	120	0.5	22	228	0.5	520	4	2.3
192	SCRS_192_08	10	0.05	620	0.5	10	18	16	221	0.5	250	15	9.7
193	SCRS_193_08	0.5	0.05	400	0.5	590	13	5	15	0.5	20	3	2.1
194	SCRS_194_08	10	0.05	460	1	30	1	14	100	0.5	190	4	3.8
195	SCRS_195_08	0.5	0.05	600	0.5	0.5	2	20	76	0.5	340	6	4.6
196	SCRS_196_08	20	0.05	1780	0.5	30	4	215	326	0.5	220	38	12.4
197	SCRS_197_08	0.5	1.1	130	0.5	440	5	18	39	0.5	210	3	1.7
198	SCRS_198_08	0.5	0.05	420	0.5	540	14	13	6	0.5	20	7	3.5
207	SCRS_207_08	0.5	0.05	790	0.5	510	28	39	61	0.5	800	8	4.9
208	SCRS_208_08	40	0.1	2120	2	20	1	82	161	0.5	960	16	8.5
209	SCRS_209_08	0.5	0.05	180	0.5	0.5	0.5	20	25	0.5	490	4	2.4
210	SCRS_210_08	70	0.05	2140	2	40	11	110	475	0.5	630	67	34.2
223	SCRS_223_08	0.5	0.05	430	0.5	590	21	11	11	0.5	40	5	3
224	SCRS_224_08	50	0.1	2550	2	20	5	63	163	100	930	15	8.8
225	SCRS_225_08	0.5	0.05	1220	0.5	110	18	31	428	0.5	1030	15	12.4
226	SCRS_226_08	0.5	0.05	1470	0.5	160	9	17	451	0.5	2340	15	13.3
227	SCRS_227_08	20	0.05	970	0.5	120	4	22	321	0.5	1600	7	4.9
228	SCRS_228_08	0.5	0.05	1050	0.5	100	14	49	457	0.5	430	34	23.7
236	SCRS_236_08	20	0.05	1720	0.5	70	27	69	631	0.5	110	9	8.7
240	SCRS_240_08	0.5	0.05	1700	0.5	610	7	50	115	0.5	1460	4	1.4
241	SCRS_241_08	0.5	0.05	720	0.5	350	36	15	91	0.5	370	12	9.9
242	SCRS_242_08	70	0.3	3850	1	200	7	266	331	0.5	2160	93	50.9
243	SCRS_243_08	50	0.05	2050	2	130	4	92	996	100	1010	20	8.3
257	SCRS_257_08	0.5	0.05	3200	0.5	420	81	50	50	0.5	580	20	12.2
258	SCRS_258_08	0.5	0.05	4000	0.5	360	19	73	313	0.5	320	16	7.4
259	SCRS_259_08	0.5	0.3	3050	0.5	560	164	80	133	0.5	4940	28	14.3
260	SCRS_260_08	10	0.05	1470	2	100	8	46	276	0.5	780	7	5
271	SCRS_271_08	0.5	0.05	740	0.5	630	102	26	21	0.5	140	13	8.2
272	SCRS_272_08	0.5	0.05	1490	0.5	590	57	36	36	0.5	160	22	13.3
273	SCRS_273_08	0.5	0.05	1450	0.5	390	70	42	41	0.5	330	51	40.3
274	SCRS_274_08	0.5	0.05	2200	0.5	220	121	47	273	0.5	250	21	12
275	SCRS_275_08	0.5	0.05	850	2	250	5	9	533	0.5	130	4	8.3
276	SCRS_276_08	0.5	0.1	650	0.5	30	2	10	89	0.5	220	2	1.4
284	SCRS_284_08	0.5	0.05	680	0.5	230	3	11	186	0.5	130	2	1.6
285	SCRS_285_08	0.5	0.05	440	0.5	690	10	2.5	13	0.5	720	7	3.8
286	SCRS_286_08	0.5	0.05	560	0.5	390	24	30	17	0.5	290	10	4.9
287	SCRS_287_08	0.5	0.05	1800	0.5	590	9	39	61	0.5	390	5	2.5
288	SCRS_288_08	0.5	0.05	280	0.5	600	8	2.5	5	0.5	0.5	1	0.5
289	SCRS_289_08	0.5	0.5	1480	0.5	550	15	87	16	0.5	260	72	30.4
290	SCRS_290_08	0.5	0.1	640	0.5	90	10	51	559	0.5	440	15	5.9
291	SCRS_291_08	0.5	0.4	2280	0.5	550	10	39	163	0.5	2020	7	3.5
292	SCRS_292_08	50	0.5	3740	0.5	440	6	237	291	0.5	3460	37	21.1
293	SCRS_293_08	0.5	0.05	610	0.5	520	17	11	77	0.5	370	2	1
294	SCRS_294_08	50	0.05	1070	0.5	450	3	66	199	0.5	210	9	5.9
295	SCRS_295_08	0.5	1.3	930	0.5	700	8	2.5	2.5	0.5	1340	7	3.3
296	SCRS_296_08	0.5	0.2	1100	0.5	880	64	2.5	2.5	0.5	150	4	2
297	SCRS_297_08	0.5	0.3	440	0.5	680	6	70	266	0.5	1070	11	5.5
298	SCRS_298_08	0.5	0.05	1380	0.5	560	6	400	250	0.5	790	26	15.5
299	SCRS_299_08	0.5	0.3	1230	0.5	820	65	24	15	0.5	190	15	7.4

GRID_ID	.LD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_pp.	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
300	SCRS_300_08	0.5	0.3	5700	0.5	890	51	101	51	0.5	4050	30	16.4
301	SCRS_301_08	0.5	0.1	3000	0.5	510	2	53	307	0.5	3860	14	9.2
302	SCRS_302_08	0.5	0.1	3980	0.5	590	26	98	283	0.5	1320	20	11.7
303	SCRS_303_08	0.5	0.05	400	0.5	580	189	2.5	91	0.5	1080	21	9.2
304	SCRS_304_08	0.5	0.2	720	0.5	870	23	8	2.5	0.5	460	8	3.5
305	SCRS_305_08	0.5	0.5	1020	0.5	830	4	123	120	0.5	810	16	7
306	SCRS_306_08	0.5	0.5	2410	0.5	530	12	177	30	0.5	260	130	49.3
307	SCRS_307_08	0.5	0.5	1180	0.5	410	13	140	196	0.5	780	12	6.6
308	SCRS_308_08	30	0.2	490	0.5	630	4	19	237	0.5	2070	4	2.3
309	SCRS_309_08	0.5	0.05	1300	0.5	710	3	33	190	0.5	1000	4	2.4
310	SCRS_310_08	0.5	0.1	3790	0.5	150	6	39	698	0.5	3010	18	13.8
311	SCRS_311_08	0.5	0.1	1770	0.5	870	8	2.5	52	0.5	1000	6	3.6
312	SCRS_312_08	0.5	0.05	220	0.5	430	6	2.5	35	0.5	670	1	0.7
313	SCRS_313_08	0.5	0.05	4870	0.5	320	9	22	414	0.5	2110	9	6.5
50	SCRS_50_08	0.5	0.05	600	0.5	560	7	5	45	0.5	290	0.5	0.6
67	SCRS_67_08	10	0.4	1020	0.5	40	4	26	303	0.5	3770	10	8.5
	SCRS_9211_08	20	0.05	2550	1	40	3	36	66	0.5	300	16	8.8
131	SCRS_131_08	0.5	0.05	80	0.5	390	19	2.5	2.5	0.5	50	1	0.7
132	SCRS_132_08	0.5	0.05	70	0.5	450	17	2.5	2.5	0.5	80	2	0.9
133	SCRS_133_08	0.5	0.1	140	0.5	690	17	36	11	0.5	140	17	10.2
134	SCRS_134_08	0.5	0.2	810	0.5	420	12	145	29	0.5	680	55	32.4
135	SCRS_135_08	0.5	0.2	130	0.5	550	5	17	11	0.5	500	6	2.5
136	SCRS_136_08	0.5	0.4	1160	0.5	530	6	167	336	0.5	730	35	18.7
137	SCRS_137_08	0.5	0.2	310	0.5	780	9	26	67	0.5	380	4	2.1
138	SCRS_138_08	30	0.05	530	0.5	10	6	52	55	100	190	27	14.8
139	SCRS_139_08	30	0.4	2460	0.5	30	2	46	200	0.5	3030	10	6.2
140	SCRS_140_08	10	0.2	1180	0.5	540	5	70	326	0.5	2770	8	4.7
141	SCRS_141_08	0.5	0.05	430	0.5	760	8	26	45	0.5	240	6	3.8
142	SCRS_142_08	20	0.3	490	0.5	580	5	15	93	0.5	2290	3	1.5
143	SCRS_143_08	0.5	0.05	520	0.5	20	6	101	40	0.5	110	12	5
144	SCRS_144_08	40	0.1	970	0.5	180	1	38	193	0.5	530	12	6.6
145	SCRS_145_08	60	0.4	2830	0.5	20	4	51	183	0.5	3480	12	9
146	SCRS_146_08	0.5	0.4	480	0.5	0.5	11	41	27	0.5	290	25	13
147	SCRS_147_08	0.5	0.2	650	0.5	20	1	6	12	0.5	160	1	0.9
148	SCRS_148_08	0.5	0.4	410	0.5	570	3	2.5	34	0.5	480	1	0.9
159	SCRS_159_08	0.5	0.05	190	0.5	770	12	2.5	2.5	0.5	30	0.5	0.6
160	SCRS_160_08	0.5	0.1	260	0.5	90	8	6	41	0.5	80	7	4.7
161	SCRS_161_08	0.5	0.3	1020	0.5	790	18	107	116	0.5	1210	25	13.8
162	SCRS_162_08	0.5	0.05	290	0.5	510	12	14	23	0.5	70	5	2.8
163	SCRS_163_08	0.5	0.05	190	0.5	620	42	19	73	0.5	90	8	4.8
164	SCRS_164_08	0.5	0.05	380	0.5	10	9	8	100	0.5	210	14	9.3
165	SCRS_165_08	0.5	0.05	300	0.5	640	12	5	10	0.5	30	2	0.9
166	SCRS_166_08	20	0.05	1360	1	90	4	132	208	0.5	240	28	8.9
167	SCRS_167_08	0.5	0.1	4880	0.5	120	3	17	180	0.5	1260	5	3.8
168	SCRS_168_08	10	0.6	1100	0.5	20	3	6	26	0.5	4070	3	2.9
169	SCRS_169_08	0.5	0.1	1630	0.5	50	3	16	60	0.5	420	2	2.2
175	SCRS_175_08	0.5	0.3	580	0.5	290	1	413	465	0.5	1960	151	102
176	SCRS_176_08	0.5	0.05	160	0.5	710	6	30	20	0.5	120	13	6.2
177	SCRS_177_08	0.5	0.1	200	0.5	630	3	6	65	0.5	290	3	1.7
178	SCRS_178_08	0.5	0.05	410	0.5	0.5	1	12	72	0.5	500	2	1.2
179	SCRS_179_08	40	0.05	430	1	30	3	165	47	0.5	160	18	8
180	SCRS_180_08	20	0.05	910	1	20	9	83	274	300	270	23	10.5

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
181	SCRS_181_08	20	0.1	530	0.5	430	3	23	352	0.5	750	5	3
182	SCRS_182_08	0.5	0.1	600	0.5	20	11	16	150	0.5	130	22	12.9
206	SCRS_206_08	0.5	0.1	2070	0.5	210	4	9	156	0.5	1550	3	2.1
261	SCRS_261_08	0.5	0.05	880	0.5	340	137	45	245	0.5	810	64	54.3
262	SCRS_262_08	0.5	0.05	430	0.5	660	93	49	19	0.5	90	15	9.9
263	SCRS_263_08	0.5	0.05	250	0.5	430	51	28	27	0.5	190	12	7.4
264	SCRS_264_08	0.5	0.05	280	0.5	580	17	12	64	0.5	500	2	1
265	SCRS_265_08	0.5	0.05	210	0.5	710	19	7	37	0.5	80	3	2.1
266	SCRS_266_08	0.5	0.05	290	0.5	800	19	2.5	23	0.5	40	3	1.4
267	SCRS_267_08	0.5	0.05	330	0.5	740	60	2.5	2.5	0.5	30	3	1.2
268	SCRS_268_08	0.5	0.05	90	0.5	520	14	2.5	11	0.5	50	0.5	0.25
269	SCRS_269_08	20	0.2	6980	0.5	360	48	962	840	0.5	1180	142	66.9
270	SCRS_270_08	0.5	0.3	4570	0.5	500	42	192	337	0.5	1820	65	36.2
31	SCRS_31_08	0.5	0.1	340	0.5	570	11	20	34	0.5	160	5	2.6
32	SCRS_32_08	0.5	0.2	600	0.5	390	7	725	16	0.5	740	172	107
33	SCRS_33_08	0.5	0.1	110	0.5	390	11	2.5	2.5	0.5	100	1	1.2
34	SCRS_34_08	0.5	0.05	80	0.5	340	12	2.5	2.5	0.5	30	1	1
35	SCRS_35_08	0.5	0.05	330	0.5	590	6	75	78	0.5	360	10	6
36	SCRS_36_08	0.5	0.1	150	0.5	320	3	28	188	0.5	350	3	1.8
37	SCRS_37_08	0.5	0.1	50	0.5	650	7	2.5	56	0.5	910	4	2.2
38	SCRS_38_08	0.5	0.1	140	0.5	630	3	37	237	0.5	1920	8	5.3
39	SCRS_39_08	10	0.2	130	0.5	670	1	48	545	0.5	2190	8	4.8
40	SCRS_40_08	0.5	0.2	160	0.5	810	23	5	14	0.5	350	12	6
41	SCRS_41_08	0.5	0.05	60	0.5	490	11	2.5	2.5	0.5	10	2	1.7
42	SCRS_42_08	0.5	0.05	50	0.5	390	14	2.5	2.5	0.5	10	1	0.8
80	SCRS_80_08	0.5	1.9	370	0.5	370	22	176	721	0.5	2450	16	8.4
81	SCRS_81_08	0.5	0.3	150	0.5	510	12	11	72	0.5	1540	6	3.4
82	SCRS_82_08	0.5	0.2	380	0.5	540	3	73	229	0.5	1230	15	8.4
83	SCRS_83_08	0.5	0.1	370	0.5	520	10	93	163	0.5	1210	24	12.8
84	SCRS_84_08	30	0.2	2100	0.5	110	13	588	197	0.5	750	203	113
85	SCRS_85_08	0.5	0.1	970	0.5	160	6	128	208	0.5	1430	29	15.9
86	SCRS_86_08	0.5	0.05	590	0.5	20	3	14	181	0.5	1320	15	14
87	SCRS_87_08	0.5	0.05	340	0.5	40	5	9	71	0.5	830	10	7.5
88	SCRS_88_08	0.5	0.05	190	0.5	620	3	19	124	0.5	1030	3	1.8
89	SCRS_89_08	0.5	0.05	620	0.5	290	5	18	67	0.5	400	14	7.4
90	SCRS_90_08	0.5	0.05	150	0.5	810	9	2.5	2.5	0.5	60	1	0.7
91	SCRS_91_08	0.5	0.05	60	0.5	540	18	2.5	2.5	0.5	20	5	3.4
92	SCRS_92_08	0.5	0.05	190	0.5	710	4	28	155	0.5	550	3	2.2
93	SCRS_93_08	0.5	0.1	80	0.5	680	16	2.5	2.5	0.5	10	3	1.8
94	SCRS_94_08	0.5	0.1	270	0.5	640	1	49	422	0.5	1170	7	4
95	SCRS_95_08	0.5	0.1	80	0.5	580	5	9	52	0.5	660	3	1.6
96	SCRS_96_08	0.5	0.2	180	0.5	640	9	28	185	0.5	2020	8	5.2
967	SCRS_967_08	20	0.3	210	0.5	480	3	19	95	0.5	3020	2	1.5
968	SCRS_968_08	0.5	0.1	220	0.5	710	5	20	141	0.5	1160	3	2.2
97	SCRS_97_08	10	0.5	1650	0.5	160	10	85	317	0.5	1820	44	29.3
	SCRS_980_08	0.5	0.4	160	0.5	590	7	6	9	0.5	560	6	2.9

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
1	SCRS_1_08	0.25	24	2	4	2.5	30	11	0.9	7	497	60
10	SCRS_10_08	0.25	11	0.5	0.5	2.5	95	2.5	0.25	1	190	50
11	SCRS_11_08	1.6	56	8	13	2.5	11	2.5	1	22	389	110
12	SCRS_12_08	2.8	437	12	41	2.5	12	2.5	2.3	49	722	30
13	SCRS_13_08	0.25	109	0.5	5	19	99	2.5	0.25	4	599	0.5
14	SCRS_14_08	7.7	196	34	84	2.5	7	2.5	5.5	110	249	890
15	SCRS_15_08	5.7	92	24	57	2.5	14	2.5	2.5	86	300	630
16	SCRS_16_08	2.6	20	13	14	5	30	2.5	0.25	26	564	40
17	SCRS_17_08	0.25	10	3	3	2.5	25	2.5	0.25	5	39	80
18	SCRS_18_08	2.5	88	11	24	2.5	13	2.5	2.6	32	136	420
19	SCRS_19_08	4.6	21	16	14	2.5	37	2.5	0.25	31	448	50
2	SCRS_2_08	8.2	93	38	81	2.5	14	6	1.6	149	184	180
20	SCRS_20_08	13.5	15	57	48	2.5	3	2.5	0.25	106	177	70
21	SCRS_21_08	1.8	13	11	5	2.5	10	2.5	0.25	17	135	0.5
22	SCRS_22_08	2.1	12	12	12	2.5	30	2.5	0.25	26	109	30
23	SCRS_23_08	0.8	6	5	3	2.5	4	2.5	0.25	9	45	30
24	SCRS_24_08	5.3	43	23	43	2.5	16	14	1.4	88	580	90
25	SCRS_25_08	3.6	58	17	36	2.5	20	8	1.1	66	3310	70
26	SCRS_26_08	1.8	54	9	18	2.5	3	2.5	1.3	32	277	50
27	SCRS_27_08	1.8	25	10	9	2.5	6	2.5	0.25	24	203	20
28	SCRS_28_08	0.25	31	2	5	2.5	4	6	1.1	8	228	30
29	SCRS_29_08	2.2	18	11	19	2.5	19	2.5	0.7	32	1470	40
3	SCRS_3_08	3.7	55	19	24	2.5	12	10	1.8	56	417	70
30	SCRS_30_08	5	80	22	36	2.5	25	7	1.7	66	580	110
4	SCRS_4_08	1.1	47	6	11	2.5	10	2.5	0.6	18	564	230
43	SCRS_43_08	0.5	15	3	4	2.5	9	2.5	0.25	7	87	20
44	SCRS_44_08	2.8	25	16	13	2.5	6	2.5	0.25	28	97	160
45	SCRS_45_08	0.25	10	2	1	2.5	13	2.5	0.25	2	82	20
46	SCRS_46_08	0.25	6	0.5	1	2.5	17	2.5	0.25	2	61	20
47	SCRS_47_08	0.6	15	4	4	2.5	13	2.5	0.25	8	47	170
48	SCRS_48_08	2.7	6	16	2	2.5	17	2.5	0.25	21	130	20
49	SCRS_49_08	7	72	35	70	2.5	14	2.5	0.7	127	54	20
5	SCRS_5_08	0.25	19	0.5	1	2.5	6	6	0.25	1	43	40
51	SCRS_51_08	0.25	11	2	2	2.5	15	2.5	0.25	4	57	40
52	SCRS_52_08	1.6	17	9	7	2.5	24	2.5	0.25	19	219	20
53	SCRS_53_08	1.3	11	6	9	2.5	9	2.5	0.25	16	76	20
54	SCRS_54_08	0.9	10	4	6	2.5	18	2.5	0.25	12	118	10
6	SCRS_6_08	1.4	62	7	21	2.5	11	2.5	1	32	213	20
7	SCRS_7_08	1.5	10	9	4	2.5	7	2.5	0.25	13	120	80
8	SCRS_8_08	5.6	56	28	79	2.5	11	2.5	0.25	125	129	20
9	SCRS_9_08	1	15	6	3	2.5	45	2.5	0.25	7	86	90
100	SCRS_100_08	0.9	184	3	13	2.5	0.5	2.5	3.5	11	61	30
101	SCRS_101_08	2	177	10	16	2.5	2	2.5	0.9	19	64	90
102	SCRS_102_08	4.2	72	18	27	2.5	1	2.5	2.1	42	34	230
103	SCRS_103_08	1.5	423	4	7	6	16	82	3.9	10	242	20

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
104	SCRS_104_08	1.6	357	4	9	2.5	3	85	4.1	10	185	50
105	SCRS_105_08	1.5	199	5	7	2.5	108	83	1	14	502	40
106	SCRS_106_08	2.2	63	9	18	2.5	1	2.5	1.7	24	51	310
114	SCRS_114_08	0.25	15	2	4	2.5	10	2.5	0.25	5	68	40
115	SCRS_115_08	8.2	254	43	36	2.5	23	2.5	0.25	71	537	190
116	SCRS_116_08	2.5	170	11	24	2.5	0.5	2.5	3	29	133	220
117	SCRS_117_08	2	315	9	29	2.5	1	2.5	2.5	31	119	20
118	SCRS_118_08	0.5	44	2	5	2.5	7	2.5	0.25	8	96	100
119	SCRS_119_08	1.6	194	8	7	2.5	16	7	1	13	83	60
120	SCRS_120_08	2.8	95	10	21	2.5	1	2.5	1.1	27	107	130
121	SCRS_121_08	1.6	238	7	14	2.5	28	8	0.8	20	190	40
122	SCRS_122_08	40.8	225	197	319	2.5	2	8	5.4	528	195	180
123	SCRS_123_08	3.1	306	14	20	2.5	13	10	1	30	415	50
124	SCRS_124_08	6.5	152	33	13	2.5	12	7	1.8	45	694	180
125	SCRS_125_08	1	161	4	9	2.5	6	2.5	2.4	10	135	150
126	SCRS_126_08	2.1	85	6	7	2.5	15	6	1.3	11	414	100
127	SCRS_127_08	0.8	4	4	2	2.5	49	2.5	0.25	5	88	40
128	SCRS_128_08	1	329	4	16	2.5	6	5	7.7	14	74	70
129	SCRS_129_08	2.6	13	12	10	2.5	48	2.5	0.25	24	284	80
130	SCRS_130_08	4.9	163	21	59	18	18	5	6.3	66	314	170
55	SCRS_55_08	3.1	18	15	15	2.5	10	2.5	0.25	38	216	20
56	SCRS_56_08	3	64	13	37	2.5	13	2.5	0.25	58	102	40
57	SCRS_57_08	2.2	40	11	15	2.5	21	2.5	0.25	26	237	230
58	SCRS_58_08	0.7	7	4	2	2.5	14	2.5	0.25	6	125	10
59	SCRS_59_08	3.2	38	14	27	2.5	12	6	0.6	53	414	20
60	SCRS_60_08	3.3	47	16	19	2.5	18	2.5	0.25	39	261	180
61	SCRS_61_08	7.1	265	31	43	2.5	2	8	6.3	75	119	170
62	SCRS_62_08	4.9	79	24	56	2.5	6	5	0.5	96	167	40
63	SCRS_63_08	0.25	4	3	3	2.5	2	2.5	0.25	6	61	10
64	SCRS_64_08	1.5	28	8	13	2.5	12	2.5	0.25	24	214	30
65	SCRS_65_08	0.25	5	0.5	0.5	7	16	2.5	0.25	1	92	0.5
66	SCRS_66_08	1.6	53	8	6	7	12	2.5	0.5	14	66	240
68	SCRS_68_08	1.1	8	5	3	2.5	2	2.5	0.25	11	139	10
69	SCRS_69_08	1.6	33	7	10	2.5	3	2.5	0.25	19	275	20
70	SCRS_70_08	0.6	8	3	3	2.5	16	2.5	0.25	6	84	20
71	SCRS_71_08	1.5	44	7	6	2.5	14	2.5	0.25	13	82	350
72	SCRS_72_08	3.5	16	17	12	2.5	13	2.5	0.25	27	317	80
73	SCRS_73_08	6.9	61	36	28	2.5	11	2.5	0.25	55	136	180
74	SCRS_74_08	2.6	63	13	16	2.5	13	2.5	0.25	30	185	170
75	SCRS_75_08	7.7	24	35	28	2.5	24	6	0.25	73	606	30
76	SCRS_76_08	5.3	461	21	57	2.5	8	2.5	3.6	69	312	20
77	SCRS_77_08	2.6	7	12	9	2.5	1	2.5	0.25	24	105	20
78	SCRS_78_08	0.8	6	4	4	2.5	4	2.5	0.25	8	86	60
79	SCRS_79_08	4.4	6	22	28	2.5	3	2.5	0.25	56	55	80

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
	SCRS_9104_08	1.9	380	5	8	2.5	3	118	5.6	11	179	110
98	SCRS_98_08	6	17	24	21	2.5	3	2.5	0.25	50	59	30
99	SCRS_99_08	1.2	373	5	17	2.5	8	2.5	4.5	16	67	20
	555_1_08	0.25	18	2	0.5	2.5	6	8	0.25	0.5	1060	20
	555_2_08	14.4	83	64	354	2.5	7	5	3.5	301	174	730
	555_3_08	324	23	1480	11600	2.5	19	2.5	0.7	9090	114	370
	555_4_08	3.2	23	14	26	2.5	0.5	2.5	1	44	207	60
	555_5_08	46.1	21	219	366	2.5	18	2.5	0.7	820	553	50
	555_6_08	53.6	23	257	412	2.5	0.5	2.5	1.4	827	52	140
	555_7_08	9.5	9	53	36	2.5	6	2.5	1.2	115	103	40
	555_8_08	6.9	34	35	24	2.5	3	2.5	2.9	62	96	140
	555_91_08	0.25	9	0.5	0.5	6	9	6	0.25	0.5	228	0.5
110	SCRS_110_08	0.7	28	3	8	2.5	6	2.5	0.25	11	249	30
111	SCRS_111_08	2.4	125	12	22	2.5	6	2.5	0.7	37	460	370
112	SCRS_112_08	1.3	194	6	11	2.5	4	2.5	0.25	19	405	50
113	SCRS_113_08	0.25	11	3	2	2.5	14	2.5	0.25	4	792	0.5
149	SCRS_149_08	1.7	13	11	0.5	2.5	20	2.5	0.25	8	241	20
150	SCRS_150_08	0.25	8	2	0.5	2.5	36	2.5	0.25	3	56	50
151	SCRS_151_08	8	46	40	68	2.5	23	2.5	0.5	142	254	10
152	SCRS_152_08	8.7	164	46	56	2.5	159	2.5	0.9	107	356	80
153	SCRS_153_08	1.6	27	9	10	2.5	33	2.5	0.25	22	119	0.5
154	SCRS_154_08	4.1	89	18	37	2.5	7	2.5	2.2	50	83	110
155	SCRS_155_08	1.9	5	13	5	2.5	37	2.5	0.25	23	405	0.5
156	SCRS_156_08	0.25	11	2	1	2.5	46	2.5	0.25	3	48	50
157	SCRS_157_08	0.6	12	3	1	2.5	25	2.5	0.25	6	192	0.5
158	SCRS_158_08	1.5	73	8	16	2.5	17	2.5	0.6	28	352	90
170	SCRS_170_08	10.2	173	57	139	2.5	9	5	17.2	186	107	220
171	SCRS_171_08	0.6	12	3	1	2.5	12	2.5	0.25	4	53	50
172	SCRS_172_08	1.6	16	10	7	2.5	25	2.5	0.25	18	134	50
173	SCRS_173_08	2.9	64	14	19	2.5	55	7	0.6	39	464	10
174	SCRS_174_08	32.7	25	168	210	2.5	119	2.5	0.25	407	247	20
183	SCRS_183_08	0.25	114	0.5	0.5	2.5	7	2.5	1.1	0.5	46	0.5
184	SCRS_184_08	0.9	189	4	12	7	4	2.5	2.4	12	76	30
185	SCRS_185_08	2	369	9	17	2.5	18	2.5	1.8	26	422	60
186	SCRS_186_08	0.7	149	3	13	2.5	1	2.5	7.3	10	27	160
187	SCRS_187_08	2.1	15	8	15	2.5	28	6	0.25	27	795	30
188	SCRS_188_08	3.8	120	20	8	2.5	47	6	0.25	27	175	60
189	SCRS_189_08	10.3	180	56	38	2.5	7	8	2	85	449	300
199	SCRS_199_08	1.5	89	6	8	2.5	1	2.5	2.4	16	58	470
200	SCRS_200_08	0.6	128	3	11	2.5	1	2.5	7.2	9	67	200
201	SCRS_201_08	1.1	140	6	7	2.5	3	2.5	1.3	11	53	30
202	SCRS_202_08	4.8	150	25	25	2.5	3	2.5	3.7	45	84	190
203	SCRS_203_08	4.7	159	21	39	2.5	1	2.5	3.8	57	174	130
204	SCRS_204_08	1.1	204	6	8	2.5	5	7	3.5	12	173	50
205	SCRS_205_08	1.5	191	5	12	2.5	82	13	1	21	1090	20
211	SCRS_211_08	6.8	121	38	26	2.5	8	2.5	3.6	55	110	130
212	SCRS_212_08	0.7	5	4	2	2.5	35	2.5	0.25	5	128	0.5

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
213	SCRS_213_08	3.4	13	19	11	2.5	91	2.5	0.25	32	237	40
214	SCRS_214_08	2.6	29	13	14	2.5	53	2.5	0.25	30	184	70
215	SCRS_215_08	1	170	6	8	2.5	3	2.5	2.1	12	45	50
216	SCRS_216_08	7.7	93	28	72	2.5	12	2.5	0.25	103	495	20
217	SCRS_217_08	0.8	45	3	5	2.5	96	36	0.25	10	1420	20
218	SCRS_218_08	0.25	246	3	2	2.5	5	2.5	0.25	4	419	30
219	SCRS_219_08	0.25	100	0.5	0.5	2.5	5	2.5	0.25	0.5	62	0.5
220	SCRS_220_08	20.1	70	87	207	2.5	49	2.5	1.2	292	425	130
221	SCRS_221_08	0.25	125	2	6	7	6	2.5	2	6	125	50
222	SCRS_222_08	11	56	48	64	2.5	87	2.5	0.25	117	595	150
229	SCRS_229_08	3.7	174	19	13	2.5	3	2.5	3	28	152	170
230	SCRS_230_08	0.5	171	3	7	2.5	3	2.5	3	6	36	110
231	SCRS_231_08	0.7	206	3	10	2.5	6	2.5	1.4	13	65	0.5
232	SCRS_232_08	0.25	120	0.5	0.5	2.5	2	2.5	0.25	0.5	29	0.5
233	SCRS_233_08	1.5	70	7	7	2.5	24	2.5	2.3	16	131	280
234	SCRS_234_08	2.8	103	13	20	2.5	61	79	0.9	41	2190	20
235	SCRS_235_08	8.1	118	39	47	12	47	2.5	0.6	102	568	130
236	SCRS_236_08	6.4	75	36	44	2.5	32	2.5	0.6	86	1420	580
237	SCRS_237_08	6.1	230	31	47	2.5	31	2.5	0.6	85	784	180
238	SCRS_238_08	0.25	149	0.5	2	2.5	67	15	0.25	2	287	20
239	SCRS_239_08	40.4	393	192	451	2.5	78	8	2.1	717	617	70
244	SCRS_244_08	50.7	27	176	496	2.5	23	2.5	0.8	753	687	70
245	SCRS_245_08	4.6	205	17	39	2.5	29	31	1.5	55	750	20
246	SCRS_246_08	7.5	34	31	62	2.5	0.5	2.5	1.2	103	49	150
247	SCRS_247_08	0.7	287	3	8	2.5	22	2.5	3.7	10	200	30
248	SCRS_248_08	11.3	145	54	50	2.5	33	11	0.6	96	512	240
249	SCRS_249_08	25.2	110	109	191	2.5	10	2.5	0.8	310	229	70
250	SCRS_250_08	5.1	58	23	34	5	32	2.5	0.25	63	1000	180
251	SCRS_251_08	5.6	118	29	59	2.5	20	6	0.7	105	464	50
252	SCRS_252_08	3.6	81	20	32	2.5	66	12	0.6	56	1100	160
253	SCRS_253_08	1.7	93	8	17	2.5	24	10	1	27	732	150
254	SCRS_254_08	27.7	40	148	207	2.5	198	10	0.25	411	2730	180
255	SCRS_255_08	2.4	375	11	41	2.5	2	2.5	3.1	39	119	20
277	SCRS_277_08	1.1	12	6	11	2.5	4	2.5	0.25	18	47	40
278	SCRS_278_08	0.7	6	3	3	2.5	4	2.5	0.25	7	61	10
279	SCRS_279_08	1.8	11	10	9	2.5	137	2.5	0.25	23	186	30
280	SCRS_280_08	2	13	12	8	2.5	55	2.5	0.25	21	241	30
281	SCRS_281_08	1	132	5	10	2.5	37	20	1	17	571	100
282	SCRS_282_08	3.1	22	15	5	7	62	12	0.25	28	1160	20
283	SCRS_283_08	2.2	449	13	32	2.5	46	8	2.3	41	444	20
	5552_1_08	0.7	62	4	15	2.5	14	23	0.6	18	1340	30
	5552_2_08	29.8	16	123	577	2.5	0.5	2.5	1.4	687	22	1320
	5552_3_08	7.2	48	37	34	2.5	3	2.5	1.5	67	135	160
	5552_4_08	19.6	21	91	114	2.5	1	5	0.7	239	131	50
	5552_5_08	10	43	58	41	2.5	23	2.5	0.7	115	368	20
	5552_6_08	4.1	74	21	25	2.5	6	5	1.9	45	214	130
	5552_7_08	1.6	98	8	9	2.5	9	2.5	2.3	16	71	190
	5552_8_08	3.4	28	17	15	2.5	3	2.5	0.8	31	109	240
107	SCRS_107_08	0.7	249	4	15	2.5	46	2.5	1.3	13	248	10
108	SCRS_108_08	7.2	183	36	45	2.5	70	2.5	1.6	82	612	360

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
109	SCRS_109_08	3.8	68	21	24	7	103	2.5	0.25	45	4520	40
190	SCRS_190_08	1.8	9	9	6	5	17	2.5	0.25	18	205	20
191	SCRS_191_08	0.7	403	3	8	7	16	5	1.6	10	247	30
192	SCRS_192_08	1.2	79	7	6	14	2	2.5	1.3	10	86	240
193	SCRS_193_08	0.25	12	3	3	5	40	2.5	0.25	6	53	30
194	SCRS_194_08	0.8	309	4	6	10	6	2.5	2.4	10	72	0.5
195	SCRS_195_08	1	71	4	8	7	0.5	2.5	1	10	123	190
196	SCRS_196_08	12.7	84	60	61	7	5	2.5	3.1	95	294	170
197	SCRS_197_08	0.9	8	5	3	2.5	69	2.5	0.25	10	170	20
198	SCRS_198_08	1.3	12	8	7	2.5	38	2.5	0.25	16	40	30
207	SCRS_207_08	1.8	141	9	14	2.5	14	2.5	0.25	25	441	60
208	SCRS_208_08	4.5	491	21	37	2.5	3	7	5.1	47	209	30
209	SCRS_209_08	0.8	54	4	9	6	0.5	2.5	1	10	126	60
210	SCRS_210_08	11.7	133	63	39	5	8	2.5	3.9	89	239	270
223	SCRS_223_08	1	10	5	4	2.5	32	2.5	0.25	9	88	50
224	SCRS_224_08	3.6	351	18	27	2.5	5	9	4.8	38	195	40
225	SCRS_225_08	1.4	161	8	12	2.5	16	2.5	1.9	17	144	190
226	SCRS_226_08	1	163	7	7	2.5	20	2.5	0.25	13	136	120
227	SCRS_227_08	0.9	299	5	10	2.5	20	2.5	2.8	13	87	20
228	SCRS_228_08	2.8	80	22	18	2.5	19	2.5	1.3	36	189	80
236	SCRS_236_08	2.2	297	11	32	2.5	18	23	1.6	36	230	20
240	SCRS_240_08	1.9	21	7	19	2.5	168	18	1.2	31	791	20
241	SCRS_241_08	1.6	40	10	7	2.5	26	2.5	0.25	15	71	110
242	SCRS_242_08	21.6	231	118	102	2.5	52	15	3	228	221	110
243	SCRS_243_08	6.4	175	33	26	5	32	6	4.1	59	210	60
257	SCRS_257_08	3.7	28	20	17	2.5	38	5	0.25	38	1180	250
258	SCRS_258_08	5.4	79	24	34	8	68	2.5	1.9	67	336	80
259	SCRS_259_08	5.4	123	28	33	2.5	70	10	0.7	58	3060	580
260	SCRS_260_08	1	323	6	17	2.5	21	2.5	1.7	19	166	80
271	SCRS_271_08	2.2	24	13	17	2.5	18	2.5	0.25	28	82	500
272	SCRS_272_08	3.7	17	22	20	2.5	67	2.5	0.25	39	74	410
273	SCRS_273_08	4.6	85	28	18	2.5	78	2.5	0.25	41	101	550
274	SCRS_274_08	2.8	72	15	16	2.5	47	2.5	1	28	166	4100
275	SCRS_275_08	0.25	132	3	5	7	10	2.5	0.25	8	37	40
276	SCRS_276_08	0.25	119	1	4	2.5	3	2.5	1	4	50	0.5
284	SCRS_284_08	0.25	174	2	5	2.5	10	2.5	1	6	54	20
285	SCRS_285_08	1.1	9	7	0.5	2.5	7	2.5	0.25	2	92	30
286	SCRS_286_08	3.1	13	16	26	2.5	13	2.5	0.25	55	96	680
287	SCRS_287_08	1.6	65	7	22	2.5	14	2.5	0.25	30	72	50
288	SCRS_288_08	0.25	3	1	0.5	2.5	32	2.5	0.25	1	30	30
289	SCRS_289_08	22.3	25	119	75	2.5	30	2.5	0.25	288	91	30
290	SCRS_290_08	3	119	17	14	2.5	22	2.5	0.25	35	181	70
291	SCRS_291_08	2	19	10	15	2.5	198	5	0.25	32	1140	0.5
292	SCRS_292_08	8.6	338	43	89	2.5	128	9	1.5	148	696	30
293	SCRS_293_08	0.25	31	2	5	2.5	49	2.5	0.25	7	96	20
294	SCRS_294_08	2.5	97	12	25	2.5	74	56	0.7	45	1230	20
295	SCRS_295_08	1.2	7	8	0.5	2.5	9	2.5	0.25	1	179	10
296	SCRS_296_08	1.1	11	6	6	2.5	5	2.5	0.25	15	245	10
297	SCRS_297_08	2.7	93	15	23	2.5	30	2.5	0.25	56	665	30
298	SCRS_298_08	8	122	38	141	2.5	9	2.5	0.5	189	127	40
299	SCRS_299_08	3.9	22	22	19	2.5	96	2.5	0.25	48	436	40

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppm	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
300	SCRS_300_08	6.7	38	37	38	2.5	98	2.5	0.25	79	1530	80
301	SCRS_301_08	2.9	113	14	29	2.5	18	2.5	0.25	42	175	0.5
302	SCRS_302_08	4.2	46	22	39	2.5	44	2.5	0.25	64	588	30
303	SCRS_303_08	5.1	7	34	0.5	2.5	3	2.5	0.25	6	599	40
304	SCRS_304_08	2	16	11	7	2.5	10	2.5	0.25	25	303	20
305	SCRS_305_08	6.1	47	29	47	2.5	16	2.5	0.5	122	261	10
306	SCRS_306_08	44.1	27	220	147	2.5	48	2.5	0.25	577	195	70
307	SCRS_307_08	3.7	116	18	63	2.5	11	2.5	0.25	79	100	30
308	SCRS_308_08	0.9	110	6	8	2.5	18	32	0.5	16	1310	40
309	SCRS_309_08	1	71	5	11	2.5	28	2.5	0.8	18	179	0.5
310	SCRS_310_08	2.6	247	13	15	2.5	11	2.5	0.8	25	458	20
311	SCRS_311_08	1	14	5	1	2.5	53	2.5	0.25	5	360	0.5
312	SCRS_312_08	0.25	14	1	0.5	12	60	6	0.25	2	1070	10
313	SCRS_313_08	1.4	191	7	9	2.5	28	2.5	0.6	16	482	20
50	SCRS_50_08	0.25	15	1	2	2.5	18	2.5	0.6	3	65	20
67	SCRS_67_08	1.2	155	6	9	2.5	4	2.5	0.6	14	104	50
	SCRS_9211_08	2.8	266	15	15	2.5	13	2.5	1.1	22	115	20
131	SCRS_131_08	0.25	5	0.5	0.5	2.5	5	2.5	0.25	1	96	10
132	SCRS_132_08	0.25	6	1	0.5	2.5	4	2.5	0.25	1	167	0.5
133	SCRS_133_08	3	14	16	11	2.5	20	2.5	0.25	26	131	100
134	SCRS_134_08	10.3	24	59	60	2.5	17	2.5	0.25	119	287	70
135	SCRS_135_08	1.6	7	10	6	2.5	42	2.5	0.25	23	177	0.5
136	SCRS_136_08	7.4	56	41	74	2.5	18	2.5	0.25	116	256	40
137	SCRS_137_08	1.2	28	5	7	2.5	30	2.5	0.25	14	397	10
138	SCRS_138_08	3.3	280	17	18	2.5	2	2.5	7.8	32	91	320
139	SCRS_139_08	2.4	508	9	20	2.5	6	2.5	1.6	26	325	20
140	SCRS_140_08	2.5	138	12	25	2.5	11	2.5	1.4	41	101	60
141	SCRS_141_08	1.7	34	8	12	2.5	5	2.5	0.25	22	143	20
142	SCRS_142_08	0.8	107	3	6	2.5	21	6	0.7	10	307	30
143	SCRS_143_08	3.7	64	16	40	2.5	2	2.5	2.3	60	51	370
144	SCRS_144_08	2.8	386	14	14	2.5	65	13	1	29	234	70
145	SCRS_145_08	2.9	605	12	22	2.5	7	13	2.6	31	542	20
146	SCRS_146_08	3.5	72	17	15	2.5	0.5	2.5	0.9	36	87	220
147	SCRS_147_08	0.25	308	1	3	2.5	1	2.5	1.2	3	96	0.5
148	SCRS_148_08	0.25	9	0.5	0.5	2.5	44	2.5	0.25	0.5	534	0.5
159	SCRS_159_08	0.25	7	1	1	2.5	35	2.5	0.25	3	72	20
160	SCRS_160_08	0.8	140	4	3	2.5	13	2.5	1.2	5	82	330
161	SCRS_161_08	5.3	52	29	41	2.5	20	2.5	0.25	65	623	70
162	SCRS_162_08	1	38	5	6	2.5	13	2.5	0.25	12	71	120
163	SCRS_163_08	1.6	35	9	6	2.5	16	2.5	0.25	14	62	190
164	SCRS_164_08	1.3	203	8	3	2.5	2	2.5	3	8	112	270
165	SCRS_165_08	0.6	7	3	1	2.5	79	2.5	0.25	3	174	40
166	SCRS_166_08	10.4	76	54	52	2.5	15	2.5	2	88	155	480
167	SCRS_167_08	1.6	380	3	8	2.5	49	2.5	0.25	9	392	0.5
168	SCRS_168_08	0.9	449	3	3	6	6	24	3.1	6	593	10
169	SCRS_169_08	0.9	482	2	8	8	14	7	2.3	8	79	0.5
175	SCRS_175_08	19.5	79	139	168	2.5	166	2.5	0.8	274	350	70
176	SCRS_176_08	3.7	12	21	14	2.5	38	2.5	0.25	41	155	0.5
177	SCRS_177_08	1.1	8	5	3	2.5	82	2.5	0.25	10	263	0.5
178	SCRS_178_08	0.25	217	2	6	2.5	2	2.5	2.5	5	72	10
179	SCRS_179_08	6.7	188	30	56	2.5	3	2.5	7	98	65	380
180	SCRS_180_08	6.1	235	26	30	7	6	2.5	3.3	59	215	260

GRID_ID	ELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_p	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
181	SCRS_181_08	1.4	340	7	8	2.5	72	8	1	18	204	30
182	SCRS_182_08	2	126	12	6	2.5	3	2.5	1.6	13	108	240
206	SCRS_206_08	0.8	500	2	4	2.5	27	2.5	0.25	5	1620	0.5
261	SCRS_261_08	5.5	112	37	29	2.5	34	2.5	0.25	62	117	4350
262	SCRS_262_08	2.5	16	15	13	2.5	93	2.5	0.25	27	95	230
263	SCRS_263_08	1.5	43	10	15	2.5	39	2.5	0.25	22	107	250
264	SCRS_264_08	0.7	66	3	5	2.5	15	8	0.25	8	341	30
265	SCRS_265_08	0.6	45	3	3	2.5	17	2.5	0.25	6	96	70
266	SCRS_266_08	0.5	9	3	2	2.5	9	2.5	0.25	4	84	40
267	SCRS_267_08	0.6	7	3	2	2.5	168	2.5	0.25	6	163	20
268	SCRS_268_08	0.25	3	0.5	0.5	2.5	21	2.5	0.25	0.5	116	0.5
269	SCRS_269_08	27.4	211	193	352	2.5	76	2.5	1.4	558	625	150
270	SCRS_270_08	11.9	84	71	76	2.5	139	2.5	0.25	152	822	160
31	SCRS_31_08	1.5	16	7	10	2.5	2	2.5	0.25	19	84	30
32	SCRS_32_08	35	30	208	147	2.5	5	2.5	0.25	460	635	150
33	SCRS_33_08	0.25	6	1	0.5	2.5	4	2.5	0.25	1	175	0.5
34	SCRS_34_08	0.25	4	0.5	0.5	2.5	7	2.5	0.25	0.5	59	0.5
35	SCRS_35_08	2.3	79	13	22	2.5	4	2.5	1	40	73	30
36	SCRS_36_08	1.2	104	6	11	2.5	42	9	0.9	17	196	120
37	SCRS_37_08	0.8	12	5	0.5	2.5	29	2.5	0.25	4	526	10
38	SCRS_38_08	1.9	95	9	14	2.5	13	9	0.25	27	1220	110
39	SCRS_39_08	2.1	90	11	15	2.5	19	7	0.25	30	1080	60
40	SCRS_40_08	2.7	8	15	3	2.5	10	2.5	0.25	19	474	20
41	SCRS_41_08	0.25	5	1	0.5	2.5	9	2.5	0.25	0.5	69	20
42	SCRS_42_08	0.25	7	0.5	0.5	2.5	5	2.5	0.25	0.5	62	0.5
80	SCRS_80_08	4.5	201	20	35	2.5	19	2.5	0.25	64	601	50
81	SCRS_81_08	1.3	9	8	3	2.5	13	2.5	0.25	12	305	0.5
82	SCRS_82_08	4.1	95	21	28	2.5	24	10	0.25	53	418	20
83	SCRS_83_08	5.3	116	28	44	2.5	9	2.5	0.25	69	388	190
84	SCRS_84_08	48	80	242	333	2.5	6	2.5	2.7	602	214	220
85	SCRS_85_08	6.4	45	34	63	2.5	18	2.5	0.9	88	153	60
86	SCRS_86_08	1.3	176	6	7	2.5	4	2.5	0.9	10	65	200
87	SCRS_87_08	1	114	4	4	2.5	4	2.5	0.25	6	81	140
88	SCRS_88_08	0.8	58	4	8	2.5	45	5	0.25	12	305	50
89	SCRS_89_08	2.7	230	16	9	2.5	13	2.5	0.8	18	122	110
90	SCRS_90_08	0.25	5	2	0.5	2.5	39	2.5	0.25	3	102	0.5
91	SCRS_91_08	0.6	7	4	1	2.5	6	2.5	0.25	5	153	0.5
92	SCRS_92_08	0.9	42	5	10	2.5	5	7	0.25	16	207	0.5
93	SCRS_93_08	0.25	8	3	1	2.5	5	2.5	0.25	4	85	0.5
94	SCRS_94_08	1.7	113	9	17	2.5	11	2.5	0.7	29	301	10
95	SCRS_95_08	0.5	55	3	4	2.5	43	2.5	0.25	6	204	60
96	SCRS_96_08	1.8	57	8	12	2.5	40	2.5	0.25	23	313	0.5
967	SCRS_967_08	0.7	31	3	5	2.5	22	19	0.9	10	850	60
968	SCRS_968_08	1	43	4	10	2.5	11	2.5	0.6	16	220	10
97	SCRS_97_08	7.5	265	38	44	2.5	13	2.5	1.1	75	474	90
	SCRS_980_08	1.2	7	8	4	2.5	4	2.5	0.25	13	137	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
1	SCRS_1_08	0.5	2	0.5	2.5	0.5	2.5	2	0.5	4210	0.5	0.5	0.5
10	SCRS_10_08	0.5	0.5	0.5	15	0.5	8	0.5	0.5	5360	0.5	0.5	0.5
11	SCRS_11_08	0.5	5	0.5	9	0.5	8	6	0.5	3460	0.5	1	0.5
12	SCRS_12_08	0.5	12	0.5	41	0.5	29	11	0.5	510	0.5	2	0.5
13	SCRS_13_08	0.5	1	0.5	17	0.5	13	0.5	0.5	1130	0.5	0.5	0.5
14	SCRS_14_08	0.5	26	0.5	99	1	51	30	0.5	230	0.5	6	0.5
15	SCRS_15_08	0.5	19	0.5	115	0.5	27	20	0.5	370	0.5	4	0.5
16	SCRS_16_08	0.5	5	0.5	31	0.5	2.5	8	0.5	4170	0.5	2	0.5
17	SCRS_17_08	0.5	0.5	0.5	20	0.5	2.5	2	0.5	4000	0.5	0.5	0.5
18	SCRS_18_08	0.5	8	0.5	120	0.5	31	8	0.5	790	0.5	2	0.5
19	SCRS_19_08	0.5	6	0.5	33	0.5	9	11	0.5	4740	0.5	2	0.5
2	SCRS_2_08	0.5	32	0.5	10	2	14	36	0.5	3140	0.5	6	0.5
20	SCRS_20_08	0.5	20	0.5	21	0.5	8	37	0.5	3230	0.5	8	0.5
21	SCRS_21_08	0.5	3	0.5	25	0.5	2.5	7	0.5	5130	0.5	2	0.5
22	SCRS_22_08	0.5	5	0.5	28	0.5	5	8	0.5	3230	0.5	2	0.5
23	SCRS_23_08	0.5	2	0.5	9	0.5	2.5	3	0.5	2680	0.5	0.5	0.5
24	SCRS_24_08	0.5	19	0.5	11	2	8	22	0.5	3530	0.5	3	0.5
25	SCRS_25_08	0.5	14	0.5	15	0.5	10	15	0.5	4290	0.5	2	0.5
26	SCRS_26_08	0.5	7	0.5	12	1	7	7	0.5	1790	0.5	2	0.5
27	SCRS_27_08	0.5	5	0.5	26	1	2.5	7	0.5	2920	0.5	1	0.5
28	SCRS_28_08	0.5	2	0.5	7	2	2.5	2	0.5	1740	0.5	0.5	0.5
29	SCRS_29_08	0.5	7	0.5	13	2	2.5	8	0.5	6860	0.5	2	0.5
3	SCRS_3_08	0.5	12	0.5	2.5	4	8	16	0.5	3740	0.5	3	0.5
30	SCRS_30_08	0.5	14	0.5	27	1	14	18	0.5	3850	0.5	3	0.5
4	SCRS_4_08	0.5	4	0.5	8	2	5	5	0.5	2570	0.5	0.5	0.5
43	SCRS_43_08	0.5	2	0.5	11	0.5	2.5	2	0.5	4240	0.5	0.5	0.5
44	SCRS_44_08	0.5	6	0.5	6	0.5	6	10	0.5	3310	0.5	3	0.5
45	SCRS_45_08	0.5	0.5	0.5	25	0.5	2.5	1	0.5	2710	0.5	0.5	0.5
46	SCRS_46_08	0.5	0.5	0.5	20	0.5	2.5	0.5	0.5	2300	0.5	0.5	0.5
47	SCRS_47_08	0.5	2	0.5	5	0.5	2.5	2	0.5	1660	0.5	0.5	0.5
48	SCRS_48_08	0.5	2	0.5	28	0.5	2.5	10	0.5	1420	0.5	2	0.5
49	SCRS_49_08	0.5	27	0.5	38	0.5	16	30	0.5	4250	0.5	5	0.5
5	SCRS_5_08	0.5	0.5	0.5	13	1	2.5	0.5	0.5	1850	0.5	0.5	0.5
51	SCRS_51_08	0.5	0.5	0.5	8	0.5	2.5	1	0.5	3130	0.5	0.5	0.5
52	SCRS_52_08	0.5	4	0.5	25	0.5	2.5	6	0.5	1430	0.5	1	0.5
53	SCRS_53_08	0.5	3	0.5	27	0.5	2.5	4	0.5	1410	0.5	0.5	0.5
54	SCRS_54_08	0.5	2	0.5	26	0.5	2.5	3	0.5	1520	0.5	0.5	0.5
6	SCRS_6_08	0.5	8	0.5	31	0.5	19	7	0.5	1870	0.5	1	0.5
7	SCRS_7_08	0.5	2	0.5	21	0.5	2.5	5	0.5	1740	0.5	1	0.5
8	SCRS_8_08	0.5	29	0.5	22	0.5	29	26	0.5	2800	0.5	4	0.5
9	SCRS_9_08	0.5	1	0.5	72	0.5	2.5	3	0.5	2460	0.5	1	0.5
100	SCRS_100_08	0.5	3	0.5	46	0.5	25	3	0.5	60	0.5	0.5	0.5
101	SCRS_101_08	0.5	4	0.5	110	0.5	48	6	0.5	90	0.5	3	0.5
102	SCRS_102_08	0.5	9	0.5	78	0.5	69	13	0.5	40	0.5	3	0.5
103	SCRS_103_08	0.5	2	0.5	24	10	37	3	0.5	610	0.5	0.5	0.5

GRID_ID	LD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
104	SCRS_104_08	0.5	2	0.5	60	42	34	3	0.5	190	0.5	0.5	0.5
105	SCRS_105_08	0.5	3	0.5	2.5	2	31	4	0.5	850	0.5	0.5	0.5
106	SCRS_106_08	0.5	6	0.5	208	0.5	33	7	0.5	60	0.5	2	0.5
114	SCRS_114_08	0.5	1	0.5	2.5	2	5	1	0.5	860	0.5	0.5	0.5
115	SCRS_115_08	0.5	14	0.5	16	0.5	97	25	0.5	1070	0.5	8	0.5
116	SCRS_116_08	0.5	7	0.5	96	0.5	61	7	0.5	70	0.5	2	0.5
117	SCRS_117_08	0.5	7	0.5	101	0.5	29	7	0.5	120	0.5	1	0.5
118	SCRS_118_08	0.5	2	0.5	2.5	1	8	2	0.5	1240	0.5	0.5	0.5
119	SCRS_119_08	0.5	3	0.5	36	2	60	4	0.5	490	0.5	2	0.5
120	SCRS_120_08	0.5	7	0.5	173	0.5	61	8	0.5	160	0.5	2	0.5
121	SCRS_121_08	0.5	4	0.5	37	0.5	31	5	0.5	650	0.5	1	0.5
122	SCRS_122_08	0.5	113	0.5	89	4	323	148	0.5	110	0.5	32	0.5
123	SCRS_123_08	0.5	6	0.5	33	2	68	9	0.5	480	0.5	3	0.5
124	SCRS_124_08	0.5	7	0.5	65	3	36	18	0.5	530	0.5	6	0.5
125	SCRS_125_08	0.5	2	0.5	70	1	45	2	0.5	140	0.5	1	0.5
126	SCRS_126_08	0.5	2	0.5	60	2	43	4	0.5	450	0.5	1	0.5
127	SCRS_127_08	0.5	0.5	0.5	12	0.5	2.5	2	0.5	610	0.5	0.5	0.5
128	SCRS_128_08	0.5	3	0.5	32	1	42	3	0.5	120	0.5	0.5	0.5
129	SCRS_129_08	0.5	4	0.5	17	0.5	12	8	0.5	1460	0.5	2	0.5
130	SCRS_130_08	0.5	16	0.5	30	1	120	16	2	180	0.5	4	0.5
55	SCRS_55_08	0.5	7	0.5	63	0.5	13	11	0.5	3550	0.5	2	0.5
56	SCRS_56_08	0.5	13	0.5	21	0.5	20	12	0.5	1510	0.5	2	0.5
57	SCRS_57_08	0.5	5	0.5	2.5	0.5	12	8	0.5	1540	0.5	2	0.5
58	SCRS_58_08	0.5	1	0.5	6	0.5	2.5	2	0.5	1190	0.5	0.5	0.5
59	SCRS_59_08	0.5	11	0.5	16	0.5	11	13	0.5	1060	0.5	2	0.5
60	SCRS_60_08	0.5	8	0.5	2.5	0.5	12	12	0.5	1600	0.5	2	0.5
61	SCRS_61_08	0.5	16	0.5	132	1	72	23	0.5	130	0.5	5	0.5
62	SCRS_62_08	0.5	21	0.5	18	0.5	68	21	0.5	540	0.5	4	0.5
63	SCRS_63_08	0.5	1	0.5	11	0.5	2.5	2	0.5	2040	0.5	0.5	0.5
64	SCRS_64_08	0.5	5	0.5	12	0.5	6	6	0.5	1510	0.5	1	0.5
65	SCRS_65_08	0.5	0.5	0.5	2.5	0.5	2.5	0.5	0.5	1190	0.5	0.5	0.5
66	SCRS_66_08	0.5	3	0.5	13	0.5	8	5	0.5	1050	0.5	1	0.5
68	SCRS_68_08	0.5	2	0.5	10	0.5	2.5	4	0.5	990	0.5	0.5	0.5
69	SCRS_69_08	0.5	4	0.5	5	0.5	8	6	0.5	1330	0.5	1	0.5
70	SCRS_70_08	0.5	1	0.5	2.5	0.5	2.5	2	0.5	2370	0.5	0.5	0.5
71	SCRS_71_08	0.5	3	0.5	8	0.5	11	5	0.5	960	0.5	1	0.5
72	SCRS_72_08	0.5	5	0.5	8	0.5	6	10	0.5	2600	0.5	3	0.5
73	SCRS_73_08	0.5	11	0.5	5	0.5	33	20	0.5	1580	0.5	7	0.5
74	SCRS_74_08	0.5	6	0.5	2.5	0.5	18	9	0.5	2340	0.5	2	0.5
75	SCRS_75_08	0.5	13	0.5	10	0.5	23	26	0.5	1520	0.5	5	0.5
76	SCRS_76_08	0.5	16	0.5	114	0.5	124	17	0.5	270	0.5	4	0.5
77	SCRS_77_08	0.5	4	0.5	36	0.5	2.5	8	0.5	2450	0.5	2	0.5
78	SCRS_78_08	0.5	2	0.5	10	0.5	5	3	0.5	1570	0.5	0.5	0.5
79	SCRS_79_08	0.5	11	0.5	36	0.5	10	17	0.5	1000	0.5	3	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
	SCRS_9104_08	0.5	2	0.5	80	62	51	3	2	220	0.5	0.5	0.5
98	SCRS_98_08	0.5	9	0.5	51	0.5	10	18	0.5	2110	0.5	3	0.5
99	SCRS_99_08	0.5	4	0.5	25	0.5	29	3	0.5	190	0.5	0.5	0.5
	555_1_08	0.5	0.5	0.5	8	1	6	0.5	0.5	3560	0.5	0.5	0.5
	555_2_08	2	80	0.5	178	4	54	61	0.5	130	0.5	9	0.5
	555_3_08	2	2480	0.5	109	0.5	235	1650	0.5	240	0.5	161	0.5
	555_4_08	0.5	9	0.5	91	0.5	27	13	0.5	30	0.5	3	0.5
	555_5_08	1	160	0.5	159	0.5	132	208	0.5	430	0.5	25	0.5
	555_6_08	0.5	167	0.5	144	1	124	217	0.5	30	0.5	36	0.5
	555_7_08	0.5	20	0.5	72	0.5	19	39	0.5	120	0.5	8	0.5
	555_8_08	0.5	12	0.5	129	1	60	22	0.5	40	0.5	7	0.5
	555_91_08	0.5	0.5	0.5	2.5	1	2.5	0.5	0.5	4500	0.5	0.5	0.5
110	SCRS_110_08	0.5	2	0.5	8	0.5	7	3	0.5	1280	0.5	0.5	0.5
111	SCRS_111_08	0.5	8	0.5	15	2	28	10	0.5	1090	0.5	2	0.5
112	SCRS_112_08	0.5	4	0.5	20	1	26	5	0.5	1000	0.5	1	0.5
113	SCRS_113_08	0.5	0.5	0.5	11	0.5	10	2	0.5	640	0.5	0.5	0.5
149	SCRS_149_08	0.5	0.5	0.5	7	0.5	14	6	0.5	2670	0.5	2	0.5
150	SCRS_150_08	0.5	0.5	0.5	11	0.5	10	1	0.5	2290	0.5	0.5	0.5
151	SCRS_151_08	0.5	28	0.5	7	3	23	37	0.5	2030	0.5	5	0.5
152	SCRS_152_08	0.5	22	0.5	91	0.5	129	33	0.5	580	0.5	7	0.5
153	SCRS_153_08	0.5	4	0.5	15	0.5	19	7	0.5	390	0.5	1	0.5
154	SCRS_154_08	0.5	11	0.5	103	0.5	28	14	0.5	230	0.5	3	0.5
155	SCRS_155_08	0.5	3	0.5	16	0.5	11	9	0.5	430	0.5	2	0.5
156	SCRS_156_08	0.5	0.5	0.5	2.5	0.5	6	1	0.5	700	0.5	0.5	0.5
157	SCRS_157_08	0.5	0.5	0.5	10	0.5	11	2	0.5	390	0.5	0.5	0.5
158	SCRS_158_08	0.5	6	0.5	8	2	21	7	0.5	1280	0.5	1	0.5
170	SCRS_170_08	0.5	40	0.5	54	3	51	47	2	260	0.5	9	40
171	SCRS_171_08	0.5	0.5	0.5	51	0.5	12	2	0.5	2980	0.5	0.5	0.5
172	SCRS_172_08	0.5	3	0.5	18	0.5	14	7	0.5	1160	0.5	2	0.5
173	SCRS_173_08	0.5	8	0.5	13	0.5	29	11	0.5	490	0.5	2	0.5
174	SCRS_174_08	0.5	79	0.5	24	0.5	296	118	0.5	510	0.5	27	0.5
183	SCRS_183_08	0.5	0.5	0.5	8	0.5	7	0.5	0.5	460	0.5	0.5	0.5
184	SCRS_184_08	0.5	3	0.5	33	0.5	11	4	0.5	270	0.5	0.5	0.5
185	SCRS_185_08	0.5	5	0.5	119	2	46	8	0.5	520	0.5	2	0.5
186	SCRS_186_08	0.5	3	0.5	40	0.5	12	2	0.5	60	0.5	0.5	0.5
187	SCRS_187_08	0.5	5	0.5	11	1	2.5	7	0.5	2220	0.5	0.5	0.5
188	SCRS_188_08	0.5	5	0.5	2.5	1	22	11	0.5	1020	0.5	4	0.5
189	SCRS_189_08	0.5	16	0.5	124	3	81	33	0.5	390	0.5	13	0.5
199	SCRS_199_08	0.5	3	0.5	251	0.5	15	4	0.5	70	0.5	1	0.5
200	SCRS_200_08	0.5	2	0.5	39	0.5	22	2	0.5	60	0.5	0.5	0.5
201	SCRS_201_08	0.5	2	0.5	26	0.5	16	4	0.5	90	0.5	0.5	0.5
202	SCRS_202_08	0.5	9	0.5	99	0.5	39	16	0.5	100	0.5	4	0.5
203	SCRS_203_08	0.5	12	0.5	179	1	33	16	0.5	90	0.5	4	0.5
204	SCRS_204_08	0.5	2	0.5	29	3	40	4	0.5	290	0.5	0.5	0.5
205	SCRS_205_08	0.5	4	0.5	2.5	0.5	25	5	0.5	2330	0.5	0.5	0.5
211	SCRS_211_08	0.5	11	0.5	21	0.5	18	23	0.5	350	0.5	6	0.5
212	SCRS_212_08	0.5	0.5	0.5	20	0.5	2.5	2	0.5	430	0.5	0.5	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
213	SCRS_213_08	0.5	5	0.5	21	0.5	2.5	13	0.5	430	0.5	2	0.5
214	SCRS_214_08	0.5	6	0.5	28	0.5	18	9	0.5	360	0.5	2	0.5
215	SCRS_215_08	0.5	3	0.5	54	0.5	6	4	0.5	90	0.5	1	0.5
216	SCRS_216_08	0.5	23	0.5	43	0.5	109	24	0.5	810	0.5	4	0.5
217	SCRS_217_08	0.5	2	0.5	2.5	7	10	2	0.5	1860	0.5	0.5	0.5
218	SCRS_218_08	0.5	0.5	0.5	100	2	18	2	0.5	430	0.5	0.5	0.5
219	SCRS_219_08	0.5	0.5	0.5	100	0.5	20	0.5	0.5	440	0.5	0.5	0.5
220	SCRS_220_08	0.5	63	0.5	132	0.5	52	74	0.5	1240	0.5	12	0.5
221	SCRS_221_08	0.5	1	0.5	28	0.5	12	2	0.5	130	0.5	0.5	0.5
222	SCRS_222_08	0.5	23	0.5	15	1	23	36	0.5	1800	0.5	7	0.5
229	SCRS_229_08	0.5	5	0.5	182	0.5	19	13	0.5	50	0.5	3	0.5
230	SCRS_230_08	0.5	2	0.5	44	0.5	10	2	0.5	60	0.5	0.5	0.5
231	SCRS_231_08	0.5	3	0.5	27	0.5	2.5	3	0.5	290	0.5	0.5	0.5
232	SCRS_232_08	0.5	0.5	0.5	7	0.5	2.5	0.5	0.5	240	0.5	0.5	0.5
233	SCRS_233_08	0.5	3	0.5	38	0.5	5	5	0.5	1290	0.5	1	0.5
234	SCRS_234_08	0.5	8	0.5	8	2	17	11	0.5	1490	0.5	2	0.5
235	SCRS_235_08	0.5	20	0.5	15	1	51	31	0.5	1650	0.5	6	0.5
236	SCRS_236_08	0.5	18	0.5	10	3	52	25	0.5	2210	0.5	6	0.5
237	SCRS_237_08	0.5	18	0.5	7	2	57	24	0.5	1760	0.5	5	0.5
238	SCRS_238_08	0.5	0.5	0.5	2.5	1	7	0.5	0.5	860	0.5	0.5	0.5
239	SCRS_239_08	1	154	0.5	18	7	157	168	0.5	1090	0.5	27	0.5
244	SCRS_244_08	0.5	160	0.5	32	0.5	10	166	0.5	2540	0.5	20	0.5
245	SCRS_245_08	0.5	12	0.5	23	4	12	14	0.5	2710	0.5	3	0.5
246	SCRS_246_08	0.5	22	0.5	165	2	34	26	0.5	50	0.5	5	0.5
247	SCRS_247_08	0.5	2	0.5	119	1	14	3	0.5	310	0.5	0.5	0.5
248	SCRS_248_08	0.5	19	0.5	100	3	108	37	0.5	910	0.5	9	0.5
249	SCRS_249_08	0.5	66	0.5	171	0.5	103	88	0.5	800	0.5	15	0.5
250	SCRS_250_08	0.5	12	0.5	26	1	19	18	0.5	1820	0.5	3	0.5
251	SCRS_251_08	0.5	22	0.5	13	2	39	26	0.5	2420	0.5	4	0.5
252	SCRS_252_08	0.5	11	0.5	10	4	21	15	0.5	1110	0.5	3	0.5
253	SCRS_253_08	0.5	6	0.5	7	2	14	7	0.5	910	0.5	1	0.5
254	SCRS_254_08	0.5	81	0.5	18	1	55	116	0.5	870	0.5	20	0.5
255	SCRS_255_08	1	10	0.5	211	2	20	10	0.5	40	0.5	2	0.5
277	SCRS_277_08	0.5	4	0.5	17	0.5	2.5	5	0.5	1980	0.5	0.5	0.5
278	SCRS_278_08	0.5	1	0.5	21	0.5	2.5	2	0.5	2190	0.5	0.5	0.5
279	SCRS_279_08	0.5	4	0.5	27	0.5	5	7	0.5	480	0.5	1	0.5
280	SCRS_280_08	0.5	4	0.5	9	0.5	2.5	8	0.5	650	0.5	2	0.5
281	SCRS_281_08	0.5	4	0.5	8	4	13	4	0.5	510	0.5	0.5	0.5
282	SCRS_282_08	0.5	4	0.5	10	2	12	11	0.5	2160	0.5	2	0.5
283	SCRS_283_08	0.5	9	0.5	85	2	40	11	0.5	860	0.5	2	0.5
	5552_1_08	0.5	4	0.5	8	0.5	2.5	3	0.5	2850	0.5	0.5	0.5
	5552_2_08	0.5	188	0.5	152	0.5	60	131	0.5	20	0.5	16	0.5
	5552_3_08	0.5	13	0.5	103	0.5	73	23	0.5	70	0.5	8	0.5
	5552_4_08	0.5	51	0.5	79	0.5	115	76	0.5	30	0.5	16	0.5
	5552_5_08	0.5	22	0.5	63	0.5	61	39	0.5	430	0.5	10	0.5
	5552_6_08	0.5	9	0.5	159	0.5	70	14	0.5	400	0.5	4	0.5
	5552_7_08	0.5	3	0.5	42	0.5	57	5	0.5	140	0.5	2	0.5
	5552_8_08	0.5	6	0.5	111	0.5	28	11	0.5	80	0.5	4	0.5
107	SCRS_107_08	0.5	3	0.5	65	0.5	17	3	0.5	460	0.5	0.5	0.5
108	SCRS_108_08	0.5	18	0.5	65	2	32	26	0.5	1050	0.5	6	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
109	SCRS_109_08	0.5	10	0.5	19	1	26	14	0.5	930	0.5	4	0.5
190	SCRS_190_08	0.5	3	0.5	14	0.5	2.5	6	0.5	1030	0.5	1	0.5
191	SCRS_191_08	0.5	2	0.5	48	0.5	14	3	0.5	360	0.5	0.5	0.5
192	SCRS_192_08	0.5	2	0.5	195	0.5	22	4	0.5	130	0.5	2	0.5
193	SCRS_193_08	0.5	1	0.5	19	0.5	2.5	2	0.5	220	0.5	0.5	0.5
194	SCRS_194_08	0.5	2	0.5	56	0.5	24	3	0.5	170	0.5	0.5	0.5
195	SCRS_195_08	0.5	2	0.5	90	0.5	23	3	0.5	10	0.5	0.5	0.5
196	SCRS_196_08	0.5	20	0.5	272	0.5	38	45	0.5	120	0.5	9	0.5
197	SCRS_197_08	0.5	2	0.5	15	0.5	2.5	3	0.5	170	0.5	0.5	0.5
198	SCRS_198_08	0.5	3	0.5	27	0.5	2.5	5	0.5	260	0.5	1	0.5
207	SCRS_207_08	0.5	5	0.5	11	0.5	20	7	0.5	1280	0.5	1	0.5
208	SCRS_208_08	0.5	11	0.5	109	2	41	17	0.5	120	0.5	3	0.5
209	SCRS_209_08	0.5	2	0.5	102	0.5	14	3	0.5	20	0.5	0.5	0.5
210	SCRS_210_08	0.5	17	0.5	143	1	96	40	0.5	180	0.5	11	0.5
223	SCRS_223_08	0.5	2	0.5	6	0.5	2.5	3	0.5	1280	0.5	0.5	0.5
224	SCRS_224_08	0.5	9	0.5	130	2	75	14	0.5	180	0.5	3	0.5
225	SCRS_225_08	0.5	4	0.5	57	0.5	94	5	0.5	250	0.5	2	0.5
226	SCRS_226_08	0.5	3	0.5	39	0.5	101	4	0.5	340	0.5	2	0.5
227	SCRS_227_08	0.5	3	0.5	167	0.5	114	4	0.5	190	0.5	0.5	0.5
228	SCRS_228_08	0.5	7	0.5	80	0.5	118	12	0.5	170	0.5	5	0.5
236	SCRS_236_08	0.5	9	0.5	38	1	33	8	0.5	410	0.5	2	0.5
240	SCRS_240_08	0.5	7	0.5	21	0.5	2.5	7	0.5	2680	0.5	0.5	0.5
241	SCRS_241_08	0.5	3	0.5	2.5	0.5	14	6	0.5	410	0.5	2	0.5
242	SCRS_242_08	0.5	46	0.5	125	5	185	79	0.5	590	0.5	18	0.5
243	SCRS_243_08	0.5	12	0.5	155	1	44	24	0.5	410	0.5	5	0.5
257	SCRS_257_08	0.5	7	0.5	2.5	2	12	12	0.5	670	0.5	3	0.5
258	SCRS_258_08	0.5	14	0.5	98	0.5	21	19	0.5	1480	0.5	3	0.5
259	SCRS_259_08	0.5	12	0.5	26	3	65	18	0.5	560	0.5	5	0.5
260	SCRS_260_08	0.5	5	0.5	36	0.5	33	5	0.5	230	0.5	0.5	0.5
271	SCRS_271_08	0.5	6	0.5	11	0.5	19	9	0.5	460	0.5	2	0.5
272	SCRS_272_08	0.5	8	0.5	20	0.5	13	13	0.5	640	0.5	4	0.5
273	SCRS_273_08	0.5	8	0.5	35	0.5	72	16	0.5	430	0.5	6	0.5
274	SCRS_274_08	0.5	6	0.5	128	0.5	62	10	0.5	550	0.5	3	0.5
275	SCRS_275_08	0.5	2	0.5	42	0.5	37	2	0.5	330	0.5	0.5	0.5
276	SCRS_276_08	0.5	1	0.5	390	0.5	6	0.5	0.5	250	0.5	0.5	0.5
284	SCRS_284_08	0.5	1	0.5	13	0.5	18	1	0.5	260	0.5	0.5	0.5
285	SCRS_285_08	0.5	0.5	0.5	25	0.5	6	3	0.5	3980	0.5	1	0.5
286	SCRS_286_08	0.5	11	0.5	106	0.5	2.5	14	0.5	360	0.5	2	0.5
287	SCRS_287_08	0.5	7	0.5	36	0.5	9	6	0.5	620	0.5	1	0.5
288	SCRS_288_08	0.5	0.5	0.5	9	0.5	2.5	0.5	0.5	640	0.5	0.5	0.5
289	SCRS_289_08	0.5	50	0.5	62	0.5	75	94	0.5	1420	0.5	16	0.5
290	SCRS_290_08	0.5	7	0.5	229	0.5	38	13	0.5	350	0.5	3	0.5
291	SCRS_291_08	0.5	6	0.5	12	0.5	11	9	0.5	370	0.5	1	0.5
292	SCRS_292_08	0.5	34	0.5	14	3	98	36	0.5	740	0.5	7	0.5
293	SCRS_293_08	0.5	2	0.5	29	0.5	2.5	2	0.5	430	0.5	0.5	0.5
294	SCRS_294_08	0.5	10	0.5	6	2	16	11	0.5	1010	0.5	2	0.5
295	SCRS_295_08	0.5	0.5	0.5	17	0.5	2.5	3	0.5	3190	0.5	1	0.5
296	SCRS_296_08	0.5	3	0.5	13	0.5	2.5	5	0.5	4880	0.5	0.5	0.5
297	SCRS_297_08	0.5	12	0.5	10	0.5	13	15	0.5	1720	0.5	2	0.5
298	SCRS_298_08	0.5	46	0.5	37	0.5	65	36	0.5	3370	0.5	5	0.5
299	SCRS_299_08	0.5	9	0.5	17	0.5	8	16	0.5	1900	0.5	3	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
300	SCRS_300_08	0.5	16	0.5	15	0.5	35	25	0.5	1070	0.5	6	0.5
301	SCRS_301_08	0.5	10	0.5	49	0.5	107	11	0.5	900	0.5	2	0.5
302	SCRS_302_08	0.5	14	0.5	36	0.5	45	17	0.5	790	0.5	4	0.5
303	SCRS_303_08	0.5	0.5	0.5	47	0.5	8	14	0.5	1730	0.5	4	0.5
304	SCRS_304_08	0.5	5	0.5	18	0.5	2.5	8	0.5	3320	0.5	2	0.5
305	SCRS_305_08	0.5	25	0.5	16	0.5	15	30	0.5	3180	0.5	4	0.5
306	SCRS_306_08	0.5	101	0.5	56	0.5	66	192	0.5	1270	0.5	29	0.5
307	SCRS_307_08	0.5	19	0.5	32	0.5	40	16	0.5	520	0.5	3	0.5
308	SCRS_308_08	0.5	3	0.5	16	4	16	5	0.5	650	0.5	0.5	0.5
309	SCRS_309_08	0.5	4	0.5	17	0.5	18	4	0.5	1260	0.5	0.5	0.5
310	SCRS_310_08	0.5	5	0.5	61	0.5	193	8	0.5	410	0.5	3	0.5
311	SCRS_311_08	0.5	0.5	0.5	44	0.5	29	2	0.5	920	0.5	0.5	0.5
312	SCRS_312_08	0.5	0.5	0.5	76	0.5	2.5	0.5	0.5	410	0.5	0.5	0.5
313	SCRS_313_08	0.5	3	0.5	40	0.5	81	5	0.5	500	0.5	1	0.5
50	SCRS_50_08	0.5	0.5	0.5	17	0.5	2.5	0.5	0.5	2540	0.5	0.5	0.5
67	SCRS_67_08	0.5	3	0.5	94	0.5	77	4	0.5	190	0.5	1	0.5
	SCRS_9211_08	0.5	5	0.5	50	0.5	54	10	0.5	310	0.5	3	0.5
131	SCRS_131_08	0.5	0.5	0.5	9	0.5	2.5	0.5	0.5	1100	0.5	0.5	0.5
132	SCRS_132_08	0.5	0.5	0.5	10	0.5	2.5	0.5	0.5	1260	0.5	0.5	0.5
133	SCRS_133_08	0.5	4	0.5	8	0.5	11	9	0.5	1050	0.5	3	0.5
134	SCRS_134_08	0.5	23	0.5	53	0.5	79	35	0.5	630	0.5	9	0.5
135	SCRS_135_08	0.5	3	0.5	18	0.5	16	7	0.5	240	0.5	1	0.5
136	SCRS_136_08	0.5	25	0.5	32	0.5	52	29	0.5	1160	0.5	6	0.5
137	SCRS_137_08	0.5	3	0.5	13	0.5	2.5	4	0.5	1230	0.5	0.5	0.5
138	SCRS_138_08	0.5	7	0.5	109	0.5	75	11	0.5	70	0.5	4	0.5
139	SCRS_139_08	0.5	6	0.5	73	2	49	6	0.5	250	0.5	1	0.5
140	SCRS_140_08	0.5	9	0.5	32	0.5	31	9	0.5	650	0.5	2	0.5
141	SCRS_141_08	0.5	4	0.5	18	0.5	9	5	0.5	820	0.5	1	0.5
142	SCRS_142_08	0.5	2	0.5	5	0.5	11	3	0.5	360	0.5	0.5	0.5
143	SCRS_143_08	0.5	14	0.5	264	0.5	23	13	0.5	60	0.5	2	0.5
144	SCRS_144_08	0.5	5	0.5	19	1	47	10	0.5	610	0.5	2	0.5
145	SCRS_145_08	0.5	7	0.5	90	3	63	8	0.5	260	0.5	2	0.5
146	SCRS_146_08	0.5	7	0.5	138	0.5	46	11	0.5	10	0.5	4	0.5
147	SCRS_147_08	0.5	0.5	0.5	105	0.5	17	0.5	0.5	120	0.5	0.5	0.5
148	SCRS_148_08	0.5	0.5	0.5	30	0.5	2.5	0.5	0.5	4710	0.5	0.5	0.5
159	SCRS_159_08	0.5	0.5	0.5	8	0.5	2.5	0.5	0.5	1110	0.5	0.5	0.5
160	SCRS_160_08	0.5	0.5	0.5	25	0.5	15	2	0.5	280	0.5	0.5	0.5
161	SCRS_161_08	0.5	13	0.5	22	0.5	59	18	0.5	780	0.5	4	0.5
162	SCRS_162_08	0.5	2	0.5	13	0.5	13	3	0.5	380	0.5	0.5	0.5
163	SCRS_163_08	0.5	3	0.5	7	0.5	7	5	0.5	390	0.5	1	0.5
164	SCRS_164_08	0.5	1	0.5	97	0.5	33	3	0.5	60	0.5	2	0.5
165	SCRS_165_08	0.5	0.5	0.5	2.5	0.5	2.5	1	0.5	3970	0.5	0.5	0.5
166	SCRS_166_08	0.5	17	0.5	159	0.5	31	36	0.5	210	0.5	7	0.5
167	SCRS_167_08	0.5	2	0.5	67	0.5	40	2	0.5	1350	0.5	0.5	0.5
168	SCRS_168_08	0.5	1	0.5	49	6	19	2	0.5	430	0.5	0.5	0.5
169	SCRS_169_08	0.5	2	0.5	12	0.5	28	2	0.5	430	0.5	0.5	0.5
175	SCRS_175_08	0.5	54	0.5	28	0.5	1060	79	0.5	270	0.5	24	0.5
176	SCRS_176_08	0.5	7	0.5	46	0.5	18	15	0.5	370	0.5	3	0.5
177	SCRS_177_08	0.5	1	0.5	14	0.5	2.5	3	0.5	290	0.5	0.5	0.5
178	SCRS_178_08	0.5	1	0.5	118	0.5	18	0.5	0.5	70	0.5	0.5	0.5
179	SCRS_179_08	0.5	21	0.5	241	0.5	50	24	0.5	70	0.5	4	0.5
180	SCRS_180_08	0.5	12	0.5	160	0.5	82	18	0.5	110	0.5	4	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
181	SCRS_181_08	0.5	3	0.5	50	0.5	30	5	0.5	610	0.5	1	0.5
182	SCRS_182_08	0.5	2	0.5	114	0.5	30	6	0.5	90	0.5	3	0.5
206	SCRS_206_08	0.5	1	0.5	27	0.5	30	1	0.5	990	0.5	0.5	0.5
261	SCRS_261_08	0.5	12	0.5	89	0.5	118	19	0.5	390	0.5	8	0.5
262	SCRS_262_08	0.5	5	0.5	18	0.5	13	9	0.5	510	0.5	2	0.5
263	SCRS_263_08	0.5	5	0.5	39	0.5	30	6	0.5	250	0.5	2	0.5
264	SCRS_264_08	0.5	2	0.5	2.5	0.5	9	2	0.5	3250	0.5	0.5	0.5
265	SCRS_265_08	0.5	1	0.5	2.5	0.5	8	2	0.5	1260	0.5	0.5	0.5
266	SCRS_266_08	0.5	0.5	0.5	5	0.5	2.5	1	0.5	760	0.5	0.5	0.5
267	SCRS_267_08	0.5	0.5	0.5	23	0.5	2.5	2	0.5	610	0.5	0.5	0.5
268	SCRS_268_08	0.5	0.5	0.5	14	0.5	2.5	0.5	0.5	680	0.5	0.5	0.5
269	SCRS_269_08	0.5	119	0.5	66	1	159	134	0.5	1280	0.5	28	0.5
270	SCRS_270_08	0.5	30	0.5	52	0.5	116	45	0.5	1090	0.5	11	0.5
31	SCRS_31_08	0.5	4	0.5	23	0.5	5	5	0.5	1200	0.5	0.5	0.5
32	SCRS_32_08	0.5	80	0.5	25	0.5	22	131	0.5	1320	0.5	29	0.5
33	SCRS_33_08	0.5	0.5	0.5	8	0.5	2.5	0.5	0.5	1230	0.5	0.5	0.5
34	SCRS_34_08	0.5	0.5	0.5	5	0.5	2.5	0.5	0.5	3250	0.5	0.5	0.5
35	SCRS_35_08	0.5	8	0.5	10	0.5	15	9	0.5	3150	0.5	2	0.5
36	SCRS_36_08	0.5	4	0.5	26	2	11	4	0.5	1110	0.5	0.5	0.5
37	SCRS_37_08	0.5	0.5	0.5	5	0.5	2.5	3	0.5	2810	0.5	0.5	0.5
38	SCRS_38_08	0.5	6	0.5	5	1	8	7	0.5	3390	0.5	1	0.5
39	SCRS_39_08	0.5	6	0.5	6	0.5	7	8	0.5	3360	0.5	2	0.5
40	SCRS_40_08	0.5	2	0.5	10	0.5	14	8	0.5	4690	0.5	2	0.5
41	SCRS_41_08	0.5	0.5	0.5	29	0.5	2.5	0.5	0.5	4160	0.5	0.5	0.5
42	SCRS_42_08	0.5	0.5	0.5	6	0.5	2.5	0.5	0.5	2830	0.5	0.5	0.5
80	SCRS_80_08	0.5	14	0.5	21	0.5	50	16	0.5	1150	0.5	3	0.5
81	SCRS_81_08	0.5	2	0.5	11	0.5	7	4	0.5	1440	0.5	1	0.5
82	SCRS_82_08	0.5	11	0.5	7	0.5	17	14	0.5	1320	0.5	3	0.5
83	SCRS_83_08	0.5	15	0.5	26	0.5	43	19	0.5	2320	0.5	4	0.5
84	SCRS_84_08	0.5	125	0.5	123	1	356	161	0.5	260	0.5	37	0.5
85	SCRS_85_08	0.5	19	0.5	193	0.5	40	22	0.5	330	0.5	5	0.5
86	SCRS_86_08	0.5	2	0.5	64	0.5	44	3	0.5	110	0.5	2	0.5
87	SCRS_87_08	0.5	1	0.5	67	0.5	23	2	0.5	120	0.5	1	0.5
88	SCRS_88_08	0.5	3	0.5	2.5	0.5	2.5	3	0.5	1690	0.5	0.5	0.5
89	SCRS_89_08	0.5	3	0.5	100	0.5	25	8	0.5	1080	0.5	3	0.5
90	SCRS_90_08	0.5	0.5	0.5	10	0.5	2.5	0.5	0.5	2300	0.5	0.5	0.5
91	SCRS_91_08	0.5	0.5	0.5	6	0.5	2.5	2	0.5	1840	0.5	0.5	0.5
92	SCRS_92_08	0.5	4	0.5	5	0.5	2.5	4	0.5	2270	0.5	0.5	0.5
93	SCRS_93_08	0.5	0.5	0.5	6	0.5	2.5	2	0.5	1710	0.5	0.5	0.5
94	SCRS_94_08	0.5	6	0.5	8	0.5	18	6	0.5	2260	0.5	1	0.5
95	SCRS_95_08	0.5	1	0.5	2.5	0.5	2.5	2	0.5	1350	0.5	0.5	0.5
96	SCRS_96_08	0.5	5	0.5	6	0.5	21	6	0.5	690	0.5	1	0.5
967	SCRS_967_08	0.5	2	0.5	9	0.5	2.5	2	0.5	3950	0.5	0.5	0.5
968	SCRS_968_08	0.5	3	0.5	14	0.5	5	4	0.5	2710	0.5	0.5	0.5
97	SCRS_97_08	0.5	15	0.5	64	2	151	23	0.5	390	0.5	7	0.5
	SCRS_980_08	0.5	2	0.5	26	0.5	8	5	0.5	1550	0.5	1	0.5

GRID_ID	..LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	. _ppb	Yb_ppb	Zn_ppb	Zr_ppb
1	SCRS_1_08	4.3	32	0.25	6	0.5	8	0.5	30	2.5
10	SCRS_10_08	0.25	17	0.25	41	0.5	6	0.5	570	2.5
11	SCRS_11_08	5.5	60	0.6	16	0.5	54	4	100	8
12	SCRS_12_08	16.5	749	0.25	6	0.5	47	4	160	26
13	SCRS_13_08	2.1	33	0.25	0.5	0.5	6	3	410	6
14	SCRS_14_08	81.8	2760	0.25	13	1	115	10	780	130
15	SCRS_15_08	31.6	1100	0.25	8	0.5	102	7	190	108
16	SCRS_16_08	3.5	11	0.25	8	0.5	92	5	550	2.5
17	SCRS_17_08	1	22	0.25	2	0.5	22	2	1830	2.5
18	SCRS_18_08	18.1	1110	0.25	8	0.5	62	5	710	98
19	SCRS_19_08	2.1	11	0.6	8	0.5	73	4	160	2.5
2	SCRS_2_08	29.5	17	0.25	9	0.5	174	13	80	41
20	SCRS_20_08	5.4	5	0.25	9	0.5	260	12	200	13
21	SCRS_21_08	3.9	13	0.25	10	0.5	54	3	60	5
22	SCRS_22_08	4.2	29	0.25	13	0.5	67	4	200	6
23	SCRS_23_08	0.8	21	0.25	4	0.5	35	2	300	2.5
24	SCRS_24_08	22.8	46	0.25	9	0.5	80	5	120	14
25	SCRS_25_08	13.4	41	0.25	9	0.5	100	9	150	10
26	SCRS_26_08	6	37	0.25	12	0.5	69	5	210	9
27	SCRS_27_08	4.2	13	0.25	5	0.5	48	3	470	2.5
28	SCRS_28_08	1.4	36	0.25	8	0.5	16	2	290	13
29	SCRS_29_08	6.8	12	0.25	38	0.5	56	3	100	7
3	SCRS_3_08	27.1	18	0.25	20	1	82	7	40	43
30	SCRS_30_08	16.7	57	0.6	7	0.5	119	11	220	13
4	SCRS_4_08	3.4	27	0.25	15	0.5	39	3	1240	7
43	SCRS_43_08	1.6	9	0.25	7	0.5	16	0.5	70	2.5
44	SCRS_44_08	2.5	14	0.25	26	0.5	139	8	170	8
45	SCRS_45_08	0.7	20	0.25	4	0.5	21	1	1030	2.5
46	SCRS_46_08	0.25	21	0.25	5	0.5	8	0.5	1210	2.5
47	SCRS_47_08	1.3	24	0.25	10	0.5	38	3	3970	5
48	SCRS_48_08	3.9	7	0.25	3	0.5	60	3	120	2.5
49	SCRS_49_08	16.4	16	0.25	11	0.5	182	11	40	33
5	SCRS_5_08	0.8	28	0.25	4	0.5	2.5	0.5	1740	2.5
51	SCRS_51_08	1.3	13	0.25	4	0.5	13	0.5	420	2.5
52	SCRS_52_08	5.7	23	0.25	3	0.5	48	3	470	2.5
53	SCRS_53_08	3.5	10	0.25	7	0.5	30	2	180	11
54	SCRS_54_08	2.5	12	0.25	3	0.5	22	1	170	7
6	SCRS_6_08	8.2	70	0.25	6	0.5	44	5	110	31
7	SCRS_7_08	2.6	7	0.25	5	0.5	45	2	170	9
8	SCRS_8_08	14.7	11	0.25	11	0.5	130	10	10	29
9	SCRS_9_08	0.9	20	0.25	1	0.5	44	4	1130	2.5
100	SCRS_100_08	12.6	818	0.8	5	0.5	22	3	100	94
101	SCRS_101_08	8.7	355	0.6	5	0.5	217	30	160	19
102	SCRS_102_08	31.5	984	0.6	15	0.5	98	9	210	104
103	SCRS_103_08	10.8	741	0.25	25	1	27	5	320	45

GRID_ID	.LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
104	SCRS_104_08	11.7	879	5.1	99	1	21	6	160	60
105	SCRS_105_08	6.4	136	0.25	27	0.5	29	3	180	22
106	SCRS_106_08	26.9	703	0.25	9	0.5	34	3	180	78
114	SCRS_114_08	1.5	21	0.25	5	0.5	11	0.5	180	5
115	SCRS_115_08	57.1	47	0.25	68	0.5	324	23	610	38
116	SCRS_116_08	49.9	459	1	13	0.5	85	11	360	118
117	SCRS_117_08	49.9	630	0.25	5	0.5	42	6	180	56
118	SCRS_118_08	4.8	25	0.25	3	0.5	13	1	270	2.5
119	SCRS_119_08	7.7	303	0.25	8	0.5	74	7	860	20
120	SCRS_120_08	32.6	502	0.25	11	0.5	43	5	150	74
121	SCRS_121_08	10.5	206	0.25	60	0.5	44	4	100	33
122	SCRS_122_08	111	2170	1.1	45	3	1060	67	560	262
123	SCRS_123_08	13.9	438	0.25	35	0.5	108	10	310	37
124	SCRS_124_08	12.7	799	0.6	12	0.5	264	17	680	38
125	SCRS_125_08	23.4	646	0.25	11	0.5	69	12	580	36
126	SCRS_126_08	19.5	509	0.25	14	0.5	56	5	900	40
127	SCRS_127_08	1.2	14	0.25	2	0.5	26	3	1370	2.5
128	SCRS_128_08	19.8	1890	0.25	6	1	13	2	230	64
129	SCRS_129_08	16.8	8	0.25	8	0.5	54	4	100	5
130	SCRS_130_08	31.1	2730	0.9	12	1	140	11	230	106
55	SCRS_55_08	10.9	8	0.25	8	0.5	79	6	60	14
56	SCRS_56_08	12.4	9	0.25	12	0.5	62	5	110	19
57	SCRS_57_08	5.4	8	0.25	16	0.5	74	5	280	9
58	SCRS_58_08	3	1.5	0.25	16	0.5	27	2	10	2.5
59	SCRS_59_08	14.1	12	0.25	6	0.5	70	6	170	12
60	SCRS_60_08	9.3	5	0.25	7	0.5	90	6	190	6
61	SCRS_61_08	83.9	2840	0.25	17	0.5	115	10	280	143
62	SCRS_62_08	11.8	47	0.25	12	0.5	142	12	40	46
63	SCRS_63_08	1.2	4	0.25	6	0.5	22	1	460	2.5
64	SCRS_64_08	4	3	0.25	17	0.5	50	4	120	2.5
65	SCRS_65_08	0.9	1.5	0.25	2	0.5	8	0.5	840	2.5
66	SCRS_66_08	8.7	90	0.25	6	0.5	33	3	410	15
68	SCRS_68_08	2.8	3	0.25	2	0.5	23	1	110	2.5
69	SCRS_69_08	2.2	3	0.25	5	0.5	44	3	460	2.5
70	SCRS_70_08	1.2	1.5	0.25	8	0.5	22	2	4420	2.5
71	SCRS_71_08	5.6	37	0.25	4	0.5	35	3	390	15
72	SCRS_72_08	5.4	1.5	0.25	9	0.5	107	8	520	2.5
73	SCRS_73_08	18	20	0.25	16	0.5	309	23	220	15
74	SCRS_74_08	8.3	18	0.25	20	0.5	81	6	140	8
75	SCRS_75_08	24.6	1.5	0.25	11	0.5	150	11	60	20
76	SCRS_76_08	75.4	654	0.6	18	0.5	96	10	70	71
77	SCRS_77_08	3.3	3	0.25	8	0.5	54	3	50	5
78	SCRS_78_08	2.7	9	0.25	17	0.5	34	3	650	7
79	SCRS_79_08	5.1	9	0.25	6	0.5	87	5	60	7

GRID_ID	D_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	'ppb	Yb_ppb	Zn_ppb	Zr_ppb
	SCRS_9104_08	11.7	1430	4.2	129	2	26	7	70	87
98	SCRS_98_08	11.1	11	0.25	10	0.5	77	5	70	14
99	SCRS_99_08	20.7	1040	0.25	8	0.5	29	5	50	61
	555_1_08	4	1.5	1.1	8	0.5	22	3	30	2.5
	555_2_08	173	735	2.1	45	1	170	13	510	176
	555_3_08	524	160	0.9	77	1	3020	169	180	280
	555_4_08	23.4	435	1	6	0.5	88	8	250	39
	555_5_08	40.7	212	0.7	14	0.5	691	56	160	67
	555_6_08	35.7	811	1.1	19	2	988	74	90	93
	555_7_08	6.8	215	0.25	7	0.5	293	27	260	27
	555_8_08	23.3	1500	0.6	8	0.5	321	33	340	68
	555_91_08	0.9	1.5	0.25	3	2	8	1	90	2.5
110	SCRS_110_08	1.2	13	0.5	7	0.5	21	2	380	2.5
111	SCRS_111_08	5.2	61	0.25	51	0.5	96	7	220	17
112	SCRS_112_08	4	60	0.25	14	0.5	48	4	160	18
113	SCRS_113_08	1.7	11	0.25	1	0.5	16	0.5	50	2.5
149	SCRS_149_08	4	5	0.25	4	0.5	59	4	40	9
150	SCRS_150_08	0.9	13	0.25	7	0.5	14	1	280	2.5
151	SCRS_151_08	31.6	8	0.25	14	0.5	156	11	30	43
152	SCRS_152_08	27.1	204	0.25	28	0.5	240	20	120	62
153	SCRS_153_08	6.9	11	0.25	3	0.5	35	3	130	9
154	SCRS_154_08	17.6	1520	0.25	6	0.5	89	6	130	64
155	SCRS_155_08	2.3	4	0.25	2	0.5	54	3	70	2.5
156	SCRS_156_08	1.4	9	0.25	2	0.5	9	0.5	130	2.5
157	SCRS_157_08	1.1	7	0.25	3	0.5	19	1	80	2.5
158	SCRS_158_08	4.3	53	0.25	11	0.5	39	3	210	9
170	SCRS_170_08	41.7	3990	0.8	5	0.5	246	13	320	81
171	SCRS_171_08	0.9	20	0.25	3	0.5	40	4	670	2.5
172	SCRS_172_08	5.4	56	0.25	3	0.5	54	4	250	13
173	SCRS_173_08	5.7	21	0.25	5	0.5	72	5	80	8
174	SCRS_174_08	11.2	174	0.25	14	0.5	1020	77	140	46
183	SCRS_183_08	2.4	275	0.25	2	0.5	2.5	1	40	16
184	SCRS_184_08	8.1	563	0.25	6	0.5	26	6	120	28
185	SCRS_185_08	40.4	374	0.25	22	0.5	65	7	630	108
186	SCRS_186_08	11.7	2010	0.25	7	0.5	18	2	430	130
187	SCRS_187_08	1.6	9	0.25	11	0.5	21	0.5	70	2.5
188	SCRS_188_08	3.8	62	0.25	35	0.5	253	32	2050	13
189	SCRS_189_08	40.3	412	1	37	0.5	475	25	880	119
199	SCRS_199_08	9.8	1030	0.6	3	0.5	45	4	200	59
200	SCRS_200_08	17.9	1560	0.25	6	1	19	3	330	116
201	SCRS_201_08	8.7	572	0.25	2	0.5	32	7	140	30
202	SCRS_202_08	30.2	1020	0.6	11	0.5	109	9	440	85
203	SCRS_203_08	33.5	957	0.8	22	0.5	129	11	140	127
204	SCRS_204_08	10.7	573	0.5	42	0.5	41	17	630	61
205	SCRS_205_08	3	85	0.25	7	0.5	21	1	170	19
211	SCRS_211_08	11.8	902	0.25	6	0.5	190	17	700	92
212	SCRS_212_08	0.9	4	0.25	3	0.5	23	1	350	2.5

GRID_ID	. _D_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
109	SCRS_109_08	7.2	14	0.25	91	0.5	136	8	290	20
190	SCRS_190_08	5.6	7	0.25	4	0.5	38	2	180	2.5
191	SCRS_191_08	11.3	586	0.25	8	0.5	19	2	100	50
192	SCRS_192_08	12	501	0.25	4	0.5	83	7	760	62
193	SCRS_193_08	1.6	30	0.25	2	0.5	21	2	720	6
194	SCRS_194_08	12.5	711	0.25	4	0.5	23	5	410	28
195	SCRS_195_08	18.6	440	0.5	7	0.5	28	4	270	48
196	SCRS_196_08	68.1	1370	1	15	1	124	8	640	133
197	SCRS_197_08	1.8	29	0.25	2	0.5	24	1	340	2.5
198	SCRS_198_08	1.7	18	0.25	6	0.5	46	2	530	8
207	SCRS_207_08	4.8	44	0.25	15	0.5	61	4	520	11
208	SCRS_208_08	52.7	2000	0.5	15	1	71	7	260	143
209	SCRS_209_08	16.7	369	0.25	6	0.5	14	2	400	38
210	SCRS_210_08	77	2190	0.25	22	1	320	23	950	149
223	SCRS_223_08	1.7	13	0.25	8	0.5	38	2	2050	2.5
224	SCRS_224_08	50.3	2010	0.8	25	1	66	7	3220	151
225	SCRS_225_08	14.8	1280	0.25	8	0.5	97	13	2670	62
226	SCRS_226_08	6.3	139	0.6	11	0.5	108	12	570	13
227	SCRS_227_08	17.4	1690	0.25	11	2	39	5	990	81
228	SCRS_228_08	12	1190	0.25	5	0.5	200	18	2950	38
236	SCRS_236_08	8.3	433	1.6	38	0.5	62	10	1000	47
240	SCRS_240_08	2.3	21	0.25	5	0.5	20	0.5	280	2.5
241	SCRS_241_08	2.4	64	0.25	6	0.5	102	9	4700	8
242	SCRS_242_08	38.3	1530	0.9	91	1	500	42	1020	161
243	SCRS_243_08	36.5	1920	0.6	16	1	87	6	1510	94
257	SCRS_257_08	1.7	32	0.25	20	0.5	154	9	470	7
258	SCRS_258_08	11	125	0.25	14	0.5	79	5	970	40
259	SCRS_259_08	8.1	89	0.25	62	0.5	189	11	240	25
260	SCRS_260_08	15.5	648	0.25	20	0.5	34	5	110	38
271	SCRS_271_08	5.1	34	0.25	11	0.5	101	6	270	17
272	SCRS_272_08	2.6	21	0.25	8	0.5	166	10	690	7
273	SCRS_273_08	12.8	41	0.25	14	0.5	387	32	360	19
274	SCRS_274_08	18.5	433	0.25	5	0.5	103	9	4210	33
275	SCRS_275_08	6.8	85	0.25	6	0.5	26	31	20	19
276	SCRS_276_08	6.8	327	1.5	3	0.5	7	1	10	26
284	SCRS_284_08	4.7	309	0.25	7	0.5	13	1	60	21
285	SCRS_285_08	2.9	1.5	0.25	4	0.5	42	3	90	2.5
286	SCRS_286_08	7.2	30	0.6	4	0.5	57	4	710	12
287	SCRS_287_08	3.4	11	0.6	8	0.5	33	2	40	9
288	SCRS_288_08	0.25	1.5	0.25	2	0.5	7	0.5	610	2.5
289	SCRS_289_08	22.8	10	0.25	8	0.5	448	21	80	18
290	SCRS_290_08	12.5	151	0.7	5	0.5	67	4	210	33
291	SCRS_291_08	6.3	4	0.25	4	0.5	46	3	30	8
292	SCRS_292_08	29.9	173	0.25	24	0.5	241	20	100	77
293	SCRS_293_08	1	13	0.25	4	0.5	14	0.5	230	5
294	SCRS_294_08	9	40	0.25	33	0.5	66	6	130	15
295	SCRS_295_08	1.5	1.5	0.25	2	0.5	43	2	80	7
296	SCRS_296_08	1.7	1.5	0.25	12	0.5	32	1	10	2.5
297	SCRS_297_08	15.2	8	0.25	9	0.5	77	5	130	2.5
298	SCRS_298_08	22.2	30	0.25	9	0.5	205	14	70	41
299	SCRS_299_08	3.1	4	0.25	29	0.5	113	5	100	9

GRID_ID	FIELD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
300	SCRS_300_08	5.3	4	0.25	17	0.5	232	13	240	8
301	SCRS_301_08	4.1	27	0.25	9	0.5	108	8	30	18
302	SCRS_302_08	5.3	19	0.25	13	0.5	148	10	210	16
303	SCRS_303_08	3.4	1.5	1	3	0.5	165	6	280	2.5
304	SCRS_304_08	4	1.5	0.25	8	0.5	57	3	140	2.5
305	SCRS_305_08	9.6	21	0.25	4	0.5	108	6	50	10
306	SCRS_306_08	40.6	8	0.25	16	0.5	709	31	130	18
307	SCRS_307_08	7.4	34	0.25	20	0.5	90	6	30	25
308	SCRS_308_08	3.4	33	0.25	47	0.5	31	2	520	5
309	SCRS_309_08	2.9	43	0.25	9	0.5	30	2	30	7
310	SCRS_310_08	11.9	233	0.6	10	0.5	137	14	10	55
311	SCRS_311_08	2.1	6	0.25	6	0.5	37	3	10	6
312	SCRS_312_08	0.8	7	7.5	12	0.5	9	0.5	230	2.5
313	SCRS_313_08	3.6	153	0.25	6	0.5	68	7	170	12
50	SCRS_50_08	1.1	22	0.25	14	0.5	7	0.5	1120	2.5
67	SCRS_67_08	13.3	565	1	17	0.5	60	8	140	53
	SCRS_9211_08	23.2	377	0.25	14	0.5	73	6	610	27
131	SCRS_131_08	0.25	7	0.25	2	0.5	9	0.5	420	2.5
132	SCRS_132_08	0.25	6	0.25	1	0.5	13	0.5	80	2.5
133	SCRS_133_08	3.3	12	0.25	21	0.5	150	8	150	10
134	SCRS_134_08	12	42	0.25	10	0.5	469	26	200	26
135	SCRS_135_08	4.5	7	0.25	1	0.5	48	2	120	5
136	SCRS_136_08	14.3	26	0.25	12	0.5	267	16	10	30
137	SCRS_137_08	3.9	6	0.25	11	0.5	34	2	50	2.5
138	SCRS_138_08	61.8	2900	0.25	9	1	131	10	190	170
139	SCRS_139_08	31.2	477	0.7	25	0.5	59	5	100	85
140	SCRS_140_08	17	176	0.25	21	0.5	56	5	150	41
141	SCRS_141_08	2.4	16	0.25	8	0.5	56	3	10	7
142	SCRS_142_08	2.9	63	0.25	9	0.5	23	2	140	6
143	SCRS_143_08	14.3	1350	0.25	3	0.5	72	4	180	92
144	SCRS_144_08	10.8	330	0.25	58	0.5	76	6	110	35
145	SCRS_145_08	29	721	0.25	24	0.5	78	8	110	111
146	SCRS_146_08	18.2	325	0.25	23	0.5	168	10	90	59
147	SCRS_147_08	9.7	364	0.25	8	0.5	9	0.5	10	42
148	SCRS_148_08	0.25	4	0.25	2	0.5	9	0.5	150	2.5
159	SCRS_159_08	1.1	7	0.25	3	0.5	8	0.5	110	2.5
160	SCRS_160_08	6.9	305	0.25	2	0.5	51	4	2550	20
161	SCRS_161_08	9.9	18	0.25	10	0.5	222	12	70	45
162	SCRS_162_08	2.6	88	0.25	5	0.5	41	2	620	15
163	SCRS_163_08	1.9	34	0.25	6	0.5	64	4	2010	8
164	SCRS_164_08	15.1	944	0.25	4	0.5	91	7	1130	46
165	SCRS_165_08	0.25	3	0.25	1	0.5	14	0.5	640	2.5
166	SCRS_166_08	41.5	1330	0.25	7	0.5	141	7	930	89
167	SCRS_167_08	18.7	97	0.25	15	0.5	29	3	110	27
168	SCRS_168_08	5.1	894	2.1	72	0.5	23	4	180	46
169	SCRS_169_08	8.2	919	0.25	11	0.5	17	4	100	43
175	SCRS_175_08	24.7	1420	0.25	14	2	1100	104	290	61
176	SCRS_176_08	10.5	37	0.25	10	0.5	100	5	40	13
177	SCRS_177_08	1.8	13	0.25	4	0.5	29	1	180	2.5
178	SCRS_178_08	13.2	1340	0.25	5	0.5	11	1	140	91
179	SCRS_179_08	31.1	4350	0.25	7	0.5	105	7	220	116
180	SCRS_180_08	25.9	1470	0.25	12	0.5	144	9	750	108

GRID_ID	LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
181	SCRS_181_08	9.7	263	0.25	39	0.5	39	3	50	22
182	SCRS_182_08	19.6	651	0.25	5	0.5	132	8	470	48
206	SCRS_206_08	7.6	131	0.25	15	0.5	20	2	110	33
261	SCRS_261_08	24.7	167	0.25	25	0.5	588	45	1100	43
262	SCRS_262_08	2.6	30	0.25	6	0.5	136	8	3790	9
263	SCRS_263_08	9.5	117	0.25	7	0.5	118	6	990	40
264	SCRS_264_08	1.7	29	0.25	4	0.5	20	1	860	6
265	SCRS_265_08	1	35	0.25	25	0.5	34	2	320	6
266	SCRS_266_08	0.25	11	0.25	2	0.5	23	1	1930	2.5
267	SCRS_267_08	1.4	4	0.25	8	0.5	25	1	2040	2.5
268	SCRS_268_08	0.25	4	0.25	7	0.5	2.5	0.5	790	2.5
269	SCRS_269_08	45.8	412	0.25	52	2	1050	47	1490	116
270	SCRS_270_08	14	50	0.25	117	0.5	499	30	660	64
31	SCRS_31_08	1.9	10	0.25	6	0.5	37	2	90	2.5
32	SCRS_32_08	22.7	83	0.25	18	2	2100	80	130	67
33	SCRS_33_08	0.25	1.5	0.25	2	0.5	13	0.5	100	2.5
34	SCRS_34_08	0.25	1.5	0.25	2	0.5	10	0.5	510	2.5
35	SCRS_35_08	5.5	28	0.25	5	0.5	90	6	30	14
36	SCRS_36_08	16.2	193	0.25	7	0.5	24	2	480	24
37	SCRS_37_08	4.7	1.5	0.25	5	0.5	37	2	70	2.5
38	SCRS_38_08	10.3	20	0.25	10	0.5	71	6	370	2.5
39	SCRS_39_08	13	17	0.25	4	0.5	75	5	140	2.5
40	SCRS_40_08	4.8	1.5	0.25	2	0.5	104	5	260	2.5
41	SCRS_41_08	0.5	1.5	0.25	3	0.5	18	2	280	2.5
42	SCRS_42_08	0.25	1.5	0.25	8	0.5	11	1	1110	2.5
80	SCRS_80_08	19.8	48	0.25	22	0.5	95	8	320	26
81	SCRS_81_08	3	1.5	0.25	7	0.5	52	3	60	2.5
82	SCRS_82_08	14.4	17	0.25	6	0.5	122	9	50	10
83	SCRS_83_08	15.8	61	0.25	97	0.5	166	12	80	17
84	SCRS_84_08	64.1	2330	0.5	13	3	1680	95	350	119
85	SCRS_85_08	12	1310	0.25	5	0.5	207	12	210	41
86	SCRS_86_08	10.9	708	0.25	2	0.5	107	14	670	31
87	SCRS_87_08	5.5	243	0.25	2	0.5	60	7	60	17
88	SCRS_88_08	6.9	13	0.25	7	0.5	26	2	140	2.5
89	SCRS_89_08	10.1	211	0.25	10	0.5	90	5	190	40
90	SCRS_90_08	0.6	10	0.25	1	0.5	13	0.5	880	2.5
91	SCRS_91_08	1.2	6	0.25	3	0.5	46	3	130	2.5
92	SCRS_92_08	2.9	27	0.25	8	0.5	31	2	310	2.5
93	SCRS_93_08	0.7	11	0.25	7	0.5	28	2	2030	2.5
94	SCRS_94_08	4.6	55	0.25	24	0.5	59	4	30	10
95	SCRS_95_08	2.9	14	0.25	4	0.5	23	2	750	2.5
96	SCRS_96_08	3.8	29	0.25	7	0.5	71	5	130	10
967	SCRS_967_08	5.8	18	0.25	17	0.5	21	2	30	2.5
968	SCRS_968_08	2.5	22	0.25	8	0.5	34	2	30	8
97	SCRS_97_08	43.4	680	0.25	31	0.5	344	26	250	117
	SCRS_980_08	2.5	5	0.25	2	0.5	53	3	70	7

SGS

Certificate of Analysis

Work Order: TO102352

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 16, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	42
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 42 Soils

Certified By : Gavin McGill
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

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
CHYS_545_08	18	186	10	<0.1	1160	<1	690	18	829	334
*Rep CHYS_545_08	17	174	10	<0.1	1110	<1	700	17	958	283
SCRS_1_08	<1	24	10	<0.1	840	<1	730	6	10	146
SCRS_2_08	10	23	10	0.2	1590	<1	670	9	238	176
SCRS_3_08	18	17	30	0.7	3460	<1	690	5	92	136
SCRS_4_08	3	43	<10	0.1	920	<1	650	41	23	84
SCRS_5_08	<1	34	<10	<0.1	320	<1	550	8	<5	55
SCRS_6_08	<1	15	10	<0.1	290	<1	450	7	57	162
SCRS_7_08	30	11	<10	0.6	1240	<1	580	15	<5	31
SCRS_8_08	13	35	<10	<0.1	1740	<1	590	9	229	246
SCRS_9_08	<1	4	70	<0.1	220	<1	690	33	8	85
SCRS_10_08	<1	1	10	<0.1	290	<1	530	3	<5	63
SCRS_11_08	<1	43	<10	0.1	340	<1	660	4	37	88
SCRS_12_08	1	110	10	<0.1	1220	<1	80	6	70	355
*Rep SCRS_12_08	<1	102	10	<0.1	1160	1	80	4	57	286
SCRS_13_08	<1	<1	<10	<0.1	2070	<1	80	10	7	299
SCRS_14_08	8	<1	40	<0.1	2240	1	30	24	177	455
SCRS_15_08	7	<1	10	<0.1	1890	<1	50	8	121	131
SCRS_16_08	<1	25	<10	<0.1	510	<1	730	52	26	24
RS_17_08	<1	17	<10	<0.1	910	<1	660	47	8	70
RS_18_08	3	<1	<10	<0.1	2220	<1	100	81	75	104
SCRS_19_08	3	42	<10	<0.1	980	<1	770	19	25	22
SCRS_20_08	11	53	<10	<0.1	1600	<1	730	7	26	13
SCRS_21_08	<1	24	<10	<0.1	590	<1	740	14	5	9
SCRS_22_08	<1	47	<10	<0.1	440	<1	700	16	10	11
SCRS_23_08	<1	49	<10	<0.1	460	<1	680	14	<5	8
SCRS_24_08	9	19	20	0.2	960	<1	750	6	122	136
*Rep SCRS_24_08	9	17	10	0.2	750	<1	750	7	103	110
SCRS_25_08	12	15	<10	0.2	600	<1	730	15	93	379
SCRS_26_08	1	33	10	<0.1	350	<1	570	4	54	173
SCRS_27_08	17	13	<10	0.2	480	<1	650	13	18	65
SCRS_28_08	<1	14	<10	<0.1	190	<1	500	5	15	211
SCRS_29_08	10	35	<10	0.2	900	<1	1090	10	49	173
SCRS_30_08	4	27	10	0.2	1010	<1	710	12	97	151
SCRS_43_08	<1	31	<10	<0.1	470	<1	680	7	5	14
SCRS_44_08	<1	64	<10	<0.1	480	<1	660	29	42	25
SCRS_45_08	2	11	<10	<0.1	300	<1	610	23	<5	10
SCRS_46_08	<1	18	<10	<0.1	250	<1	620	14	<5	8
SCRS_47_08	<1	60	<10	<0.1	390	<1	580	44	11	17
SCRS_48_08	45	12	<10	1.2	720	<1	490	10	<5	21
*Rep SCRS_48_08	44	13	<10	1.3	710	<1	470	12	<5	41
SCRS_49_08	2	26	<10	<0.1	890	<1	600	5	237	75
SCRS_51_08	<1	27	<10	<0.1	280	<1	620	10	6	40

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
SCRS_52_08	10	15	<10	<0.1	190	<1	630	25	25	25
SCRS_53_08	8	64	<10	<0.1	630	<1	580	10	<5	<5
SCRS_54_08	6	41	<10	<0.1	530	<1	600	15	<5	<5
*Std MMISRM16	17	63	20	28.2	90	<1	250	5	27	77
*Std MMISRM16	17	59	20	28.4	90	<1	240	5	27	77
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
CHYS_545_08	<100	260	187	115	38.7	44	191	391	7	92
*Rep CHYS_545_08	<100	230	177	107	39.8	36	195	436	7	90
SCRS_1_08	<100	1540	1	0.7	<0.5	24	2	4	<5	30
SCRS_2_08	<100	2710	27	15.0	8.2	93	38	81	<5	14
SCRS_3_08	<100	4680	14	7.5	3.7	55	19	24	<5	12
SCRS_4_08	<100	1000	5	3.1	1.1	47	6	11	<5	10
SCRS_5_08	<100	220	<1	<0.5	<0.5	19	<1	1	<5	6
SCRS_6_08	<100	1350	6	4.9	1.4	62	7	21	<5	11
SCRS_7_08	<100	910	7	3.2	1.5	10	9	4	<5	7
SCRS_8_08	<100	1260	18	10.3	5.6	56	28	79	<5	11
SCRS_9_08	<100	30	8	5.4	1.0	15	6	3	<5	45
SCRS_10_08	<100	30	<1	0.7	<0.5	11	<1	<1	<5	95
SCRS_11_08	<100	1410	7	4.8	1.6	56	8	13	<5	11
SCRS_12_08	<100	1020	12	5.9	2.8	437	12	41	<5	12
*Rep SCRS_12_08	<100	1190	9	5.0	2.1	441	10	31	<5	13
SCRS_13_08	<100	100	1	1.9	<0.5	109	<1	5	19	99
SCRS_14_08	200	610	31	13.9	7.7	196	34	84	<5	7
SCRS_15_08	<100	1240	21	10.1	5.7	92	24	57	<5	14
SCRS_16_08	<100	140	12	6.7	2.6	20	13	14	5	30
RS_17_08	<100	30	4	2.8	<0.5	10	3	3	<5	25
RS_18_08	<100	310	12	6.6	2.5	88	11	24	<5	13
SCRS_19_08	<100	160	12	5.5	4.6	21	16	14	<5	37
SCRS_20_08	<100	220	43	19.4	13.5	15	57	48	<5	3
SCRS_21_08	<100	70	9	4.7	1.8	13	11	5	<5	10
SCRS_22_08	<100	30	10	5.6	2.1	12	12	12	<5	30
SCRS_23_08	<100	20	5	2.9	0.8	6	5	3	<5	4
SCRS_24_08	<100	3170	15	6.6	5.3	43	23	43	<5	16
*Rep SCRS_24_08	<100	2320	12	5.8	4.6	40	19	36	<5	15
SCRS_25_08	<100	4990	11	8.7	3.6	58	17	36	<5	20
SCRS_26_08	<100	1890	8	5.5	1.8	54	9	18	<5	3
SCRS_27_08	<100	310	7	3.5	1.8	25	10	9	<5	6
SCRS_28_08	<100	940	2	1.7	<0.5	31	2	5	<5	4
SCRS_29_08	<100	2070	8	4.3	2.2	18	11	19	<5	19
SCRS_30_08	<100	2030	18	10.7	5.0	80	22	36	<5	25
SCRS_43_08	<100	110	2	1.2	0.5	15	3	4	<5	9
SCRS_44_08	<100	70	17	11.4	2.8	25	16	13	<5	6
SCRS_45_08	<100	50	3	1.9	<0.5	10	2	1	<5	13
SCRS_46_08	<100	20	1	0.8	<0.5	6	<1	1	<5	17
SCRS_47_08	<100	30	5	3.2	0.6	15	4	4	<5	13
SCRS_48_08	<100	240	10	4.1	2.7	6	16	2	<5	17
*Rep SCRS_48_08	<100	250	10	4.1	2.5	5	15	2	<5	17
SCRS_49_08	<100	1190	24	14.1	7.0	72	35	70	<5	14
SCRS_51_08	<100	80	2	1.1	<0.5	11	2	2	<5	15

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_52_08	<100	270	7	3.5	1.6	17	9	7	<5	24
SCRS_53_08	<100	230	4	2.3	1.3	11	6	9	<5	9
SCRS_54_08	<100	460	3	1.8	0.9	10	4	6	<5	18
*Std MMISRM16	<100	700	4	1.3	1.6	4	7	7	<5	39
*Std MMISRM16	<100	730	4	1.4	1.7	4	7	8	<5	39
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	<5	<0.5	576	3400	630	<1	132	<1	167	<1
*Rep CHYS_545_08	<5	<0.5	615	3130	560	<1	142	<1	162	<1
SCRS_1_08	11	0.9	7	497	60	<1	2	<1	<5	<1
SCRS_2_08	6	1.6	149	184	180	<1	32	<1	10	2
SCRS_3_08	10	1.8	56	417	70	<1	12	<1	<5	4
SCRS_4_08	<5	0.6	18	564	230	<1	4	<1	8	2
SCRS_5_08	6	<0.5	1	43	40	<1	<1	<1	13	1
SCRS_6_08	<5	1.0	32	213	20	<1	8	<1	31	<1
SCRS_7_08	<5	<0.5	13	120	80	<1	2	<1	21	<1
SCRS_8_08	<5	<0.5	125	129	20	<1	29	<1	22	<1
SCRS_9_08	<5	<0.5	7	86	90	<1	1	<1	72	<1
SCRS_10_08	<5	<0.5	1	190	50	<1	<1	<1	15	<1
SCRS_11_08	<5	1.0	22	389	110	<1	5	<1	9	<1
SCRS_12_08	<5	2.3	49	722	30	<1	12	<1	41	<1
*Rep SCRS_12_08	<5	2.8	37	591	30	<1	9	<1	44	<1
SCRS_13_08	<5	<0.5	4	599	<10	<1	1	<1	17	<1
SCRS_14_08	<5	5.5	110	249	890	<1	26	<1	99	1
SCRS_15_08	<5	2.5	86	300	630	<1	19	<1	115	<1
SCRS_16_08	<5	<0.5	26	564	40	<1	5	<1	31	<1
RS_17_08	<5	<0.5	5	39	80	<1	<1	<1	20	<1
RS_18_08	<5	2.6	32	136	420	<1	8	<1	120	<1
SCRS_19_08	<5	<0.5	31	448	50	<1	6	<1	33	<1
SCRS_20_08	<5	<0.5	106	177	70	<1	20	<1	21	<1
SCRS_21_08	<5	<0.5	17	135	<10	<1	3	<1	25	<1
SCRS_22_08	<5	<0.5	26	109	30	<1	5	<1	28	<1
SCRS_23_08	<5	<0.5	9	45	30	<1	2	<1	9	<1
SCRS_24_08	14	1.4	88	580	90	<1	19	<1	11	2
*Rep SCRS_24_08	9	1.1	76	438	60	<1	16	<1	9	1
SCRS_25_08	8	1.1	66	3310	70	<1	14	<1	15	<1
SCRS_26_08	<5	1.3	32	277	50	<1	7	<1	12	1
SCRS_27_08	<5	<0.5	24	203	20	<1	5	<1	26	1
SCRS_28_08	6	1.1	8	228	30	<1	2	<1	7	2
SCRS_29_08	<5	0.7	32	1470	40	<1	7	<1	13	2
SCRS_30_08	7	1.7	66	580	110	<1	14	<1	27	1
SCRS_43_08	<5	<0.5	7	87	20	<1	2	<1	11	<1
SCRS_44_08	<5	<0.5	28	97	160	<1	6	<1	6	<1
SCRS_45_08	<5	<0.5	2	82	20	<1	<1	<1	25	<1
SCRS_46_08	<5	<0.5	2	61	20	<1	<1	<1	20	<1
SCRS_47_08	<5	<0.5	8	47	170	<1	2	<1	5	<1
SCRS_48_08	<5	<0.5	21	130	20	<1	2	<1	28	<1
*Rep SCRS_48_08	<5	<0.5	19	126	20	<1	2	<1	36	<1
SCRS_49_08	<5	0.7	127	54	20	<1	27	<1	38	<1
SCRS_51_08	<5	<0.5	4	57	40	<1	<1	<1	8	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	<5	<0.5	19	219	20	<1	4	<1	25	<1
SCRS_53_08	<5	<0.5	16	76	20	<1	3	<1	27	<1
SCRS_54_08	<5	<0.5	12	118	10	<1	2	<1	26	<1
*Std MMISRM16	55	<0.5	24	288	150	29	4	<1	378	<1
*Std MMISRM16	57	<0.5	24	292	150	31	4	<1	380	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	129	143	<1	3430	<1	32	<10	175	9	4.5
*Rep CHYS_545_08	119	155	<1	3420	<1	31	<10	156	11	4.3
SCRS_1_08	<5	2	<1	4210	<1	<1	<10	4.3	32	<0.5
SCRS_2_08	14	36	<1	3140	<1	6	<10	29.5	17	<0.5
SCRS_3_08	8	16	<1	3740	<1	3	<10	27.1	18	<0.5
SCRS_4_08	5	5	<1	2570	<1	<1	<10	3.4	27	<0.5
SCRS_5_08	<5	<1	<1	1850	<1	<1	<10	0.8	28	<0.5
SCRS_6_08	19	7	<1	1870	<1	1	<10	8.2	70	<0.5
SCRS_7_08	<5	5	<1	1740	<1	1	<10	2.6	7	<0.5
SCRS_8_08	29	26	<1	2800	<1	4	<10	14.7	11	<0.5
SCRS_9_08	<5	3	<1	2460	<1	1	<10	0.9	20	<0.5
SCRS_10_08	8	<1	<1	5360	<1	<1	<10	<0.5	17	<0.5
SCRS_11_08	8	6	<1	3460	<1	1	<10	5.5	60	0.6
SCRS_12_08	29	11	<1	510	<1	2	<10	16.5	749	<0.5
*Rep SCRS_12_08	28	8	<1	510	<1	2	<10	15.7	879	<0.5
SCRS_13_08	13	<1	<1	1130	<1	<1	<10	2.1	33	<0.5
SCRS_14_08	51	30	<1	230	<1	6	<10	81.6	2760	<0.5
SCRS_15_08	27	20	<1	370	<1	4	<10	31.6	1100	<0.5
SCRS_16_08	<5	8	<1	4170	<1	2	<10	3.5	11	<0.5
℃RS_17_08	<5	2	<1	4000	<1	<1	<10	1.0	22	<0.5
℃RS_18_08	31	8	<1	790	<1	2	<10	18.1	1110	<0.5
SCRS_19_08	9	11	<1	4740	<1	2	<10	2.1	11	0.6
SCRS_20_08	8	37	<1	3230	<1	8	<10	5.4	5	<0.5
SCRS_21_08	<5	7	<1	5130	<1	2	<10	3.9	13	<0.5
SCRS_22_08	5	8	<1	3230	<1	2	<10	4.2	29	<0.5
SCRS_23_08	<5	3	<1	2680	<1	<1	<10	0.8	21	<0.5
SCRS_24_08	8	22	<1	3530	<1	3	<10	22.8	46	<0.5
*Rep SCRS_24_08	6	18	<1	3490	<1	3	<10	16.1	36	<0.5
SCRS_25_08	10	15	<1	4290	<1	2	<10	13.4	41	<0.5
SCRS_26_08	7	7	<1	1790	<1	2	<10	6.0	37	<0.5
SCRS_27_08	<5	7	<1	2920	<1	1	<10	4.2	13	<0.5
SCRS_28_08	<5	2	<1	1740	<1	<1	<10	1.4	36	<0.5
SCRS_29_08	<5	8	<1	6860	<1	2	<10	6.8	12	<0.5
SCRS_30_08	14	18	<1	3850	<1	3	<10	16.7	57	0.6
SCRS_43_08	<5	2	<1	4240	<1	<1	<10	1.6	9	<0.5
SCRS_44_08	6	10	<1	3310	<1	3	<10	2.5	14	<0.5
SCRS_45_08	<5	1	<1	2710	<1	<1	<10	0.7	20	<0.5
SCRS_46_08	<5	<1	<1	2300	<1	<1	<10	<0.5	21	<0.5
SCRS_47_08	<5	2	<1	1660	<1	<1	<10	1.3	24	<0.5
SCRS_48_08	<5	10	<1	1420	<1	2	<10	3.9	7	<0.5
*Rep SCRS_48_08	<5	10	<1	1380	<1	2	<10	4.2	4	<0.5
SCRS_49_08	16	30	<1	4250	<1	5	<10	16.4	16	<0.5
SCRS_51_08	<5	1	<1	3130	<1	<1	<10	1.3	13	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	<5	6	<1	1430	<1	1	<10	5.7	23	<0.5
SCRS_53_08	<5	4	<1	1410	<1	<1	<10	3.5	10	<0.5
SCRS_54_08	<5	3	<1	1520	<1	<1	<10	2.5	12	<0.5
*Std MMISRM16	16	7	<1	510	<1	<1	<10	34.1	6	<0.5
*Std MMISRM16	15	7	<1	520	<1	<1	<10	34.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	71	<1	1160	87	440	216
*Rep CHYS_545_08	69	<1	1080	80	370	227
SCRS_1_08	6	<1	8	<1	30	<5
SCRS_2_08	9	<1	174	13	80	41
SCRS_3_08	20	1	82	7	40	43
SCRS_4_08	15	<1	39	3	1240	7
SCRS_5_08	4	<1	<5	<1	1740	<5
SCRS_6_08	6	<1	44	5	110	31
SCRS_7_08	5	<1	45	2	170	9
SCRS_8_08	11	<1	130	10	<20	29
SCRS_9_08	1	<1	44	4	1130	<5
SCRS_10_08	41	<1	6	<1	570	<5
SCRS_11_08	16	<1	54	4	100	8
SCRS_12_08	6	<1	47	4	160	26
*Rep SCRS_12_08	6	<1	36	4	140	26
SCRS_13_08	<1	<1	6	3	410	6
SCRS_14_08	13	1	115	10	780	130
SCRS_15_08	8	<1	102	7	190	108
SCRS_16_08	8	<1	92	5	550	<5
˜RS_17_08	2	<1	22	2	1830	<5
RS_18_08	8	<1	62	5	710	98
SCRS_19_08	8	<1	73	4	160	<5
SCRS_20_08	9	<1	260	12	200	13
SCRS_21_08	10	<1	54	3	60	5
SCRS_22_08	13	<1	67	4	200	6
SCRS_23_08	4	<1	35	2	300	<5
SCRS_24_08	9	<1	80	5	120	14
*Rep SCRS_24_08	8	<1	71	5	150	10
SCRS_25_08	9	<1	100	9	150	10
SCRS_26_08	12	<1	69	5	210	9
SCRS_27_08	5	<1	48	3	470	<5
SCRS_28_08	8	<1	16	2	290	13
SCRS_29_08	38	<1	56	3	100	7
SCRS_30_08	7	<1	119	11	220	13
SCRS_43_08	7	<1	16	<1	70	<5
SCRS_44_08	26	<1	139	8	170	8
SCRS_45_08	4	<1	21	1	1030	<5
SCRS_46_08	5	<1	8	<1	1210	<5
SCRS_47_08	10	<1	38	3	3970	5
SCRS_48_08	3	<1	60	3	120	<5
*Rep SCRS_48_08	3	<1	57	3	180	<5
SCRS_49_08	11	<1	182	11	40	33
SCRS_51_08	4	<1	13	<1	420	<5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	3	<1	48	3	470	<5
SCRS_53_08	7	<1	30	2	180	11
SCRS_54_08	3	<1	22	1	170	7
*Std MMISRM16	54	<1	14	<1	250	18
*Std MMISRM16	56	<1	15	1	250	18
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

SGS

Certificate of Analysis

Work Order: TO102354

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 23, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	81
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 81 Soils

Certified By : [signature]
Gavin McGill
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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
SCRS_31_08	4	67	<10	0.1	340	<1	570	11	20	34
*Rep SCRS_31_08	3	71	<10	0.1	360	<1	560	9	15	22
SCRS_32_08	17	81	<10	0.2	600	<1	390	7	725	16
SCRS_33_08	10	34	<10	0.1	110	<1	390	11	<5	<5
SCRS_34_08	2	18	<10	<0.1	80	<1	340	12	<5	<5
SCRS_35_08	1	35	<10	<0.1	330	<1	590	6	75	78
SCRS_36_08	1	26	<10	0.1	150	<1	320	3	28	188
SCRS_37_08	22	2	<10	0.1	50	<1	650	7	<5	56
SCRS_38_08	<1	14	<10	0.1	140	<1	630	3	37	237
SCRS_39_08	<1	11	10	0.2	130	<1	670	1	48	545
SCRS_40_08	21	10	<10	0.2	160	<1	810	23	5	14
SCRS_41_08	1	8	<10	<0.1	60	<1	490	11	<5	<5
SCRS_42_08	1	40	<10	<0.1	50	<1	390	14	<5	<5
SCRS_80_08	4	57	<10	1.9	370	<1	370	22	176	721
*Rep SCRS_80_08	3	48	<10	1.6	380	<1	350	14	206	695
SCRS_81_08	40	10	<10	0.3	150	<1	510	12	11	72
SCRS_82_08	10	33	<10	0.2	380	<1	540	3	73	229
SCRS_83_08	6	103	<10	0.1	370	<1	520	10	93	163
SCRS_84_08	5	197	30	0.2	2100	<1	110	13	588	197
RS_85_08	3	186	<10	0.1	970	<1	160	6	128	208
RS_86_08	<1	248	<10	<0.1	590	<1	20	3	14	181
SCRS_87_08	2	267	<10	<0.1	340	<1	40	5	9	71
SCRS_88_08	4	17	<10	<0.1	190	<1	620	3	19	124
SCRS_89_08	3	122	<10	<0.1	620	<1	290	5	18	67
SCRS_90_08	1	5	<10	<0.1	150	<1	810	9	<5	<5
SCRS_91_08	4	70	<10	<0.1	60	<1	540	18	<5	<5
SCRS_92_08	1	49	<10	<0.1	190	<1	710	4	28	155
*Rep SCRS_92_08	1	51	<10	<0.1	220	<1	680	4	35	201
SCRS_93_08	2	48	<10	0.1	80	<1	680	16	<5	<5
SCRS_94_08	<1	48	<10	0.1	270	<1	640	1	49	422
SCRS_95_08	<1	22	<10	0.1	80	<1	580	5	9	52
SCRS_96_08	2	66	<10	0.2	180	<1	640	9	28	185
SCRS_97_08	16	136	10	0.5	1650	<1	160	10	85	317
SCRS_131_08	3	25	<10	<0.1	80	<1	390	19	<5	<5
SCRS_132_08	7	32	<10	<0.1	70	<1	450	17	<5	<5
SCRS_133_08	5	86	<10	0.1	140	<1	690	17	36	11
SCRS_134_08	15	165	<10	0.2	810	<1	420	12	145	29
SCRS_135_08	106	4	<10	0.2	130	<1	550	5	17	11
SCRS_136_08	10	124	<10	0.4	1160	<1	530	6	167	336
SCRS_137_08	12	27	<10	0.2	310	<1	780	9	26	67
*Rep SCRS_137_08	7	27	<10	0.1	260	<1	700	9	24	67
SCRS_138_08	1	>300	30	<0.1	530	<1	10	6	52	55
SCRS_139_08	3	129	30	0.4	2460	<1	30	2	46	200

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
SCRS_140_08	6	45	10	0.2	1180	<1	540	5	70	326
SCRS_141_08	2	61	<10	<0.1	430	<1	760	8	26	45
SCRS_142_08	<1	28	20	0.3	490	<1	580	5	15	93
SCRS_143_08	1	>300	<10	<0.1	520	<1	20	6	101	40
SCRS_144_08	<1	66	40	0.1	970	<1	180	1	38	193
SCRS_145_08	2	103	60	0.4	2830	<1	20	4	51	183
SCRS_146_08	8	264	<10	0.4	480	<1	<10	11	41	27
SCRS_147_08	1	167	<10	0.2	650	<1	20	1	6	12
SCRS_148_08	9	7	<10	0.4	410	<1	570	3	<5	34
SCRS_159_08	2	46	<10	<0.1	190	<1	770	12	<5	<5
*Rep SCRS_159_08	1	48	<10	<0.1	120	<1	640	13	<5	<5
SCRS_160_08	<1	269	<10	0.1	260	<1	90	8	6	41
SCRS_161_08	23	119	<10	0.3	1020	<1	790	18	107	116
SCRS_162_08	<1	106	<10	<0.1	290	<1	510	12	14	23
SCRS_163_08	<1	57	<10	<0.1	190	<1	620	42	19	73
SCRS_164_08	1	>300	<10	<0.1	380	<1	10	9	8	100
SCRS_165_08	<1	36	<10	<0.1	300	<1	640	12	5	10
SCRS_166_08	3	180	20	<0.1	1360	1	90	4	132	208
SCRS_167_08	4	199	<10	0.1	4880	<1	120	3	17	180
RS_168_08	9	128	10	0.6	1100	<1	20	3	6	26
RS_169_08	2	89	<10	0.1	1630	<1	50	3	16	60
SCRS_175_08	14	158	<10	0.3	580	<1	290	1	413	465
SCRS_176_08	7	41	<10	<0.1	160	<1	710	6	30	20
*Rep SCRS_176_08	6	40	<10	<0.1	130	<1	750	7	20	13
SCRS_177_08	15	22	<10	0.1	200	<1	630	3	6	65
SCRS_178_08	1	>300	<10	<0.1	410	<1	<10	1	12	72
SCRS_179_08	<1	253	40	<0.1	430	1	30	3	165	47
SCRS_180_08	1	282	20	<0.1	910	1	20	9	83	274
SCRS_181_08	<1	60	20	0.1	530	<1	430	3	23	352
SCRS_182_08	1	>300	<10	0.1	600	<1	20	11	16	150
SCRS_206_08	4	76	<10	0.1	2070	<1	210	4	9	156
SCRS_261_08	1	243	<10	<0.1	880	<1	340	137	45	245
SCRS_262_08	<1	90	<10	<0.1	430	<1	660	93	49	19
SCRS_263_08	<1	140	<10	<0.1	250	<1	430	51	28	27
SCRS_264_08	1	43	<10	<0.1	280	<1	580	17	12	64
SCRS_265_08	<1	76	<10	<0.1	210	<1	710	19	7	37
*Rep SCRS_265_08	<1	68	<10	<0.1	190	<1	660	28	6	46
SCRS_266_08	<1	24	<10	<0.1	290	<1	800	19	<5	23
SCRS_267_08	2	23	<10	<0.1	330	<1	740	60	<5	<5
SCRS_268_08	<1	7	<10	<0.1	90	<1	520	14	<5	11
SCRS_269_08	6	144	20	0.2	6980	<1	360	48	962	840
SCRS_270_08	18	130	<10	0.3	4570	<1	500	42	192	337
SCRS_967_08	2	10	20	0.3	210	<1	480	3	19	95

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
SCRS_968_08	4	53	<10	0.1	220	<1	710	5	20	141
SCRS_980_08	33	18	<10	0.4	160	<1	590	7	6	9
*Std MMISRM16	17	43	10	27.1	30	<1	280	3	10	51
*Std MMISRM16	16	47	20	25.8	50	<1	280	3	11	56
*Std MMISRM16	16	49	10	26.0	160	<1	280	3	14	55
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	2	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_31_08	<100	160	5	2.6	1.5	16	7	10	<5	2
*Rep SCRS_31_08	<100	110	4	2.5	1.4	13	7	9	<5	2
SCRS_32_08	<100	740	172	107	35.0	30	208	147	<5	5
SCRS_33_08	<100	100	1	1.2	<0.5	6	1	<1	<5	4
SCRS_34_08	<100	30	1	1.0	<0.5	4	<1	<1	<5	7
SCRS_35_08	<100	360	10	6.0	2.3	79	13	22	<5	4
SCRS_36_08	<100	350	3	1.8	1.2	104	6	11	<5	42
SCRS_37_08	<100	910	4	2.2	0.8	12	5	<1	<5	29
SCRS_38_08	<100	1920	8	5.3	1.9	95	9	14	<5	13
SCRS_39_08	<100	2190	8	4.8	2.1	90	11	15	<5	19
SCRS_40_08	<100	350	12	6.0	2.7	8	15	3	<5	10
SCRS_41_08	<100	10	2	1.7	<0.5	5	1	<1	<5	9
SCRS_42_08	<100	10	1	0.8	<0.5	7	<1	<1	<5	5
SCRS_80_08	<100	2450	16	8.4	4.5	201	20	35	<5	19
*Rep SCRS_80_08	<100	2800	16	9.1	4.8	234	22	40	<5	17
SCRS_81_08	<100	1540	6	3.4	1.3	9	8	3	<5	13
SCRS_82_08	<100	1230	15	8.4	4.1	95	21	28	<5	24
SCRS_83_08	<100	1210	24	12.8	5.3	116	28	44	<5	9
SCRS_84_08	<100	750	203	113	48.0	80	242	333	<5	6
RS_85_08	<100	1430	29	15.9	6.4	45	34	63	<5	18
RS_86_08	<100	1320	15	14.0	1.3	176	6	7	<5	4
SCRS_87_08	<100	830	10	7.5	1.0	114	4	4	<5	4
SCRS_88_08	<100	1030	3	1.8	0.8	58	4	8	<5	45
SCRS_89_08	<100	400	14	7.4	2.7	230	16	9	<5	13
SCRS_90_08	<100	60	1	0.7	<0.5	5	2	<1	<5	39
SCRS_91_08	<100	20	5	3.4	0.6	7	4	1	<5	6
SCRS_92_08	<100	550	3	2.2	0.9	42	5	10	<5	5
*Rep SCRS_92_08	<100	870	4	2.4	1.2	55	6	12	<5	5
SCRS_93_08	<100	10	3	1.8	<0.5	8	3	1	<5	5
SCRS_94_08	<100	1170	7	4.0	1.7	113	9	17	<5	11
SCRS_95_08	<100	660	3	1.6	0.5	55	3	4	<5	43
SCRS_96_08	<100	2020	8	5.2	1.8	57	8	12	<5	40
SCRS_97_08	<100	1820	44	29.3	7.5	265	38	44	<5	13
SCRS_131_08	<100	50	1	0.7	<0.5	5	<1	<1	<5	5
SCRS_132_08	<100	80	2	0.9	<0.5	6	1	<1	<5	4
SCRS_133_08	<100	140	17	10.2	3.0	14	16	11	<5	20
SCRS_134_08	<100	680	55	32.4	10.3	24	59	60	<5	17
SCRS_135_08	<100	500	6	2.5	1.6	7	10	6	<5	42
SCRS_136_08	<100	730	35	18.7	7.4	56	41	74	<5	18
SCRS_137_08	<100	380	4	2.1	1.2	28	5	7	<5	30
*Rep SCRS_137_08	<100	380	4	2.1	1.0	34	5	7	<5	30
SCRS_138_08	100	190	27	14.8	3.3	280	17	18	<5	2
SCRS_139_08	<100	3030	10	6.2	2.4	508	9	20	<5	6

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_140_08	<100	2770	8	4.7	2.5	138	12	25	<5	11
SCRS_141_08	<100	240	6	3.8	1.7	34	8	12	<5	5
SCRS_142_08	<100	2290	3	1.5	0.8	107	3	6	<5	21
SCRS_143_08	<100	110	12	5.0	3.7	64	16	40	<5	2
SCRS_144_08	<100	530	12	6.6	2.8	386	14	14	<5	65
SCRS_145_08	<100	3480	12	9.0	2.9	605	12	22	<5	7
SCRS_146_08	<100	290	25	13.0	3.5	72	17	15	<5	<1
SCRS_147_08	<100	160	1	0.9	<0.5	308	1	3	<5	1
SCRS_148_08	<100	480	1	0.9	<0.5	9	<1	<1	<5	44
SCRS_159_08	<100	30	<1	0.6	<0.5	7	1	1	<5	35
*Rep SCRS_159_08	<100	20	<1	<0.5	<0.5	6	<1	<1	<5	36
SCRS_160_08	<100	80	7	4.7	0.8	140	4	3	<5	13
SCRS_161_08	<100	1210	25	13.8	5.3	52	29	41	<5	20
SCRS_162_08	<100	70	5	2.8	1.0	38	5	6	<5	13
SCRS_163_08	<100	90	8	4.8	1.6	35	9	6	<5	16
SCRS_164_08	<100	210	14	9.3	1.3	203	6	3	<5	2
SCRS_165_08	<100	30	2	0.9	0.6	7	3	1	<5	79
SCRS_166_08	<100	240	28	8.9	10.4	76	54	52	<5	15
SCRS_167_08	<100	1260	5	3.8	1.6	380	3	8	<5	49
'RS_168_08	<100	4070	3	2.9	0.9	449	3	3	6	6
‿RS_169_08	<100	420	2	2.2	0.9	482	2	8	8	14
SCRS_175_08	<100	1960	151	102	19.5	79	139	168	<5	166
SCRS_176_08	<100	120	13	6.2	3.7	12	21	14	<5	38
*Rep SCRS_176_08	<100	90	11	4.6	3.0	11	18	10	<5	34
SCRS_177_08	<100	290	3	1.7	1.1	8	5	3	<5	82
SCRS_178_08	<100	500	2	1.2	<0.5	217	2	6	<5	2
SCRS_179_08	<100	160	18	8.0	6.7	188	30	56	<5	3
SCRS_180_08	300	270	23	10.5	6.1	235	26	30	7	6
SCRS_181_08	<100	750	5	3.0	1.4	340	7	8	<5	72
SCRS_182_08	<100	130	22	12.9	2.0	126	12	6	<5	3
SCRS_206_08	<100	1550	3	2.1	0.8	500	2	4	<5	27
SCRS_261_08	<100	810	64	54.3	5.5	112	37	29	<5	34
SCRS_262_08	<100	90	15	9.9	2.5	16	15	13	<5	93
SCRS_263_08	<100	190	12	7.4	1.5	43	10	15	<5	39
SCRS_264_08	<100	500	2	1.0	0.7	66	3	5	<5	15
SCRS_265_08	<100	80	3	2.1	0.6	45	3	3	<5	17
*Rep SCRS_265_08	<100	90	3	2.1	<0.5	61	3	2	<5	17
SCRS_266_08	<100	40	3	1.4	0.5	9	3	2	<5	9
SCRS_267_08	<100	30	3	1.2	0.6	7	3	2	<5	168
SCRS_268_08	<100	50	<1	<0.5	<0.5	3	<1	<1	<5	21
SCRS_269_08	<100	1180	142	66.9	27.4	211	193	352	<5	76
SCRS_270_08	<100	1820	65	36.2	11.9	84	71	76	<5	139
SCRS_967_08	<100	3020	2	1.5	0.7	31	3	5	<5	22

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_968_08	<100	1160	3	2.2	1.0	43	4	10	<5	11
SCRS_980_08	<100	560	6	2.9	1.2	7	8	4	<5	4
*Std MMISRM16	<100	550	2	0.7	0.7	3	3	2	<5	41
*Std MMISRM16	<100	600	2	0.9	0.7	4	4	3	<5	39
*Std MMISRM16	<100	600	2	0.8	0.8	3	4	4	<5	41
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	3	<1	1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	2	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	<5	<0.5	19	84	30	<1	4	<1	23	<1
*Rep SCRS_31_08	<5	<0.5	19	73	30	<1	3	<1	23	<1
SCRS_32_08	<5	<0.5	460	635	150	<1	80	<1	25	<1
SCRS_33_08	<5	<0.5	1	175	<10	<1	<1	<1	8	<1
SCRS_34_08	<5	<0.5	<1	59	<10	<1	<1	<1	5	<1
SCRS_35_08	<5	1.0	40	73	30	<1	8	<1	10	<1
SCRS_36_08	9	0.9	17	196	120	<1	4	<1	26	2
SCRS_37_08	<5	<0.5	4	526	10	<1	<1	<1	5	<1
SCRS_38_08	9	<0.5	27	1220	110	<1	6	<1	5	1
SCRS_39_08	7	<0.5	30	1080	60	<1	6	<1	6	<1
SCRS_40_08	<5	<0.5	19	474	20	<1	2	<1	10	<1
SCRS_41_08	<5	<0.5	<1	69	20	<1	<1	<1	29	<1
SCRS_42_08	<5	<0.5	<1	82	<10	<1	<1	<1	6	<1
SCRS_80_08	<5	<0.5	64	601	50	<1	14	<1	21	<1
*Rep SCRS_80_08	<5	<0.5	69	547	60	<1	15	<1	20	<1
SCRS_81_08	<5	<0.5	12	305	<10	<1	2	<1	11	<1
SCRS_82_08	10	<0.5	53	418	20	<1	11	<1	7	<1
SCRS_83_08	<5	<0.5	69	388	190	<1	15	<1	26	<1
SCRS_84_08	<5	2.7	602	214	220	<1	125	<1	123	1
ᵔRS_85_08	<5	0.9	88	153	60	<1	19	<1	193	<1
,RS_86_08	<5	0.9	10	65	200	<1	2	<1	64	<1
SCRS_87_08	<5	<0.5	6	81	140	<1	1	<1	67	<1
SCRS_88_08	5	<0.5	12	305	50	<1	3	<1	<5	<1
SCRS_89_08	<5	0.8	18	122	110	<1	3	<1	100	<1
SCRS_90_08	<5	<0.5	3	102	<10	<1	<1	<1	10	<1
SCRS_91_08	<5	<0.5	5	153	<10	<1	<1	<1	6	<1
SCRS_92_08	7	<0.5	16	207	<10	<1	4	<1	5	<1
*Rep SCRS_92_08	7	0.5	21	228	<10	<1	4	<1	<5	<1
SCRS_93_08	<5	<0.5	4	85	<10	<1	<1	<1	6	<1
SCRS_94_08	<5	0.7	29	301	10	<1	6	<1	8	<1
SCRS_95_08	<5	<0.5	6	204	60	<1	1	<1	<5	<1
SCRS_96_08	<5	<0.5	23	313	<10	<1	5	<1	6	<1
SCRS_97_08	<5	1.1	75	474	90	<1	15	<1	64	2
SCRS_131_08	<5	<0.5	1	96	10	<1	<1	<1	9	<1
SCRS_132_08	<5	<0.5	1	167	<10	<1	<1	<1	10	<1
SCRS_133_08	<5	<0.5	26	131	100	<1	4	<1	8	<1
SCRS_134_08	<5	<0.5	119	287	70	<1	23	<1	53	<1
SCRS_135_08	<5	<0.5	23	177	<10	<1	3	<1	18	<1
SCRS_136_08	<5	<0.5	116	256	40	<1	25	<1	32	<1
SCRS_137_08	<5	<0.5	14	397	10	<1	3	<1	13	<1
*Rep SCRS_137_08	<5	<0.5	13	359	20	<1	2	<1	11	<1
SCRS_138_08	<5	7.8	32	91	320	<1	7	<1	109	<1
SCRS_139_08	<5	1.6	26	325	20	<1	6	<1	73	2

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	<5	1.4	41	101	60	<1	9	<1	32	<1
SCRS_141_08	<5	<0.5	22	143	20	<1	4	<1	18	<1
SCRS_142_08	6	0.7	10	307	30	<1	2	<1	5	<1
SCRS_143_08	<5	2.3	60	51	370	<1	14	<1	264	<1
SCRS_144_08	13	1.0	29	234	70	<1	5	<1	19	1
SCRS_145_08	13	2.6	31	542	20	<1	7	<1	90	3
SCRS_146_08	<5	0.9	36	87	220	<1	7	<1	138	<1
SCRS_147_08	<5	1.2	3	96	<10	<1	<1	<1	105	<1
SCRS_148_08	<5	<0.5	<1	534	<10	<1	<1	<1	30	<1
SCRS_159_08	<5	<0.5	3	72	20	<1	<1	<1	8	<1
*Rep SCRS_159_08	<5	<0.5	1	59	20	<1	<1	<1	6	<1
SCRS_160_08	<5	1.2	5	82	330	<1	<1	<1	25	<1
SCRS_161_08	<5	<0.5	65	623	70	<1	13	<1	22	<1
SCRS_162_08	<5	<0.5	12	71	120	<1	2	<1	13	<1
SCRS_163_08	<5	<0.5	14	62	190	<1	3	<1	7	<1
SCRS_164_08	<5	3.0	8	112	270	<1	1	<1	97	<1
SCRS_165_08	<5	<0.5	3	174	40	<1	<1	<1	<5	<1
SCRS_166_08	<5	2.0	88	155	480	<1	17	<1	159	<1
SCRS_167_08	<5	<0.5	9	392	<10	<1	2	<1	67	<1
˜RS_168_08	24	3.1	6	593	10	<1	1	<1	49	6
,RS_169_08	7	2.3	8	79	<10	<1	2	<1	12	<1
SCRS_175_08	<5	0.8	274	350	70	<1	54	<1	28	<1
SCRS_176_08	<5	<0.5	41	155	<10	<1	7	<1	46	<1
*Rep SCRS_176_08	<5	<0.5	34	141	<10	<1	5	<1	55	<1
SCRS_177_08	<5	<0.5	10	263	<10	<1	1	<1	14	<1
SCRS_178_08	<5	2.5	5	72	10	<1	1	<1	118	<1
SCRS_179_08	<5	7.0	98	65	380	<1	21	<1	241	<1
SCRS_180_08	<5	3.3	59	215	260	<1	12	<1	160	<1
SCRS_181_08	8	1.0	18	204	30	<1	3	<1	50	<1
SCRS_182_08	<5	1.6	13	108	240	<1	2	<1	114	<1
SCRS_206_08	<5	<0.5	5	1620	<10	<1	1	<1	27	<1
SCRS_261_08	<5	<0.5	62	117	4350	<1	12	<1	89	<1
SCRS_262_08	<5	<0.5	27	95	230	<1	5	<1	18	<1
SCRS_263_08	<5	<0.5	22	107	250	<1	5	<1	39	<1
SCRS_264_08	8	<0.5	8	341	30	<1	2	<1	<5	<1
SCRS_265_08	<5	<0.5	6	96	70	<1	1	<1	<5	<1
*Rep SCRS_265_08	<5	<0.5	4	73	80	<1	<1	<1	<5	<1
SCRS_266_08	<5	<0.5	4	84	40	<1	<1	<1	5	<1
SCRS_267_08	<5	<0.5	6	163	20	<1	<1	<1	23	<1
SCRS_268_08	<5	<0.5	<1	116	<10	<1	<1	<1	14	<1
SCRS_269_08	<5	1.4	558	625	150	<1	119	<1	66	1
SCRS_270_08	<5	<0.5	152	822	160	<1	30	<1	52	<1
SCRS_967_08	19	0.9	10	850	60	<1	2	<1	9	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	<5	0.6	16	220	10	<1	3	<1	14	<1
SCRS_980_08	<5	<0.5	13	137	<10	<1	2	<1	26	<1
*Std MMISRM16	38	<0.5	10	190	70	21	2	<1	318	<1
*Std MMISRM16	40	<0.5	11	212	80	20	2	<1	332	<1
*Std MMISRM16	40	<0.5	12	212	80	20	2	<1	325	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	5	5	<1	1200	<1	<1	<10	1.9	10	<0.5
*Rep SCRS_31_08	<5	5	<1	1200	<1	<1	<10	1.9	5	<0.5
SCRS_32_08	22	131	<1	1320	<1	29	<10	22.7	83	<0.5
SCRS_33_08	<5	<1	<1	1230	<1	<1	<10	<0.5	<3	<0.5
SCRS_34_08	<5	<1	<1	3250	<1	<1	<10	<0.5	<3	<0.5
SCRS_35_08	15	9	<1	3150	<1	2	<10	5.5	28	<0.5
SCRS_36_08	11	4	<1	1110	<1	<1	<10	16.2	193	<0.5
SCRS_37_08	<5	3	<1	2810	<1	<1	<10	4.7	<3	<0.5
SCRS_38_08	8	7	<1	3390	<1	1	<10	10.3	20	<0.5
SCRS_39_08	7	8	<1	3360	<1	2	<10	13.0	17	<0.5
SCRS_40_08	14	8	<1	4690	<1	2	<10	4.8	<3	<0.5
SCRS_41_08	<5	<1	<1	4160	<1	<1	<10	0.5	<3	<0.5
SCRS_42_08	<5	<1	<1	2830	<1	<1	<10	<0.5	<3	<0.5
SCRS_80_08	50	16	<1	1150	<1	3	<10	19.8	48	<0.5
*Rep SCRS_80_08	43	16	<1	1000	<1	3	<10	22.2	68	<0.5
SCRS_81_08	7	4	<1	1440	<1	1	<10	3.0	<3	<0.5
SCRS_82_08	17	14	<1	1320	<1	3	<10	14.4	17	<0.5
SCRS_83_08	43	19	<1	2320	<1	4	<10	15.8	61	<0.5
SCRS_84_08	356	161	<1	260	<1	37	<10	64.1	2330	0.5
RS_85_08	40	22	<1	330	<1	5	<10	12.0	1310	<0.5
RS_86_08	44	3	<1	110	<1	2	<10	10.9	708	<0.5
SCRS_87_08	23	2	<1	120	<1	1	<10	5.5	243	<0.5
SCRS_88_08	<5	3	<1	1690	<1	<1	<10	6.9	13	<0.5
SCRS_89_08	25	8	<1	1080	<1	3	<10	10.1	211	<0.5
SCRS_90_08	<5	<1	<1	2300	<1	<1	<10	0.6	10	<0.5
SCRS_91_08	<5	2	<1	1840	<1	<1	<10	1.2	6	<0.5
SCRS_92_08	<5	4	<1	2270	<1	<1	<10	2.9	27	<0.5
*Rep SCRS_92_08	6	4	<1	2230	<1	<1	<10	3.4	34	<0.5
SCRS_93_08	<5	2	<1	1710	<1	<1	<10	0.7	11	<0.5
SCRS_94_08	18	6	<1	2260	<1	1	<10	4.6	55	<0.5
SCRS_95_08	<5	2	<1	1350	<1	<1	<10	2.9	14	<0.5
SCRS_96_08	21	6	<1	690	<1	1	<10	3.8	29	<0.5
SCRS_97_08	151	23	<1	390	<1	7	<10	43.4	680	<0.5
SCRS_131_08	<5	<1	<1	1100	<1	<1	<10	<0.5	7	<0.5
SCRS_132_08	<5	<1	<1	1260	<1	<1	<10	<0.5	6	<0.5
SCRS_133_08	11	9	<1	1050	<1	3	<10	3.3	12	<0.5
SCRS_134_08	79	35	<1	630	<1	9	<10	12.0	42	<0.5
SCRS_135_08	16	7	<1	240	<1	1	<10	4.5	7	<0.5
SCRS_136_08	52	29	<1	1160	<1	6	<10	14.3	26	<0.5
SCRS_137_08	<5	4	<1	1230	<1	<1	<10	3.9	6	<0.5
*Rep SCRS_137_08	<5	3	<1	1160	<1	<1	<10	3.3	5	<0.5
SCRS_138_08	75	11	<1	70	<1	4	<10	61.8	2900	<0.5
SCRS_139_08	49	6	<1	250	<1	1	<10	31.2	477	0.7

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	31	9	<1	650	<1	2	<10	17.0	176	<0.5
SCRS_141_08	9	5	<1	820	<1	1	<10	2.4	16	<0.5
SCRS_142_08	11	3	<1	360	<1	<1	<10	2.9	63	<0.5
SCRS_143_08	23	13	<1	60	<1	2	<10	14.3	1350	<0.5
SCRS_144_08	47	10	<1	610	<1	2	<10	10.8	330	<0.5
SCRS_145_08	63	8	<1	260	<1	2	<10	29.0	721	<0.5
SCRS_146_08	46	11	<1	10	<1	4	<10	18.2	325	<0.5
SCRS_147_08	17	<1	<1	120	<1	<1	<10	9.7	364	<0.5
SCRS_148_08	<5	<1	<1	4710	<1	<1	<10	<0.5	4	<0.5
SCRS_159_08	<5	<1	<1	1110	<1	<1	<10	1.1	7	<0.5
*Rep SCRS_159_08	<5	<1	<1	940	<1	<1	<10	0.6	6	<0.5
SCRS_160_08	15	2	<1	280	<1	<1	<10	6.9	305	<0.5
SCRS_161_08	59	18	<1	780	<1	4	<10	9.9	18	<0.5
SCRS_162_08	13	3	<1	380	<1	<1	<10	2.6	88	<0.5
SCRS_163_08	7	5	<1	390	<1	1	<10	1.9	34	<0.5
SCRS_164_08	33	3	<1	60	<1	2	<10	15.1	944	<0.5
SCRS_165_08	<5	1	<1	3970	<1	<1	<10	<0.5	3	<0.5
SCRS_166_08	31	36	<1	210	<1	7	<10	41.5	1330	<0.5
SCRS_167_08	40	2	<1	1350	<1	<1	<10	18.7	97	<0.5
RS_168_08	19	2	<1	430	<1	<1	<10	5.1	894	2.1
RS_169_08	28	2	<1	430	<1	<1	<10	8.2	919	<0.5
SCRS_175_08	1060	79	<1	270	<1	24	<10	24.7	1420	<0.5
SCRS_176_08	18	15	<1	370	<1	3	<10	10.5	37	<0.5
*Rep SCRS_176_08	<5	12	<1	360	<1	2	<10	9.7	32	<0.5
SCRS_177_08	<5	3	<1	290	<1	<1	<10	1.8	13	<0.5
SCRS_178_08	18	<1	<1	70	<1	<1	<10	13.2	1340	<0.5
SCRS_179_08	50	24	<1	70	<1	4	<10	31.1	4350	<0.5
SCRS_180_08	82	18	<1	110	<1	4	<10	25.9	1470	<0.5
SCRS_181_08	30	5	<1	610	<1	1	<10	9.7	263	<0.5
SCRS_182_08	30	6	<1	90	<1	3	<10	19.6	651	<0.5
SCRS_206_08	30	1	<1	990	<1	<1	<10	7.6	131	<0.5
SCRS_261_08	118	19	<1	390	<1	8	<10	24.7	167	<0.5
SCRS_262_08	13	9	<1	510	<1	2	<10	2.6	30	<0.5
SCRS_263_08	30	6	<1	250	<1	2	<10	9.5	117	<0.5
SCRS_264_08	9	2	<1	3250	<1	<1	<10	1.7	29	<0.5
SCRS_265_08	8	2	<1	1260	<1	<1	<10	1.0	35	<0.5
*Rep SCRS_265_08	9	1	<1	1120	<1	<1	<10	0.9	60	<0.5
SCRS_266_08	<5	1	<1	760	<1	<1	<10	<0.5	11	<0.5
SCRS_267_08	<5	2	<1	610	<1	<1	<10	1.4	4	<0.5
SCRS_268_08	<5	<1	<1	680	<1	<1	<10	<0.5	4	<0.5
SCRS_269_08	159	134	<1	1280	<1	28	<10	45.8	412	<0.5
SCRS_270_08	116	45	<1	1090	<1	11	<10	14.0	50	<0.5
SCRS_967_08	<5	2	<1	3950	<1	<1	<10	5.8	18	<0.5

Final FO102354 Unit...

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	5	4	<1	2710	<1	<1	<10	2.5	22	<0.5
SCRS_980_08	8	5	<1	1550	<1	1	<10	2.5	5	<0.5
*Std MMISRM16	9	3	<1	520	<1	<1	<10	19.7	<3	<0.5
*Std MMISRM16	10	3	<1	530	<1	<1	<10	22.6	<3	<0.5
*Std MMISRM16	10	3	<1	540	<1	<1	<10	22.2	3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	6	<1	37	2	90	<5
*Rep SCRS_31_08	6	<1	37	2	70	<5
SCRS_32_08	18	2	2100	80	130	67
SCRS_33_08	2	<1	13	<1	100	<5
SCRS_34_08	2	<1	10	<1	510	<5
SCRS_35_08	5	<1	90	6	30	14
SCRS_36_08	7	<1	24	2	480	24
SCRS_37_08	5	<1	37	2	70	<5
SCRS_38_08	10	<1	71	6	370	<5
SCRS_39_08	4	<1	75	5	140	<5
SCRS_40_08	2	<1	104	5	260	<5
SCRS_41_08	3	<1	18	2	280	<5
SCRS_42_08	8	<1	11	1	1110	<5
SCRS_80_08	22	<1	95	8	320	26
*Rep SCRS_80_08	21	<1	96	9	230	27
SCRS_81_08	7	<1	52	3	60	<5
SCRS_82_08	6	<1	122	9	50	10
SCRS_83_08	97	<1	166	12	80	17
SCRS_84_08	13	3	1680	95	350	119
RS_85_08	5	<1	207	12	210	41
RS_86_08	2	<1	107	14	670	31
SCRS_87_08	2	<1	60	7	60	17
SCRS_88_08	7	<1	26	2	140	<5
SCRS_89_08	10	<1	90	5	190	40
SCRS_90_08	1	<1	13	<1	880	<5
SCRS_91_08	3	<1	46	3	130	<5
SCRS_92_08	8	<1	31	2	310	<5
*Rep SCRS_92_08	9	<1	39	3	330	5
SCRS_93_08	7	<1	28	2	2030	<5
SCRS_94_08	24	<1	59	4	30	10
SCRS_95_08	4	<1	23	2	750	<5
SCRS_96_08	7	<1	71	5	130	10
SCRS_97_08	31	<1	344	26	250	117
SCRS_131_08	2	<1	9	<1	420	<5
SCRS_132_08	1	<1	13	<1	80	<5
SCRS_133_08	21	<1	150	8	150	10
SCRS_134_08	10	<1	469	26	200	26
SCRS_135_08	1	<1	48	2	120	5
SCRS_136_08	12	<1	267	16	<20	30
SCRS_137_08	11	<1	34	2	50	<5
*Rep SCRS_137_08	11	<1	32	2	60	<5
SCRS_138_08	9	1	131	10	190	170
SCRS_139_08	25	<1	59	5	100	85

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	21	<1	56	5	150	41
SCRS_141_08	8	<1	56	3	<20	7
SCRS_142_08	9	<1	23	2	140	6
SCRS_143_08	3	<1	72	4	180	92
SCRS_144_08	58	<1	76	6	110	35
SCRS_145_08	24	<1	78	8	110	111
SCRS_146_08	23	<1	168	10	90	59
SCRS_147_08	8	<1	9	<1	<20	42
SCRS_148_08	2	<1	9	<1	150	<5
SCRS_159_08	3	<1	8	<1	110	<5
*Rep SCRS_159_08	2	<1	6	<1	130	<5
SCRS_160_08	2	<1	51	4	2550	20
SCRS_161_08	10	<1	222	12	70	45
SCRS_162_08	5	<1	41	2	620	15
SCRS_163_08	6	<1	64	4	2010	8
SCRS_164_08	4	<1	91	7	1130	46
SCRS_165_08	1	<1	14	<1	640	<5
SCRS_166_08	7	<1	141	7	930	89
SCRS_167_08	15	<1	29	3	110	27
RS_168_08	72	<1	23	4	180	46
RS_169_08	11	<1	17	4	100	43
SCRS_175_08	14	2	1100	104	290	61
SCRS_176_08	10	<1	100	5	40	13
*Rep SCRS_176_08	10	<1	79	3	60	13
SCRS_177_08	4	<1	29	1	180	<5
SCRS_178_08	5	<1	11	1	140	91
SCRS_179_08	7	<1	105	7	220	116
SCRS_180_08	12	<1	144	9	750	108
SCRS_181_08	39	<1	39	3	50	22
SCRS_182_08	5	<1	132	8	470	48
SCRS_206_08	15	<1	20	2	110	33
SCRS_261_08	25	<1	588	45	1100	43
SCRS_262_08	6	<1	136	8	3790	9
SCRS_263_08	7	<1	118	6	990	40
SCRS_264_08	4	<1	20	1	860	6
SCRS_265_08	25	<1	34	2	320	6
*Rep SCRS_265_08	20	<1	26	1	280	5
SCRS_266_08	2	<1	23	1	1930	<5
SCRS_267_08	8	<1	25	1	2040	<5
SCRS_268_08	7	<1	<5	<1	790	<5
SCRS_269_08	52	2	1050	47	1490	116
SCRS_270_08	117	<1	499	30	660	64
SCRS_967_08	17	<1	21	2	30	<5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	8	<1	34	2	30	8
SCRS_980_08	2	<1	53	3	70	7
*Std MMISRM16	38	<1	8	<1	270	12
*Std MMISRM16	41	<1	11	<1	210	14
*Std MMISRM16	41	<1	11	<1	200	14
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

Certificate of Analysis

Work Order: TO102355

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 15, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	84
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 84 Soils

Certified By :
Gavin McGill
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

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
555_1_08	16	13	<10	0.2	4280	<1	770	8	<5	220
*Rep 555_1_08	13	15	<10	0.1	4000	<1	710	9	<5	216
555_2_08	8	194	10	<0.1	830	1	60	16	651	139
555_3_08	35	155	40	2.9	1180	19	90	6	2630	26
555_4_08	2	271	<10	0.3	280	<1	<10	5	59	151
555_5_08	5	103	<10	0.5	30	<1	90	7	328	109
555_6_08	24	201	10	0.7	850	<1	30	5	737	22
555_7_08	6	120	<10	0.3	140	<1	190	6	55	6
555_8_08	2	272	<10	<0.1	460	<1	20	4	62	45
555_91_08	12	7	<10	0.1	11400	<1	890	6	<5	142
SCRS_110_08	<1	28	<10	<0.1	270	<1	380	18	21	110
SCRS_111_08	4	74	<10	0.2	930	<1	400	29	53	46
SCRS_112_08	1	72	<10	<0.1	450	<1	270	19	33	147
SCRS_113_08	12	3	<10	0.3	100	<1	390	3	9	71
*Rep SCRS_113_08	12	3	<10	0.3	100	<1	380	4	9	117
SCRS_149_08	26	9	<10	0.7	1690	<1	600	15	7	201
SCRS_150_08	<1	20	<10	<0.1	350	<1	540	21	<5	15
SCRS_151_08	4	16	<10	0.7	2640	<1	640	3	200	140
SCRS_152_08	1	118	20	<0.1	890	<1	310	39	157	378
CRS_153_08	9	37	<10	0.2	1790	<1	490	7	46	186
CRS_154_08	3	239	10	0.1	2260	<1	100	4	96	172
SCRS_155_08	91	12	<10	0.5	520	<1	350	8	16	66
SCRS_156_08	<1	21	<10	<0.1	180	<1	450	5	<5	39
SCRS_157_08	11	40	<10	0.1	490	<1	560	10	<5	43
SCRS_158_08	1	38	<10	0.2	750	<1	480	9	44	99
SCRS_170_08	2	126	60	3.8	2210	3	70	3	232	81
SCRS_171_08	<1	6	<10	<0.1	500	<1	510	26	<5	23
*Rep SCRS_171_08	<1	7	<10	<0.1	420	<1	510	20	<5	17
SCRS_172_08	<1	18	<10	<0.1	740	<1	550	35	19	21
SCRS_173_08	12	21	<10	0.7	570	<1	470	6	51	297
SCRS_174_08	4	76	<10	0.4	1450	<1	300	6	248	672
SCRS_183_08	<1	274	<10	<0.1	650	<1	40	2	<5	30
SCRS_184_08	<1	200	<10	<0.1	1130	<1	20	2	23	126
SCRS_185_08	9	136	10	0.2	3360	<1	60	37	40	460
SCRS_186_08	<1	239	<10	<0.1	340	<1	<10	8	24	19
SCRS_187_08	3	22	<10	<0.1	3200	<1	600	12	35	43
SCRS_188_08	<1	91	<10	<0.1	1940	<1	130	190	23	493
SCRS_189_08	12	236	20	0.4	4100	<1	30	62	105	202
SCRS_199_08	2	>300	10	<0.1	560	<1	<10	8	22	42
SCRS_200_08	<1	239	<10	<0.1	560	2	<10	14	21	83
*Rep SCRS_200_08	<1	259	<10	<0.1	440	1	<10	11	21	69
SCRS_201_08	<1	167	<10	<0.1	460	<1	<10	5	15	96
SCRS_202_08	<1	241	10	<0.1	1310	<1	<10	13	68	240

Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
SCRS_203_08	4	274	20	0.1	1530	<1	<10	15	89	88
SCRS_204_08	3	196	10	<0.1	3110	<1	10	80	15	101
SCRS_205_08	<1	47	<10	<0.1	3630	<1	340	16	30	124
SCRS_211_08	<1	201	<10	<0.1	2600	<1	40	20	68	55
SCRS_212_08	1	43	<10	<0.1	300	<1	450	13	7	<5
SCRS_213_08	21	24	<10	0.3	480	<1	510	20	16	19
SCRS_214_08	4	67	<10	0.3	870	<1	360	68	29	94
SCRS_215_08	<1	196	<10	<0.1	360	<1	<10	2	19	57
SCRS_216_08	1	112	<10	<0.1	1500	<1	210	339	128	124
SCRS_217_08	<1	14	10	0.1	1090	<1	410	123	13	199
*Rep SCRS_217_08	<1	10	20	<0.1	1120	<1	410	83	12	149
SCRS_218_08	20	232	<10	<0.1	4140	<1	20	16	<5	110
SCRS_219_08	<1	>300	<10	<0.1	2740	<1	30	2	<5	28
SCRS_220_08	4	176	10	<0.1	5940	<1	220	20	503	170
SCRS_221_08	2	297	<10	<0.1	760	<1	<10	17	13	98
SCRS_222_08	26	50	<10	0.1	3280	<1	600	53	129	33
SCRS_229_08	2	266	20	<0.1	500	<1	10	11	40	99
SCRS_230_08	<1	183	<10	<0.1	300	1	<10	5	13	41
SCRS_231_08	<1	172	<10	<0.1	540	<1	50	2	25	72
CRS_232_08	<1	265	<10	<0.1	610	<1	10	2	<5	21
RS_233_08	1	>300	<10	<0.1	1960	<1	120	14	21	111
SCRS_234_08	<1	22	30	0.3	920	<1	380	36	55	230
SCRS_235_08	5	58	<10	0.6	1450	<1	430	26	127	307
*Rep SCRS_235_08	2	57	<10	0.5	1240	<1	390	26	63	281
SCRS_236_08	26	43	<10	0.4	1650	<1	680	65	131	129
SCRS_237_08	9	45	<10	0.3	2250	<1	480	56	127	171
SCRS_238_08	<1	59	<10	<0.1	1490	<1	260	25	<5	60
SCRS_239_08	3	23	100	0.4	9570	<1	200	18	1130	264
SCRS_244_08	19	72	<10	<0.1	6830	<1	590	30	2650	77
SCRS_245_08	<1	75	<10	0.1	2860	<1	220	7	72	123
SCRS_246_08	5	203	10	0.2	1140	<1	10	26	155	49
SCRS_247_08	7	208	10	<0.1	1560	<1	40	5	24	346
SCRS_248_08	11	111	20	1.0	4180	1	230	16	127	420
SCRS_249_08	2	105	<10	0.2	2670	<1	260	9	373	274
SCRS_250_08	4	41	<10	0.1	1670	<1	520	27	74	56
SCRS_251_08	3	30	10	0.3	800	<1	570	10	161	314
*Rep SCRS_251_08	6	35	<10	0.4	810	<1	570	14	108	229
SCRS_252_08	12	44	<10	0.4	1960	<1	520	79	79	87
SCRS_253_08	2	44	20	0.3	1060	<1	530	36	39	107
SCRS_254_08	25	35	<10	0.3	5250	<1	410	592	543	218
SCRS_255_08	1	156	30	0.1	1500	<1	<10	1	90	98
SCRS_277_08	<1	79	<10	<0.1	440	<1	380	33	20	11
SCRS_278_08	3	45	<10	<0.1	510	<1	490	34	5	<5

Final : TO102355 Order

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
SCRS_279_08	1	49	<10	<0.1	1170	<1	410	29	11	8
SCRS_280_08	2	39	<10	<0.1	1230	<1	520	38	19	6
SCRS_281_08	<1	34	30	0.1	890	<1	410	11	28	136
SCRS_282_08	90	17	<10	0.5	3050	<1	770	72	43	186
SCRS_283_08	<1	88	30	0.3	4420	<1	100	6	74	265
*Std MMISRM16	19	50	20	31.5	70	<1	200	4	23	68
*Std MMISRM16	20	51	20	30.8	70	<1	200	4	24	66
*Std MMISRM16	21	52	20	34.9	70	<1	200	5	22	67
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
555_1_08	<100	2840	3	2.8	<0.5	18	2	<1	<5	6
*Rep 555_1_08	<100	2930	3	2.6	<0.5	19	3	<1	<5	6
555_2_08	<100	290	41	17.0	14.4	83	64	354	<5	7
555_3_08	<100	1010	597	237	324	23	1480	11600	<5	19
555_4_08	<100	460	19	10.9	3.2	23	14	26	<5	<1
555_5_08	<100	1430	119	63.1	46.1	21	219	366	<5	18
555_6_08	<100	1720	185	88.9	53.6	23	257	412	<5	<1
555_7_08	100	680	49	31.5	9.5	9	53	36	<5	6
555_8_08	<100	1530	59	40.2	6.9	34	35	24	<5	3
555_91_08	<100	890	1	1.1	<0.5	9	<1	<1	6	9
SCRS_110_08	<100	320	3	1.9	0.7	28	3	8	<5	6
SCRS_111_08	<100	2190	13	7.9	2.4	125	12	22	<5	6
SCRS_112_08	<100	1240	7	4.2	1.3	194	6	11	<5	4
SCRS_113_08	<100	530	2	1.0	<0.5	11	3	2	<5	14
*Rep SCRS_113_08	<100	540	3	1.2	<0.5	11	3	2	<5	14
SCRS_149_08	<100	970	9	5.2	1.7	13	11	<1	<5	20
SCRS_150_08	<100	30	2	1.3	<0.5	8	2	<1	<5	36
SCRS_151_08	<100	3270	25	12.0	8.0	46	40	68	<5	23
SCRS_152_08	<100	1240	42	22.6	8.7	164	46	56	<5	159
SCRS_153_08	<100	690	7	3.3	1.6	27	9	10	<5	33
SCRS_154_08	<100	570	18	9.0	4.1	89	18	37	<5	7
SCRS_155_08	<100	390	9	4.0	1.9	5	13	5	<5	37
SCRS_156_08	<100	40	1	0.8	<0.5	11	2	1	<5	46
SCRS_157_08	<100	790	3	1.5	0.6	12	3	1	<5	25
SCRS_158_08	<100	1120	6	3.2	1.5	73	8	16	<5	17
SCRS_170_08	200	4430	45	20.9	10.2	173	57	139	<5	9
SCRS_171_08	<100	40	5	5.0	0.6	12	3	1	<5	12
*Rep SCRS_171_08	<100	30	5	4.0	0.5	10	3	2	<5	10
SCRS_172_08	<100	40	9	5.4	1.6	16	10	7	<5	25
SCRS_173_08	<100	7000	11	5.8	2.9	64	14	19	<5	55
SCRS_174_08	<100	3160	174	99.0	32.7	25	168	210	<5	119
SCRS_183_08	<100	<10	<1	<0.5	<0.5	114	<1	<1	<5	7
SCRS_184_08	<100	50	5	6.0	0.9	189	4	12	7	4
SCRS_185_08	<100	960	12	8.6	2.0	369	9	17	<5	18
SCRS_186_08	<100	70	4	2.6	0.7	149	3	13	<5	1
SCRS_187_08	<100	140	4	1.4	2.1	15	8	15	<5	28
SCRS_188_08	<100	380	30	31.4	3.8	120	20	8	<5	47
SCRS_189_08	<100	2130	88	41.0	10.3	180	56	38	<5	7
SCRS_199_08	<100	110	9	4.9	1.5	89	6	8	<5	1
SCRS_200_08	<100	100	4	3.2	0.6	128	3	11	<5	1
*Rep SCRS_200_08	<100	100	3	3.2	0.6	121	2	12	<5	1
SCRS_201_08	<100	30	7	5.8	1.1	140	6	7	<5	3
SCRS_202_08	<100	180	26	12.3	4.8	150	25	25	<5	3

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_203_08	<100	390	27	15.0	4.7	159	21	39	<5	1
SCRS_204_08	<100	210	7	10.3	1.1	204	6	8	<5	5
SCRS_205_08	<100	1170	4	1.7	1.5	191	5	12	<5	82
SCRS_211_08	<100	60	35	20.5	6.8	121	38	26	<5	8
SCRS_212_08	<100	20	3	1.8	0.7	5	4	2	<5	35
SCRS_213_08	<100	570	11	4.7	3.4	13	19	11	<5	91
SCRS_214_08	<100	800	13	7.1	2.6	29	13	14	<5	53
SCRS_215_08	<100	60	7	4.9	1.0	170	6	8	<5	3
SCRS_216_08	<100	700	25	13.2	7.7	93	28	72	<5	12
SCRS_217_08	<100	1580	2	1.2	0.8	45	3	5	<5	96
*Rep SCRS_217_08	<100	1320	1	0.8	0.6	45	3	5	<5	93
SCRS_218_08	<100	830	8	15.0	<0.5	246	3	2	<5	5
SCRS_219_08	<100	40	<1	1.6	<0.5	100	<1	<1	<5	5
SCRS_220_08	<100	290	60	23.6	20.1	70	87	207	<5	49
SCRS_221_08	<100	80	4	3.1	<0.5	125	2	6	7	6
SCRS_222_08	<100	850	35	16.1	11.0	56	48	64	<5	87
SCRS_229_08	<100	210	15	6.3	3.7	174	19	13	<5	3
SCRS_230_08	<100	60	3	2.0	0.5	171	3	7	<5	3
SCRS_231_08	<100	180	3	1.9	0.7	206	3	10	<5	6
CRS_232_08	<100	20	<1	0.6	<0.5	120	<1	<1	<5	2
CRS_233_08	<100	120	9	4.9	1.5	70	7	7	<5	24
SCRS_234_08	<100	3120	10	5.6	2.8	103	13	20	<5	61
SCRS_235_08	<100	2000	31	14.5	8.1	118	39	47	12	47
*Rep SCRS_235_08	<100	2340	19	9.1	4.2	162	22	23	11	42
SCRS_236_08	<100	3650	37	20.5	6.4	75	36	44	<5	32
SCRS_237_08	<100	2760	27	14.2	6.1	230	31	47	<5	31
SCRS_238_08	<100	1450	1	0.9	<0.5	149	<1	2	<5	67
SCRS_239_08	<100	5600	142	77.0	40.4	393	192	451	<5	78
SCRS_244_08	<100	520	77	24.2	50.7	27	176	496	<5	23
SCRS_245_08	<100	1200	18	9.6	4.6	205	17	39	<5	29
SCRS_246_08	<100	290	25	11.2	7.5	34	31	62	<5	<1
SCRS_247_08	<100	560	5	3.7	0.7	287	3	8	<5	22
SCRS_248_08	300	1920	47	18.9	11.3	145	54	50	<5	33
SCRS_249_08	<100	570	72	28.7	25.2	110	109	191	<5	10
SCRS_250_08	<100	1100	15	6.4	5.1	58	23	34	5	32
SCRS_251_08	<100	2350	21	11.4	5.6	118	29	59	<5	20
*Rep SCRS_251_08	<100	2650	15	7.8	3.9	100	21	38	<5	20
SCRS_252_08	<100	3470	15	7.6	3.6	81	20	32	<5	66
SCRS_253_08	<100	4430	6	3.7	1.7	93	8	17	<5	24
SCRS_254_08	100	4010	106	52.6	27.7	40	148	207	<5	198
SCRS_255_08	<100	1080	11	5.7	2.4	375	11	41	<5	2
SCRS_277_08	<100	30	7	4.0	1.1	12	6	11	<5	4
SCRS_278_08	<100	30	2	1.2	0.7	6	3	3	<5	4

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_279_08	<100	20	8	3.8	1.8	11	10	9	<5	137
SCRS_280_08	<100	70	9	4.9	2.0	13	12	8	<5	55
SCRS_281_08	<100	1390	4	2.6	1.0	132	5	10	<5	37
SCRS_282_08	<100	2650	10	4.7	3.1	22	15	5	7	62
SCRS_283_08	<100	1380	13	7.9	2.2	449	13	32	<5	46
*Std MMISRM16	<100	690	3	1.0	1.3	3	6	6	<5	40
*Std MMISRM16	<100	690	3	0.9	1.2	3	5	6	<5	41
*Std MMISRM16	<100	700	3	1.2	1.3	3	6	5	<5	40
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	100	<10	<1	<0.5	<0.5	2	<1	<1	<5	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	8	<0.5	<1	1060	20	<1	<1	<1	8	1
*Rep 555_1_08	8	<0.5	<1	1130	20	<1	<1	<1	11	1
555_2_08	5	3.5	301	174	730	2	80	<1	178	4
555_3_08	<5	0.7	9090	114	370	2	2480	<1	109	<1
555_4_08	<5	1.0	44	207	60	<1	9	<1	91	<1
555_5_08	<5	0.7	820	553	50	1	160	<1	159	<1
555_6_08	<5	1.4	827	52	140	<1	167	<1	144	1
555_7_08	<5	1.2	115	103	40	<1	20	<1	72	<1
555_8_08	<5	2.9	62	96	140	<1	12	<1	129	1
555_91_08	6	<0.5	<1	228	<10	<1	<1	<1	<5	1
SCRS_110_08	<5	<0.5	11	249	30	<1	2	<1	8	<1
SCRS_111_08	<5	0.7	37	460	370	<1	8	<1	15	2
SCRS_112_08	<5	<0.5	19	405	50	<1	4	<1	20	1
SCRS_113_08	<5	<0.5	4	792	<10	<1	<1	<1	11	<1
*Rep SCRS_113_08	<5	<0.5	5	837	<10	<1	<1	<1	10	<1
SCRS_149_08	<5	<0.5	8	241	20	<1	<1	<1	7	<1
SCRS_150_08	<5	<0.5	3	56	50	<1	<1	<1	11	<1
SCRS_151_08	<5	0.5	142	254	10	<1	28	<1	7	3
SCRS_152_08	<5	0.9	107	356	80	<1	22	<1	91	<1
SCRS_153_08	<5	<0.5	22	119	<10	<1	4	<1	15	<1
SCRS_154_08	<5	2.2	50	83	110	<1	11	<1	103	<1
SCRS_155_08	<5	<0.5	23	405	<10	<1	3	<1	16	<1
SCRS_156_08	<5	<0.5	3	48	50	<1	<1	<1	<5	<1
SCRS_157_08	<5	<0.5	6	192	<10	<1	<1	<1	10	<1
SCRS_158_08	<5	0.6	28	352	90	<1	6	<1	8	2
SCRS_170_08	5	17.2	186	107	220	<1	40	<1	54	3
SCRS_171_08	<5	<0.5	4	53	50	<1	<1	<1	51	<1
*Rep SCRS_171_08	<5	<0.5	4	57	40	<1	<1	<1	57	<1
SCRS_172_08	<5	<0.5	18	134	50	<1	3	<1	18	<1
SCRS_173_08	7	0.6	39	464	10	<1	8	<1	13	<1
SCRS_174_08	<5	<0.5	407	247	20	<1	79	<1	24	<1
SCRS_183_08	<5	1.1	<1	46	<10	<1	<1	<1	8	<1
SCRS_184_08	<5	2.4	12	76	30	<1	3	<1	33	<1
SCRS_185_08	<5	1.8	26	422	60	<1	5	<1	119	2
SCRS_186_08	<5	7.3	10	27	160	<1	3	<1	40	<1
SCRS_187_08	6	<0.5	27	795	30	<1	5	<1	11	1
SCRS_188_08	6	<0.5	27	175	60	<1	5	<1	<5	1
SCRS_189_08	8	2.0	85	449	300	<1	16	<1	124	3
SCRS_199_08	<5	2.4	16	58	470	<1	3	<1	251	<1
SCRS_200_08	<5	7.2	9	67	200	<1	2	<1	39	<1
*Rep SCRS_200_08	<5	6.8	8	51	200	<1	2	<1	53	<1
SCRS_201_08	<5	1.3	11	53	30	<1	2	<1	26	<1
SCRS_202_08	<5	3.7	45	84	190	<1	9	<1	99	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	<5	3.8	57	174	130	<1	12	<1	179	1
SCRS_204_08	7	3.5	12	173	50	<1	2	<1	29	3
SCRS_205_08	13	1.0	21	1090	20	<1	4	<1	<5	<1
SCRS_211_08	<5	3.6	55	110	130	<1	11	<1	21	<1
SCRS_212_08	<5	<0.5	5	128	<10	<1	<1	<1	20	<1
SCRS_213_08	<5	<0.5	32	237	40	<1	5	<1	21	<1
SCRS_214_08	<5	<0.5	30	184	70	<1	6	<1	28	<1
SCRS_215_08	<5	2.1	12	45	50	<1	3	<1	54	<1
SCRS_216_08	<5	<0.5	103	495	20	<1	23	<1	43	<1
SCRS_217_08	36	<0.5	10	1420	20	<1	2	<1	<5	7
*Rep SCRS_217_08	31	<0.5	9	1170	20	<1	2	<1	<5	6
SCRS_218_08	<5	<0.5	4	419	30	<1	<1	<1	100	2
SCRS_219_08	<5	<0.5	<1	62	<10	<1	<1	<1	100	<1
SCRS_220_08	<5	1.2	292	425	130	<1	63	<1	132	<1
SCRS_221_08	<5	2.0	6	125	50	<1	1	<1	28	<1
SCRS_222_08	<5	<0.5	117	595	150	<1	23	<1	15	1
SCRS_229_08	<5	3.0	28	152	170	<1	5	<1	182	<1
SCRS_230_08	<5	3.0	6	36	110	<1	2	<1	44	<1
SCRS_231_08	<5	1.4	13	65	<10	<1	3	<1	27	<1
SCRS_232_08	<5	<0.5	<1	29	<10	<1	<1	<1	7	<1
SCRS_233_08	<5	2.3	16	131	280	<1	3	<1	38	<1
SCRS_234_08	79	0.9	41	2190	20	<1	8	<1	8	2
SCRS_235_08	<5	0.6	102	568	130	<1	20	<1	15	1
*Rep SCRS_235_08	<5	0.7	51	506	120	<1	11	<1	12	1
SCRS_236_08	<5	0.6	86	1420	580	<1	18	<1	10	3
SCRS_237_08	<5	0.6	85	784	180	<1	18	<1	7	2
SCRS_238_08	15	<0.5	2	287	20	<1	<1	<1	<5	1
SCRS_239_08	8	2.1	717	617	70	1	154	<1	18	7
SCRS_244_08	<5	0.8	753	687	70	<1	160	<1	32	<1
SCRS_245_08	31	1.5	55	750	20	<1	12	<1	23	4
SCRS_246_08	<5	1.2	103	49	150	<1	22	<1	165	2
SCRS_247_08	<5	3.7	10	200	30	<1	2	<1	119	1
SCRS_248_08	11	0.6	96	512	240	<1	19	<1	100	3
SCRS_249_08	<5	0.8	310	229	70	<1	66	<1	171	<1
SCRS_250_08	<5	<0.5	63	1000	180	<1	12	<1	26	1
SCRS_251_08	6	0.7	105	464	50	<1	22	<1	13	2
*Rep SCRS_251_08	6	1.0	75	450	50	<1	15	<1	10	2
SCRS_252_08	12	0.6	56	1100	160	<1	11	<1	10	4
SCRS_253_08	10	1.0	27	732	150	<1	6	<1	7	2
SCRS_254_08	10	<0.5	411	2730	180	<1	81	<1	18	1
SCRS_255_08	<5	3.1	39	119	20	1	10	<1	211	2
SCRS_277_08	<5	<0.5	18	47	40	<1	4	<1	17	<1
SCRS_278_08	<5	<0.5	7	61	10	<1	1	<1	21	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	<5	<0.5	23	186	30	<1	4	<1	27	<1
SCRS_280_08	<5	<0.5	21	241	30	<1	4	<1	9	<1
SCRS_281_08	20	1.0	17	571	100	<1	4	<1	8	4
SCRS_282_08	12	<0.5	28	1160	20	<1	4	<1	10	2
SCRS_283_08	8	2.3	41	444	20	<1	9	<1	85	2
*Std MMISRM16	56	<0.5	20	271	120	29	3	<1	367	<1
*Std MMISRM16	56	<0.5	19	237	110	27	3	<1	385	<1
*Std MMISRM16	57	<0.5	19	261	120	29	3	<1	366	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	6	<1	<1	3560	<1	<1	<10	4.0	<3	1.1
*Rep 555_1_08	<5	<1	<1	3320	<1	<1	<10	3.7	<3	0.9
555_2_08	54	61	<1	130	<1	9	<10	173	735	2.1
555_3_08	235	1650	<1	240	<1	161	<10	524	160	0.9
555_4_08	27	13	<1	30	<1	3	<10	23.4	435	1.0
555_5_08	132	208	<1	430	<1	25	<10	40.7	212	0.7
555_6_08	124	217	<1	30	<1	36	<10	35.7	811	1.1
555_7_08	19	39	<1	120	<1	8	<10	6.8	215	<0.5
555_8_08	60	22	<1	40	<1	7	<10	23.3	1500	0.6
555_91_08	<5	<1	<1	4500	<1	<1	<10	0.9	<3	<0.5
SCRS_110_08	7	3	<1	1280	<1	<1	<10	1.2	13	0.5
SCRS_111_08	28	10	<1	1090	<1	2	<10	5.2	61	<0.5
SCRS_112_08	26	5	<1	1000	<1	1	<10	4.0	60	<0.5
SCRS_113_08	10	2	<1	640	<1	<1	<10	1.7	11	<0.5
*Rep SCRS_113_08	12	2	<1	640	<1	<1	<10	1.7	6	<0.5
SCRS_149_08	14	6	<1	2670	<1	2	<10	4.0	5	<0.5
SCRS_150_08	10	1	<1	2290	<1	<1	<10	0.9	13	<0.5
SCRS_151_08	23	37	<1	2030	<1	5	<10	31.6	8	<0.5
SCRS_152_08	129	33	<1	580	<1	7	<10	27.1	204	<0.5
CRS_153_08	19	7	<1	390	<1	1	<10	6.9	11	<0.5
RS_154_08	28	14	<1	230	<1	3	<10	17.6	1520	<0.5
SCRS_155_08	11	9	<1	430	<1	2	<10	2.3	4	<0.5
SCRS_156_08	6	1	<1	700	<1	<1	<10	1.4	9	<0.5
SCRS_157_08	11	2	<1	390	<1	<1	<10	1.1	7	<0.5
SCRS_158_08	21	7	<1	1280	<1	1	<10	4.3	53	<0.5
SCRS_170_08	51	47	2	260	<1	9	40	41.7	3990	0.8
SCRS_171_08	12	2	<1	2980	<1	<1	<10	0.9	20	<0.5
*Rep SCRS_171_08	21	2	<1	3020	<1	<1	<10	0.8	35	<0.5
SCRS_172_08	14	7	<1	1160	<1	2	<10	5.4	56	<0.5
SCRS_173_08	29	11	<1	490	<1	2	<10	5.7	21	<0.5
SCRS_174_08	296	118	<1	510	<1	27	<10	11.2	174	<0.5
SCRS_183_08	7	<1	<1	460	<1	<1	<10	2.4	275	<0.5
SCRS_184_08	11	4	<1	270	<1	<1	<10	8.1	563	<0.5
SCRS_185_08	46	8	<1	520	<1	2	<10	40.4	374	<0.5
SCRS_186_08	12	2	<1	60	<1	<1	<10	11.7	2010	<0.5
SCRS_187_08	<5	7	<1	2220	<1	<1	<10	1.6	9	<0.5
SCRS_188_08	22	11	<1	1020	<1	4	<10	3.8	62	<0.5
SCRS_189_08	81	33	<1	390	<1	13	<10	40.3	412	1.0
SCRS_199_08	15	4	<1	70	<1	1	<10	9.8	1030	0.6
SCRS_200_08	22	2	<1	60	<1	<1	<10	17.9	1560	<0.5
*Rep SCRS_200_08	19	2	<1	50	<1	<1	<10	16.8	1540	<0.5
SCRS_201_08	16	4	<1	90	<1	<1	<10	8.7	572	<0.5
SCRS_202_08	39	16	<1	100	<1	4	<10	30.2	1020	0.6

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	33	16	<1	90	<1	4	<10	33.5	957	0.8
SCRS_204_08	40	4	<1	290	<1	<1	<10	10.7	573	0.5
SCRS_205_08	25	5	<1	2330	<1	<1	<10	3.0	85	<0.5
SCRS_211_08	18	23	<1	350	<1	6	<10	11.8	902	<0.5
SCRS_212_08	<5	2	<1	430	<1	<1	<10	0.9	4	<0.5
SCRS_213_08	<5	13	<1	430	<1	2	<10	4.1	<3	<0.5
SCRS_214_08	18	9	<1	360	<1	2	<10	1.1	5	<0.5
SCRS_215_08	6	4	<1	90	<1	1	<10	8.9	433	<0.5
SCRS_216_08	109	24	<1	810	<1	4	<10	13.1	51	<0.5
SCRS_217_08	10	2	<1	1860	<1	<1	<10	0.9	18	<0.5
*Rep SCRS_217_08	5	2	<1	1800	<1	<1	<10	0.8	36	<0.5
SCRS_218_08	18	2	<1	430	<1	<1	<10	4.6	60	1.2
SCRS_219_08	20	<1	<1	440	<1	<1	<10	2.6	11	1.0
SCRS_220_08	52	74	<1	1240	<1	12	<10	30.3	476	0.5
SCRS_221_08	12	2	<1	130	<1	<1	<10	8.3	520	<0.5
SCRS_222_08	23	36	<1	1800	<1	7	<10	9.7	4	<0.5
SCRS_229_08	19	13	<1	50	<1	3	<10	25.3	1010	<0.5
SCRS_230_08	10	2	<1	60	<1	<1	<10	9.9	1080	<0.5
SCRS_231_08	<5	3	<1	290	<1	<1	<10	5.8	392	<0.5
SCRS_232_08	<5	<1	<1	240	<1	<1	<10	1.9	159	0.6
SCRS_233_08	5	5	<1	1290	<1	1	<10	14.9	992	<0.5
SCRS_234_08	17	11	<1	1490	<1	2	<10	12.6	79	<0.5
SCRS_235_08	51	31	<1	1650	<1	6	<10	11.9	70	<0.5
*Rep SCRS_235_08	51	16	<1	1510	<1	3	<10	9.8	108	<0.5
SCRS_236_08	52	25	<1	2210	<1	6	<10	17.2	11	<0.5
SCRS_237_08	57	24	<1	1760	<1	5	<10	14.4	99	<0.5
SCRS_238_08	7	<1	<1	860	<1	<1	<10	1.1	71	<0.5
SCRS_239_08	157	168	<1	1090	<1	27	<10	45.4	415	<0.5
SCRS_244_08	10	166	<1	2540	<1	20	<10	6.1	5	<0.5
SCRS_245_08	12	14	<1	2710	<1	3	<10	4.3	88	1.2
SCRS_246_08	34	26	<1	50	<1	5	<10	21.3	516	0.8
SCRS_247_08	14	3	<1	310	<1	<1	<10	15.7	1150	<0.5
SCRS_248_08	108	37	<1	910	<1	9	<10	41.0	116	2.2
SCRS_249_08	103	88	<1	800	<1	15	<10	22.0	125	0.6
SCRS_250_08	19	18	<1	1820	<1	3	<10	5.6	14	<0.5
SCRS_251_08	39	26	<1	2420	<1	4	<10	19.5	44	<0.5
*Rep SCRS_251_08	34	18	<1	2400	<1	3	<10	13.3	45	<0.5
SCRS_252_08	21	15	<1	1110	<1	3	<10	5.8	38	<0.5
SCRS_253_08	14	7	<1	910	<1	1	<10	3.1	72	<0.5
SCRS_254_08	55	116	<1	870	<1	20	<10	39.9	20	<0.5
SCRS_255_08	20	10	<1	40	<1	2	<10	25.4	1280	0.6
SCRS_277_08	<5	5	<1	1980	<1	<1	<10	2.0	21	<0.5
SCRS_278_08	<5	2	<1	2190	<1	<1	<10	1.0	8	<0.5

SGS

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	8	<1	22	3	30	<5
*Rep 555_1_08	9	<1	21	3	40	<5
555_2_08	45	1	170	13	510	176
555_3_08	77	1	3020	169	180	280
555_4_08	6	<1	88	8	250	39
555_5_08	14	<1	691	56	160	67
555_6_08	19	2	988	74	90	93
555_7_08	7	<1	293	27	260	27
555_8_08	8	<1	321	33	340	68
555_91_08	3	2	8	1	90	<5
SCRS_110_08	7	<1	21	2	380	<5
SCRS_111_08	51	<1	96	7	220	17
SCRS_112_08	14	<1	48	4	160	18
SCRS_113_08	1	<1	16	<1	50	<5
*Rep SCRS_113_08	2	<1	18	1	60	<5
SCRS_149_08	4	<1	59	4	40	9
SCRS_150_08	7	<1	14	1	280	<5
SCRS_151_08	14	<1	156	11	30	43
SCRS_152_08	28	<1	240	20	120	62
SCRS_153_08	3	<1	35	3	130	9
SCRS_154_08	6	<1	89	6	130	64
SCRS_155_08	2	<1	54	3	70	<5
SCRS_156_08	2	<1	9	<1	130	<5
SCRS_157_08	3	<1	19	1	80	<5
SCRS_158_08	11	<1	39	3	210	9
SCRS_170_08	5	<1	246	13	320	81
SCRS_171_08	3	<1	40	4	670	<5
*Rep SCRS_171_08	3	<1	38	3	470	<5
SCRS_172_08	3	<1	54	4	250	13
SCRS_173_08	5	<1	72	5	80	8
SCRS_174_08	14	<1	1020	77	140	46
SCRS_183_08	2	<1	<5	1	40	16
SCRS_184_08	6	<1	26	6	120	28
SCRS_185_08	22	<1	65	7	630	108
SCRS_186_08	7	<1	18	2	430	130
SCRS_187_08	11	<1	21	<1	70	<5
SCRS_188_08	35	<1	253	32	2050	13
SCRS_189_08	37	<1	475	25	880	119
SCRS_199_08	3	<1	45	4	200	59
SCRS_200_08	6	1	19	3	330	116
*Rep SCRS_200_08	5	<1	18	4	360	114
SCRS_201_08	2	<1	32	7	140	30
SCRS_202_08	11	<1	109	9	440	85

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	22	<1	129	11	140	127
SCRS_204_08	42	<1	41	17	630	61
SCRS_205_08	7	<1	21	1	170	19
SCRS_211_08	6	<1	190	17	700	92
SCRS_212_08	3	<1	23	1	350	<5
SCRS_213_08	5	<1	67	3	1110	5
SCRS_214_08	20	<1	98	6	250	10
SCRS_215_08	5	<1	33	5	130	57
SCRS_216_08	43	<1	146	11	160	47
SCRS_217_08	32	<1	15	1	2920	<5
*Rep SCRS_217_08	25	<1	11	<1	2910	<5
SCRS_218_08	13	<1	47	25	1020	30
SCRS_219_08	4	<1	<5	4	60	11
SCRS_220_08	11	<1	292	16	530	71
SCRS_221_08	4	<1	19	3	300	29
SCRS_222_08	28	<1	194	12	600	22
SCRS_229_08	8	<1	55	5	560	72
SCRS_230_08	4	<1	12	2	220	48
SCRS_231_08	3	<1	11	2	<20	26
SCRS_232_08	5	<1	<5	<1	<20	12
SCRS_233_08	6	<1	48	4	490	71
SCRS_234_08	123	<1	68	5	710	17
SCRS_235_08	32	<1	191	11	420	22
*Rep SCRS_235_08	30	<1	117	8	420	20
SCRS_236_08	98	<1	228	16	390	30
SCRS_237_08	22	<1	173	11	820	40
SCRS_238_08	13	<1	10	<1	430	18
SCRS_239_08	60	2	895	65	400	188
SCRS_244_08	19	<1	350	16	270	39
SCRS_245_08	57	<1	97	7	160	28
SCRS_246_08	15	<1	118	8	370	93
SCRS_247_08	4	<1	24	3	240	55
SCRS_248_08	34	<1	236	11	890	85
SCRS_249_08	18	<1	374	19	270	61
SCRS_250_08	12	<1	97	5	400	17
SCRS_251_08	18	<1	139	9	130	24
*Rep SCRS_251_08	19	<1	106	7	110	22
SCRS_252_08	89	<1	114	7	120	22
SCRS_253_08	38	<1	45	3	260	15
SCRS_254_08	163	<1	697	39	6730	75
SCRS_255_08	19	<1	45	5	70	127
SCRS_277_08	3	<1	54	3	180	13
SCRS_278_08	3	<1	16	<1	370	9

Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
SCRS_279_08	6	<1	53	3	80	9
SCRS_280_08	11	<1	68	4	240	8
SCRS_281_08	10	<1	30	2	900	15
SCRS_282_08	12	<1	64	4	90	15
SCRS_283_08	17	<1	68	7	70	74
*Std MMISRM16	46	<1	11	<1	250	14
*Std MMISRM16	45	<1	11	<1	250	15
*Std MMISRM16	44	<1	11	<1	270	20
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	6
*Blk BLANK	<1	<1	<5	<1	<20	6

SGS

Certificate of Analysis

Work Order: TO102356

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 16, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	78
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 78 Soils

Certified By : Gavin McGill
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
5552_1_08	<1	34	<10	<0.1	3660	<1	750	5	30	199
*Rep 5552_1_08	<1	37	<10	<0.1	2980	<1	660	6	23	151
5552_2_08	6	174	<10	0.1	430	<1	30	4	775	7
5552_3_08	3	258	<10	<0.1	520	<1	10	4	61	91
5552_4_08	10	254	20	1.0	210	<1	20	4	169	39
5552_5_08	<1	158	<10	0.3	100	<1	220	17	63	42
5552_6_08	2	212	<10	<0.1	720	<1	110	9	88	137
5552_7_08	<1	191	<10	<0.1	480	<1	70	13	42	117
5552_8_08	3	278	<10	<0.1	380	<1	30	7	38	90
SCRS_50_08	<1	31	<10	<0.1	600	<1	560	7	5	45
SCRS_67_08	5	130	10	0.4	1020	<1	40	4	26	303
SCRS_107_08	13	210	10	<0.1	1910	<1	70	6	29	65
SCRS_108_08	19	100	20	0.3	2090	<1	260	22	117	188
SCRS_109_08	33	57	<10	0.3	1470	<1	420	52	65	420
*Rep SCRS_109_08	28	58	<10	0.3	1460	<1	390	32	54	525
SCRS_190_08	13	3	<10	0.2	390	<1	590	9	18	39
SCRS_191_08	<1	90	50	<0.1	800	<1	120	<1	22	228
SCRS_192_08	2	>300	10	<0.1	620	<1	10	18	16	221
SCRS_193_08	<1	19	<10	<0.1	400	<1	590	13	5	15
RS_194_08	<1	154	10	<0.1	460	1	30	1	14	100
RS_195_08	7	275	<10	<0.1	600	<1	<10	2	20	76
SCRS_196_08	2	298	20	<0.1	1780	<1	30	4	215	326
SCRS_197_08	106	6	<10	1.1	130	<1	440	5	18	39
SCRS_198_08	<1	58	<10	<0.1	420	<1	540	14	13	6
SCRS_207_08	3	28	<10	<0.1	790	<1	510	28	39	61
SCRS_208_08	6	137	40	0.1	2120	2	20	1	82	161
SCRS_209_08	2	256	<10	<0.1	180	<1	<10	<1	20	25
*Rep SCRS_209_08	3	273	<10	<0.1	180	<1	<10	2	28	38
SCRS_210_08	3	252	70	<0.1	2140	2	40	11	110	475
SCRS_223_08	<1	40	<10	<0.1	430	<1	590	21	11	11
SCRS_224_08	4	163	50	0.1	2550	2	20	5	63	163
SCRS_225_08	7	218	<10	<0.1	1220	<1	110	18	31	428
SCRS_226_08	2	109	<10	<0.1	1470	<1	160	9	17	451
SCRS_227_08	<1	95	20	<0.1	970	<1	120	4	22	321
SCRS_228_08	3	217	<10	<0.1	1050	<1	100	14	49	457
SCRS_236_08	5	82	20	<0.1	1720	<1	70	27	69	631
SCRS_240_08	2	25	<10	<0.1	1700	<1	610	7	50	115
SCRS_241_08	<1	73	<10	<0.1	720	<1	350	36	15	91
SCRS_242_08	2	113	70	0.3	3850	1	200	7	266	331
SCRS_243_08	2	129	50	<0.1	2050	2	130	4	92	996
*Rep SCRS_243_08	<1	126	30	<0.1	1560	1	110	4	62	1020
SCRS_257_08	<1	67	<10	<0.1	3200	<1	420	81	50	50
SCRS_258_08	5	114	<10	<0.1	4000	<1	360	19	73	313

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
SCRS_259_08	16	94	<10	0.3	3050	<1	560	164	80	133
SCRS_260_08	<1	125	10	<0.1	1470	2	100	8	46	276
SCRS_271_08	<1	83	<10	<0.1	740	<1	630	102	26	21
SCRS_272_08	<1	77	<10	<0.1	1490	<1	590	57	36	36
SCRS_273_08	<1	126	<10	<0.1	1450	<1	390	70	42	41
SCRS_274_08	3	204	<10	<0.1	2200	<1	220	121	47	273
SCRS_275_08	<1	128	<10	<0.1	850	2	250	5	9	533
SCRS_276_08	3	278	<10	0.1	650	<1	30	2	10	89
SCRS_284_08	<1	53	<10	<0.1	680	<1	230	3	11	186
SCRS_285_08	20	17	<10	<0.1	440	<1	690	10	<5	13
*Rep SCRS_285_08	23	13	<10	<0.1	470	<1	700	7	<5	5
SCRS_286_08	16	74	<10	<0.1	580	<1	390	24	30	17
SCRS_287_08	7	53	<10	<0.1	1800	<1	590	9	39	61
SCRS_288_08	<1	3	<10	<0.1	280	<1	600	8	<5	5
SCRS_289_08	45	41	<10	0.5	1480	<1	550	15	87	16
SCRS_290_08	1	142	<10	0.1	640	<1	90	10	51	559
SCRS_291_08	40	8	<10	0.4	2280	<1	550	10	39	163
SCRS_292_08	<1	39	50	0.5	3740	<1	440	6	237	291
SCRS_293_08	1	66	<10	<0.1	610	<1	520	17	11	77
CRS_294_08	<1	7	50	<0.1	1070	<1	450	3	66	199
RS_295_08	265	8	<10	1.3	930	<1	700	8	<5	<5
SCRS_296_08	26	32	<10	0.2	1100	<1	880	64	<5	<5
SCRS_297_08	2	13	<10	0.3	440	<1	680	6	70	266
*Rep SCRS_297_08	5	12	<10	0.4	460	<1	680	5	84	291
SCRS_298_08	2	55	<10	<0.1	1380	<1	560	6	400	250
SCRS_299_08	38	51	<10	0.3	1230	<1	820	65	24	15
SCRS_300_08	17	44	<10	0.3	5700	<1	890	51	101	51
SCRS_301_08	2	68	<10	0.1	3000	<1	510	2	53	307
SCRS_302_08	6	106	<10	0.1	3980	<1	590	26	98	283
SCRS_303_08	20	4	<10	<0.1	400	<1	580	189	<5	91
SCRS_304_08	44	39	<10	0.2	720	<1	870	23	8	<5
SCRS_305_08	25	22	<10	0.5	1020	<1	830	4	123	120
SCRS_306_08	26	53	<10	0.5	2410	<1	530	12	177	30
SCRS_307_08	27	74	<10	0.5	1180	<1	410	13	140	196
SCRS_308_08	2	26	30	0.2	490	<1	630	4	19	237
SCRS_309_08	<1	37	<10	<0.1	1300	<1	710	3	33	190
*Rep SCRS_309_08	1	42	<10	0.1	1490	<1	670	6	41	154
SCRS_310_08	2	122	<10	0.1	3790	<1	150	6	39	698
SCRS_311_08	2	27	<10	0.1	1770	<1	870	8	<5	52
SCRS_312_08	17	4	<10	<0.1	220	<1	430	6	<5	35
SCRS_313_08	<1	85	<10	<0.1	4870	<1	320	9	22	414
SCRS_9211_08	<1	160	20	<0.1	2550	1	40	3	36	66
*Std MMISRM16	18	57	20	29.5	80	<1	240	4	26	67

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	59	20	32.2	60	<1	240	4	20	75
*Std MMISRM16	20	62	20	32.2	60	<1	250	4	21	80
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
5552_1_08	<100	1740	3	1.9	0.7	62	4	15	<5	14
*Rep 5552_1_08	<100	1420	2	1.6	0.6	42	3	11	<5	13
5552_2_08	<100	160	65	26.2	29.8	16	123	577	<5	<1
5552_3_08	<100	300	60	37.1	7.2	48	37	34	<5	3
5552_4_08	<100	12300	92	50.0	19.6	21	91	114	<5	1
5552_5_08	<100	2290	62	45.0	10.0	43	58	41	<5	23
5552_6_08	<100	1190	25	15.9	4.1	74	21	25	<5	6
5552_7_08	<100	780	15	12.3	1.6	98	8	9	<5	9
5552_8_08	<100	1050	30	20.2	3.4	28	17	15	<5	3
SCRS_50_08	<100	290	<1	0.6	<0.5	15	1	2	<5	18
SCRS_67_08	<100	3770	10	8.5	1.2	155	6	9	<5	4
SCRS_107_08	<100	380	4	2.6	0.7	249	4	15	<5	46
SCRS_108_08	<100	1390	28	12.4	7.2	183	36	45	<5	70
SCRS_109_08	<100	640	19	10.1	3.8	68	21	24	7	103
*Rep SCRS_109_08	<100	670	12	6.4	2.7	49	14	18	8	99
SCRS_190_08	<100	370	6	2.5	1.8	9	9	6	5	17
SCRS_191_08	<100	520	4	2.3	0.7	403	3	8	7	16
SCRS_192_08	<100	250	15	9.7	1.2	79	7	6	14	2
SCRS_193_08	<100	20	3	2.1	<0.5	12	3	3	5	40
ˉRS_194_08	<100	190	4	3.8	0.8	309	4	6	10	6
RS_195_08	<100	340	6	4.6	1.0	71	4	8	7	<1
SCRS_196_08	<100	220	38	12.4	12.7	84	60	61	7	5
SCRS_197_08	<100	210	3	1.7	0.9	8	5	3	<5	69
SCRS_198_08	<100	20	7	3.5	1.3	12	8	7	<5	38
SCRS_207_08	<100	800	8	4.9	1.8	141	9	14	<5	14
SCRS_208_08	<100	960	16	8.5	4.5	491	21	37	<5	3
SCRS_209_08	<100	490	4	2.4	0.8	54	4	9	6	<1
*Rep SCRS_209_08	<100	350	12	6.5	1.6	42	8	11	6	<1
SCRS_210_08	<100	630	67	34.2	11.7	133	63	39	5	8
SCRS_223_08	<100	40	5	3.0	1.0	10	5	4	<5	32
SCRS_224_08	100	930	15	8.8	3.6	351	18	27	<5	5
SCRS_225_08	<100	1030	15	12.4	1.4	161	8	12	<5	16
SCRS_226_08	<100	2340	15	13.3	1.0	163	7	7	<5	20
SCRS_227_08	<100	1600	7	4.9	0.9	299	5	10	<5	20
SCRS_228_08	<100	430	34	23.7	2.8	80	22	18	<5	19
SCRS_236_08	<100	110	9	8.7	2.2	297	11	32	<5	18
SCRS_240_08	<100	1460	4	1.4	1.9	21	7	19	<5	168
SCRS_241_08	<100	370	12	9.9	1.6	40	10	7	<5	26
SCRS_242_08	<100	2160	93	50.9	21.6	231	118	102	<5	52
SCRS_243_08	100	1010	20	8.3	6.4	175	33	26	5	32
*Rep SCRS_243_08	100	1060	16	6.6	4.7	181	24	18	5	29
SCRS_257_08	<100	580	20	12.2	3.7	28	20	17	<5	38
SCRS_258_08	<100	320	16	7.4	5.4	79	24	34	8	68

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_259_08	<100	4940	28	14.3	5.4	123	28	33	<5	70
SCRS_260_08	<100	780	7	5.0	1.0	323	6	17	<5	21
SCRS_271_08	<100	140	13	8.2	2.2	24	13	17	<5	18
SCRS_272_08	<100	160	22	13.3	3.7	17	22	20	<5	67
SCRS_273_08	<100	330	51	40.3	4.6	85	28	18	<5	78
SCRS_274_08	<100	250	21	12.0	2.8	72	15	16	<5	47
SCRS_275_08	<100	130	4	8.3	<0.5	132	3	5	7	10
SCRS_276_08	<100	220	2	1.4	<0.5	119	1	4	<5	3
SCRS_284_08	<100	130	2	1.6	<0.5	174	2	5	<5	10
SCRS_285_08	<100	720	7	3.8	1.1	9	7	<1	<5	7
*Rep SCRS_285_08	<100	640	5	2.4	0.9	7	5	<1	<5	7
SCRS_286_08	<100	290	10	4.9	3.1	13	16	26	<5	13
SCRS_287_08	<100	390	5	2.5	1.6	65	7	22	<5	14
SCRS_288_08	<100	<10	1	0.5	<0.5	3	1	<1	<5	32
SCRS_289_08	<100	260	72	30.4	22.3	25	119	75	<5	30
SCRS_290_08	<100	440	15	5.9	3.0	119	17	14	<5	22
SCRS_291_08	<100	2020	7	3.5	2.0	19	10	15	<5	198
SCRS_292_08	<100	3460	37	21.1	8.6	338	43	89	<5	128
SCRS_293_08	<100	370	2	1.0	<0.5	31	2	5	<5	49
?RS_294_08	<100	210	9	5.9	2.5	97	12	25	<5	74
,RS_295_08	<100	1340	7	3.3	1.2	7	8	<1	<5	9
SCRS_296_08	<100	150	4	2.0	1.1	11	6	6	<5	5
SCRS_297_08	<100	1070	11	5.5	2.7	93	15	23	<5	30
*Rep SCRS_297_08	<100	1290	12	6.8	3.1	105	17	30	<5	28
SCRS_298_08	<100	790	26	15.5	8.0	122	38	141	<5	9
SCRS_299_08	<100	190	15	7.4	3.9	22	22	19	<5	96
SCRS_300_08	<100	4050	30	16.4	6.7	38	37	38	<5	98
SCRS_301_08	<100	3860	14	9.2	2.9	113	14	29	<5	18
SCRS_302_08	<100	1320	20	11.7	4.2	46	22	39	<5	44
SCRS_303_08	<100	1080	21	9.2	5.1	7	34	<1	<5	3
SCRS_304_08	<100	460	8	3.5	2.0	16	11	7	<5	10
SCRS_305_08	<100	810	16	7.0	6.1	47	29	47	<5	16
SCRS_306_08	<100	260	130	49.3	44.1	27	220	147	<5	48
SCRS_307_08	<100	780	12	6.6	3.7	116	18	63	<5	11
SCRS_308_08	<100	2070	4	2.3	0.9	110	6	8	<5	18
SCRS_309_08	<100	1000	4	2.4	1.0	71	5	11	<5	28
*Rep SCRS_309_08	<100	1550	5	3.1	1.2	85	6	13	<5	28
SCRS_310_08	<100	3010	18	13.8	2.6	247	13	15	<5	11
SCRS_311_08	<100	1000	6	3.6	1.0	14	5	1	<5	53
SCRS_312_08	<100	670	1	0.7	<0.5	14	1	<1	12	60
SCRS_313_08	<100	2110	9	6.5	1.4	191	7	9	<5	28
SCRS_9211_08	<100	300	16	8.8	2.8	266	15	15	<5	13
*Std MMISRM16	<100	670	3	1.0	1.2	3	6	6	<5	39

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
*Std MMISRM16	<100	710	2	1.0	1.1	3	5	5	<5	40
*Std MMISRM16	<100	720	3	1.1	1.1	3	5	5	<5	43
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	23	0.6	18	1340	30	<1	4	<1	8	<1
*Rep 5552_1_08	21	0.6	14	915	30	<1	3	<1	8	<1
5552_2_08	<5	1.4	687	22	1320	<1	188	<1	152	<1
5552_3_08	<5	1.5	67	135	160	<1	13	<1	103	<1
5552_4_08	5	0.7	239	131	50	<1	51	<1	79	<1
5552_5_08	<5	0.7	115	368	20	<1	22	<1	63	<1
5552_6_08	5	1.9	45	214	130	<1	9	<1	159	<1
5552_7_08	<5	2.3	16	71	190	<1	3	<1	42	<1
5552_8_08	<5	0.8	31	109	240	<1	6	<1	111	<1
SCRS_50_08	<5	0.6	3	65	20	<1	<1	<1	17	<1
SCRS_67_08	<5	0.6	14	104	50	<1	3	<1	94	<1
SCRS_107_08	<5	1.3	13	248	10	<1	3	<1	65	<1
SCRS_108_08	<5	1.6	82	612	360	<1	18	<1	65	2
SCRS_109_08	<5	<0.5	45	4520	40	<1	10	<1	19	1
*Rep SCRS_109_08	<5	<0.5	34	3340	40	<1	7	<1	18	<1
SCRS_190_08	<5	<0.5	18	205	20	<1	3	<1	14	<1
SCRS_191_08	5	1.6	10	247	30	<1	2	<1	48	<1
SCRS_192_08	<5	1.3	10	86	240	<1	2	<1	195	<1
SCRS_193_08	<5	<0.5	6	53	30	<1	1	<1	19	<1
SCRS_194_08	<5	2.4	10	72	<10	<1	2	<1	56	<1
SCRS_195_08	<5	1.0	10	123	190	<1	2	<1	90	<1
SCRS_196_08	<5	3.1	95	294	170	<1	20	<1	272	<1
SCRS_197_08	<5	<0.5	10	170	20	<1	2	<1	15	<1
SCRS_198_08	<5	<0.5	16	40	30	<1	3	<1	27	<1
SCRS_207_08	<5	<0.5	25	441	60	<1	5	<1	11	<1
SCRS_208_08	7	5.1	47	209	30	<1	11	<1	109	2
SCRS_209_08	<5	1.0	10	126	60	<1	2	<1	102	<1
*Rep SCRS_209_08	<5	1.0	16	120	220	<1	4	<1	108	<1
SCRS_210_08	<5	3.9	89	239	270	<1	17	<1	143	1
SCRS_223_08	<5	<0.5	9	88	50	<1	2	<1	6	<1
SCRS_224_08	9	4.8	38	195	40	<1	9	<1	130	2
SCRS_225_08	<5	1.9	17	144	190	<1	4	<1	57	<1
SCRS_226_08	<5	<0.5	13	136	120	<1	3	<1	39	<1
SCRS_227_08	<5	2.8	13	87	20	<1	3	<1	167	<1
SCRS_228_08	<5	1.3	36	189	80	<1	7	<1	80	<1
SCRS_236_08	23	1.6	36	230	20	<1	9	<1	38	1
SCRS_240_08	18	1.2	31	791	20	<1	7	<1	21	<1
SCRS_241_08	<5	<0.5	15	71	110	<1	3	<1	<5	<1
SCRS_242_08	15	3.0	228	221	110	<1	46	<1	125	5
SCRS_243_08	6	4.1	59	210	60	<1	12	<1	155	1
*Rep SCRS_243_08	6	2.7	41	239	40	<1	8	<1	167	<1
SCRS_257_08	5	<0.5	38	1180	250	<1	7	<1	<5	2
SCRS_258_08	<5	1.9	67	336	80	<1	14	<1	98	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	10	0.7	58	3060	580	<1	12	<1	26	3
SCRS_260_08	<5	1.7	19	166	80	<1	5	<1	36	<1
SCRS_271_08	<5	<0.5	28	82	500	<1	6	<1	11	<1
SCRS_272_08	<5	<0.5	39	74	410	<1	8	<1	20	<1
SCRS_273_08	<5	<0.5	41	101	550	<1	8	<1	35	<1
SCRS_274_08	<5	1.0	28	166	4100	<1	6	<1	128	<1
SCRS_275_08	<5	<0.5	8	37	40	<1	2	<1	42	<1
SCRS_276_08	<5	1.0	4	50	<10	<1	1	<1	390	<1
SCRS_284_08	<5	1.0	6	54	20	<1	1	<1	13	<1
SCRS_285_08	<5	<0.5	2	92	30	<1	<1	<1	25	<1
*Rep SCRS_285_08	<5	<0.5	2	67	20	<1	<1	<1	36	<1
SCRS_286_08	<5	<0.5	55	96	680	<1	11	<1	106	<1
SCRS_287_08	<5	<0.5	30	72	50	<1	7	<1	36	<1
SCRS_288_08	<5	<0.5	1	30	30	<1	<1	<1	9	<1
SCRS_289_08	<5	<0.5	288	91	30	<1	50	<1	62	<1
SCRS_290_08	<5	<0.5	35	181	70	<1	7	<1	229	<1
SCRS_291_08	5	<0.5	32	1140	<10	<1	6	<1	12	<1
SCRS_292_08	9	1.5	148	696	30	<1	34	<1	14	3
SCRS_293_08	<5	<0.5	7	96	20	<1	2	<1	29	<1
SCRS_294_08	56	0.7	45	1230	20	<1	10	<1	6	2
SCRS_295_08	<5	<0.5	1	179	10	<1	<1	<1	17	<1
SCRS_296_08	<5	<0.5	15	245	10	<1	3	<1	13	<1
SCRS_297_08	<5	<0.5	56	665	30	<1	12	<1	10	<1
*Rep SCRS_297_08	<5	<0.5	66	773	40	<1	14	<1	16	<1
SCRS_298_08	<5	0.5	189	127	40	<1	46	<1	37	<1
SCRS_299_08	<5	<0.5	48	436	40	<1	9	<1	17	<1
SCRS_300_08	<5	<0.5	79	1530	80	<1	16	<1	15	<1
SCRS_301_08	<5	<0.5	42	175	<10	<1	10	<1	49	<1
SCRS_302_08	<5	<0.5	64	588	30	<1	14	<1	36	<1
SCRS_303_08	<5	<0.5	6	599	40	<1	<1	<1	47	<1
SCRS_304_08	<5	<0.5	25	303	20	<1	5	<1	18	<1
SCRS_305_08	<5	0.5	122	261	10	<1	25	<1	16	<1
SCRS_306_08	<5	<0.5	577	195	70	<1	101	<1	56	<1
SCRS_307_08	<5	<0.5	79	100	30	<1	19	<1	32	<1
SCRS_308_08	32	0.5	16	1310	40	<1	3	<1	16	4
SCRS_309_08	<5	0.8	18	179	<10	<1	4	<1	17	<1
*Rep SCRS_309_08	<5	1.1	21	183	10	<1	5	<1	13	<1
SCRS_310_08	<5	0.8	25	458	20	<1	5	<1	61	<1
SCRS_311_08	<5	<0.5	5	360	<10	<1	<1	<1	44	<1
SCRS_312_08	6	<0.5	2	1070	10	<1	<1	<1	76	<1
SCRS_313_08	<5	0.6	16	482	20	<1	3	<1	40	<1
SCRS_9211_08	<5	1.1	22	115	20	<1	5	<1	50	<1
*Std MMISRM16	48	<0.5	20	246	120	29	4	<1	354	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	53	<0.5	16	290	120	29	3	<1	343	<1
*Std MMISRM16	53	<0.5	16	300	130	28	3	<1	347	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	<5	3	<1	2850	<1	<1	<10	2.4	14	<0.5
*Rep 5552_1_08	<5	3	<1	2460	<1	<1	<10	1.6	14	<0.5
5552_2_08	60	131	<1	20	<1	16	<10	124	590	0.8
5552_3_08	73	23	<1	70	<1	8	<10	27.8	727	<0.5
5552_4_08	115	76	<1	30	<1	16	<10	35.7	367	<0.5
5552_5_08	61	39	<1	430	<1	10	<10	25.5	187	<0.5
5552_6_08	70	14	<1	400	<1	4	<10	30.0	936	0.7
5552_7_08	57	5	<1	140	<1	2	<10	27.7	1070	<0.5
5552_8_08	28	11	<1	80	<1	4	<10	12.9	377	<0.5
SCRS_50_08	<5	<1	<1	2540	<1	<1	<10	1.1	22	<0.5
SCRS_67_08	77	4	<1	190	<1	1	<10	13.3	565	1.0
SCRS_107_08	17	3	<1	460	<1	<1	<10	14.3	581	<0.5
SCRS_108_08	32	26	<1	1050	<1	6	<10	33.8	348	<0.5
SCRS_109_08	26	14	<1	930	<1	4	<10	7.2	14	<0.5
*Rep SCRS_109_08	17	10	<1	870	<1	2	<10	6.7	13	<0.5
SCRS_190_08	<5	6	<1	1030	<1	1	<10	5.6	7	<0.5
SCRS_191_08	14	3	<1	360	<1	<1	<10	11.3	586	<0.5
SCRS_192_08	22	4	<1	130	<1	2	<10	12.0	501	<0.5
SCRS_193_08	<5	2	<1	220	<1	<1	<10	1.6	30	<0.5
CRS_194_08	24	3	<1	170	<1	<1	<10	12.5	711	<0.5
RS_195_08	23	3	<1	10	<1	<1	<10	18.6	440	0.5
SCRS_196_08	38	45	<1	120	<1	9	<10	68.1	1370	1.0
SCRS_197_08	<5	3	<1	170	<1	<1	<10	1.8	29	<0.5
SCRS_198_08	<5	5	<1	260	<1	1	<10	1.7	18	<0.5
SCRS_207_08	20	7	<1	1280	<1	1	<10	4.8	44	<0.5
SCRS_208_08	41	17	<1	120	<1	3	<10	52.7	2000	0.5
SCRS_209_08	14	3	<1	20	<1	<1	<10	16.7	369	<0.5
*Rep SCRS_209_08	22	5	<1	10	<1	2	<10	20.0	344	<0.5
SCRS_210_08	96	40	<1	180	<1	11	<10	77.0	2190	<0.5
SCRS_223_08	<5	3	<1	1280	<1	<1	<10	1.7	13	<0.5
SCRS_224_08	75	14	<1	180	<1	3	<10	50.3	2010	0.8
SCRS_225_08	94	5	<1	250	<1	2	<10	14.8	1280	<0.5
SCRS_226_08	101	4	<1	340	<1	2	<10	6.3	139	0.6
SCRS_227_08	114	4	<1	190	<1	<1	<10	17.4	1690	<0.5
SCRS_228_08	118	12	<1	170	<1	5	<10	12.0	1190	<0.5
SCRS_236_08	33	8	<1	410	<1	2	<10	8.3	433	1.6
SCRS_240_08	<5	7	<1	2680	<1	<1	<10	2.3	21	<0.5
SCRS_241_08	14	6	<1	410	<1	2	<10	2.4	64	<0.5
SCRS_242_08	185	79	<1	590	<1	18	<10	38.3	1530	0.9
SCRS_243_08	44	24	<1	410	<1	5	<10	36.5	1920	0.6
*Rep SCRS_243_08	40	17	<1	400	<1	3	<10	27.0	1080	0.5
SCRS_257_08	12	12	<1	670	<1	3	<10	1.7	32	<0.5
SCRS_258_08	21	19	<1	1480	<1	3	<10	11.0	125	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	65	18	<1	560	<1	5	<10	8.1	89	<0.5
SCRS_260_08	33	5	<1	230	<1	<1	<10	15.5	648	<0.5
SCRS_271_08	19	9	<1	460	<1	2	<10	5.1	34	<0.5
SCRS_272_08	13	13	<1	640	<1	4	<10	2.6	21	<0.5
SCRS_273_08	72	16	<1	430	<1	6	<10	12.8	41	<0.5
SCRS_274_08	62	10	<1	550	<1	3	<10	18.5	433	<0.5
SCRS_275_08	37	2	<1	330	<1	<1	<10	6.8	85	<0.5
SCRS_276_08	6	<1	<1	250	<1	<1	<10	6.8	327	1.5
SCRS_284_08	18	1	<1	260	<1	<1	<10	4.7	309	<0.5
SCRS_285_08	6	3	<1	3980	<1	1	<10	2.9	<3	<0.5
*Rep SCRS_285_08	5	2	<1	3540	<1	<1	<10	1.8	<3	<0.5
SCRS_286_08	<5	14	<1	360	<1	2	<10	7.2	30	0.6
SCRS_287_08	9	6	<1	620	<1	1	<10	3.4	11	0.6
SCRS_288_08	<5	<1	<1	640	<1	<1	<10	<0.5	<3	<0.5
SCRS_289_08	75	94	<1	1420	<1	16	<10	22.8	10	<0.5
SCRS_290_08	38	13	<1	350	<1	3	<10	12.5	151	0.7
SCRS_291_08	11	9	<1	370	<1	1	<10	6.3	4	<0.5
SCRS_292_08	98	36	<1	740	<1	7	<10	29.9	173	<0.5
SCRS_293_08	<5	2	<1	430	<1	<1	<10	1.0	13	<0.5
RS_294_08	16	11	<1	1010	<1	2	<10	9.0	40	<0.5
RS_295_08	<5	3	<1	3190	<1	1	<10	1.5	<3	<0.5
SCRS_296_08	<5	5	<1	4880	<1	<1	<10	1.7	<3	<0.5
SCRS_297_08	13	15	<1	1720	<1	2	<10	15.2	8	<0.5
*Rep SCRS_297_08	16	16	<1	1660	<1	2	<10	16.9	12	<0.5
SCRS_298_08	65	36	<1	3370	<1	5	<10	22.2	30	<0.5
SCRS_299_08	8	16	<1	1900	<1	3	<10	3.1	4	<0.5
SCRS_300_08	35	25	<1	1070	<1	6	<10	5.3	4	<0.5
SCRS_301_08	107	11	<1	900	<1	2	<10	4.1	27	<0.5
SCRS_302_08	45	17	<1	790	<1	4	<10	5.3	19	<0.5
SCRS_303_08	8	14	<1	1730	<1	4	<10	3.4	<3	1.0
SCRS_304_08	<5	8	<1	3320	<1	2	<10	4.0	<3	<0.5
SCRS_305_08	15	30	<1	3180	<1	4	<10	9.6	21	<0.5
SCRS_306_08	66	192	<1	1270	<1	29	<10	40.6	8	<0.5
SCRS_307_08	40	16	<1	520	<1	3	<10	7.4	34	<0.5
SCRS_308_08	16	5	<1	650	<1	<1	<10	3.4	33	<0.5
SCRS_309_08	18	4	<1	1260	<1	<1	<10	2.9	43	<0.5
*Rep SCRS_309_08	26	5	<1	1250	<1	<1	<10	3.2	61	<0.5
SCRS_310_08	193	8	<1	410	<1	3	<10	11.9	233	0.6
SCRS_311_08	29	2	<1	920	<1	<1	<10	2.1	6	<0.5
SCRS_312_08	<5	<1	<1	410	<1	<1	<10	0.8	7	7.5
SCRS_313_08	81	5	<1	500	<1	1	<10	3.6	153	<0.5
SCRS_9211_08	54	10	<1	310	<1	3	<10	23.2	377	<0.5
*Std MMISRM16	12	6	<1	500	<1	<1	<10	30.1	4	<0.5

SGS

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	12	5	<1	480	<1	<1	<10	24.4	<3	<0.5
*Std MMISRM16	12	5	<1	480	<1	<1	<10	24.7	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

SGS

Final : TO102356 Order

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	26	<1	23	2	30	<5
*Rep 5552_1_08	34	<1	19	2	40	<5
5552_2_08	25	<1	309	18	70	141
5552_3_08	12	<1	331	28	260	57
5552_4_08	16	<1	424	40	110	56
5552_5_08	6	<1	370	42	430	33
5552_6_08	8	<1	143	13	210	58
5552_7_08	6	<1	86	12	200	45
5552_8_08	4	<1	163	16	170	29
SCRS_50_08	14	<1	7	<1	1120	<5
SCRS_67_08	17	<1	60	8	140	53
SCRS_107_08	5	<1	20	2	230	41
SCRS_108_08	23	<1	148	8	170	42
SCRS_109_08	91	<1	136	8	290	20
*Rep SCRS_109_08	43	<1	78	5	230	17
SCRS_190_08	4	<1	38	2	180	<5
SCRS_191_08	8	<1	19	2	100	50
SCRS_192_08	4	<1	83	7	760	62
SCRS_193_08	2	<1	21	2	720	6
RS_194_08	4	<1	23	5	410	28
RS_195_08	7	<1	28	4	270	48
SCRS_196_08	15	1	124	8	640	133
SCRS_197_08	2	<1	24	1	340	<5
SCRS_198_08	6	<1	46	2	530	8
SCRS_207_08	15	<1	61	4	520	11
SCRS_208_08	15	1	71	7	260	143
SCRS_209_08	6	<1	14	2	400	38
*Rep SCRS_209_08	8	<1	48	4	580	48
SCRS_210_08	22	1	320	23	950	149
SCRS_223_08	8	<1	38	2	2050	<5
SCRS_224_08	25	1	66	7	3220	151
SCRS_225_08	8	<1	97	13	2670	62
SCRS_226_08	11	<1	108	12	570	13
SCRS_227_08	11	2	39	5	990	81
SCRS_228_08	5	<1	200	18	2950	38
SCRS_236_08	38	<1	62	10	1000	47
SCRS_240_08	5	<1	20	<1	280	<5
SCRS_241_08	6	<1	102	9	4700	8
SCRS_242_08	91	1	500	42	1020	161
SCRS_243_08	16	1	87	6	1510	94
*Rep SCRS_243_08	16	<1	68	5	2530	76
SCRS_257_08	20	<1	154	9	470	7
SCRS_258_08	14	<1	79	5	970	40

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	62	<1	189	11	240	25
SCRS_260_08	20	<1	34	5	110	38
SCRS_271_08	11	<1	101	6	270	17
SCRS_272_08	8	<1	166	10	690	7
SCRS_273_08	14	<1	387	32	360	19
SCRS_274_08	5	<1	103	9	4210	33
SCRS_275_08	6	<1	26	31	20	19
SCRS_276_08	3	<1	7	1	<20	26
SCRS_284_08	7	<1	13	1	60	21
SCRS_285_08	4	<1	42	3	90	<5
*Rep SCRS_285_08	4	<1	31	2	50	<5
SCRS_286_08	4	<1	57	4	710	12
SCRS_287_08	8	<1	33	2	40	9
SCRS_288_08	2	<1	7	<1	610	<5
SCRS_289_08	8	<1	448	21	80	18
SCRS_290_08	5	<1	67	4	210	33
SCRS_291_08	4	<1	46	3	30	8
SCRS_292_08	24	<1	241	20	100	77
SCRS_293_08	4	<1	14	<1	230	5
SCRS_294_08	33	<1	66	6	130	15
SCRS_295_08	2	<1	43	2	80	7
SCRS_296_08	12	<1	32	1	<20	<5
SCRS_297_08	9	<1	77	5	130	<5
*Rep SCRS_297_08	10	<1	92	6	130	6
SCRS_298_08	9	<1	205	14	70	41
SCRS_299_08	29	<1	113	5	100	9
SCRS_300_08	17	<1	232	13	240	8
SCRS_301_08	9	<1	106	8	30	18
SCRS_302_08	13	<1	148	10	210	16
SCRS_303_08	3	<1	165	6	280	<5
SCRS_304_08	8	<1	57	3	140	<5
SCRS_305_08	4	<1	108	6	50	10
SCRS_306_08	16	<1	709	31	130	18
SCRS_307_08	20	<1	90	6	30	25
SCRS_308_08	47	<1	31	2	520	5
SCRS_309_08	9	<1	30	2	30	7
*Rep SCRS_309_08	12	<1	38	3	40	8
SCRS_310_08	10	<1	137	14	<20	55
SCRS_311_08	6	<1	37	3	<20	6
SCRS_312_08	12	<1	9	<1	230	<5
SCRS_313_08	6	<1	68	7	170	12
SCRS_9211_08	14	<1	73	6	610	27
*Std MMISRM16	48	<1	12	<1	250	15

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	47	<1	11	<1	220	12
*Std MMISRM16	48	<1	11	<1	230	12
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

APPENDIX 2

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	18	186	10	<0.1	1160	<1	690	18	829	334	<100	260
DUP-CHYS_545_08	17	174	10	<0.1	1110	<1	700	17	958	283	<100	230
SCRS_12_08	1	110	10	<0.1	1220	<1	80	6	70	355	<100	1020
DUP-SCRS_12_08	<1	102	10	<0.1	1160	1	80	4	57	286	<100	1190
SCRS_24_08	9	19	20	0.2	960	<1	750	6	122	136	<100	3170
DUP-SCRS_24_08	9	17	10	0.2	750	<1	750	7	103	110	<100	2320
SCRS_48_08	45	12	<10	1.2	720	<1	490	10	<5	21	<100	240
DUP-SCRS_48_08	44	13	<10	1.3	710	<1	470	12	<5	41	<100	250
SCRS_55_08	8	19	<10	0.1	580	<1	580	11	73	73	<100	350
DUP-SCRS_55_08	8	20	<10	<0.1	610	<1	550	12	110	93	<100	580
SCRS_68_08	18	29	<10	0.2	290	<1	570	13	<5	<5	<100	330
DUP-SCRS_68_08	15	38	<10	0.2	310	<1	650	15	5	<5	<100	240
SCRS_98_08	6	53	<10	0.1	610	<1	350	7	29	16	<100	230
DUP-SCRS_98_08	7	63	<10	<0.1	550	<1	320	8	41	14	<100	180
SCRS_117_08	3	154	<10	<0.1	640	<1	10	1	73	63	<100	200
DUP-SCRS_117_08	4	162	10	<0.1	720	<1	20	8	101	67	<100	250
SCRS_129_08	3	11	<10	<0.1	2640	<1	640	50	25	25	<100	90
DUP-SCRS_129_08	2	10	<10	<0.1	2480	<1	600	64	26	36	<100	60
SCRS_31_08	4	67	<10	0.1	340	<1	570	11	20	34	<100	160
DUP-SCRS_31_08	3	71	<10	0.1	360	<1	560	9	15	22	<100	110
SCRS_80_08	4	57	<10	1.9	370	<1	370	22	176	721	<100	2450
DUP-SCRS_80_08	3	48	<10	1.6	380	<1	350	14	206	695	<100	2800
SCRS_92_08	1	49	<10	<0.1	190	<1	710	4	28	155	<100	550
DUP-SCRS_92_08	1	51	<10	<0.1	220	<1	680	4	35	201	<100	870
SCRS_137_08	12	27	<10	0.2	310	<1	780	9	26	67	<100	380
DUP-SCRS_137_08	7	27	<10	0.1	260	<1	700	9	24	67	<100	380
SCRS_159_08	2	46	<10	<0.1	190	<1	770	12	<5	<5	<100	30
DUP-SCRS_159_08	1	48	<10	<0.1	120	<1	640	13	<5	<5	<100	20
SCRS_176_08	7	41	<10	<0.1	160	<1	710	6	30	20	<100	120
DUP-SCRS_176_08	6	40	<10	<0.1	130	<1	750	7	20	13	<100	90
SCRS_265_08	<1	76	<10	<0.1	210	<1	710	19	7	37	<100	80
DUP-SCRS_265_08	<1	68	<10	<0.1	190	<1	660	28	6	46	<100	90
555_1_08	16	13	<10	0.2	4280	<1	770	8	<5	220	<100	2840
DUP-555_1_08	13	15	<10	0.1	4000	<1	710	9	<5	216	<100	2930
SCRS_113_08	12	3	<10	0.3	100	<1	390	3	9	71	<100	530
DUP-SCRS_113_08	12	3	<10	0.3	100	<1	380	4	9	117	<100	540
SCRS_171_08	<1	6	<10	<0.1	500	<1	510	26	<5	23	<100	40
DUP-SCRS_171_08	<1	7	<10	<0.1	420	<1	510	20	<5	17	<100	30
SCRS_200_08	<1	239	<10	<0.1	560	2	<10	14	21	83	<100	100

DUP-SCRS_2[illegible]08	<1	259	<10	<0.1	440	1	<10	11	21	69	<100	[illegible]00
SCRS_217_08	<1	14	10	0.1	1090	<1	410	123	13	199	<100	1580
DUP-SCRS_217_08	<1	10	20	<0.1	1120	<1	410	83	12	149	<100	1320
SCRS_235_08	5	58	<10	0.6	1450	<1	430	26	127	307	<100	2000
DUP-SCRS_235_08	2	57	<10	0.5	1240	<1	390	26	63	281	<100	2340
SCRS_251_08	3	30	10	0.3	800	<1	570	10	161	314	<100	2350
DUP-SCRS_251_08	6	35	<10	0.4	810	<1	570	14	108	229	<100	2650
5552_1_08	<1	34	<10	<0.1	3660	<1	750	5	30	199	<100	1740
DUP-5552_1_08	<1	37	<10	<0.1	2980	<1	660	6	23	151	<100	1420
SCRS_109_08	33	57	<10	0.3	1470	<1	420	52	65	420	<100	640
DUP-SCRS_109_08	28	58	<10	0.3	1460	<1	390	32	54	525	<100	670
SCRS_209_08	2	256	<10	<0.1	180	<1	<10	<1	20	25	<100	490
DUP-SCRS_209_08	3	273	<10	<0.1	180	<1	<10	2	28	38	<100	350
SCRS_243_08	2	129	50	<0.1	2050	2	130	4	92	996	100	1010
DUP-SCRS_243_08	<1	126	30	<0.1	1560	1	110	4	62	1020	100	1060
SCRS_285_08	20	17	<10	<0.1	440	<1	690	10	<5	13	<100	720
DUP-SCRS_285_08	23	13	<10	<0.1	470	<1	700	7	<5	5	<100	640
SCRS_297_08	2	13	<10	0.3	440	<1	680	6	70	266	<100	1070
DUP-SCRS_297_08	5	12	<10	0.4	460	<1	680	5	84	291	<100	1290
SCRS_309_08	<1	37	<10	<0.1	1300	<1	710	3	33	190	<100	1000
DUP-SCRS_309_08	1	42	<10	0.1	1490	<1	670	6	41	154	<100	1550

Replicate Analyses of MMI Standard MMISRM16

ANALYTE	**Ag**	**Al**	**As**	**Au**	**Ba**	**Bi**	**Ca**	**Cd**	**Ce**	**Co**	**Cr**	**Cu**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**1**	**10**	**0.1**	**10**	**1**	**10**	**1**	**5**	**5**	**100**	**10**
UNITS	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	18	57	20	29.5	80	<1	240	4	26	67	<100	670
MMISRM16	20	59	20	32.2	60	<1	240	4	20	75	<100	710
MMISRM16	20	62	20	32.2	60	<1	250	4	21	80	<100	720
MMISRM16	19	50	20	31.5	70	<1	200	4	23	68	<100	690
MMISRM16	20	51	20	30.8	70	<1	200	4	24	66	<100	690
MMISRM16	21	52	20	34.9	70	<1	200	5	22	67	<100	700
MMISRM16	17	43	10	27.1	30	<1	280	3	10	51	<100	550
MMISRM16	16	47	20	25.8	50	<1	280	3	11	56	<100	600
MMISRM16	16	49	10	26	160	<1	280	3	14	55	<100	600
MMISRM16	19	41	10	27.1	30	<1	210	4	16	52	<100	540
MMISRM16	19	43	10	28	40	<1	200	4	16	52	<100	550
MMISRM16	17	63	20	28.2	90	<1	250	5	27	77	<100	700
MMISRM16	17	59	20	28.4	90	<1	240	5	27	77	<100	730

Recommended Values For The MMI Standard MMISRM16												
ANALYTE	**Ag**	**Al**	**As**	**Au**	**Ba**	**Bi**	**Ca**	**Cd**	**Ce**	**Co**	**Cr**	**Cu**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**1**	**10**	**0.1**	**10**	**1**	**10**	**1**	**5**	**5**	**100**	**10**
UNITS	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	17	45	10	31.9	65	<1	209	4	13	58	<100	629

Replicate Analyses of the Analytical Blank												
ANALYTE	**Ag**	**Al**	**As**	**Au**	**Ba**	**Bi**	**Ca**	**Cd**	**Ce**	**Co**	**Cr**	**Cu**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**1**	**10**	**0.1**	**10**	**1**	**10**	**1**	**5**	**5**	**100**	**10**
UNITS	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	2	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	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	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
UNITS	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB
CHYS_545_08	187	115	38.7	44	191	391	7	92	<5	<0.5	576	3400
DUP-CHYS_545_08	177	107	39.8	36	195	438	7	90	<5	<0.5	615	3130
SCRS_12_08	12	5.9	2.8	437	12	41	<5	12	<5	2.3	49	722
DUP-SCRS_12_08	9	5	2.1	441	10	31	<5	13	<5	2.8	37	591
SCRS_24_08	15	6.6	5.3	43	23	43	<5	16	14	1.4	88	580
DUP-SCRS_24_08	12	5.8	4.6	40	19	36	<5	15	9	1.1	76	438
SCRS_48_08	10	4.1	2.7	6	16	2	<5	17	<5	<0.5	21	130
DUP-SCRS_48_08	10	4.1	2.5	5	15	2	<5	17	<5	<0.5	19	126
SCRS_55_08	12	7.4	3.1	18	15	15	<5	10	<5	<0.5	38	216
DUP-SCRS_55_08	14	8.1	3.8	28	18	24	<5	9	<5	<0.5	54	214
SCRS_68_08	4	1.9	1.1	8	5	3	<5	2	<5	<0.5	11	139
DUP-SCRS_68_08	4	2.1	1.1	8	5	4	<5	3	<5	<0.5	12	161
SCRS_98_08	18	7.2	6	17	24	21	<5	3	<5	<0.5	50	59
DUP-SCRS_98_08	24	10.8	7.9	22	31	29	<5	3	<5	<0.5	67	70
SCRS_117_08	9	6.4	2	315	9	29	<5	1	<5	2.5	31	119
DUP-SCRS_117_08	21	15.6	3.2	315	13	40	<5	1	<5	3	44	160
SCRS_129_08	10	5.1	2.6	13	12	10	<5	48	<5	<0.5	24	284
DUP-SCRS_129_08	12	6.4	2.7	11	13	9	<5	55	<5	<0.5	21	240
SCRS_31_08	5	2.6	1.5	16	7	10	<5	2	<5	<0.5	19	84
DUP-SCRS_31_08	4	2.5	1.4	13	7	9	<5	2	<5	<0.5	19	73
SCRS_80_08	16	8.4	4.5	201	20	35	<5	19	<5	<0.5	64	601
DUP-SCRS_80_08	16	9.1	4.8	234	22	40	<5	17	<5	<0.5	69	547
SCRS_92_08	3	2.2	0.9	42	5	10	<5	5	7	<0.5	16	207
DUP-SCRS_92_08	4	2.4	1.2	55	6	12	<5	5	7	0.5	21	228
SCRS_137_08	4	2.1	1.2	28	5	7	<5	30	<5	<0.5	14	397
DUP-SCRS_137_08	4	2.1	1	34	5	7	<5	30	<5	<0.5	13	359
SCRS_159_08	<1	0.6	<0.5	7	1	1	<5	35	<5	<0.5	3	72
DUP-SCRS_159_08	<1	<0.5	<0.5	6	<1	<1	<5	36	<5	<0.5	1	59
SCRS_176_08	13	6.2	3.7	12	21	14	<5	38	<5	<0.5	41	155
DUP-SCRS_176_08	11	4.6	3	11	18	10	<5	34	<5	<0.5	34	141
SCRS_265_08	3	2.1	0.6	45	3	3	<5	17	<5	<0.5	6	96
DUP-SCRS_265_08	3	2.1	<0.5	61	3	2	<5	17	<5	<0.5	4	73
555_1_08	3	2.8	<0.5	18	2	<1	<5	6	8	<0.5	<1	1060
DUP-555_1_08	3	2.6	<0.5	19	3	<1	<5	6	8	<0.5	<1	1130
SCRS_113_08	2	1	<0.5	11	3	2	<5	14	<5	<0.5	4	792
DUP-SCRS_113_08	3	1.2	<0.5	11	3	2	<5	14	<5	<0.5	5	837
SCRS_171_08	5	5	0.6	12	3	1	<5	12	<5	<0.5	4	53
DUP-SCRS_171_08	5	4	0.5	10	3	2	<5	10	<5	<0.5	4	57
SCRS_200_08	4	3.2	0.6	128	3	11	<5	1	<5	7.2	9	67

DUP-SCRS_2[illegible]_08	3	3.2	0.6	121	2	12	<5	1	<5	6.8	8	51
SCRS_217_08	2	1.2	0.8	45	3	5	<5	96	36	<0.5	10	1420
DUP-SCRS_217_08	1	0.8	0.6	45	3	5	<5	93	31	<0.5	9	1170
SCRS_235_08	31	14.5	8.1	118	39	47	12	47	<5	0.6	102	568
DUP-SCRS_235_08	19	9.1	4.2	162	22	23	11	42	<5	0.7	51	506
SCRS_251_08	21	11.4	5.6	118	29	59	<5	20	6	0.7	105	464
DUP-SCRS_251_08	15	7.8	3.9	100	21	38	<5	20	6	1	75	450
5552_1_08	3	1.9	0.7	62	4	15	<5	14	23	0.6	18	1340
DUP-5552_1_08	2	1.6	0.6	42	3	11	<5	13	21	0.6	14	915
SCRS_109_08	19	10.1	3.8	68	21	24	7	103	<5	<0.5	45	4520
DUP-SCRS_109_08	12	6.4	2.7	49	14	18	8	99	<5	<0.5	34	3340
SCRS_209_08	4	2.4	0.8	54	4	9	6	<1	<5	1	10	126
DUP-SCRS_209_08	12	6.5	1.6	42	8	11	6	<1	<5	1	16	120
SCRS_243_08	20	8.3	6.4	175	33	26	5	32	6	4.1	59	210
DUP-SCRS_243_08	16	6.6	4.7	181	24	18	5	29	6	2.7	41	239
SCRS_285_08	7	3.8	1.1	9	7	<1	<5	7	<5	<0.5	2	92
DUP-SCRS_285_08	5	2.4	0.9	7	5	<1	<5	7	<5	<0.5	2	67
SCRS_297_08	11	5.5	2.7	93	15	23	<5	30	<5	<0.5	56	665
DUP-SCRS_297_08	12	6.8	3.1	105	17	30	<5	28	<5	<0.5	66	773
SCRS_309_08	4	2.4	1	71	5	11	<5	28	<5	0.8	18	179
DUP-SCRS_309_08	5	3.1	1.2	85	6	13	<5	28	<5	1.1	21	183

Replicate Analyses o

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	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	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
UNITS	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB
MMISRM16	3	1	1.2	3	6	6	<5	39	48	<0.5	20	246
MMISRM16	2	1	1.1	3	5	5	<5	40	53	<0.5	16	290
MMISRM16	3	1.1	1.1	3	5	5	<5	43	53	<0.5	16	300
MMISRM16	3	1	1.3	3	6	6	<5	40	56	<0.5	20	271
MMISRM16	3	0.9	1.2	3	5	6	<5	41	56	<0.5	19	237
MMISRM16	3	1.2	1.3	3	6	5	<5	40	57	<0.5	19	261
MMISRM16	2	0.7	0.7	3	3	2	<5	41	38	<0.5	10	190
MMISRM16	2	0.9	0.7	4	4	3	<5	39	40	<0.5	11	212
MMISRM16	2	0.8	0.8	3	4	4	<5	41	40	<0.5	12	212
MMISRM16	2	0.9	1	2	5	4	<5	33	55	<0.5	14	178
MMISRM16	2	0.8	1.1	2	4	4	<5	33	54	<0.5	14	188
MMISRM16	4	1.3	1.6	4	7	7	<5	39	55	<0.5	24	288
MMISRM16	4	1.4	1.7	4	7	8	<5	39	57	<0.5	24	292

Recommended Value												
ANALYTE	**Dy**	**Er**	**Eu**	**Fe**	**Gd**	**La**	**Li**	**Mg**	**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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	2.7	1	1.5	2	<1	6	2	36	51	<0.5	17	250
Replicate Analyses of												
ANALYTE	**Dy**	**Er**	**Eu**	**Fe**	**Gd**	**La**	**Li**	**Mg**	**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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<1	<0.5	<0.5	<1	<1	<1	5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	1	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	3	<1	1	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	<1	<1	2	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	2	<1	<1	<5	<1	<5	<0.5	<1	5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	1	5	1	5	1	1	10	1	1
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	630	<1	132	<1	167	<1	129	143	<1	3430	<1	32
DUP-CHYS_545_08	560	<1	142	<1	162	<1	119	155	<1	3420	<1	31
SCRS_12_08	30	<1	12	<1	41	<1	29	11	<1	510	<1	2
DUP-SCRS_12_08	30	<1	9	<1	44	<1	28	8	<1	510	<1	2
SCRS_24_08	90	<1	19	<1	11	2	8	22	<1	3530	<1	3
DUP-SCRS_24_08	60	<1	16	<1	9	1	6	18	<1	3490	<1	3
SCRS_48_08	20	<1	2	<1	28	<1	<5	10	<1	1420	<1	2
DUP-SCRS_48_08	20	<1	2	<1	36	<1	<5	10	<1	1380	<1	2
SCRS_55_08	20	<1	7	<1	63	<1	13	11	<1	3550	<1	2
DUP-SCRS_55_08	20	<1	10	<1	50	<1	14	14	<1	3480	<1	2
SCRS_68_08	10	<1	2	<1	10	<1	<5	4	<1	990	<1	<1
DUP-SCRS_68_08	<10	<1	2	<1	12	<1	<5	4	<1	1160	<1	<1
SCRS_98_08	30	<1	9	<1	51	<1	10	18	<1	2110	<1	3
DUP-SCRS_98_08	50	<1	13	<1	56	<1	15	23	<1	1570	<1	4
SCRS_117_08	20	<1	7	<1	101	<1	29	7	<1	120	<1	1
DUP-SCRS_117_08	50	<1	11	<1	83	<1	42	11	<1	140	<1	3
SCRS_129_08	80	<1	4	<1	17	<1	12	8	<1	1460	<1	2
DUP-SCRS_129_08	100	<1	4	<1	22	<1	12	8	<1	1430	<1	2
SCRS_31_08	30	<1	4	<1	23	<1	5	5	<1	1200	<1	<1
DUP-SCRS_31_08	30	<1	3	<1	23	<1	<5	5	<1	1200	<1	<1
SCRS_80_08	50	<1	14	<1	21	<1	50	16	<1	1150	<1	3
DUP-SCRS_80_08	60	<1	15	<1	20	<1	43	16	<1	1000	<1	3
SCRS_92_08	<10	<1	4	<1	5	<1	<5	4	<1	2270	<1	<1
DUP-SCRS_92_08	<10	<1	4	<1	<5	<1	6	4	<1	2230	<1	<1
SCRS_137_08	10	<1	3	<1	13	<1	<5	4	<1	1230	<1	<1
DUP-SCRS_137_08	20	<1	2	<1	11	<1	<5	3	<1	1160	<1	<1
SCRS_159_08	20	<1	<1	<1	8	<1	<5	<1	<1	1110	<1	<1
DUP-SCRS_159_08	20	<1	<1	<1	6	<1	<5	<1	<1	940	<1	<1
SCRS_176_08	<10	<1	7	<1	46	<1	18	15	<1	370	<1	3
DUP-SCRS_176_08	<10	<1	5	<1	55	<1	<5	12	<1	360	<1	2
SCRS_265_08	70	<1	1	<1	<5	<1	8	2	<1	1260	<1	<1
DUP-SCRS_265_08	80	<1	<1	<1	<5	<1	9	1	<1	1120	<1	<1
555_1_08	20	<1	<1	<1	8	1	6	<1	<1	3560	<1	<1
DUP-555_1_08	20	<1	<1	<1	11	1	<5	<1	<1	3320	<1	<1
SCRS_113_08	<10	<1	<1	<1	11	<1	10	2	<1	640	<1	<1
DUP-SCRS_113_08	<10	<1	<1	<1	10	<1	12	2	<1	640	<1	<1
SCRS_171_08	50	<1	<1	<1	51	<1	12	2	<1	2980	<1	<1
DUP-SCRS_171_08	40	<1	<1	<1	57	<1	21	2	<1	3020	<1	<1
SCRS_200_08	200	<1	2	<1	39	<1	22	2	<1	60	<1	<1

DUP-SCRS_2 _08	200	<1	2	<1	53	<1	19	2	<1	50	<1	<1
SCRS_217_08	20	<1	2	<1	<5	7	10	2	<1	1860	<1	<1
DUP-SCRS_217_08	20	<1	2	<1	<5	6	5	2	<1	1800	<1	<1
SCRS_235_08	130	<1	20	<1	15	1	51	31	<1	1650	<1	6
DUP-SCRS_235_08	120	<1	11	<1	12	1	51	16	<1	1510	<1	3
SCRS_251_08	50	<1	22	<1	13	2	39	26	<1	2420	<1	4
DUP-SCRS_251_08	50	<1	15	<1	10	2	34	18	<1	2400	<1	3
5552_1_08	30	<1	4	<1	8	<1	<5	3	<1	2850	<1	<1
DUP-5552_1_08	30	<1	3	<1	8	<1	<5	3	<1	2460	<1	<1
SCRS_109_08	40	<1	10	<1	19	1	26	14	<1	930	<1	4
DUP-SCRS_109_08	40	<1	7	<1	18	<1	17	10	<1	870	<1	2
SCRS_209_08	60	<1	2	<1	102	<1	14	3	<1	20	<1	<1
DUP-SCRS_209_08	220	<1	4	<1	108	<1	22	5	<1	10	<1	2
SCRS_243_08	60	<1	12	<1	155	1	44	24	<1	410	<1	5
DUP-SCRS_243_08	40	<1	8	<1	167	<1	40	17	<1	400	<1	3
SCRS_285_08	30	<1	<1	<1	25	<1	6	3	<1	3980	<1	1
DUP-SCRS_285_08	20	<1	<1	<1	36	<1	5	2	<1	3540	<1	<1
SCRS_297_08	30	<1	12	<1	10	<1	13	15	<1	1720	<1	2
DUP-SCRS_297_08	40	<1	14	<1	16	<1	16	16	<1	1660	<1	2
SCRS_309_08	<10	<1	4	<1	17	<1	18	4	<1	1260	<1	<1
DUP-SCRS_309_08	10	<1	5	<1	13	<1	26	5	<1	1250	<1	<1

Replicate Analyses o

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	1	5	1	5	1	1	10	1	1
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
MMISRM16	120	29	4	<1	354	<1	12	6	<1	500	<1	<1
MMISRM16	120	29	3	<1	343	<1	12	5	<1	480	<1	<1
MMISRM16	130	28	3	<1	347	<1	12	5	<1	480	<1	<1
MMISRM16	120	29	3	<1	367	<1	19	6	<1	560	<1	<1
MMISRM16	110	27	3	<1	385	<1	9	6	<1	580	<1	<1
MMISRM16	120	29	3	<1	366	<1	14	6	<1	550	<1	<1
MMISRM16	70	21	2	<1	318	<1	9	3	<1	520	<1	<1
MMISRM16	80	20	2	<1	332	<1	10	3	<1	530	<1	<1
MMISRM16	80	20	2	<1	325	<1	10	3	<1	540	<1	<1
MMISRM16	100	25	2	<1	312	<1	12	4	<1	470	<1	<1
MMISRM16	100	26	2	<1	311	<1	12	4	<1	450	<1	<1
MMISRM16	150	29	4	<1	378	<1	16	7	<1	510	<1	<1
MMISRM16	150	31	4	<1	380	<1	15	7	<1	520	<1	<1

Recommended Value												
ANALYTE	**Pb**	**Pd**	**Pr**	**Pt**	**Rb**	**Sb**	**Sc**	**Sm**	**Sn**	**Sr**	**Ta**	**Tb**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**1**	**1**	**1**	**5**	**1**	**5**	**1**	**1**	**10**	**1**	**1**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	100	26	3	300	<1	13	5	1.7	503	<1	<1	<10
Replicate Analyses o												
ANALYTE	**Pb**	**Pd**	**Pr**	**Pt**	**Rb**	**Sb**	**Sc**	**Sm**	**Sn**	**Sr**	**Ta**	**Tb**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**1**	**1**	**1**	**5**	**1**	**5**	**1**	**1**	**10**	**1**	**1**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1

ANALYTE	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	0.5	3	0.5	1	1	5	1	20	5
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	<10	175	9	4.5	71	<1	1160	87	440	216
DUP-CHYS_545_08	<10	156	11	4.3	69	<1	1080	80	370	227
SCRS_12_08	<10	16.5	749	<0.5	6	<1	47	4	160	26
DUP-SCRS_12_08	<10	15.7	879	<0.5	6	<1	36	4	140	26
SCRS_24_08	<10	22.8	46	<0.5	9	<1	80	5	120	14
DUP-SCRS_24_08	<10	16.1	36	<0.5	8	<1	71	5	150	10
SCRS_48_08	<10	3.9	7	<0.5	3	<1	60	3	120	<5
DUP-SCRS_48_08	<10	4.2	4	<0.5	3	<1	57	3	180	<5
SCRS_55_08	<10	10.9	8	<0.5	8	<1	79	6	60	14
DUP-SCRS_55_08	<10	10.8	13	<0.5	8	<1	89	7	90	13
SCRS_68_08	<10	2.8	3	<0.5	2	<1	23	1	110	<5
DUP-SCRS_68_08	<10	2.7	4	<0.5	2	<1	24	2	180	<5
SCRS_98_08	<10	11.1	11	<0.5	10	<1	77	5	70	14
DUP-SCRS_98_08	<10	13	33	<0.5	12	<1	108	7	140	18
SCRS_117_08	<10	49.9	630	<0.5	5	<1	42	6	180	56
DUP-SCRS_117_08	<10	64.4	745	<0.5	6	<1	104	13	290	69
SCRS_129_08	<10	16.8	8	<0.5	8	<1	54	4	100	5
DUP-SCRS_129_08	<10	15.9	6	<0.5	5	<1	60	4	100	6
SCRS_31_08	<10	1.9	10	<0.5	6	<1	37	2	90	<5
DUP-SCRS_31_08	<10	1.9	5	<0.5	6	<1	37	2	70	<5
SCRS_80_08	<10	19.8	48	<0.5	22	<1	95	8	320	26
DUP-SCRS_80_08	<10	22.2	68	<0.5	21	<1	96	9	230	27
SCRS_92_08	<10	2.9	27	<0.5	8	<1	31	2	310	<5
DUP-SCRS_92_08	<10	3.4	34	<0.5	9	<1	39	3	330	5
SCRS_137_08	<10	3.9	6	<0.5	11	<1	34	2	50	<5
DUP-SCRS_137_08	<10	3.3	5	<0.5	11	<1	32	2	60	<5
SCRS_159_08	<10	1.1	7	<0.5	3	<1	8	<1	110	<5
DUP-SCRS_159_08	<10	0.6	6	<0.5	2	<1	6	<1	130	<5
SCRS_176_08	<10	10.5	37	<0.5	10	<1	100	5	40	13
DUP-SCRS_176_08	<10	9.7	32	<0.5	10	<1	79	3	60	13
SCRS_265_08	<10	1	35	<0.5	25	<1	34	2	320	6
DUP-SCRS_265_08	<10	0.9	60	<0.5	20	<1	26	1	280	5
555_1_08	<10	4	<3	1.1	8	<1	22	3	30	<5
DUP-555_1_08	<10	3.7	<3	0.9	9	<1	21	3	40	<5
SCRS_113_08	<10	1.7	11	<0.5	1	<1	16	<1	50	<5
DUP-SCRS_113_08	<10	1.7	6	<0.5	2	<1	18	1	60	<5
SCRS_171_08	<10	0.9	20	<0.5	3	<1	40	4	670	<5
DUP-SCRS_171_08	<10	0.8	35	<0.5	3	<1	38	3	470	<5
SCRS_200_08	<10	17.9	1560	<0.5	6	1	19	3	330	116

DUP-SCRS_2[illegible]_08	<10	16.8	1540	<0.5	5	<1	18	4	360	114
SCRS_217_08	<10	0.9	18	<0.5	32	<1	15	1	2920	<5
DUP-SCRS_217_08	<10	0.8	36	<0.5	25	<1	11	<1	2910	<5
SCRS_235_08	<10	11.9	70	<0.5	32	<1	191	11	420	22
DUP-SCRS_235_08	<10	9.8	108	<0.5	30	<1	117	8	420	20
SCRS_251_08	<10	19.5	44	<0.5	18	<1	139	9	130	24
DUP-SCRS_251_08	<10	13.3	45	<0.5	19	<1	106	7	110	22
5552_1_08	<10	2.4	14	<0.5	26	<1	23	2	30	<5
DUP-5552_1_08	<10	1.6	14	<0.5	34	<1	19	2	40	<5
SCRS_109_08	<10	7.2	14	<0.5	91	<1	136	8	290	20
DUP-SCRS_109_08	<10	6.7	13	<0.5	43	<1	78	5	230	17
SCRS_209_08	<10	16.7	369	<0.5	6	<1	14	2	400	38
DUP-SCRS_209_08	<10	20	344	<0.5	8	<1	48	4	580	48
SCRS_243_08	<10	36.5	1920	0.6	16	1	87	6	1510	94
DUP-SCRS_243_08	<10	27	1080	0.5	16	<1	68	5	2530	76
SCRS_285_08	<10	2.9	<3	<0.5	4	<1	42	3	90	<5
DUP-SCRS_285_08	<10	1.8	<3	<0.5	4	<1	31	2	50	<5
SCRS_297_08	<10	15.2	8	<0.5	9	<1	77	5	130	<5
DUP-SCRS_297_08	<10	16.9	12	<0.5	10	<1	92	6	130	6
SCRS_309_08	<10	2.9	43	<0.5	9	<1	30	2	30	7
DUP-SCRS_309_08	<10	3.2	61	<0.5	12	<1	38	3	40	8
Replicate Analyses o										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	<10	30.1	4	<0.5	48	<1	12	<1	250	15
MMISRM16	<10	24.4	<3	<0.5	47	<1	11	<1	220	12
MMISRM16	<10	24.7	4	<0.5	48	<1	11	<1	230	12
MMISRM16	<10	25.9	9	<0.5	46	<1	11	<1	250	14
MMISRM16	<10	27.4	3	<0.5	45	<1	11	<1	250	15
MMISRM16	<10	25.4	<3	<0.5	44	<1	11	<1	270	20
MMISRM16	<10	19.7	<3	<0.5	38	<1	8	<1	270	12
MMISRM16	<10	22.6	<3	<0.5	41	<1	11	<1	210	14
MMISRM16	<10	22.2	3	<0.5	41	<1	11	<1	200	14
MMISRM16	<10	31.2	3	<0.5	45	<1	9	<1	180	13
MMISRM16	<10	32.3	3	<0.5	45	<1	9	<1	180	13
MMISRM16	<10	34.1	6	<0.5	54	<1	14	<1	250	18
MMISRM16	<10	34.5	5	<0.5	56	<1	15	1	250	18

Recommended Value										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	22	7	<0.5	45	<1	10	<1	306	15	
Replicate Analyses of										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
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BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	5	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	6
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	6
BLANK	<10	<0.5	4	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5

Percentile		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
	Mean	8.082	6.816	0.182	0.622	948.272	122.207	465.791
	Min	0.500	0.500	0.050	0.500	0.500	0.500	10.000
	Maximum	265.000	100.000	3.800	19.000	12300.000	4350.000	6730.000
	Std Dev	19.337	13.983	0.325	1.047	1265.254	348.741	760.024
	25	0.500	0.500	0.050	0.500	160.000	20.000	105.000

	Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Background Value (Avg of <= 1st quartile)	0.5	0.5	0.05	0.5	70.011236	11.436937	57.02381

Shell Creek - A Horizon

		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Percentile	**Mean**	4.040	3.420	0.083	0.550	367.510	161.565	786.300
	Min	0.500	0.500	0.050	0.500	0.500	0.500	10.000
	Maximum	106.000	70.000	1.100	2.000	4070.000	4350.000	4700.000
	Std Dev	14.002	8.973	0.129	0.260	617.068	590.185	988.817
	25	**0.500**	**0.500**	**0.050**	**0.500**	**30.000**	**20.000**	**177.500**

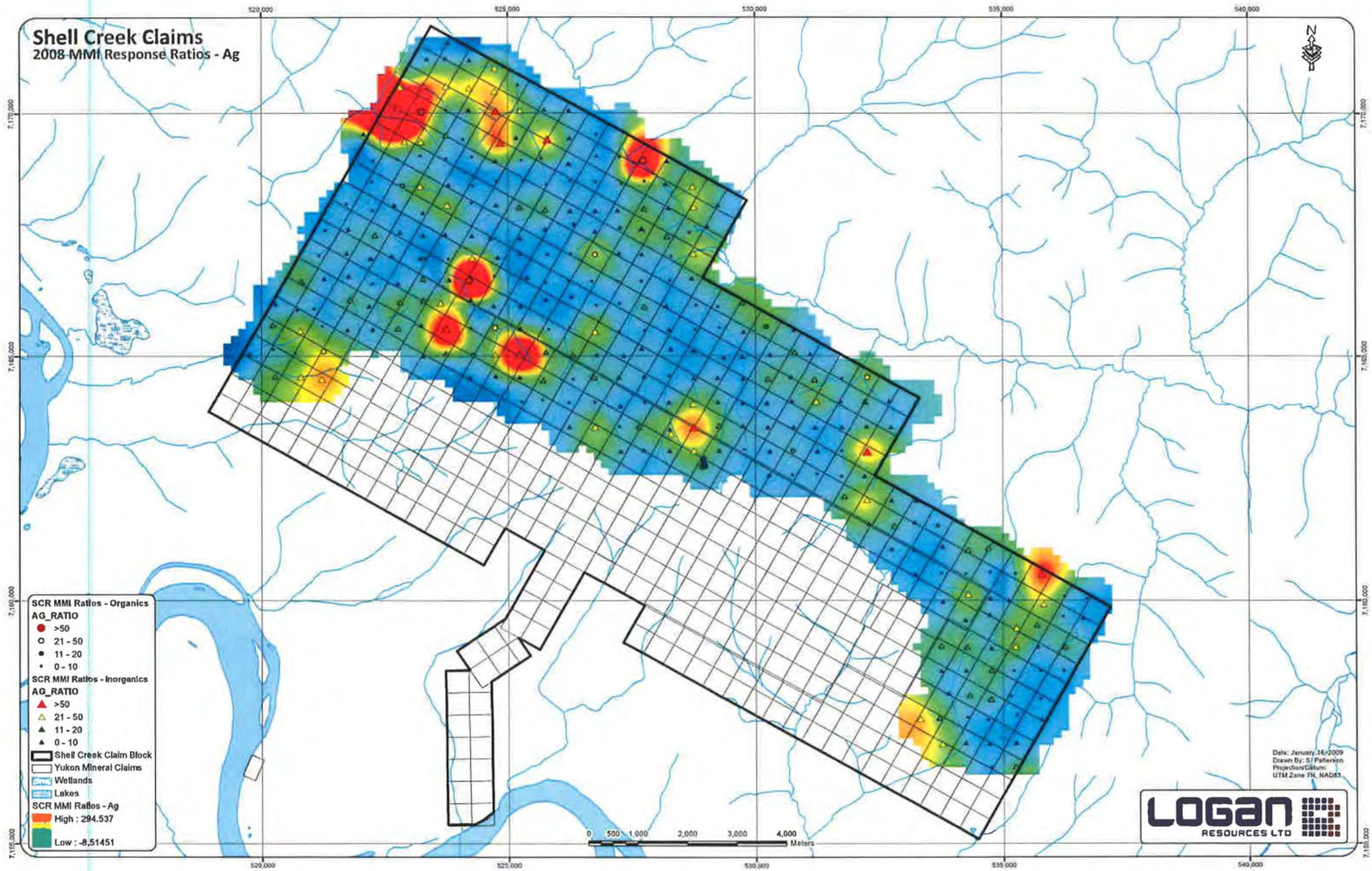
	Ag	As	Au	Bi	Cu	Pb	Zn
Background Value (Avg of <= 1st quartile)	0.5	0.5	0.05	0.5	23	10.828125	106.8

Shell Creek - B Horizon

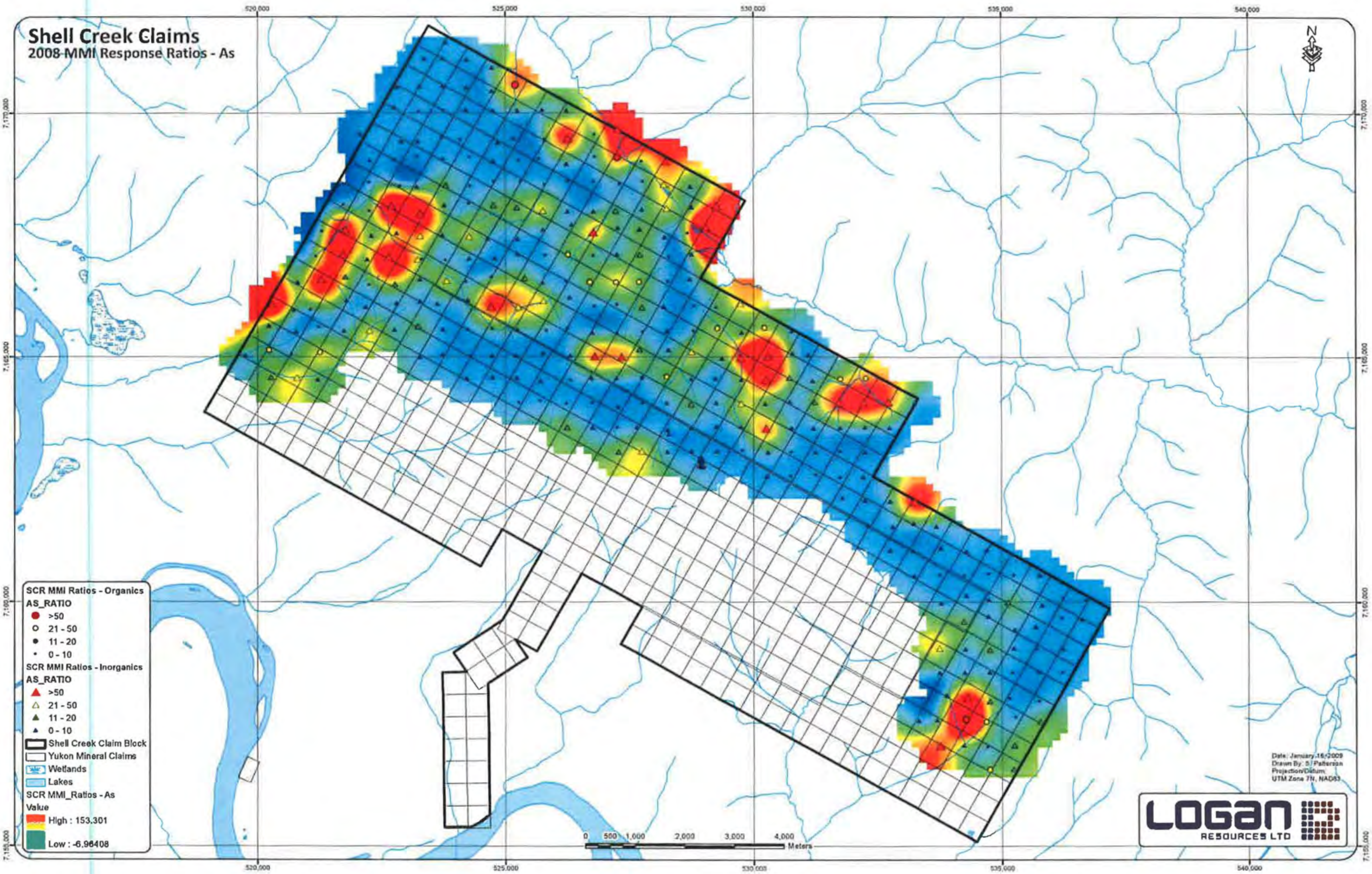
		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
	Mean	9.802	8.262	0.223	0.653	1195.404	105.460	329.404
	Min	0.500	0.500	0.050	0.500	20.000	0.500	10.000
	Maximum	265.000	100.000	3.800	19.000	12300.000	1320.000	6730.000
	Std Dev	20.969	15.409	0.371	1.237	1384.001	155.609	587.415
Percentile	**25**	**1.500**	**0.500**	**0.050**	**0.500**	**290.000**	**20.000**	**80.000**

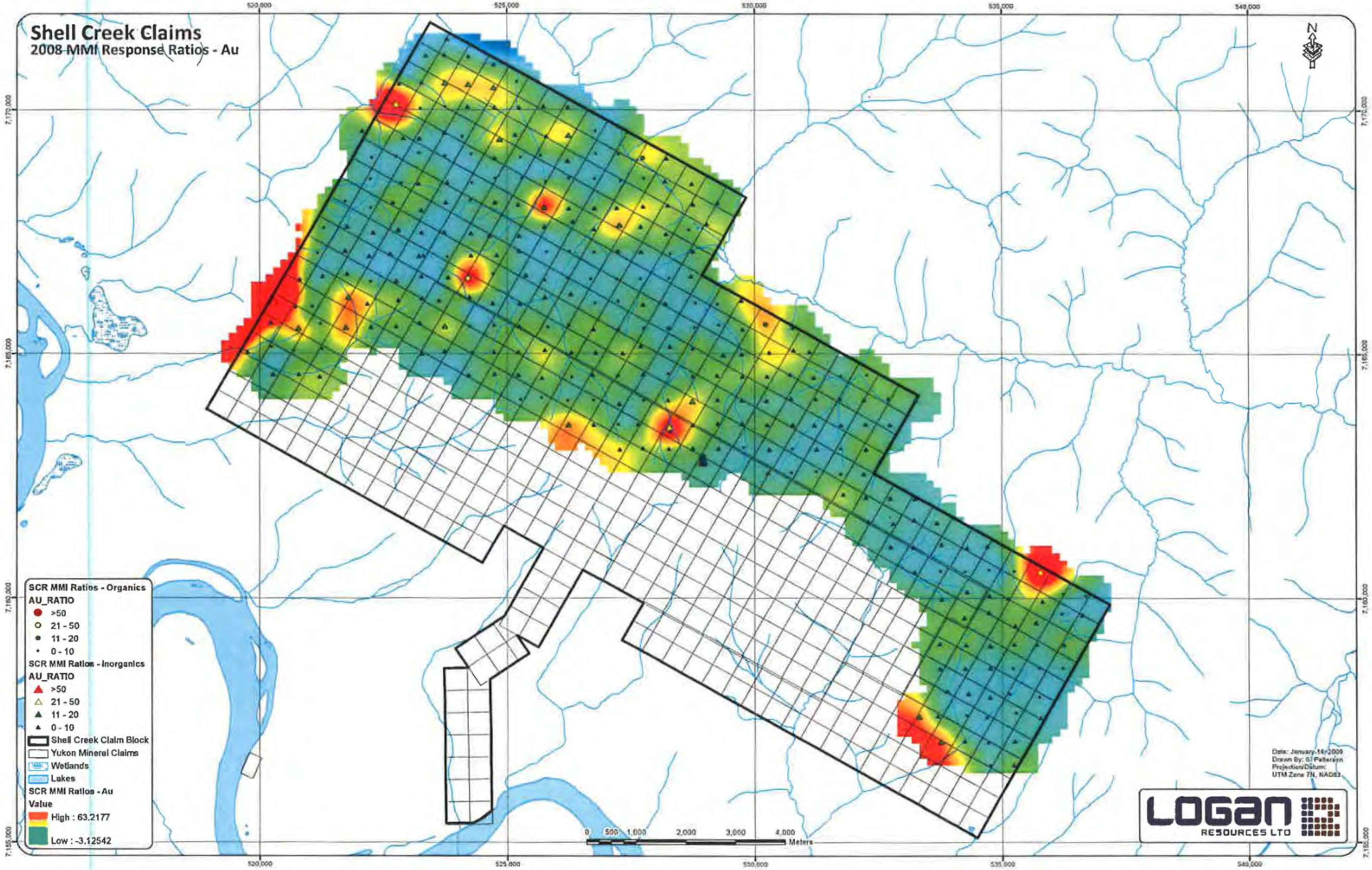
Background Value (Avg of <= 1st quartile)	0.6695	0.5000	0.0500	0.5000	166.7213	11.6835	47.3333

APPENDIX 3

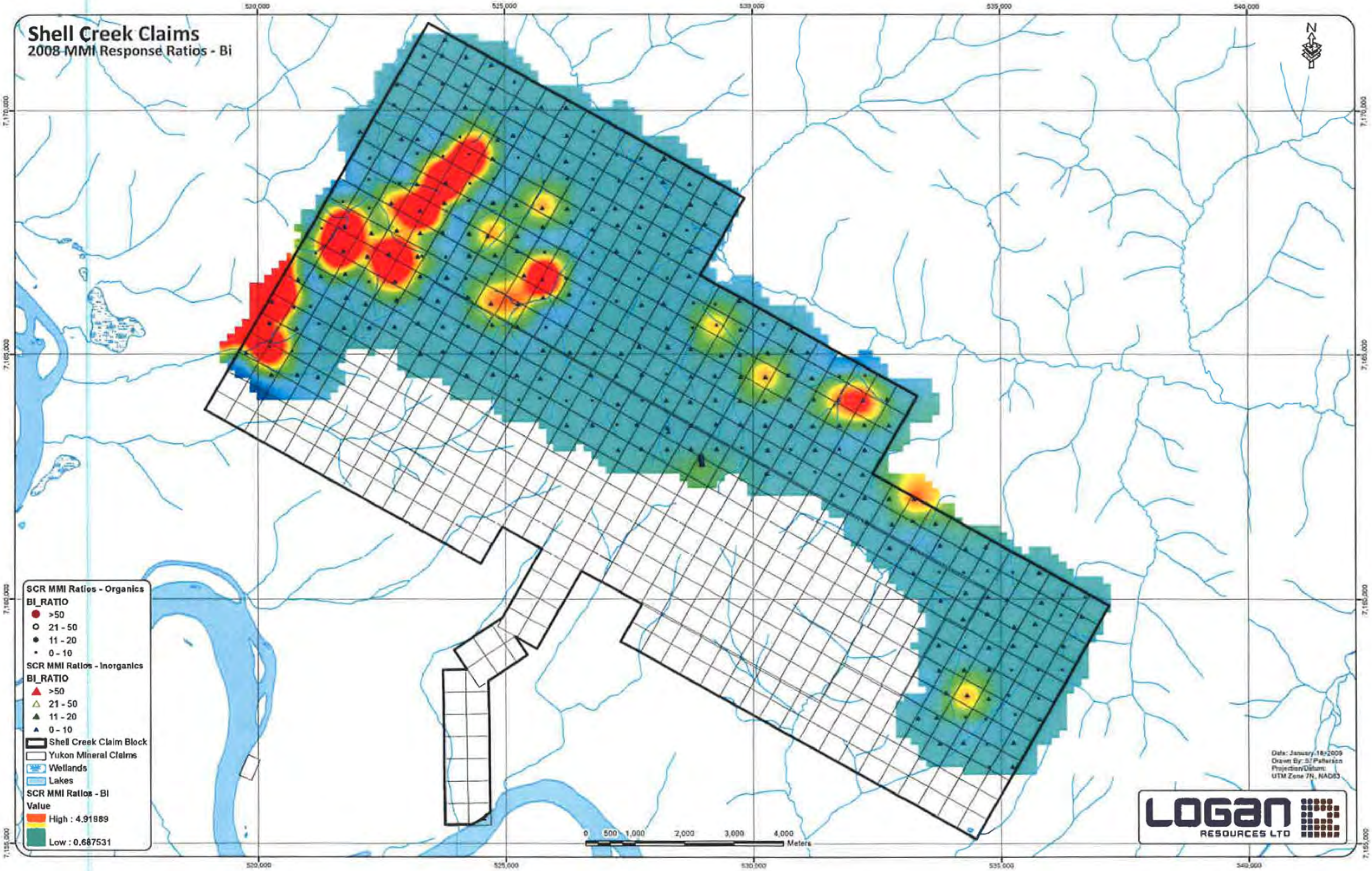


Shell Creek Claims
2008 MMI Response Ratios - Ag
SCR MMI Ratios - Organics
AG_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AG_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Ag
High : 294.537
Low : -8.51451
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

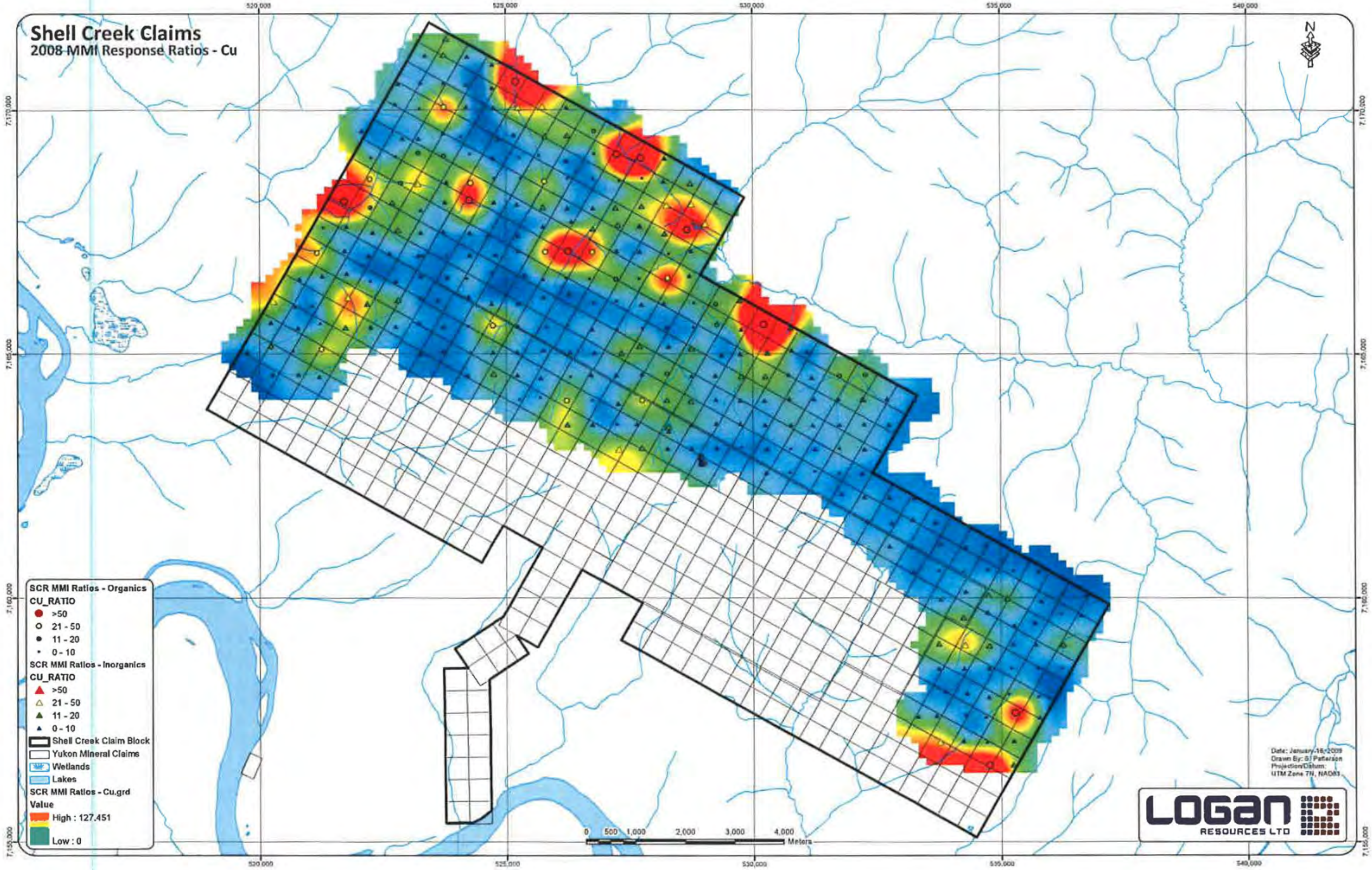

Shell Creek Claims
2008 MMI Response Ratios - As
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
AS_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AS_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI_Ratios - As
Value
High : 153.301
Low : -6.96408
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

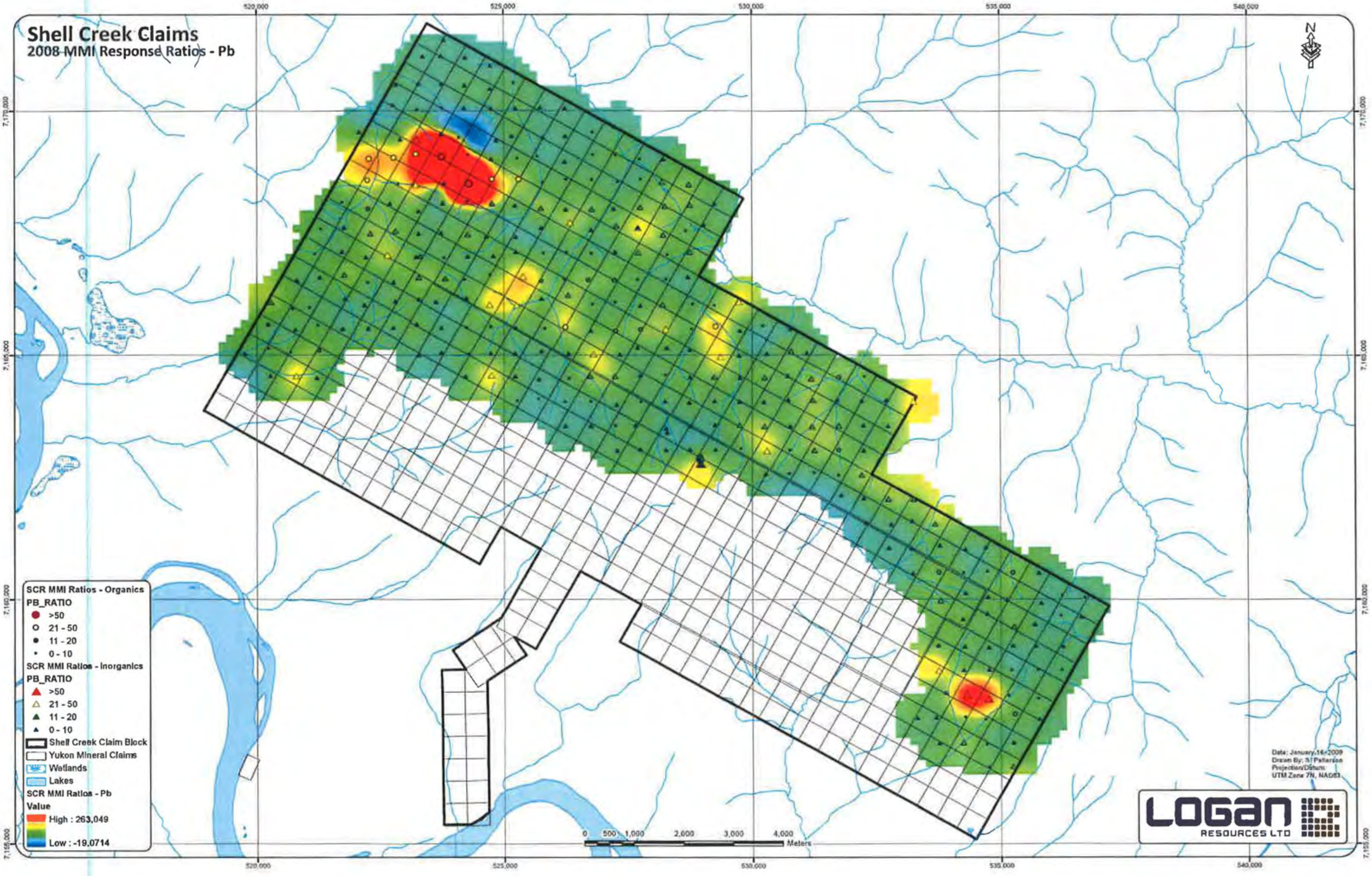


Shell Creek Claims
2008 MMI Response Ratios - Au
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
AU_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AU_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Au
Value
High : 63.2177
Low : -3.12542
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 14, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

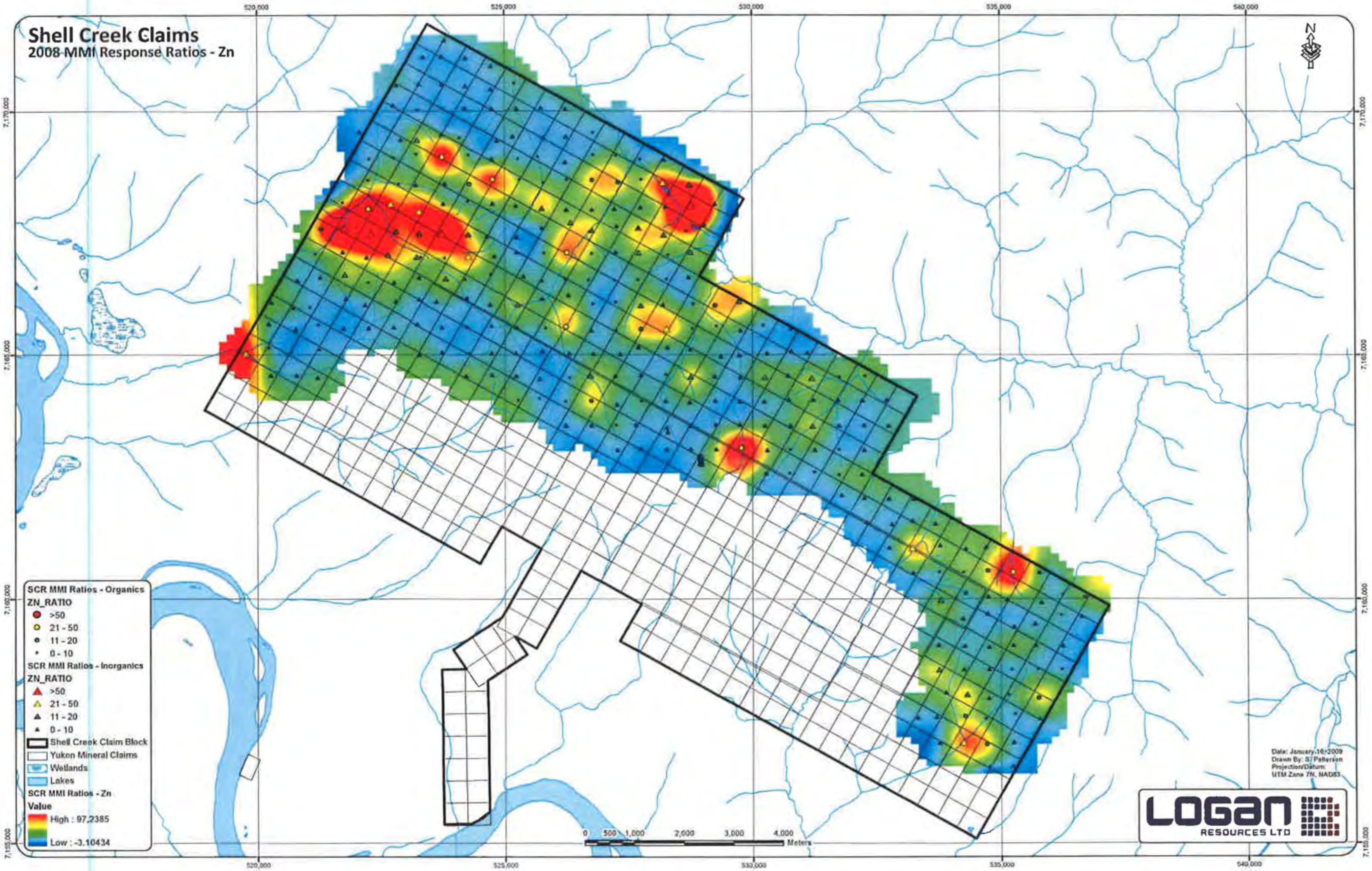


Shell Creek Claims
2008 MMI Response Ratios - Bi
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
BI_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
BI_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Bi
Value
High : 4.91889
Low : 0.687531
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

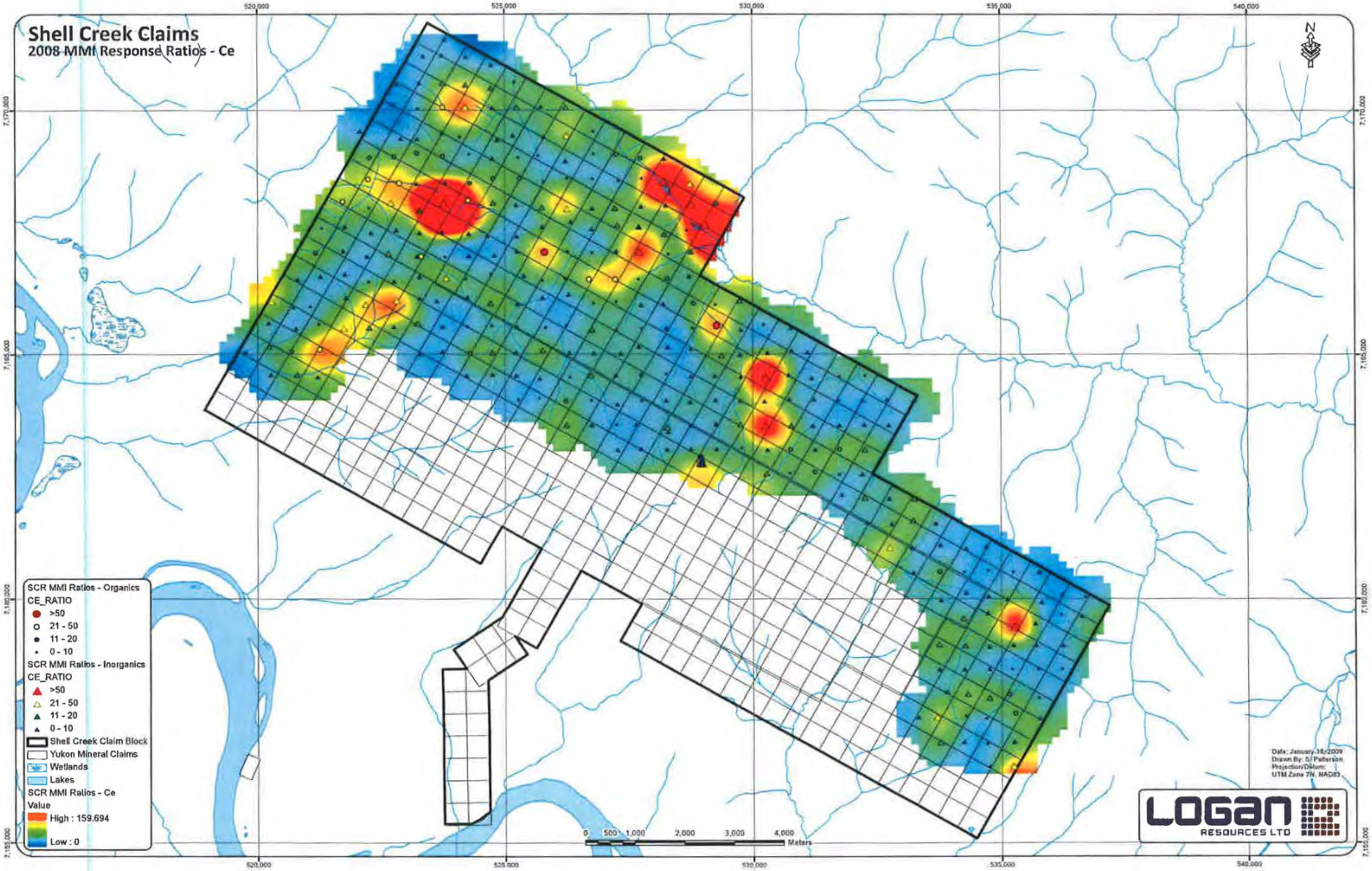

Shell Creek Claims
2008 MMI Response Ratios - Cu
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
CU_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
CU_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Cu.grd
Value
High : 127.451
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

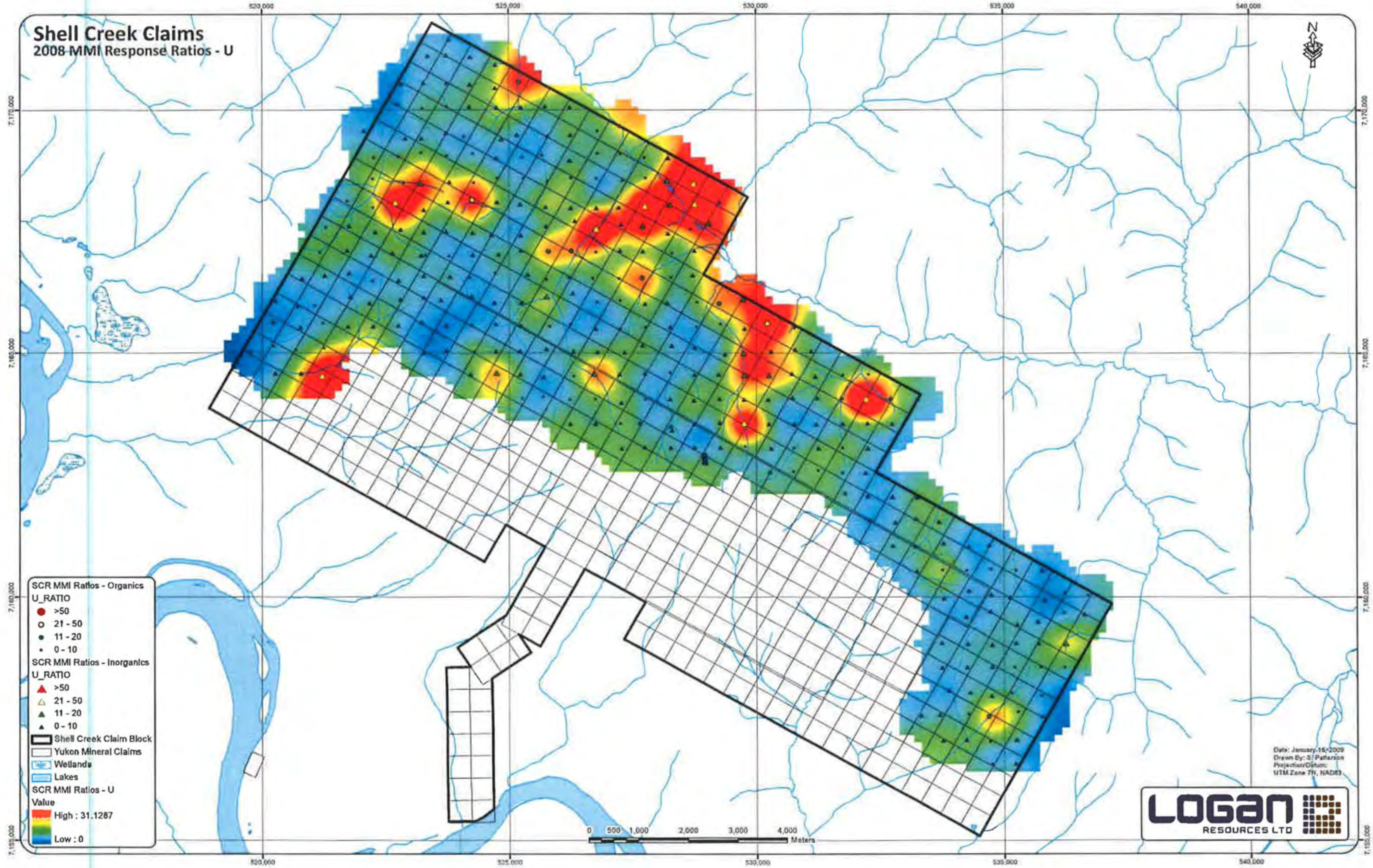


Shell Creek Claims
2008 MMI Response Ratios - Pb
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
PB_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
PB_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Pb
Value
High : 263,049
Low : -19.0714
0 500 1,000 2,000 3,000 4,000 Meters
Date: January 16 2009
Drawn By: S Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN RESOURCES LTD

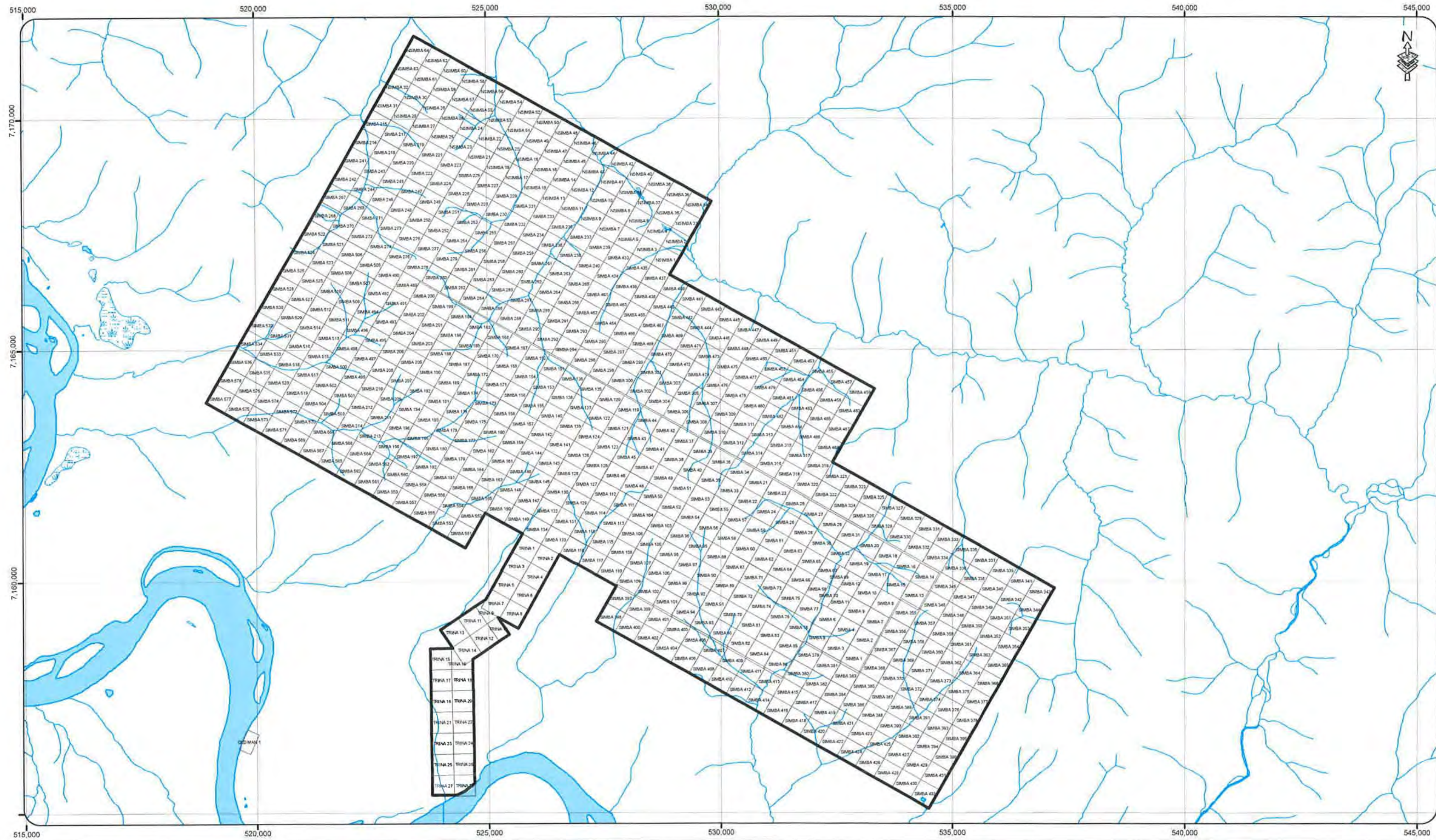


Shell Creek Claims
2008 MMI Response Ratios - Zn
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
ZN_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
ZN_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Zn
Value
High : 97.2385
Low : -3.10434
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD


Shell Creek Claims
2008 MMI Response Ratios - Ce
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
N
SCR MMI Ratios - Organics
CE_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
CE_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Ce
Value
High : 159.694
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



Shell Creek Claims
2008 MMI Response Ratios - U
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
U_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
U_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - U
Value
High : 31.1287
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 15, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



Shell Creek Claims
2008 Claim Map

LOGAN RESOURCES LTD

Shell Creek Claim Block
Wetlands
Yukon Mineral Claims
Lakes

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	5	7	<1	480	<1	1	<10	1.6	17	<0.5
SCRS_280_08	<5	8	<1	650	<1	2	<10	1.5	14	<0.5
SCRS_281_08	13	4	<1	510	<1	<1	<10	3.5	102	0.8
SCRS_282_08	12	11	<1	2160	<1	2	<10	6.8	9	<0.5
SCRS_283_08	40	11	<1	860	<1	2	<10	21.6	512	<0.5
*Std MMISRM16	19	6	<1	560	<1	<1	<10	25.9	9	<0.5
*Std MMISRM16	9	6	<1	580	<1	<1	<10	27.4	3	<0.5
*Std MMISRM16	14	6	<1	550	<1	<1	<10	25.4	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

2008 GEOCHEMICAL SOIL & ROCK SAMPLING REPORT

on the

SHELL CREEK PROPERTY

Dawson Mining District

NTS 116 C/09, 10
Lat 64° 36' N, Long 140° 25' W
UTM 528 000 E, 7 163 500 N

SIMBA 13- 536 (YC21161 – YC36257)
NSIMBA 1-64 (YC35989 – YC36052)
Irena 1-21 YC62993-013
" 23 YC63015

for

LOGAN RESOURCES LTD.
1640 - 1066 West Hastings Street
Vancouver, BC V6E 3X1

by

Daithi Mac Gearailt, B.Sc.

Date Work Performed:
July 1 – Sept 1, 2008

RECEIVED
APR - 6 2009
MINING RECORDER
DAWSON DISTRICT
Government of Yukon

Costs associated with this report have been approved in the amount of $ 110,300.-
for assessment credit under Certificate of Work No. WD07046 ; WD07050
2001020-021

Mining Recorder
Dawson City Mining District

2008

LOGAN RESOURCES LTD.
Daithi Mac Gearailt

2008-GEOCHEMICAL SOIL AND ROCK SAMPLING SURVEY OF SHELL CREEK

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Appendix G: Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey

INTRODUCTION

Logan Resources Ltd., 1640-1066 West Hastings St, Vancouver, British Columbia holds a 100% interest in the Shell Creek Property. The Shell Creek Property is comprised of 628 mineral claims covering approximately 110 km^2. The claims were staked in 2002 by Dawson City prospector Shawn Ryan and were acquired by Logan Resources in January 2003. The property is located in west-central Yukon Territory, Canada, on the north shore of the Yukon River approximately 75 km (47 miles) northwest of Dawson City. Access to the property for exploration purposes is by helicopter. As the Shell Creek property is alongside the Yukon River, in the event that heavy equipment and large quantities of materials are required at the site river, barges out of Dawson City can move materials to the river shore adjacent to the property and they can be hauled to the site on a tractor road or slung in by helicopter. The only previous exploration on the Shell Creek property, prior to the Company acquiring the property, was an evaluation of the iron formation by Asbestos Corporation during the summer of 1958. Geological mapping, trenching and dip-needle magnetic surveys were completed (Riordan and Mann, 1958). Asbestos Corporation completed no further work and the claims were allowed to lapse.

LOCATION AND ACCESS

The Shell Creek Property lies approximately 75 km northwest of Dawson City, Yukon (see Figure 1). Access to the property for exploration purposes is by helicopter. As the Shell Creek property is alongside the Yukon River, in the event that heavy equipment and large quantities of materials are required at the site river barges out of Dawson City can move materials to the river shore adjacent to the property and they can be hauled to the site on a tractor road or slung in by helicopter. In 2007 a permit was granted for a barge landing and access trail to the property. (See details of 2007 permit in Appendix A).

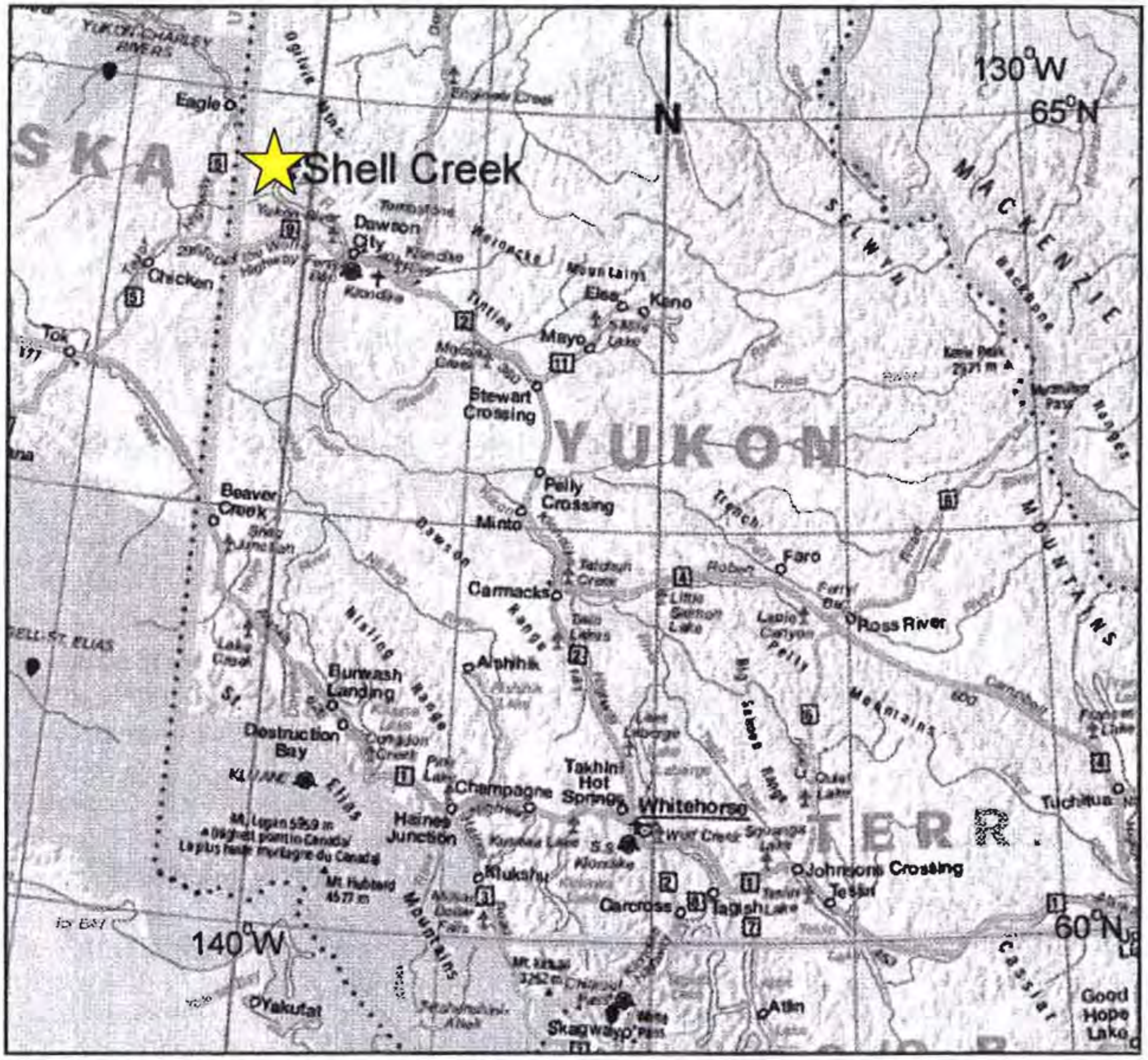


Figure 1 LOCATION MAP

PROPERTY INFORMATION

The property is 100%-owned by Logan Resources Ltd. (subject to a 2% NSR) and is comprised of 628 claims covering 11,000 hectares (27,182 acres) in the Dawson Mining District. All claims are in good standing (see details of claims in Appendix B).

CLIMATE AND PHYSIOGRAPHY

The following is taken from the Environment Canada website (www.ec.gc.ca/soer-ree/). This extremely rugged, heterogeneous mountainous ecoregion spans the Yukon-Northwest Territories border from

Alaska to the Mackenzie Valley. It includes the Ogilvie and Wernecke mountains in its westernmost section, the Backbone Ranges in its interior, and the Canyon Ranges to the east. The eastern ranges of the Mackenzie Mountains that lie in the rain shadow of the higher Selwyn Mountains to the west are also included. The ecoregion shows evidence of localized alpine and valley glaciation. The mean annual temperature for the area is approximately -5°C with a summer mean of 9°C and a winter mean of -19.5°C. Mean annual precipitation is highly variable with the highest amounts, greater than 600 mm, occurring in the southwest portion of the ecoregion. Moving west towards Alaska and the southern Ogilvies, precipitation drops to approximately 400 mm. Higher precipitation occurs at higher elevations. The region is characterized by alpine tundra at upper elevations and subalpine open woodland vegetation at lower elevations. Alpine vegetation consists of lichens, mountain avens, intermediate to dwarf ericaceous shrubs, sedge, and cottongrass in wetter sites. Barren talus slopes are common. Subalpine vegetation consists of discontinuous open stands of stunted white spruce and occasional alpine fir in a matrix of willow, dwarf birch, and Labrador tea. The Ogilvie Mountains, composed of Palaeozoic and Proterozoic sedimentary strata intruded by granitic stocks, reach 2134 m asl in elevation. The Wernecke Mountains are formed of phyllite and nearly horizontal carbonate rocks carved by glaciation. They are divided into several ranges by broad northwesterly-trending valleys. Permafrost is continuous and of low ice content in most of the Yukon portion of the ecoregion. Permafrost is extensive but discontinuous with variable ice content in the Northwest Territories portion of the ecoregion. Alluvium, fluvioglacial deposits, and morainal veneers and blankets are dominant in the region. Rock outcrops are common at higher elevation. Turbic Cryosols with some Dystric Brunisols and Regosols occur on steeply sloping colluvium. Characteristic wildlife includes caribou, grizzly and black bear, Dall's sheep, moose, beaver, fox, wolf, hare, raven, rock and willow ptarmigan, golden eagle, gyrfalcon, and waterfowl. These ranges support various forms of hunting and trapping,

and contain considerable mineral potential, but for the most part the ecoregion is an isolated wilderness with little permanent human occupation. The area of interest lies along a broad ridge at an elevation of approximately 1,300 m above mean sea level with local relief along the ridge of 50 to 100 metres. The Yukon River (6 km southwest of the ridge) is approximately 275 m above mean sea level. Mineral exploration in this part of the Yukon is generally carried out during the period May to October, however, mining operations in the Yukon operate year-round, including some major open pit operations.

LOCAL RESOURCES AND INFRASTRUCTURE

Dawson City, which is the jumping-off point for the Shell Creek property, is an established community with an airport, scheduled air service, helicopter charter services, water transportation services and most supplies required to conduct an exploration program. In the event of a discovery in the area, the Yukon River and winter roads provide ready access for mobilization of major supply caches and equipment to the property from Dawson City. The Yukon power grid extends to Dawson City, and 75 km of new line would be required to join Shell Creek to the grid. Small projects could rely on on-site power generation. All personnel, mining equipment and supplies will have to be acquired from Whitehorse, Yukon and points south.

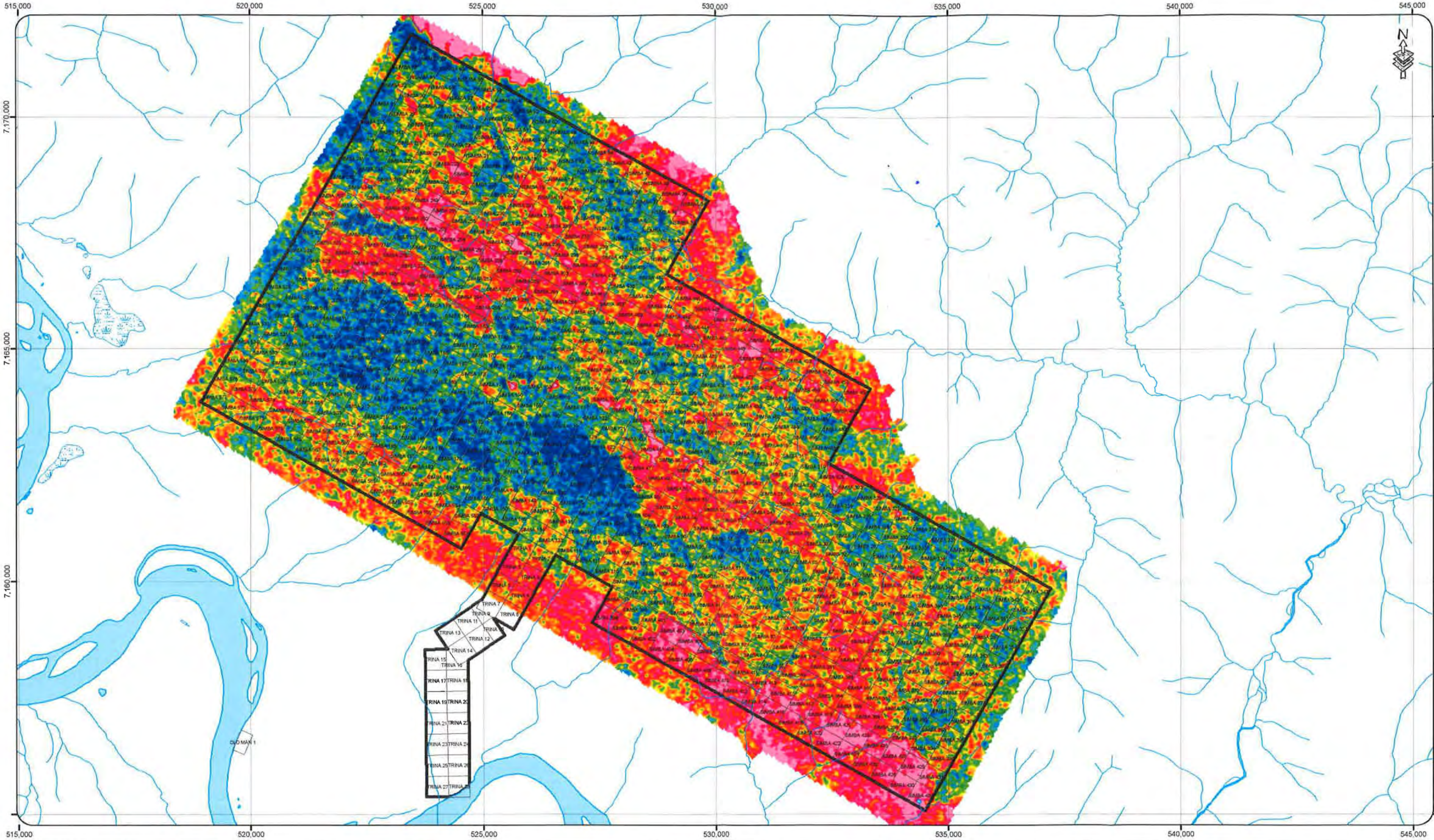
PROJECT HISTORY

The only previous exploration on the Shell Creek property, prior to the Company acquiring the property, was an evaluation of the iron formation by Asbestos Corporation during the summer of 1958. Geological mapping, trenching and dip-needle magnetic surveys were completed (Riordan and Mann, 1958). No further work was completed by Asbestos Corporation and the claims were allowed to lapse. The Geological Survey of Canada completed regional stream sediment and geological surveys in the area in the 1970's and 80's. In 2003 Shawn Ryan, a Dawson City-based prospector, discovered gold bearing quartz-vein float in the vicinity of Shell Creek and staked the property. The Company acquired the property in January 2003. During

August of 2004 Logan completed an 8-day geological mapping, trenching, and soil and rock geochemical sampling program in the vicinity of the gold showings discovered by Ryan. In addition 200 stream silt geochemical samples were taken that basically covered all streams draining the Shell Creek property. The stream geochemical program indicated significant copper, gold and uranium anomalies in the drainage pattern from the Shell Creek ridge along the length of the property. Detailed soil and rock geochemical sampling in the immediate vicinity of the gold showings indicated good correlation between geochemical anomalies and the in-situ mineralization. In April 2005 the Company completed a detailed helicopter-borne magnetometer survey of the Shell Creek area. During the period July to September the Company completed a soil geochemical survey (1,054 samples) that covered the Shell Creek ridge, a 5-line orientation induced polarization (IP) geophysical survey, a gravity survey, and additional reconnaissance geological mapping was completed.

In 2006 the company completed more soil geochemical sampling, rock sampling and field mapping. The company also conducted diamond drill program consisting of two holes.

In 2007 the company diamond drilled a following ten holes. The company also conducted more soil geochemical sampling in '07 and an airborne magnetic and radiometric survey. Some of the radiometric maps from the 2007 airborne survey are shown below.



Shell Creek Claims

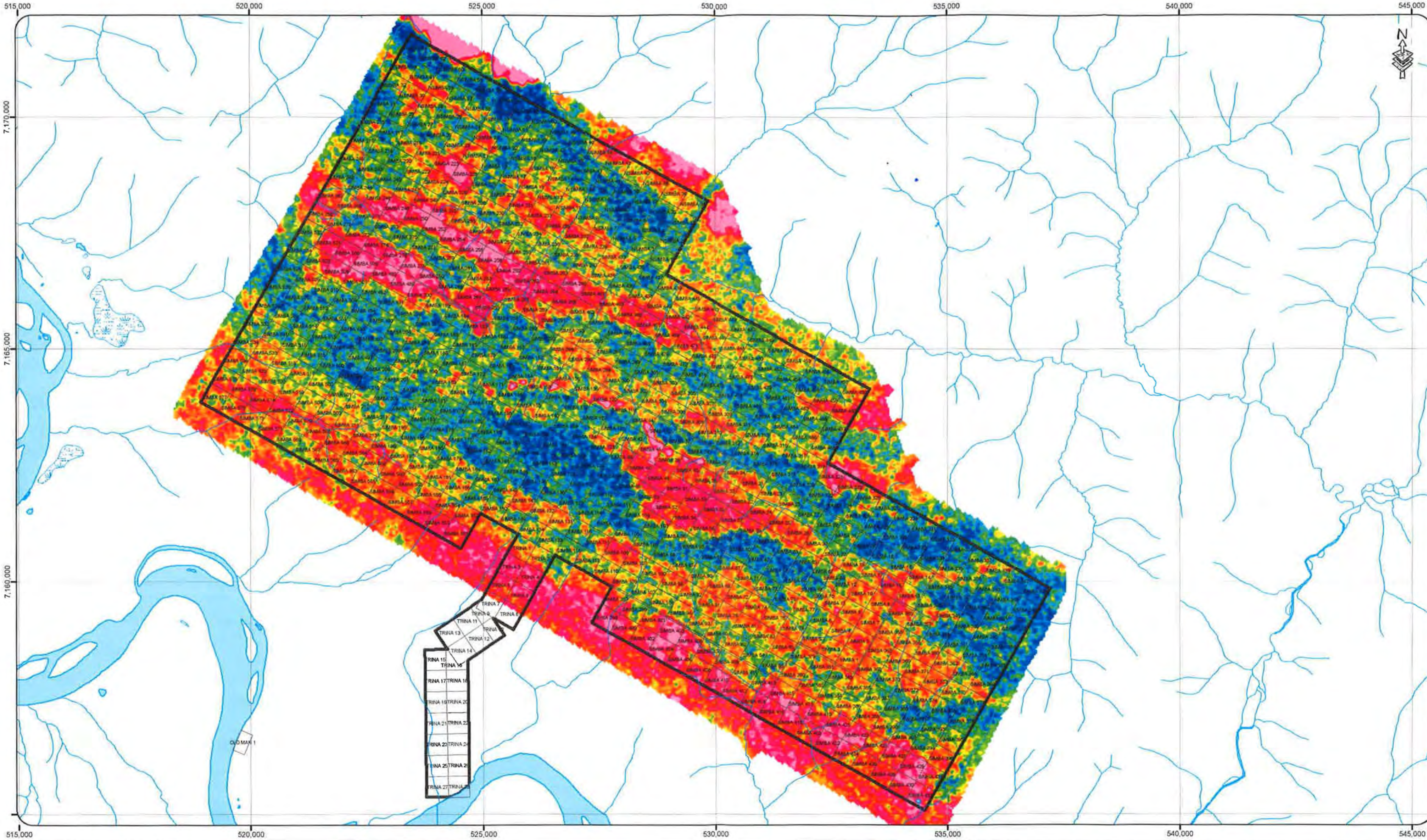
Radiometric Uranium Count

LOGAN RESOURCES LTD

Yukon Mineral Claims
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83



Shell Creek Claims

Radiometric Thorium Count

LOGAN RESOURCES LTD

Yukon Mineral Claims
Wetlands
Lakes
Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: January 12, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

GEOLOGY:

REGIONAL GEOLOGICAL SETTING

Regionally, the Shell Creek property is situated within Ancestral North America approximately 20 km northwest of the Selwyn Basin. The Tintina Fault, a large strike-slip fault with a dextral sense of motion with an offset in the order of 450 km, transgresses the southern property, in this area separating North America from Yukon Tanana Terrane. The Shell Creek property is underlain by Upper Proterozoic rocks, approximately 20 km southwest of an inlier of Lower to Mid Proterozoic rocks that contain exposures of Wernecke breccias. For this latter reason, an IOCG deposit model was contemplated for the copper mineralization on the property. However, the property appears to be underlain by younger rocks than those hosting Wernecke type IOCG mineralization in this region (Pautler, 2007).

PROPERTY GEOLOGY

The main area of interest on the Shell Creek property is underlain by Upper Proterozoic to Cambrian rocks thought to belong to the Hyland Group, mainly clastic off-shelf passive continental margin sedimentary rocks. The rocks are exposed within what appears to be an anticlinorium with, from oldest to youngest, basaltic greenstone, commonly with pillows, in the core, followed outwards by bedded grey siltstone/sandstones, chloritic tuffaceous sedimentary rocks, grey, green and maroon shales, banded iron formation, and limestone with shale. The volcanic unit may belong to an undefined volcanic unit, Upper Proterozoic to Lower Cambrian in age (PEsch) mapped by Thompson et al., 1992.

Small scale folds with amplitudes of a few centimetres were observed mimicking larger scale folds with amplitudes of 30 cm, which mimic the large scale anticline that has an amplitude of approximately 2 km. The anticline appears to be overturned to the south. There is some question as to the major fold being a syncline or an anticline but relationships observed in the field at this point favour an anticline.

On the northeast limb of the anticline foliations trend 130° to 080° (further east), dipping 60-70°N, commonly 90° in the iron formation. On the southwest limb of the anticline foliations trend 120° to 070°/30-50°N, locally steep proximal to the Tintina Fault (Pautler, 2007).

MINERALIZATION ON PROPERTY

IRON FORMATION:

The property is underlain by a zone of banded iron formation. The iron formation was only ever evaluated during the summer of 1958 by Asbestos Corporation Ltd. (Riordon and Mann 1958). No further work was completed and it is probable that the quality of the iron mineralization was not deemed to be economic.

As far as this author is aware little or no investigation of the iron was conducted on the nose of the fold to the east of the property where the bulk of the iron deposit is now known to lie and where copper mineralization is also evident.

GOLD BEARING QUARTZ VEINS: SADDLE REEF TYPE MINERALIZATION

Saddle reef-type gold bearing quartz veins were discovered in 2003 on the north slope of Shell Creek ridge near the east end of the Shell Creek property. Hand trenching was completed in 2004 to expose the showing; however, no systematic channel samples were taken. Very fine-grained visible gold is present and grab samples have returned up to 4 grams per tonne gold in assays. The veins contain disseminated chalcopyrite (and secondary malachite) and the host sedimentary rocks contain abundant malachite (copper oxide) staining. There is a significant amount of white quartz float scattered around the slopes of Shell Creek ridge and it is probable that there are numerous occurrences of this style of gold mineralization on the property. Shell Creek, which drains south from Shell Creek ridge to the Yukon River has a history of placer gold operations. The Shell Creek Property was staked on the basis of this gold potential.

In 2005 Chris Ash wrote a report on behalf of the company where he detailed the nature of the mineralization found in the quartz.

"Two distinct stages of quartz are recognized. A dominant, earlier stage consists of pervasively fractured and deformed white, bull quartz. Visible gold is found associated with chalcocite in late-stage, dilation-fill quartz-carbonate-chlorite veins. Foliated clastic sedimentary rocks marginal to late stage gold-quartz veins are pervasively chloritized and contain elevated Cu. Malachite staining is common along cleavage surfaces within the chloritized sediments, reflecting the presence of chalcocite. Three grab samples of material returned assays indicating from 1.4 to 1.8% Cu.

Quartz reefs form shallow southwest-plunging, upright, openly folded, anticlinal structures that are from 50 to 75 meters wide, across the region of the fold closure. Individual reefs consist of a number of stacked quartz veins that range from less than half a metre, to several metres in thickness separated by intervals of variably chloritized, host siltstone. Quartz reefs are thickest at the hinge zone and progressively thin out and dissipate as the veins rolls into the steeper fold limbs.

Within the individual reefs, visible gold is associated with late-stage, dilation-fill quartz-chlorite-carbonate veins developed within and marginal to early-stage fractured quartz. Visible gold is particularly common in association with chalcocite and lesser bornite that occurs either as 1 to 3 centimetre patches in late-stage dilation-fill veins, or as 1 to 3 mm veinlets filling fractures in early-stage quartz, proximal to the late-stage veins.

In addition to Au in quartz, clastic metasediments proximal to zones within reefs with late-stage vein development are typically pervasively chloritized with elevated Cu occurring as disseminated chalcocite developed along schistosity surfaces. Grab samples of chalcocite bearing chloritized sediments have returned assays up to 1.8% Cu." (Ash, 2005)

POTENTIAL COPPER-GOLD-URANIUM MINERALIZATION:

Stream sediment geochemical survey data for the area indicates the presence of anomalous copper, gold and uranium in the drainage system originating from Shell Creek ridge. In addition, soil geochemical surveys completed in 2005 have indicated widespread anomalous copper, gold, uranium and rare earths (lanthanum) in soils along Shell Creek ridge. Based on the geochemical data and the regional geological setting (close proximity of the Shell Creek property to occurrences of Wernecke Breccia mineralization), the author, Peter T. George, P.Geo., concluded that there was potential for Olympic Dam-type mineralization at shallow depths below surface on the property (George, 2005).

SUMMARY OF 2008 EXPLORATION PROGRAM

In 2008 Logan Resources staff conducted the following exploration activities:

- Follow up geochemical soil survey of the northern section of the property
- Mapping and rock sampling survey
- Investigation of previously identified radiometric anomalies

IN BRIEF:
A total of 335 soil samples were collected and analysed for Mobile Metal Ions (MMI) by SGS Mineral Services in Toronto.

A total of 79 rock samples were collected + 3 bulk samples of quartz were sampled for gold and copper by Acme Laboratories in Vancouver and Assayers Canada in Vancouver.

One polished thin section was made by Tech Cominco Laboratories in Vancouver, to determine the protolith of a heavily altered and chloritized horizon.

One day was spent investigating a large quartz vein breccia with Prof. Derek Thorkansan.

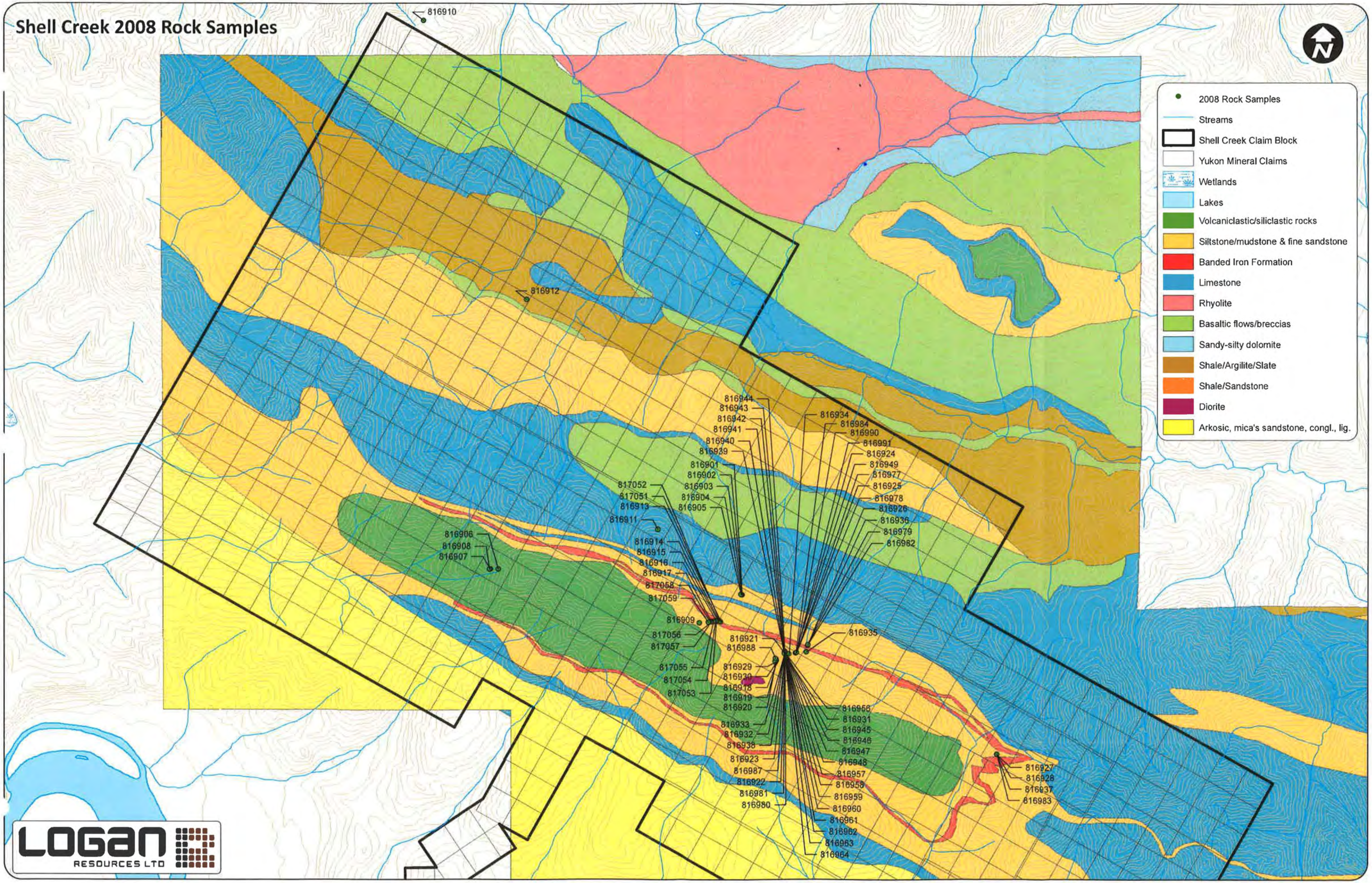
Five days were spent investigating 6 radiometric anomalies that were identified from the 2007 airborne magnetic and radiometric survey that was conducted on the property by Ron Sheldrake on the behalf of Logan Resources Ltd.

A series of sub-reports for the above mentioned work by the various professionals that were involved are contained in the appendices of this report.

ROCK SAMPLING

79 rock samples were collected at Shell Creek in 2008 and sent to Acme Labs in Vancouver for 32 element ICP analysis. The results of the analysis can be seen in Appendix C and various samples are discussed in the following reports. Sample locations and tag numbers can be seen on the map below.

Three bulk samples from the quartz saddle reefs (See Chris Ash Report; 2005) were taken to try and determine if significant gold or copper mineralization could be found. Results of the bulk samples are in Appendix C. Chris Ash himself was present for the sampling.


Shell Creek 2008 Rock Samples
N
2008 Rock Samples
Streams
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
Volcaniclastic/siliclastic rocks
Siltstone/mudstone & fine sandstone
Banded Iron Formation
Limestone
Rhyolite
Basaltic flows/breccias
Sandy-silty dolomite
Shale/Argilite/Slate
Shale/Sandstone
Diorite
Arkosic, mica's sandstone, congl., lig.
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816983
LOGAN RESOURCES LTD

REFERENCES

Ash, Chris (2008): 2008 Evaluation & Sampling Program on the Shell Creek Au-Cu Property; Dawson Mining District; for Logan Resources Ltd.

George, Peter T. (2005): Evaluation Report – Shell Creek Property, Wernecke Mountains, Dawson Mining District, Yukon, Canada; for Logan Resources Ltd.

Pautler, Jean (2007): Shell Creek Evaluation – Geological Setting, Deposit Model and Exploration Implications; Interoffice Memorandum for Logan Resources Ltd.

STATEMENT OF EXPENDITURES

WAGES:

- Soil Sampler @ $185.00/day X 23 Man Days 4,255.00
- Data Person @ $185.00/day X 20 Man Days 3,700.00
- Consulting Geologists @ $750 /day X 4 Man Days 3,000.00
- Geologists @ $400 /day X 47 man days 18,800.00
- Supervision 1,750.00

TOTAL WAGES: $31,505.00

ACCOMMODATION AND MEALS

- (for Logan personal, pilot engineer and consultants) **TOTAL: $10,596.00**

ASSAYS:

- Soils X 337 @ $36.75 12,384.75
- Rocks X 79 @ $18.25 1,441.75
- Bulk Sample 8,000.00

TOTAL ASSAYS: $21,826.50

HELICOPTER SUPPORT	**51,850.00**
FUEL	**8,000.00**
CAMP SUPPLIES	**1,500.00**
REPORT PREPARATION	**3,750.00**
TOTAL EXPENDITURE =	**$129,027.50**

STATEMENT OF QUALIFICATION

I, Daithi Mac Gearailt, with business address:

1640-1066 West Hastings St.
Vancouver, BC.
V6E 3X1

And residential address in Dawson City, Yukon Territory do hereby certify that:

- I am a geologist with Logan Resources Ltd.
- I am a graduate geologist from the National University of Ireland, Galway
- I am the author of this report on the Shell Creek Property, Dawson Mining District, Yukon, which is based on my personal examination of the ground during July 1st to Sep 1st 2008.

Daithi Mac Gearailt, B.Sc.

Appendix A

2007 Permit for Barge Landing & Access Trail

Yukon
Energy, Mines and Resources

Fisheries and Oceans Canada | Pêches et Océans Canada

Yukon Environmental & Socioeconomic Assessment Act Decision Document

This document meets the Yukon Government and Department of Fisheries and Oceans' requirements as a Decision Body as set out in the *Yukon Environmental & Socioeconomic Assessment Act*

Decision Document Issued By:

YG Decision Body:	EMR - Mineral Resources
Federal Decision Body(ies):	Transport Canada – Navigable Waters Protection Program Department of Fisheries and Oceans Canada
First Nation Decision Body(ies):	

Project

Project Name :	**Quartz Mining – Shell Creek Property**	YESAA File Number: **2008-0054**
Proponent Name:	Logan Resources – Seamus Young	

The principal project is the operation of a quartz exploration program within a claim block of 656 claims. The proposed activity will occur on the north side of the Yukon River at the headwaters of Shell & Coal C eks approximately 70km downstream of Dawson City. Activities are proposed to occur between I. ch and November annually for a 5 year period.

Principal activities include:
Site preparation & Operation
- Mechanical trenching (11 @90m³ each)
- Water source (<100m³/day) various tributaries of Yukon River
- Possibility of diamond drilling with use of biodegradable products
- Possibility to establish approximately 25 drill areas (400m²each depending on presence of trees)
- Mechanical dug sumps at each drill site.
- On-going reclamation of trenches and drill sites

Accessory Activities Include:
Road Access
- Construction of access, approximately 10km x 3.5m from Yukon River to Camp
- Construction of access, approximately 10km x 3.5m between trench and drill sites
- Possibility to extend access approximately 10km to support drilling program
- Mobilization will be by skid trailers

Helicopter Access
- Up to 350 hours based within claim block
- Supplies transported to/from Dawson City at regular intervals

Barge Landing at Dogyard Creek (Unnamed trib to Yukon River)
- Construction and use of barge landing
- Initial and final mobilization of equipment to project site from Dawson City with possibility of (minimal) additional transportation

Camp
- Relocation of existing camp
- Capacity of 20 people
- Water source at local creeks

- rey water waste disposal – cover sump
- Human waste disposal – pit privy

Petroleum products (per season)

- Diesel - 400-600 (205L each) drums
- Gasoline - 30-40 (205L each) drums
- Jet Fuel – 200-250 (205L each) drums
- Propane – 10-15 (20-100lbs) tanks

Other Decision Bodies

Other Decision Body Consultation:	*Copies of the Draft Decision Document were forwarded to Federal Decision Bodies for feedback and approval.*
Consolidated Decision Document:	☐ N/A ☒ No – Transport Canada ☒ Yes – Department of Fisheries and Oceans Canada

Non-Self Governing First Nations

Non-self governing First Nation Consultation:	

De 'sion

Pursuant to ss. 75, 76 and 80, the Yukon government has considered the *YESAA* Assessment and:	
☐	a) Government of Yukon accepts the following recommendation(s):
☒	b) Rejects the following recommendation(s) for the following reason(s): **Government of Yukon Rejects the Following:** *Pursuant to Section 56(1) of the Yukon Environmental and Socio-economic Assessment Act it is recommended to the decision bodies that the project not be allowed to proceed, as the Designated Office has determined that the project will have significant adverse environmental or socio-economic effects in or outside Yukon that cannot be mitigated.* **More specifically, the Yukon Government rejects the recommendation of the Designated Office in relation to project 2008-0054 as follows:** *It is the assessor's determination that the residual effects after mitigation exist and are still deemed to be significant. These residual effects are closely related to the access route and the inability of the proposed mitigations to restrict access to the area and subsequent effects to sheep populations. There are numerous examples of the impact of access route construction into previously inaccessible areas and the resultant increased hunting pressure and subsequent decline of populations. These effects are irreversible, long term, and are likely to occur. There are no other reasonable, enforceable and appropriate mitigations available that would render these significant residual effects to be insignificant. In addition… …it will be difficult and challenging for the proponent to carry out the above mitigations and still conduct their operation as proposed. In addition, well-meaning and constructive company policies with respect to wildlife (such as prohibiting the hunting or personal use of ATV's) cannot be legally enforced by mineral inspectors*

nor conservation officers.

Given the:

- *irreversibility, duration, and likelihood of the residual effects,*
- *the difficulty of implementation of the stated mitigations while allowing the project to proceed as proposed, and,*
- *the lack of available mitigations to further mitigate the significant residual effects*

The Designated Office has determined that the project will have significant adverse environmental effects on wildlife and wildlife habitat that cannot be mitigated.

Reasons for Rejection:

Scoping:

This assessment is for an amendment to a permitted project. The scope does not make this clear. Drilling, hand dug sumps, camp of 20 people, heli access and waste management including septic and incineration and removal of solid waste were assessed in 2006. The current permit is valid until 2009.

The present amendment is to add trenching, larger equipment, more extensive drilling, relocation of the camp, access road construction and extension of timelines.

The scope of project refers to May as the annual start date for the project. It is clear from the application that March is the intended start date and the May date is being viewed as a typo.

Authority of Government to accept, vary or reject:

The assessment questions Government's authority as a decision body, and perhaps the soundness of its decision documents, in varying prescriptive terms and conditions that Government, for many reasons, may deem to fall within the mandate of the regulator and not the assessor.

The Yukon *Environmental and Socio-economic Assessment Act* (YESAA) is quite clear that a decision body has full authority to do so. Section 75. (1) of YESAA states:

"Where a designated office, a joint panel or a review panel referred to in section 63 makes a recommendation to a decision body, the decision body shall issue a decision document within the period prescribed by the regulations accepting, rejecting or varying the recommendation."

Determination:

The evaluation report created by YESAB has put the onus on the proponent to become an enforcement agent for the management of game in the area. It is the role of Governments to create and enforce a game management plan that ensures the success of wildlife. Both Yukon and First Nation Governments are responsible for implementing a game management system which is adaptive and responsive to changing conditions in the field, and that allows for the implementation of a timely response to issues like other temporary uses of the land. It is not the responsibility of individual proponents to regulate the areas they are planning to work in a piece-meal project by project fashion, as this approach is not effective at creating or implementing long term goals for either business or habitat/species management.

Government of Yukon disagrees that there is no mitigation that could eliminate, reduce or control the adverse affects on wildlife populations. The access road has been determined by the assessor

to be the source of the long term and irreversible residual effects which are likely to occur, despite the proposed mitigations. The evaluation report does not identify specific residual effects, but does imply that they are related to the road and public access to alpine areas and sheep populations which are currently not as accessible. Yukon Government has identified further access related mitigation measures that will ensure the access road is seasonally inaccessible for the duration of the project, as well as made permanently impassible and fully reclaimed at the end of the program. The seasonal and permanent closure of the access, along with the additional mitigations listed below, will address the impacts identified in the YESAB assessment.

The project can proceed subject to the following specified terms and conditions that will mitigate any significant adverse environmental or socio-economic effects in or outside the Yukon:

Yukon Government accepts the following mitigations from the YESAB Evaluation Report:

Wildlife

- No exploration activities or helicopter flights within 1 km of sheep winter range during the winter period of October 1 – May 31 following where possible.
- No helicopter flights within 3.5 km of sheep lambing areas from May 1 – June 15 where possible.
- No exploration activities within 1 km of sheep lambing areas from May 1 – June 15 where possible.
- The proponent shall maintain a detailed wildlife log for submission to the local regional biologist each year.
  Additional information and clarification regarding lambing areas
    - Sheep lambing areas have not been specifically surveyed or mapped by YG Department of Environment. If or when lambing areas are identified in the project area that the information is to be shared with the regional biologist.
- The proponent shall maintain a minimum altitude of 600m AGL when flying over ungulates when possible
- Proponent shall contact YG Environment for regular postings of the presence of Fortymile caribou in the vicinity of their project area including flight path.
- The proponent shall not locate camp within line of site of nesting peregrine falcon if possible.
- The proponent shall not disturb or harass wildlife while flying or traveling by ATV
- The proponent shall keep all garbage, including kitchen waste, in a container that prevents access by bears and other wildlife, until properly disposed of in accordance with the Solid Waste Regulation.
- When burning kitchen waste on site, it must be burned regularly to reduce odours that might attract wildlife and be burned to ash by forced air or fuel fired incineration
- One end of each trench and test pit should be sloped to provide for wildlife escapement
- All excavated material that is not part of the sampling must be returned underground in the layers in which it was removed, and capped with original surface materials as soon as possible.

Heritage Resources

- The proponent shall comply with the Historic Resources Act (OIC 2003/73) and the Yukon Archaeological Sites Regulation respecting archaeological and historical resources
- The proponent shall have the barge landing and access road route assessed by a qualified archaeologist and Tr'ondëk Hwëch'in Heritage Department representative prior to construction.

Yukon Government varies the following mitigations from the YESAB Evaluation Report:

Wildlife

Yukon Government varies the following:

- No activities or helicopter flights within 1 km of known mineral licks during the period of heaviest use from April 15 to July 31 where possible.

Justification:

- The publication "Flying in Sheep Country" which sets out best practices identifies the critical time period to avoid flying near mineral licks from May 1 to June 15. Yukon Government Department of Environment has provided dates to avoid mineral licks for ground based exploration activities.

Replaced With:

- No helicopter flights within 3.5 km of important mineral licks during the period of heaviest use from May 1 to June 15 where possible.
- No activity within 1 km of important mineral licks during the period of heaviest use from April 15 to July 30 where possible.

Yukon Government varies the following:

- Helicopter activity shall be minimized or avoided within one (1) km of sheep activity.

Justification:

- Operational or safety considerations may require activity with in this range.

Replaced With:

- Helicopter activity shall be minimized or avoided within one (1) km of sheep activity where possible.

Yukon Government varies the following:

- No helicopters flights over peregrine falcon nesting sites, or if it cannot be avoided, fly at a minimum of 600m AGL above nesting sites.

Justification:

- Safety considerations may mean that this altitude cannot be maintained. It is important to allow for safety, emergency and other unforeseen considerations.

Replaced With:

- No helicopter flights over peregrine falcon nesting sites, or if it cannot be avoided, fly at a minimum of 600m AGL above nesting sites where possible.

Yukon Government varies the following:

- Proponent shall berm access route at the barge landing at the end of each season.

Justification:

- A berm will not be sufficient to block the passage of ATVs or snowmobiles from accessing the road and impacting wildlife values. The road will be a private road when constructed, and must be maintained as such through the use of signage and gates. Specific routing of the access road, as determined by CS&I Inspections- Mining, along with seasonal reclamation work and the placement of gates, will prevent the access of ATVs. Implementation of the following mitigation measures by the proponent will go above and beyond the proponent's responsibility to help enforce the Yukon Government's Game Management Plan.

Replaced With:

- The proponent will submit a road management plan to the Chief of Mining Land Use for review and approval before any construction and work on the access road is initiated.
- The proponent will take measures to ensure the closure of the road at the end of each operating season to prevent access to sheep habitat. The road closure measures will be reviewed regularly and any appropriate changes will be approved by regulators to effectively prevent access by the public.
- The proponent will fully reclaim the road at the end of the program to ensure there is no long term access to the alpine (Sheep habitat) areas.

Fish and Fish Habitat

Yukon Government varies the following:

- The proponent shall ensure only clean coarse gravel free of fine sediment is used as in-fill material if required during the construction of the barge landing in the Yukon River. The material shall be local to the area and pre-washed away from any water body.
- The proponent shall ensure all materials and debris stockpiled not within 30m of waterbodies including the Ordinary High Water Mark (OHWM) and located such that they do not re-enter any watercourse. These materials shall not be re-used as ramp in-fill unless they are pre-washed.
- The proponent shall not perform any in-stream works.

Justification:

- Transport Canada - Navigable Waters Protection Program regulates all works on navigable waters, and is a decision body for this project.

Replaced With:

- The proponent shall contact Transport Canada - Navigable Waters Protection Program for barge landing requirements, mitigations and permitting.

Yukon Government varies the following:

- Proponent shall post at both ferry landings a fuel spill contingency plan.

Justification:

- The barge landing in Dawson City is in a publicly accessible area where mishap or vandalism could prevent a fuel spill plan from being usable. To ensure that a copy of the spill plan is available at this public site, the proponent shall provide a copy of the plan to all employees and contractors prior to them performing work, as well as posting the plan at all fuel handling sites.

Replaced With:

- The proponent shall have in place a spill contingency plan that addresses spills of petroleum products and other hazardous substances and shall ensure a copy of the plan is provided to all employees, contractors and sub-contractors, prior to them performing work as part of the operation. The plan must be posted in camp locations and at all fuel handling locations used in carrying out the operation. In the event of a spill, the proponent shall implement the spill contingency plan.

Yukon Government varies the following:

- No fuel shall be stored on the barge landing site.

Justification:

- Fuel may not be stored directly on the barge landing site. However fuel may be stored in the area of the barge landing, as long as it is a minimum of 30 meters above the ordinary high water mark of any water body (including the Yukon River and its tributaries) and meets the standards set out in the Quartz Operating Conditions, Schedule 1 of the Quartz Mining Land Use Regulation.

Replaced With:

- All petroleum products, including waste petroleum products, and any other hazardous substances must be stored in a secure fashion no less than 30m from the ordinary high water mark of any water body.

Hunting, Trapping and Fishing

Yukon Government varies the following:

- Proponent shall maintain a cooperative approach to shared resource management by notifying the Outfitter of Concession Area #3 prior to commencement of project activity annually.
- Proponent shall maintain a cooperative approach to shared resource management by notifying the Registered Trapping Concession Holders for RTC#13 & RTC#17 prior to commencement of project activity annually.
- Proponent shall maintain a cooperative approach to shared resources management by notifying the identified Commercial Fisher prior to commencement of project activity in relation to the barge operation and landing construction.

Justification:

- The Outfitter, Trapper and Commercial Fisherman are all business entities, as is the proponent. Although they have different requirements to be successful, they all require the same land base to achieve that success. Therefore there is no justification that one business should bear the responsibility to ensure that the area is managed successfully for all affected parties.

  This is an amendment to an existing project, and all of the details regarding the project have been posted to the YESAB Online Registry (YOR). Both the Outfitter and Trapper/Commercial Fisherman have submitted comments to the YOR, indicating that they are aware of the proponent's plans. It is clear that this is no longer a case of a new business 'introducing' itself to operations currently existing in the area, but a case of all businesses needing to remain in communication and maintain an open dialog with each other.

  Varying this mitigation does not relieve the proponent or the other commercial resources users of the area from communicating with one another. Communication should happen on a regular basis to update the other parties of their plans. Examples of this would include the co-management required with the outfitter; the outfitter would like to be notified of work happening in the area (which is less than 1% of the outfitter concession) by the proponent to ensure a successful hunting experience for their clients, and the proponent would like to be notified if the outfitter is hunting and using firearms in the area to ensure the safety of anyone working on site for the proponent.

Replaced With:

- The proponent shall maintain a cooperative approach to shared resource management of the land.

Yukon Government removes the following mitigations as per the YESAB Evaluation Report:

Environmental Quality –

Yukon Government removes the following:

- The proponent and/or field representative shall provide a security deposit in the amount sufficient enough to ensure adequate reclamation and determined by the regulator to be held under the Quartz Mining Act, prior to commencement of the proposed project activities.

Justification:

- The proponent is legally required to implement all permit requirements. The financial security may be required by regulators, but normally only where there is significant risk that the proponent will not comply with reclamation requirements. That risk will be determined by regulators.

Wildlife

Yukon Government removes the following:

- Proponent shall enforce the proposed no hunting policy outlined in the Company's wildlife preservation policy.

Justification:

- Our statutes do not enable us to nullify licenses issued by other regulatory bodies.

Yukon Government and Department of Fisheries and Oceans Canada accept the following mitigations from the YESAB Evaluation Report:

Fish and Fish Habitat

- The screen must be kept in a good and efficient state of repair. It must not be removed except for renewal or repair. No water is to be withdrawn during any period when the screen is removed.
- The proponent shall operate equipment/machinery in a manner that minimizes disturbance to the bed and banks of any waterbody.

- Equipment shall be maintained, clean and free of leaks.
- No re-fueling or servicing of equipment shall occur within 30m of waterbody.

Yukon Government and Department of Fisheries and Oceans Canada varies the following:

Fish and Fish Habitat

- All means by which water is withdrawn from Coal Creek, Cliff Creek, Shell Creek and the Yukon River, or their tributaries must be screened or otherwise guarded to prevent the passage of fish from these waters. Mesh size to be determined by Department of Fisheries & Oceans.

Justification:

- Mesh size is not legislated, but the Department of Fisheries and Oceans have guidelines in place.

Replaced With:

- All means by which water is withdrawn from Coal Creek, Cliff Creek, Shell Creek and the Yukon River, or their tributaries must be screened or otherwise guarded to prevent the entrainment of fish from these waters.

Department of Fisheries and Oceans Canada adds the following mitigation:

Justification:

- Department of Fisheries and Oceans Canada regulates any destruction of fish habitat, and is a Decision Body for this project. Permitting and further mitigation may be required under the Fisheries Act for the barge landing and road work that happens below the ordinary high water mark.

DFO Adds:

- An Authorization under the Federal Fisheries Act to Harmfully Alter, Disrupt or Destroy Fish Habitat must be applied for with Fisheries and Oceans Canada (DFO) for the proposed barge landing and near shore road development. The application does not warrant any authorization will be provided. This aspect of the project may be redesigned, relocated, or not permitted based on the project proposal. If an Authorization is determined to be required, then appropriate mitigation and required compensation will be determined by DFO as a requirement of the proposed works.

☐ c) Varies the following recommendation(s) as follows for the reason(s) specified:

Dates

Project Recommendation Issued:	Decision Document Issued:
June 20, 2008	**July 18, 2008**

Recommendation Received From:

Designated Office	☒	Location: Dawson City
Executive Committee	☐	
Panel	☐	a) Panel of the YESAB
	☐	b) CEAA Panel
	☐	c) Joint Panel (YESAB and other assessment body)

Yukon Energy, Mines and Resources

Fisheries and Oceans Canada | Pêches et Océans Canada

By signing below, the Yukon government has exercised its authority as per YESAA s. 75 or s. 76 to issue a decision document on this project.

Name: Robert Holmes Position: Director, Mineral Resources

Signature: [signature] Date: July 18, 2008

By signing below, the Department of Fisheries and Oceans has exercised its authority as per YESAA s. 75 or s. 76 to issue a decision document on this project.

Name: Sean Collins Position: A/Habitat Biologist

Signature: [signature] Date: July 18, 2008

Copies Forwarded to (as required by *YESAA*):

☒	Other Decision Bodies	[list]	Transport Canada – Navigable Waters Protection Program / Department of Fisheries and Oceans
☒	Project Proponent	[name]	Logan Resources / Seamus Young
☒	DAP Branch, Executive Council Office		
☒	YESAB Designated Office	[location]	Dawson
☐	YESAB Executive Committee	[when applicable]	
☐	Minister Environment (Canada)	[when applicable]	
☐	Yukon Surface Rights Board	[when applicable]	
☐	Yukon Water Board	[when applicable	
☐	Land Use Planning Commission:	[when applicable]	
☐	Independent Regulatory Agency	[when applicable]	
☐	Other Body/Person as Required	[List]	

Appendix B

Shell Creek Claims List

Grant Number	RegType	Claim Name	Claim Number	Claim Owner	Recording Date	Expiry Date
YC21149	Quartz	Simba	1	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21150	Quartz	Simba	2	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21151	Quartz	Simba	3	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21152	Quartz	Simba	4	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21153	Quartz	Simba	5	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21154	Quartz	Simba	6	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21155	Quartz	Simba	7	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21156	Quartz	Simba	8	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21157	Quartz	Simba	9	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21158	Quartz	Simba	10	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21159	Quartz	Simba	11	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21160	Quartz	Simba	12	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21161	Quartz	Simba	13	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21162	Quartz	Simba	14	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21163	Quartz	Simba	15	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21164	Quartz	Simba	16	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21165	Quartz	Simba	17	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21166	Quartz	Simba	18	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21167	Quartz	Simba	19	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21168	Quartz	Simba	20	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21169	Quartz	Simba	21	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21170	Quartz	Simba	22	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21171	Quartz	Simba	23	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21172	Quartz	Simba	24	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21173	Quartz	Simba	25	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21174	Quartz	Simba	26	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21175	Quartz	Simba	27	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21176	Quartz	Simba	28	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21177	Quartz	Simba	29	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21178	Quartz	Simba	30	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21179	Quartz	Simba	31	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2016
YC21180	Quartz	Simba	32	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21181	Quartz	Simba	33	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21182	Quartz	Simba	34	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21183	Quartz	Simba	35	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21184	Quartz	Simba	36	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21185	Quartz	Simba	37	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21186	Quartz	Simba	38	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21187	Quartz	Simba	39	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2017
YC21188	Quartz	Simba	40	Logan Resources Ltd. - 100%.	2/21/2002	9/15/2014
YC21872	Quartz	Simba	41	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21873	Quartz	Simba	42	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21874	Quartz	Simba	43	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21875	Quartz	Simba	44	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2021
YC21876	Quartz	Simba	45	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21877	Quartz	Simba	46	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21878	Quartz	Simba	47	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018

YC21879	Quartz	Simba	48	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21880	Quartz	Simba	49	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21881	Quartz	Simba	50	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21882	Quartz	Simba	51	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21883	Quartz	Simba	52	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21884	Quartz	Simba	53	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21885	Quartz	Simba	54	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21886	Quartz	Simba	55	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21887	Quartz	Simba	56	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21888	Quartz	Simba	57	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21889	Quartz	Simba	58	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21890	Quartz	Simba	59	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21891	Quartz	Simba	60	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21892	Quartz	Simba	61	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21893	Quartz	Simba	62	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21894	Quartz	Simba	63	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21895	Quartz	Simba	64	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21896	Quartz	Simba	65	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21897	Quartz	Simba	66	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21898	Quartz	Simba	67	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21899	Quartz	Simba	68	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21900	Quartz	Simba	69	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC21901	Quartz	Simba	70	Logan Resources Ltd. - 100%.	10/4/2002	10/4/2018
YC30279	Quartz	Simba	71	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30280	Quartz	Simba	72	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30281	Quartz	Simba	73	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30282	Quartz	Simba	74	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30283	Quartz	Simba	75	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30284	Quartz	Simba	76	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30285	Quartz	Simba	77	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30286	Quartz	Simba	78	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30287	Quartz	Simba	79	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30288	Quartz	Simba	80	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30289	Quartz	Simba	81	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30290	Quartz	Simba	82	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30291	Quartz	Simba	83	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30292	Quartz	Simba	84	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30293	Quartz	Simba	85	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30294	Quartz	Simba	86	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30295	Quartz	Simba	87	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30296	Quartz	Simba	88	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30297	Quartz	Simba	89	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30298	Quartz	Simba	90	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30299	Quartz	Simba	91	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30300	Quartz	Simba	92	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30301	Quartz	Simba	93	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30302	Quartz	Simba	94	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30303	Quartz	Simba	95	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30304	Quartz	Simba	96	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30305	Quartz	Simba	97	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30306	Quartz	Simba	98	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018

YC30307	Quartz	Simba	99	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30308	Quartz	Simba	100	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30309	Quartz	Simba	101	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30310	Quartz	Simba	102	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30311	Quartz	Simba	103	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30312	Quartz	Simba	104	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30313	Quartz	Simba	105	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30314	Quartz	Simba	106	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30315	Quartz	Simba	107	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30316	Quartz	Simba	108	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30317	Quartz	Simba	109	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30318	Quartz	Simba	110	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30319	Quartz	Simba	111	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30320	Quartz	Simba	112	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30321	Quartz	Simba	113	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30322	Quartz	Simba	114	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30323	Quartz	Simba	115	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30324	Quartz	Simba	116	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30325	Quartz	Simba	117	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30326	Quartz	Simba	118	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30327	Quartz	Simba	119	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30328	Quartz	Simba	120	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30329	Quartz	Simba	121	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30330	Quartz	Simba	122	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30331	Quartz	Simba	123	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30332	Quartz	Simba	124	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30333	Quartz	Simba	125	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30334	Quartz	Simba	126	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30335	Quartz	Simba	127	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30336	Quartz	Simba	128	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30337	Quartz	Simba	129	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30338	Quartz	Simba	130	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30339	Quartz	Simba	131	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30340	Quartz	Simba	132	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30341	Quartz	Simba	133	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30342	Quartz	Simba	134	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30343	Quartz	Simba	135	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30344	Quartz	Simba	136	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30345	Quartz	Simba	137	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30346	Quartz	Simba	138	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30347	Quartz	Simba	139	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30348	Quartz	Simba	140	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30349	Quartz	Simba	141	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30350	Quartz	Simba	142	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30351	Quartz	Simba	143	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30352	Quartz	Simba	144	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30353	Quartz	Simba	145	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30354	Quartz	Simba	146	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30355	Quartz	Simba	147	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30356	Quartz	Simba	148	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30357	Quartz	Simba	149	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018

YC30358	Quartz	Simba	150	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30359	Quartz	Simba	151	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30360	Quartz	Simba	152	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30361	Quartz	Simba	153	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30362	Quartz	Simba	154	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30363	Quartz	Simba	155	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30364	Quartz	Simba	156	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30365	Quartz	Simba	157	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30366	Quartz	Simba	158	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30367	Quartz	Simba	159	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30368	Quartz	Simba	160	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30369	Quartz	Simba	161	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30370	Quartz	Simba	162	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30371	Quartz	Simba	163	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30372	Quartz	Simba	164	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30373	Quartz	Simba	165	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30374	Quartz	Simba	166	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30375	Quartz	Simba	167	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30376	Quartz	Simba	168	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30377	Quartz	Simba	169	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30378	Quartz	Simba	170	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30379	Quartz	Simba	171	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30380	Quartz	Simba	172	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30381	Quartz	Simba	173	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30382	Quartz	Simba	174	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30383	Quartz	Simba	175	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30384	Quartz	Simba	176	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30385	Quartz	Simba	177	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30386	Quartz	Simba	178	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30387	Quartz	Simba	179	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30388	Quartz	Simba	180	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30389	Quartz	Simba	181	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30390	Quartz	Simba	182	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30391	Quartz	Simba	183	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30392	Quartz	Simba	184	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30393	Quartz	Simba	185	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30394	Quartz	Simba	186	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30395	Quartz	Simba	187	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30396	Quartz	Simba	188	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30397	Quartz	Simba	189	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30398	Quartz	Simba	190	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30399	Quartz	Simba	191	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30400	Quartz	Simba	192	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30401	Quartz	Simba	193	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30402	Quartz	Simba	194	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30403	Quartz	Simba	195	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30404	Quartz	Simba	196	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30405	Quartz	Simba	197	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30406	Quartz	Simba	198	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30407	Quartz	Simba	199	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30408	Quartz	Simba	200	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021

YC30409	Quartz	Simba	201	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30410	Quartz	Simba	202	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30411	Quartz	Simba	203	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30412	Quartz	Simba	204	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2021
YC30413	Quartz	Simba	205	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30414	Quartz	Simba	206	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30415	Quartz	Simba	207	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30416	Quartz	Simba	208	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30417	Quartz	Simba	209	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30418	Quartz	Simba	210	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30419	Quartz	Simba	211	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30420	Quartz	Simba	212	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30421	Quartz	Simba	213	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC30422	Quartz	Simba	214	Logan Resources Ltd. - 100%.	4/8/2004	10/4/2018
YC32891	Quartz	Simba	215	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32892	Quartz	Simba	216	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32893	Quartz	Simba	217	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32894	Quartz	Simba	218	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32895	Quartz	Simba	219	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32896	Quartz	Simba	220	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32897	Quartz	Simba	221	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32898	Quartz	Simba	222	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32899	Quartz	Simba	223	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32900	Quartz	Simba	224	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32901	Quartz	Simba	225	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32902	Quartz	Simba	226	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32903	Quartz	Simba	227	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32904	Quartz	Simba	228	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32905	Quartz	Simba	229	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32906	Quartz	Simba	230	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32907	Quartz	Simba	231	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32908	Quartz	Simba	232	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32909	Quartz	Simba	233	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32910	Quartz	Simba	234	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32911	Quartz	Simba	235	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32912	Quartz	Simba	236	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32913	Quartz	Simba	237	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32914	Quartz	Simba	238	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32915	Quartz	Simba	239	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32916	Quartz	Simba	240	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32917	Quartz	Simba	241	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32918	Quartz	Simba	242	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32919	Quartz	Simba	243	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32920	Quartz	Simba	244	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32921	Quartz	Simba	245	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32922	Quartz	Simba	246	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32923	Quartz	Simba	247	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32924	Quartz	Simba	248	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32925	Quartz	Simba	249	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32926	Quartz	Simba	250	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32927	Quartz	Simba	251	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014

YC32928	Quartz	Simba	252	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32929	Quartz	Simba	253	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32930	Quartz	Simba	254	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32931	Quartz	Simba	255	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32932	Quartz	Simba	256	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32933	Quartz	Simba	257	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2014
YC32934	Quartz	Simba	258	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32935	Quartz	Simba	259	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32936	Quartz	Simba	260	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32937	Quartz	Simba	261	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32938	Quartz	Simba	262	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32939	Quartz	Simba	263	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32940	Quartz	Simba	264	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32941	Quartz	Simba	265	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32942	Quartz	Simba	266	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32943	Quartz	Simba	267	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32944	Quartz	Simba	268	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32945	Quartz	Simba	269	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32946	Quartz	Simba	270	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32947	Quartz	Simba	271	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32948	Quartz	Simba	272	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32949	Quartz	Simba	273	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32950	Quartz	Simba	274	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32951	Quartz	Simba	275	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32952	Quartz	Simba	276	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32953	Quartz	Simba	277	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32954	Quartz	Simba	278	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32955	Quartz	Simba	279	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32956	Quartz	Simba	280	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32957	Quartz	Simba	281	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32958	Quartz	Simba	282	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32959	Quartz	Simba	283	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32960	Quartz	Simba	284	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32961	Quartz	Simba	285	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32962	Quartz	Simba	286	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32963	Quartz	Simba	287	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32964	Quartz	Simba	288	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32965	Quartz	Simba	289	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32966	Quartz	Simba	290	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32967	Quartz	Simba	291	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32968	Quartz	Simba	292	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32969	Quartz	Simba	293	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32970	Quartz	Simba	294	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32971	Quartz	Simba	295	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32972	Quartz	Simba	296	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32973	Quartz	Simba	297	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32974	Quartz	Simba	298	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32975	Quartz	Simba	299	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32976	Quartz	Simba	300	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32977	Quartz	Simba	301	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32978	Quartz	Simba	302	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013

YC32979	Quartz	Simba	303	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32980	Quartz	Simba	304	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32981	Quartz	Simba	305	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32982	Quartz	Simba	306	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32983	Quartz	Simba	307	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32984	Quartz	Simba	308	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32985	Quartz	Simba	309	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32986	Quartz	Simba	310	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32987	Quartz	Simba	311	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32988	Quartz	Simba	312	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32989	Quartz	Simba	313	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32990	Quartz	Simba	314	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32991	Quartz	Simba	315	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32992	Quartz	Simba	316	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32993	Quartz	Simba	317	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32994	Quartz	Simba	318	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32995	Quartz	Simba	319	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32996	Quartz	Simba	320	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32997	Quartz	Simba	321	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32998	Quartz	Simba	322	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC32999	Quartz	Simba	323	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33000	Quartz	Simba	324	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33001	Quartz	Simba	325	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33002	Quartz	Simba	326	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33003	Quartz	Simba	327	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33004	Quartz	Simba	328	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33005	Quartz	Simba	329	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33006	Quartz	Simba	330	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33007	Quartz	Simba	331	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33008	Quartz	Simba	332	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33009	Quartz	Simba	333	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33010	Quartz	Simba	334	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33011	Quartz	Simba	335	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33012	Quartz	Simba	336	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33013	Quartz	Simba	337	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33014	Quartz	Simba	338	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33015	Quartz	Simba	339	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33016	Quartz	Simba	340	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33017	Quartz	Simba	341	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33018	Quartz	Simba	342	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33019	Quartz	Simba	343	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33020	Quartz	Simba	344	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33021	Quartz	Simba	345	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33022	Quartz	Simba	346	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33023	Quartz	Simba	347	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33024	Quartz	Simba	348	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33025	Quartz	Simba	349	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33026	Quartz	Simba	350	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33027	Quartz	Simba	351	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33028	Quartz	Simba	352	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33029	Quartz	Simba	353	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013

YC33030	Quartz	Simba	354	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33031	Quartz	Simba	355	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33032	Quartz	Simba	356	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33033	Quartz	Simba	357	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33034	Quartz	Simba	358	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33035	Quartz	Simba	359	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33036	Quartz	Simba	360	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33037	Quartz	Simba	361	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33038	Quartz	Simba	362	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33039	Quartz	Simba	363	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33040	Quartz	Simba	364	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33041	Quartz	Simba	365	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33042	Quartz	Simba	366	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33043	Quartz	Simba	367	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33044	Quartz	Simba	368	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33045	Quartz	Simba	369	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33046	Quartz	Simba	370	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33047	Quartz	Simba	371	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33048	Quartz	Simba	372	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33049	Quartz	Simba	373	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33050	Quartz	Simba	374	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33051	Quartz	Simba	375	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33052	Quartz	Simba	376	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33053	Quartz	Simba	377	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33054	Quartz	Simba	378	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33055	Quartz	Simba	379	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33056	Quartz	Simba	380	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33057	Quartz	Simba	381	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33058	Quartz	Simba	382	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33059	Quartz	Simba	383	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33060	Quartz	Simba	384	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33061	Quartz	Simba	385	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33062	Quartz	Simba	386	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33063	Quartz	Simba	387	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33064	Quartz	Simba	388	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33065	Quartz	Simba	389	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33066	Quartz	Simba	390	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33067	Quartz	Simba	391	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33068	Quartz	Simba	392	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33069	Quartz	Simba	393	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33070	Quartz	Simba	394	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33071	Quartz	Simba	395	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2013
YC33072	Quartz	Simba	396	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33073	Quartz	Simba	397	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33074	Quartz	Simba	398	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33075	Quartz	Simba	399	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33076	Quartz	Simba	400	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33077	Quartz	Simba	401	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33078	Quartz	Simba	402	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33079	Quartz	Simba	403	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33080	Quartz	Simba	404	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011

YC33081	Quartz	Simba	405	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33082	Quartz	Simba	406	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33083	Quartz	Simba	407	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33084	Quartz	Simba	408	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33085	Quartz	Simba	409	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33086	Quartz	Simba	410	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33087	Quartz	Simba	411	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33088	Quartz	Simba	412	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33089	Quartz	Simba	413	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33090	Quartz	Simba	414	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33091	Quartz	Simba	415	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33092	Quartz	Simba	416	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33093	Quartz	Simba	417	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33094	Quartz	Simba	418	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33095	Quartz	Simba	419	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33096	Quartz	Simba	420	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33097	Quartz	Simba	421	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33098	Quartz	Simba	422	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33099	Quartz	Simba	423	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33100	Quartz	Simba	424	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33101	Quartz	Simba	425	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33102	Quartz	Simba	426	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33103	Quartz	Simba	427	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33104	Quartz	Simba	428	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33105	Quartz	Simba	429	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33106	Quartz	Simba	430	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33107	Quartz	Simba	431	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC33108	Quartz	Simba	432	Logan Resources Ltd. - 100%.	6/11/2004	9/11/2011
YC35058	Quartz	Simba	433	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35059	Quartz	Simba	434	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35060	Quartz	Simba	435	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35061	Quartz	Simba	436	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35062	Quartz	Simba	437	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35063	Quartz	Simba	438	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35064	Quartz	Simba	439	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35065	Quartz	Simba	440	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35066	Quartz	Simba	441	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35067	Quartz	Simba	442	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35068	Quartz	Simba	443	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35069	Quartz	Simba	444	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35070	Quartz	Simba	445	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35071	Quartz	Simba	446	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35072	Quartz	Simba	447	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35073	Quartz	Simba	448	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35074	Quartz	Simba	449	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35075	Quartz	Simba	450	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35076	Quartz	Simba	451	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35077	Quartz	Simba	452	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35078	Quartz	Simba	453	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35079	Quartz	Simba	454	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35080	Quartz	Simba	455	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014

YC35081	Quartz	Simba	456	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35082	Quartz	Simba	457	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35083	Quartz	Simba	458	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35084	Quartz	Simba	459	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35085	Quartz	Simba	460	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35086	Quartz	Simba	461	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35087	Quartz	Simba	462	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35088	Quartz	Simba	463	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35089	Quartz	Simba	464	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35090	Quartz	Simba	465	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35091	Quartz	Simba	466	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35092	Quartz	Simba	467	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35093	Quartz	Simba	468	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35094	Quartz	Simba	469	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35095	Quartz	Simba	470	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35096	Quartz	Simba	471	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35097	Quartz	Simba	472	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35098	Quartz	Simba	473	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35099	Quartz	Simba	474	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35100	Quartz	Simba	475	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35101	Quartz	Simba	476	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35102	Quartz	Simba	477	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35103	Quartz	Simba	478	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35104	Quartz	Simba	479	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35105	Quartz	Simba	480	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35106	Quartz	Simba	481	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35107	Quartz	Simba	482	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35108	Quartz	Simba	483	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35109	Quartz	Simba	484	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35110	Quartz	Simba	485	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35111	Quartz	Simba	486	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35112	Quartz	Simba	487	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35113	Quartz	Simba	488	Logan Resources Ltd. - 100%.	9/15/2004	9/15/2014
YC35989	Quartz	NSimba	1	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35990	Quartz	NSimba	2	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35991	Quartz	NSimba	3	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35992	Quartz	NSimba	4	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35993	Quartz	NSimba	5	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35994	Quartz	NSimba	6	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35995	Quartz	NSimba	7	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35996	Quartz	NSimba	8	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35997	Quartz	NSimba	9	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35998	Quartz	NSimba	10	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC35999	Quartz	NSimba	11	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36000	Quartz	NSimba	12	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36001	Quartz	NSimba	13	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36002	Quartz	NSimba	14	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36003	Quartz	NSimba	15	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36004	Quartz	NSimba	16	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36005	Quartz	NSimba	17	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36006	Quartz	NSimba	18	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018

YC36007	Quartz	NSimba	19	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36008	Quartz	NSimba	20	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36009	Quartz	NSimba	21	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36010	Quartz	NSimba	22	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36011	Quartz	NSimba	23	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36012	Quartz	NSimba	24	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36013	Quartz	NSimba	25	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36014	Quartz	NSimba	26	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36015	Quartz	NSimba	27	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36016	Quartz	NSimba	28	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36017	Quartz	NSimba	29	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36018	Quartz	NSimba	30	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36019	Quartz	NSimba	31	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36020	Quartz	NSimba	32	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36021	Quartz	NSimba	33	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36022	Quartz	NSimba	34	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36023	Quartz	NSimba	35	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36024	Quartz	NSimba	36	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36025	Quartz	NSimba	37	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36026	Quartz	NSimba	38	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36027	Quartz	NSimba	39	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36028	Quartz	NSimba	40	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36029	Quartz	NSimba	41	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36030	Quartz	NSimba	42	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36031	Quartz	NSimba	43	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36032	Quartz	NSimba	44	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36033	Quartz	NSimba	45	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36034	Quartz	NSimba	46	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36035	Quartz	NSimba	47	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36036	Quartz	NSimba	48	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36037	Quartz	NSimba	49	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36038	Quartz	NSimba	50	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36039	Quartz	NSimba	51	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36040	Quartz	NSimba	52	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36041	Quartz	NSimba	53	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36042	Quartz	NSimba	54	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36043	Quartz	NSimba	55	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36044	Quartz	NSimba	56	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36045	Quartz	NSimba	57	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36046	Quartz	NSimba	58	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36047	Quartz	NSimba	59	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36048	Quartz	NSimba	60	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36049	Quartz	NSimba	61	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36050	Quartz	NSimba	62	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36051	Quartz	NSimba	63	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36052	Quartz	NSimba	64	Logan Resources Ltd. - 100%.	6/2/2005	10/4/2018
YC36210	Quartz	Simba	489	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36211	Quartz	Simba	490	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36212	Quartz	Simba	491	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36213	Quartz	Simba	492	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36214	Quartz	Simba	493	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015

YC36215	Quartz	Simba	494	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36216	Quartz	Simba	495	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36217	Quartz	Simba	496	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36218	Quartz	Simba	497	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36219	Quartz	Simba	498	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36220	Quartz	Simba	499	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36221	Quartz	Simba	500	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36222	Quartz	Simba	501	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36223	Quartz	Simba	502	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36224	Quartz	Simba	503	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36225	Quartz	Simba	504	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36226	Quartz	Simba	505	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36227	Quartz	Simba	506	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36228	Quartz	Simba	507	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36229	Quartz	Simba	508	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36230	Quartz	Simba	509	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36231	Quartz	Simba	510	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36232	Quartz	Simba	511	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36233	Quartz	Simba	512	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36234	Quartz	Simba	513	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36235	Quartz	Simba	514	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36236	Quartz	Simba	515	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36237	Quartz	Simba	516	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36238	Quartz	Simba	517	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36239	Quartz	Simba	518	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36240	Quartz	Simba	519	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36241	Quartz	Simba	520	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36242	Quartz	Simba	521	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36243	Quartz	Simba	522	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36244	Quartz	Simba	523	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36245	Quartz	Simba	524	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36246	Quartz	Simba	525	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36247	Quartz	Simba	526	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36248	Quartz	Simba	527	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36249	Quartz	Simba	528	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36250	Quartz	Simba	529	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36251	Quartz	Simba	530	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36252	Quartz	Simba	531	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36253	Quartz	Simba	532	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36254	Quartz	Simba	533	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36255	Quartz	Simba	534	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36256	Quartz	Simba	535	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36257	Quartz	Simba	536	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2015
YC36258	Quartz	Simba	551	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36259	Quartz	Simba	552	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36260	Quartz	Simba	553	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36261	Quartz	Simba	554	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36262	Quartz	Simba	555	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36263	Quartz	Simba	556	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36264	Quartz	Simba	557	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36265	Quartz	Simba	558	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012

YC36266	Quartz	Simba	559	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36267	Quartz	Simba	560	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36268	Quartz	Simba	561	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36269	Quartz	Simba	562	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36270	Quartz	Simba	563	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36271	Quartz	Simba	564	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36272	Quartz	Simba	565	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36273	Quartz	Simba	566	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36274	Quartz	Simba	567	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36275	Quartz	Simba	568	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36276	Quartz	Simba	569	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36277	Quartz	Simba	570	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36278	Quartz	Simba	571	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36279	Quartz	Simba	572	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36280	Quartz	Simba	573	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36281	Quartz	Simba	574	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36282	Quartz	Simba	575	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36283	Quartz	Simba	576	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36284	Quartz	Simba	577	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC36285	Quartz	Simba	578	Logan Resources Ltd. - 100%.	8/11/2005	10/4/2012
YC62993	Quartz	Trina	1	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62994	Quartz	Trina	2	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62995	Quartz	Trina	3	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62996	Quartz	Trina	4	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62997	Quartz	Trina	5	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62998	Quartz	Trina	6	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC62999	Quartz	Trina	7	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63000	Quartz	Trina	8	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63001	Quartz	Trina	9	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63002	Quartz	Trina	10	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63003	Quartz	Trina	11	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63004	Quartz	Trina	12	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63005	Quartz	Trina	13	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63006	Quartz	Trina	14	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63007	Quartz	Trina	15	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63008	Quartz	Trina	16	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63009	Quartz	Trina	17	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63010	Quartz	Trina	18	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63011	Quartz	Trina	19	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63012	Quartz	Trina	20	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63013	Quartz	Trina	21	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63014	Quartz	Trina	22	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63015	Quartz	Trina	23	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2013
YC63016	Quartz	Trina	24	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63017	Quartz	Trina	25	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63018	Quartz	Trina	26	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63019	Quartz	Trina	27	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009
YC63020	Quartz	Trina	28	Logan Resources Ltd. - 100%.	10/9/2007	10/9/2009

Appendix C

Rock and Bulk Sample Analyses

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

8V-2998-RA1

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following assay of 10 rock samples submitted Aug-15-08

Sample Name	-150 Au g/tonne	+150 Au g/tonne
816979	0.29	2.07
816979	0.24	1.78
816979	0.28	0.95
816979	0.20	1.40
816979	0.20	1.78
816979	0.27	2.28
816979	0.22	0.92
816979	0.24	2.35
816979	0.24	
816979	0.33	
*0211	2.09	2.19
*BLANK	<0.01	<0.01

Certified by ____________________

ASSAYERS CANADA

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

8V-2998-RA2

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following assay of 20 pulp samples submitted Aug-15-08

Sample Name	-150 Au g/tonne	+150 Au g/tonne	+150 Au
816980	0.04	0.01	0.01
816980	0.04	0.01	0.01
816980	0.06	0.01	0.01
816980	0.04	0.01	0.01
816980	0.04	0.08	0.01
816980	0.04	0.01	0.01
816980	0.04	0.12	0.01
816980	0.04	0.01	0.07
816980	0.04	0.32	0.01
816980	0.03	0.01	0.01
816980	0.03	0.01	0.01
816980	0.03	0.01	0.18
816980	0.03	0.01	0.04
816980	0.03	0.12	0.01
816980	0.02	0.01	
816980	0.04	0.02	
816980	0.03	0.16	
816980	0.04	0.01	
816980	0.04	0.01	
816980	0.03	0.01	
*0211	2.19	2.20	
*Blank	<0.01	<0.01	

Certified by ____________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Metallic Assay Certificate

8V-2998-RM1

Oct-07-08

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

We *hereby certify* the following analysis of 2 rock samples submitted Aug-15-08

Sample Name	WtTotal g	Wt+150 g	+150Au mg	-150Au g/tonne	Metallic Au g/tonne	Net Au g/tonne
816979	29100	219.2	0.370	0.25	0.01	0.26

Certified by ______________________

Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Metallic Assay Certificate

8V-2998-RM2

Company: **LOGAN Resources Ltd**
Project: Shell Creek
Attn: Daithi Macgearailt

Oct-07-08

We *hereby certify* the following analysis of 20 core samples submitted Aug-15-08

Sample Name	WtTotal g	Wt+150 g	+150Au mg	-150Au g/tonne	Metallic Au g/tonne	Net Au g/tonne
816980	120400	1021.8	0.041	0.04	<0.01	0.04

Certified by ____________________

AcmeLabs ACME ANALYTICAL LABORATORIES LTD.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Submitted By:	Rita Chow
Receiving Lab:	Canada-Vancouver
Received:	August 15, 2008
Report Date:	September 30, 2008
Page:	1 of 5

CERTIFICATE OF ANALYSIS VAN08008297.1

CLIENT JOB INFORMATION

Project:	None Given
Shipment ID:	
P.O. Number	
Number of Samples:	100

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
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
M150	22	Crush, Pulverize and Sieve 500g, save +150 and -150 mes		
Split +150 mesh	22	Analysis sample split/packet		
Split -150	22	Analysis sample split/packet		
R150	78	Crush, split and pulverize rock to 200 mesh		
G6.ME	22	Metallics Fire Assay	30	Completed
4A	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
7TD	99	4 Acid digestion ICP-ES analysis.	0.5	Completed

ADDITIONAL COMMENTS

Invoice To: Logan Resources Ltd.
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN

AcmeLabs ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816938	Rock	3.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816939	Rock	0.70	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816940	Rock	3.78	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816941	Rock	1.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816942	Rock	1.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816943	Rock	1.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816944	Rock	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816945	Rock	1.91	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816946	Rock	0.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816947	Rock	0.57	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816948	Rock	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816956	Rock	4.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816957	Rock	2.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816958	Rock	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816959	Rock	1.62	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816960	Rock	1.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816961	Rock	1.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816962	Rock	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816963	Rock	0.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816964	Rock	1.18	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816985	Rock	1.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816986	Rock	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816987	Rock	2.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817060	Rock	2.35	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817061	Rock	1.92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817062	Rock	3.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817063	Rock	2.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816951	Rock	2.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816952	Rock	1.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816953	Rock	2.41	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816938	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.016	<0.02	0.02	<2	0.014	0.004	0.26	7.97	<0.02	<0.01	<0.001
816939	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.02	<2	0.022	0.006	0.28	9.23	<0.02	<0.01	<0.001
816940	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.021	<0.02	0.01	<2	0.014	0.004	0.25	8.07	<0.02	<0.01	<0.001
816941	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.016	<0.02	0.02	2	0.018	0.005	0.23	10.60	<0.02	<0.01	<0.001
816942	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	<2	0.014	0.004	0.24	7.99	<0.02	<0.01	<0.001
816943	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.146	<0.02	0.02	<2	0.012	0.004	0.23	8.69	<0.02	<0.01	<0.001
816944	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.143	<0.02	0.03	2	0.018	0.007	0.36	12.05	<0.02	<0.01	<0.001
816945	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	0.01	<2	0.014	0.004	0.29	7.54	<0.02	<0.01	<0.001
816946	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.629	<0.02	0.02	4	0.014	0.005	0.31	7.58	<0.02	<0.01	<0.001
816947	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.141	<0.02	0.02	<2	0.016	0.005	0.26	9.04	<0.02	<0.01	<0.001
816948	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.02	<2	0.021	0.005	0.33	10.13	<0.02	<0.01	<0.001
816956	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	0.02	<2	0.020	0.005	0.33	8.52	<0.02	<0.01	<0.001
816957	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.02	<2	0.017	0.005	0.31	9.22	<0.02	<0.01	<0.001
816958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	2	0.019	0.005	0.30	10.03	<0.02	<0.01	<0.001
816959	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.012	<0.02	<0.01	<2	0.010	0.003	0.25	5.65	<0.02	<0.01	<0.001
816960	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	<2	0.021	0.005	0.35	10.00	<0.02	<0.01	<0.001
816961	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.03	<2	0.035	0.008	0.33	13.99	<0.02	<0.01	<0.001
816962	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	0.04	<2	0.023	0.009	0.38	15.98	<0.02	<0.01	<0.001
816963	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.03	<2	0.024	0.007	0.29	13.58	<0.02	<0.01	<0.001
816964	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.013	<0.02	0.04	<2	0.032	0.009	0.37	15.34	<0.02	<0.01	<0.001
816985	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	<0.01	<2	0.001	<0.001	0.03	1.48	<0.02	<0.01	<0.001
816986	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.053	<0.02	<0.01	<2	0.004	0.003	0.47	17.83	<0.02	<0.01	<0.001
816987	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.219	<0.02	0.02	<2	0.017	0.005	0.31	9.30	<0.02	<0.01	<0.001
817060	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.053	<0.02	<0.01	<2	0.005	0.017	0.35	18.16	0.50	0.01	<0.001
817061	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.050	<0.02	<0.01	<2	0.005	0.003	0.40	17.18	<0.02	0.01	<0.001
817062	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.119	<0.02	<0.01	<2	0.012	0.008	0.34	28.28	0.05	<0.01	<0.001
817063	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	<0.01	<2	0.001	0.002	0.12	5.07	<0.02	0.07	<0.001
816951	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.017	<0.02	<0.01	<2	0.002	<0.001	0.18	8.11	<0.02	0.06	<0.001
816952	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.270	<0.02	0.02	<2	0.024	0.017	0.09	37.75	0.10	<0.01	<0.001
816953	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.764	<0.02	0.02	97	<0.001	<0.001	0.13	3.01	0.02	<0.01	<0.001

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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816938	Rock	<0.01	<0.01	6.58	0.22	0.014	3.84	4.75	<0.01	0.02	<0.01
816939	Rock	<0.01	<0.01	8.61	0.39	0.017	4.56	5.37	<0.01	<0.01	<0.01
816940	Rock	<0.01	<0.01	8.75	0.29	0.012	3.77	4.52	0.01	<0.01	<0.01
816941	Rock	<0.01	<0.01	5.90	0.37	0.016	4.63	5.59	0.01	0.01	<0.01
816942	Rock	<0.01	<0.01	8.92	0.29	0.013	3.88	4.59	<0.01	<0.01	<0.01
816943	Rock	<0.01	<0.01	3.98	0.22	0.012	3.82	6.18	0.13	0.76	<0.01
816944	Rock	<0.01	<0.01	5.66	0.27	0.014	6.13	9.97	0.12	1.31	<0.01
816945	Rock	<0.01	<0.01	8.24	0.27	0.012	3.54	4.16	<0.01	0.02	<0.01
816946	Rock	<0.01	<0.01	7.29	0.23	0.011	3.90	5.17	0.06	0.15	<0.01
816947	Rock	<0.01	<0.01	4.80	0.30	0.014	4.24	6.37	0.20	0.60	<0.01
816948	Rock	<0.01	<0.01	9.29	0.39	0.018	4.58	5.43	<0.01	0.01	<0.01
816956	Rock	<0.01	<0.01	8.67	0.34	0.016	4.11	5.06	<0.01	0.02	<0.01
816957	Rock	<0.01	<0.01	7.44	0.34	0.015	4.29	5.27	<0.01	<0.01	<0.01
816958	Rock	<0.01	<0.01	5.95	0.40	0.017	5.22	6.01	0.01	<0.01	<0.01
816959	Rock	<0.01	<0.01	7.44	0.20	0.009	2.64	3.14	<0.01	<0.01	<0.01
816960	Rock	<0.01	<0.01	9.10	0.39	0.015	4.53	5.51	<0.01	0.01	<0.01
816961	Rock	<0.01	<0.01	5.75	0.54	0.026	6.25	7.46	<0.01	0.02	<0.01
816962	Rock	<0.01	<0.01	2.04	0.17	0.010	8.28	9.95	<0.01	0.03	<0.01
816963	Rock	<0.01	<0.01	3.79	0.42	0.021	6.04	10.78	0.08	1.72	<0.01
816964	Rock	<0.01	<0.01	5.24	0.64	0.025	7.41	9.34	<0.01	0.03	<0.01
816985	Rock	<0.01	<0.01	0.49	0.02	0.002	0.25	2.75	1.11	0.59	<0.01
816986	Rock	<0.01	<0.01	11.02	0.10	0.003	1.92	0.91	0.08	0.11	<0.01
816987	Rock	<0.01	<0.01	5.95	0.31	0.016	4.54	5.90	0.05	0.10	<0.01
817060	Rock	<0.01	0.38	12.05	0.16	0.003	0.84	4.23	0.50	0.25	<0.01
817061	Rock	<0.01	0.03	14.16	0.06	0.002	0.62	4.31	0.70	0.22	<0.01
817062	Rock	<0.01	0.35	8.93	0.51	0.003	1.12	1.05	0.03	0.03	<0.01
817063	Rock	<0.01	<0.01	4.17	0.16	0.003	1.61	6.85	1.31	4.42	<0.01
816951	Rock	<0.01	<0.01	11.62	0.03	0.006	0.73	7.01	1.47	1.12	<0.01
816952	Rock	<0.01	0.21	5.63	0.11	0.002	0.30	1.60	0.16	0.16	<0.01
816953	Rock	0.02	<0.01	0.13	<0.01	0.002	0.02	0.36	0.02	0.14	<0.01

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	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816954	Rock	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816955	Rock	2.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816949	Rock	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816901	Rock	1.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816902	Rock	2.57	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816903	Rock	2.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816904	Rock	3.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816905	Rock	3.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816910	Rock	1.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816911	Rock	1.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816912	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816965	Rock	1.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816966	Rock	1.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816967	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816968	Rock	1.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816969	Rock	1.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816970	Rock	0.79	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816971	Rock	1.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816972	Rock	1.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816973	Rock	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816974	Rock	1.75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816975	Rock	1.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816976	Rock	2.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816921	Rock	1.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816922	Rock	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816923	Rock	1.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816927	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816931	Rock	1.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816935	Rock	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816936	Rock	1.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816954	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.002	0.001	0.03	3.86	<0.02	<0.01	<0.001
816955	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.001	<0.001	0.02	2.20	0.04	0.01	<0.001
816949	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	0.03	<2	0.029	0.008	0.24	15.68	<0.02	<0.01	<0.001
816901	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	<0.001	<0.001	0.01	4.38	<0.02	<0.01	<0.001
816902	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.003	<0.02	<0.01	<2	<0.001	<0.001	0.04	3.36	<0.02	0.01	<0.001
816903	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	0.01	<2	<0.001	<0.001	0.01	6.44	<0.02	<0.01	<0.001
816904	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	<0.001	<0.001	0.02	7.36	<0.02	<0.01	<0.001
816905	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.01	3.21	<0.02	<0.01	<0.001
816910	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.94	<0.02	<0.01	<0.001
816911	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	<0.001	0.03	0.02	<2	<0.001	<0.001	0.09	2.75	<0.02	0.02	<0.001
816912	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.012	<0.02	<0.01	<2	0.003	<0.001	<0.01	0.88	<0.02	<0.01	<0.001
816965	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.005	<0.02	<0.01	<2	0.001	0.002	0.09	4.71	<0.02	0.09	<0.001
816966	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.001	0.002	0.11	4.90	<0.02	0.08	<0.001
816967	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	<0.001	0.002	0.11	4.84	<0.02	0.09	<0.001
816968	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.062	<0.02	<0.01	<2	0.007	0.004	0.20	22.90	<0.02	0.01	<0.001
816969	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.115	<0.02	<0.01	<2	0.011	0.006	0.18	23.19	<0.02	0.01	<0.001
816970	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.019	<0.02	<0.01	<2	0.001	0.002	0.13	5.74	<0.02	0.07	<0.001
816971	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.014	<0.02	0.01	<2	0.002	0.002	0.31	10.84	<0.02	0.04	<0.001
816972	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	0.01	<2	0.002	<0.001	0.36	9.62	<0.02	0.05	<0.001
816973	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.043	<0.02	<0.01	<2	0.006	0.003	0.30	13.56	0.03	0.05	<0.001
816974	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.137	<0.02	<0.01	<2	0.020	0.016	0.05	39.55	0.15	<0.01	<0.001
816975	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.025	<0.02	<0.01	<2	0.002	0.005	0.54	11.35	0.10	0.02	<0.001
816976	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.115	<0.02	<0.01	<2	0.012	0.008	0.36	29.20	0.04	<0.01	<0.001
816921	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.393	<0.02	0.02	<2	0.013	0.005	0.27	8.64	<0.02	<0.01	<0.001
816922	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.506	<0.02	0.02	<2	0.014	0.004	0.33	7.07	<0.02	<0.01	<0.001
816923	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.001	0.013	<0.02	0.03	<2	0.024	0.008	0.35	13.40	<0.02	<0.01	<0.001
816927	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.225	<0.02	0.02	<2	0.007	0.005	1.14	6.99	<0.02	<0.01	<0.001
816931	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.015	<0.02	0.02	<2	0.016	0.005	0.24	9.25	<0.02	<0.01	<0.001
816935	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.174	<0.02	0.03	5	0.018	0.008	0.33	13.03	<0.02	0.02	<0.001
816936	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.231	<0.02	0.03	2	0.017	0.007	0.28	12.32	<0.02	<0.01	<0.001

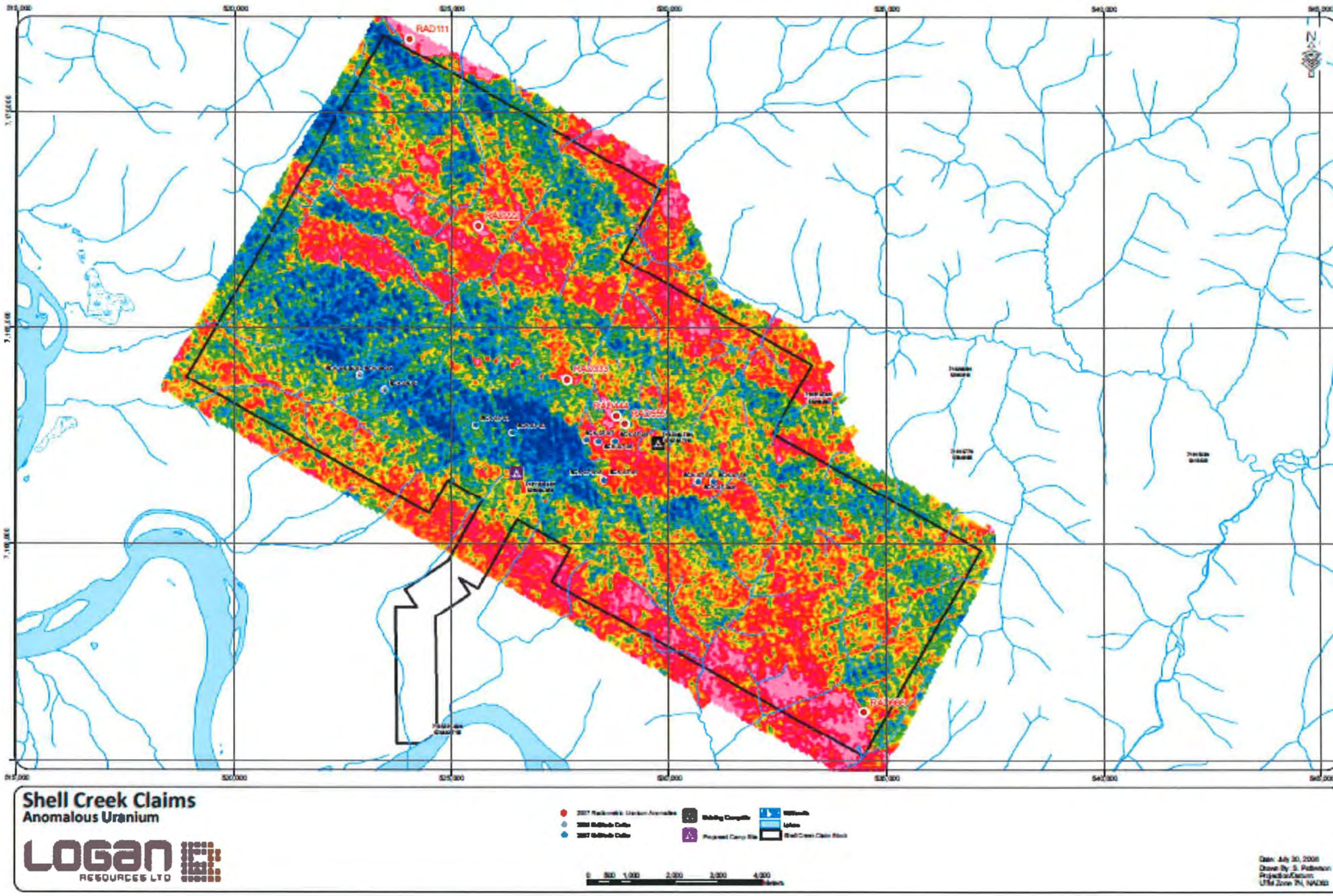

Figure 2: RADIOMETRIC MAP OF SHELL CREEK PROPERTY

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Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816954	Rock	<0.01	<0.01	0.30	0.01	0.003	0.47	5.46	1.30	1.38	<0.01
816955	Rock	<0.01	<0.01	1.47	0.01	0.003	0.44	4.66	1.25	1.40	<0.01
816949	Rock	<0.01	<0.01	0.05	<0.01	0.005	10.50	10.57	<0.01	<0.01	<0.01
816901	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.02	6.53	3.00	6.17	<0.01
816902	Rock	<0.01	<0.01	0.07	<0.01	<0.001	0.03	6.72	4.32	4.96	<0.01
816903	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.02	6.41	3.70	5.23	<0.01
816904	Rock	<0.01	<0.01	<0.01	0.02	<0.001	0.01	6.12	2.91	5.73	<0.01
816905	Rock	<0.01	<0.01	0.02	<0.01	<0.001	0.03	6.31	3.29	6.55	<0.01
816910	Rock	<0.01	<0.01	0.10	0.06	<0.001	0.14	5.52	0.34	5.99	<0.01
816911	Rock	<0.01	<0.01	0.40	0.02	<0.001	0.04	7.10	4.40	5.50	<0.01
816912	Rock	<0.01	<0.01	0.03	0.06	0.010	0.05	0.81	0.02	0.27	<0.01
816965	Rock	<0.01	<0.01	4.27	0.16	0.003	1.62	6.86	1.44	4.00	<0.01
816966	Rock	<0.01	<0.01	4.24	0.16	0.003	1.64	6.46	1.35	3.85	<0.01
816967	Rock	<0.01	<0.01	4.58	0.18	0.002	1.71	7.16	1.35	4.13	<0.01
816968	Rock	<0.01	<0.01	6.90	<0.01	0.003	0.65	4.45	1.01	1.06	<0.01
816969	Rock	<0.01	0.09	5.69	<0.01	0.003	0.40	4.55	0.98	0.89	<0.01
816970	Rock	<0.01	<0.01	6.01	0.19	0.003	1.73	6.75	1.22	4.43	<0.01
816971	Rock	<0.01	<0.01	10.40	0.16	0.002	1.73	6.65	1.23	0.50	<0.01
816972	Rock	<0.01	<0.01	11.59	0.06	0.005	0.97	7.31	0.79	1.37	<0.01
816973	Rock	<0.01	0.05	12.60	0.07	0.005	0.51	6.62	0.31	0.58	<0.01
816974	Rock	<0.01	0.37	1.76	0.02	0.001	0.36	1.05	0.08	0.13	<0.01
816975	Rock	<0.01	0.14	15.46	0.15	0.003	0.53	6.79	0.71	0.45	<0.01
816976	Rock	<0.01	0.37	9.05	0.50	0.002	1.12	0.68	0.02	<0.01	<0.01
816921	Rock	<0.01	<0.01	4.74	0.22	0.012	4.14	6.09	0.26	0.27	<0.01
816922	Rock	<0.01	<0.01	9.40	0.24	0.012	3.58	4.54	0.02	0.05	<0.01
816923	Rock	<0.01	<0.01	6.08	0.47	0.024	6.17	7.38	<0.01	0.08	<0.01
816927	Rock	<0.01	<0.01	0.38	0.06	0.008	3.54	7.82	1.16	1.36	<0.01
816931	Rock	<0.01	<0.01	5.69	0.30	0.015	4.25	5.02	<0.01	<0.01	<0.01
816935	Rock	<0.01	<0.01	5.34	0.09	0.019	5.12	8.37	<0.01	0.10	<0.01
816936	Rock	<0.01	<0.01	2.62	0.15	0.019	5.70	10.57	0.07	1.97	<0.01

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	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816906	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816907	Rock	1.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816908	Rock	3.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817051	Rock	2.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817052	Rock	1.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817053	Rock	0.93	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817054	Rock	1.76	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817055	Rock	2.26	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817056	Rock	1.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817057	Rock	1.67	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817058	Rock	1.95	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
817059	Rock	3.77	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816913	Rock	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816914	Rock	0.96	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816915	Rock	0.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816916	Rock	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816917	Rock	0.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816918	Rock	1.04	524.9	0.24	22.26	<0.005	0.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816920	Rock	0.52	500	<0.01	22.36	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816924	Rock	1.74	459.7	0.21	18.69	<0.005	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816925	Rock	2.01	502	1.42	20.58	0.622	2.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816926	Rock	2.11	533.3	2.64	22.96	0.911	4.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816928	Rock	1.35	593.8	0.03	24.97	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816929	Rock	1.02	525.8	<0.01	19.29	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816930	Rock	1.35	598.3	<0.01	25.26	<0.005	<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816932	Rock	1.51	539.8	0.13	25.17	<0.005	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816933	Rock	1.49	553.4	0.03	19.50	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816934	Rock	0.91	463.7	0.03	23.41	<0.005	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816937	Rock	1.75	444.7	0.31	19.21	0.122	0.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816909	Rock	2.06	488.1	0.20	21.63	<0.005	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816906	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	<0.01	3	0.014	0.004	0.13	6.50	<0.02	<0.01	<0.001
816907	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	<0.01	<2	0.007	0.003	0.14	7.56	<0.02	<0.01	<0.001
816908	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	2	0.012	0.004	0.13	6.06	<0.02	<0.01	<0.001
817051	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	0.004	0.002	0.14	5.92	<0.02	<0.01	<0.001
817052	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	0.01	3	0.004	0.003	0.17	5.80	<0.02	0.01	<0.001
817053	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	0.01	<2	0.005	0.003	0.14	7.44	<0.02	0.01	<0.001
817054	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.010	<0.02	<0.01	<2	0.003	0.002	0.08	4.76	<0.02	<0.01	<0.001
817055	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	0.01	<2	0.004	0.003	0.19	6.01	<0.02	0.02	<0.001
817056	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.18	5.74	<0.02	0.02	<0.001
817057	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	<0.01	<2	0.003	0.002	0.16	5.42	<0.02	0.01	<0.001
817058	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	0.01	<2	0.005	0.003	0.11	6.64	<0.02	0.02	<0.001
817059	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	<0.01	<2	0.004	0.002	0.15	5.68	<0.02	0.02	<0.001
816913	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.008	<0.02	0.01	<2	0.004	0.003	0.11	5.92	<0.02	<0.01	<0.001
816914	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.004	<0.02	<0.01	<2	0.004	0.003	0.13	5.81	<0.02	0.01	<0.001
816915	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.13	5.76	<0.02	<0.01	<0.001
816916	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	<0.01	<2	0.004	0.003	0.18	5.59	<0.02	0.01	<0.001
816917	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.013	<0.02	<0.01	<2	0.004	0.002	0.11	6.09	<0.02	<0.01	<0.001
816918	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.660	<0.02	<0.01	<2	0.003	0.001	0.07	3.12	<0.02	<0.01	<0.001
816920	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.011	<0.02	<0.01	<2	0.001	<0.001	0.10	1.03	<0.02	<0.01	<0.001
816924	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.045	<0.02	<0.01	<2	0.002	<0.001	0.10	1.91	<0.02	<0.01	<0.001
816925	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.402	<0.02	<0.01	<2	<0.001	<0.001	0.07	0.67	<0.02	<0.01	<0.001
816926	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.230	<0.02	<0.01	<2	<0.001	<0.001	0.10	0.74	<0.02	<0.01	<0.001
816928	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.168	<0.02	<0.01	<2	<0.001	<0.001	0.10	0.72	<0.02	<0.01	<0.001
816929	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.09	0.46	<0.02	<0.01	<0.001
816930	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.06	0.37	<0.02	<0.01	<0.001
816932	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.274	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.78	<0.02	<0.01	<0.001
816933	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.055	<0.02	<0.01	<2	0.002	<0.001	0.22	1.90	<0.02	0.01	<0.001
816934	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.068	<0.02	<0.01	<2	<0.001	<0.001	0.02	0.72	<0.02	<0.01	<0.001
816937	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	1.861	<0.02	<0.01	5	<0.001	<0.001	0.02	0.51	<0.02	<0.01	<0.001
816909	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.056	<0.02	<0.01	<2	0.003	<0.001	0.25	2.10	<0.02	<0.01	<0.001

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816906	Rock	<0.01	<0.01	9.40	0.04	0.030	3.38	6.77	0.87	0.02	<0.01
816907	Rock	<0.01	<0.01	5.34	0.03	0.035	4.36	7.34	3.08	0.04	<0.01
816908	Rock	<0.01	<0.01	10.26	0.03	0.027	2.89	5.89	0.08	0.12	<0.01
817051	Rock	<0.01	<0.01	2.18	0.20	0.005	1.33	7.40	1.48	2.42	<0.01
817052	Rock	<0.01	<0.01	2.07	0.08	0.005	1.68	7.02	1.83	1.67	<0.01
817053	Rock	<0.01	<0.01	1.12	0.03	0.006	1.99	7.87	2.11	1.83	<0.01
817054	Rock	<0.01	<0.01	0.76	0.06	0.005	1.34	6.67	1.03	2.50	<0.01
817055	Rock	<0.01	<0.01	3.17	0.08	0.005	1.63	6.93	1.88	1.63	<0.01
817056	Rock	<0.01	<0.01	2.60	0.10	0.005	1.42	6.67	1.53	1.75	<0.01
817057	Rock	<0.01	<0.01	2.18	0.10	0.004	1.24	6.46	1.33	1.95	<0.01
817058	Rock	<0.01	<0.01	1.17	0.05	0.005	1.53	7.37	1.65	2.17	<0.01
817059	Rock	<0.01	<0.01	3.16	0.24	0.004	1.25	6.87	1.52	1.93	<0.01
816913	Rock	<0.01	<0.01	1.16	0.08	0.004	1.63	7.40	1.55	2.33	<0.01
816914	Rock	<0.01	<0.01	1.54	0.07	0.005	1.46	7.21	1.67	2.09	<0.01
816915	Rock	<0.01	<0.01	1.72	0.06	0.004	1.37	6.92	1.61	2.04	<0.01
816916	Rock	<0.01	<0.01	3.11	0.08	0.004	1.46	6.69	1.61	1.84	<0.01
816917	Rock	<0.01	<0.01	0.77	0.03	0.004	1.51	7.09	1.55	2.21	<0.01
816918	Rock	<0.01	<0.01	1.19	0.03	0.005	0.96	2.90	0.10	0.85	<0.01
816920	Rock	<0.01	<0.01	4.74	0.02	0.002	0.36	0.42	<0.01	0.01	<0.01
816924	Rock	<0.01	<0.01	6.13	0.08	0.002	0.99	1.15	<0.01	0.02	<0.01
816925	Rock	<0.01	<0.01	3.69	0.02	0.002	0.13	0.18	<0.01	<0.01	<0.01
816926	Rock	<0.01	<0.01	5.12	0.03	<0.001	0.13	0.24	<0.01	0.01	<0.01
816928	Rock	<0.01	<0.01	0.07	<0.01	<0.001	0.11	0.40	0.02	0.13	<0.01
816929	Rock	<0.01	<0.01	4.95	<0.01	<0.001	0.01	0.02	<0.01	<0.01	<0.01
816930	Rock	<0.01	<0.01	3.16	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
816932	Rock	<0.01	<0.01	0.52	0.01	0.001	0.16	0.22	<0.01	<0.01	<0.01
816933	Rock	<0.01	<0.01	9.54	0.04	0.002	0.78	1.20	<0.01	0.13	<0.01
816934	Rock	<0.01	<0.01	0.40	0.02	<0.001	0.10	0.17	<0.01	0.01	<0.01
816937	Rock	<0.01	<0.01	0.01	<0.01	<0.001	<0.01	0.04	<0.01	0.02	<0.01
816909	Rock	<0.01	<0.01	8.82	0.03	0.003	0.75	1.48	0.05	0.18	<0.01

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CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
816977	Rock	1.39	536.2	1.87	25.84	1.479	4.54	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816978	Rock	1.64	427.9	1.29	24.23	0.734	2.93	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816981	Rock	0.66	432.7	0.11	20.35	<0.005	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816982	Rock	2.08	511.8	0.49	18.81	0.35	1.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816983	Rock	1.12	526.2	0.02	24.04	<0.005	0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816984	Rock	0.94	526.8	0.30	26.42	0.111	0.49	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816988	Rock	1.17	561.3	0.10	26.10	0.087	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816989	Rock	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	48.76	12.96	6.85	4.96	8.34	1.50	4.01	0.58	0.30	0.23	0.036	1505	32	808
816990	Rock	2.38	554.8	1.36	29.83	0.702	2.55	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816991	Rock	1.88	486.1	1.84	20.06	0.608	3.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Client: **Logan Resources Ltd.**
1640 - 1066 Hastings St. W.
Vancouver BC V6E 3X1 Canada

Project: None Given
Report Date: September 30, 2008

CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
816977	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.337	<0.02	<0.01	<2	<0.001	<0.001	0.09	1.01	<0.02	<0.01	<0.001
816978	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.240	<0.02	<0.01	<2	0.001	<0.001	0.08	1.32	<0.02	<0.01	<0.001
816981	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.205	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.85	<0.02	<0.01	<0.001
816982	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.096	<0.02	<0.01	<2	<0.001	<0.001	0.08	0.86	<0.02	<0.01	<0.001
816983	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.118	<0.02	<0.01	<2	<0.001	<0.001	0.08	0.57	<0.02	<0.01	<0.001
816984	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.018	<0.02	<0.01	<2	<0.001	<0.001	0.04	0.69	<0.02	<0.01	<0.001
816988	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.246	<0.02	<0.01	<2	<0.001	<0.001	0.03	0.84	<0.02	<0.01	<0.001
816989	Rock	224	25	10	20	10.9	99.77	2.83	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816990	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.348	<0.02	<0.01	<2	<0.001	<0.001	0.15	0.94	<0.02	<0.01	<0.001
816991	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.351	<0.02	<0.01	<2	<0.001	<0.001	0.12	0.67	<0.02	<0.01	<0.001

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CERTIFICATE OF ANALYSIS VAN08008297.1

	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
816977	Rock	<0.01	<0.01	4.07	0.02	0.002	0.30	0.40	<0.01	<0.01	<0.01
816978	Rock	<0.01	<0.01	3.36	0.02	0.001	0.43	0.53	<0.01	<0.01	<0.01
816981	Rock	<0.01	<0.01	0.76	0.02	<0.001	0.16	0.23	<0.01	0.01	<0.01
816982	Rock	<0.01	<0.01	4.01	0.03	<0.001	0.18	0.28	<0.01	0.01	<0.01
816983	Rock	<0.01	<0.01	0.04	<0.01	<0.001	0.04	0.29	0.02	0.12	<0.01
816984	Rock	<0.01	<0.01	1.85	<0.01	<0.001	0.15	0.16	<0.01	<0.01	<0.01
816988	Rock	<0.01	<0.01	0.17	0.01	<0.001	0.25	0.32	<0.01	0.02	<0.01
816989	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
816990	Rock	<0.01	<0.01	7.83	0.02	<0.001	0.27	0.38	<0.01	<0.01	<0.01
816991	Rock	<0.01	<0.01	6.65	0.02	<0.001	0.12	0.18	<0.01	<0.01	<0.01

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	Method	WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Analyte	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
	Unit	kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	MDL	0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
Pulp Duplicates																					
816958	Rock	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816958	QC																				
816912	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816912	QC																				
816906	Rock	1.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 816906	QC																				
Reference Materials																					
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OXH55	Standard			1.31																	
STD OXH55	Standard			1.34																	
STD OXH55	Standard			1.29																	
STD OXK69	Standard																				
STD OXK69	Standard			3.72																	
STD OXK69	Standard			3.57																	
STD OXP39	Standard				30.01	0.451															
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SF-3T	Standard																				
STD SO-18	Standard							58.09	14.08	7.63	3.34	6.41	3.69	2.13	0.69	0.83	0.39	0.544	476	54	399
STD SO-18	Standard							58.11	14.06	7.60	3.33	6.38	3.71	2.14	0.69	0.83	0.39	0.546	470	37	397
STD SQ18	Standard				30.00	0.869															
STD SF-3T Expected																					

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	Method	4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
	Unit	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
	MDL	5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
Pulp Duplicates																					
816958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.007	<0.02	0.02	2	0.019	0.005	0.30	10.03	<0.02	<0.01	<0.001
REP 816958	QC									<0.001	0.007	<0.02	0.02	<2	0.019	0.005	0.30	9.72	<0.02	<0.01	<0.001
816912	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.002	0.012	<0.02	<0.01	<2	0.003	<0.001	<0.01	0.88	<0.02	<0.01	<0.001
REP 816912	QC									0.002	0.012	<0.02	<0.01	3	0.003	<0.001	<0.01	0.85	<0.02	<0.01	<0.001
816906	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.001	0.009	<0.02	<0.01	3	0.014	0.004	0.13	6.50	<0.02	<0.01	<0.001
REP 816906	QC									<0.001	0.009	<0.02	<0.01	<2	0.014	0.004	0.14	6.65	<0.02	<0.01	<0.001
Reference Materials																					
STD CSC	Standard							3.15	4.20												
STD OREAS76A	Standard							0.16	17.76												
STD OXH55	Standard																				
STD OXH55	Standard																				
STD OXH55	Standard																				
STD OXK69	Standard																				
STD OXK69	Standard																				
STD OXK69	Standard																				
STD OXP39	Standard																				
STD SF-3T	Standard									0.031	0.769	0.93	1.06	53	0.354	0.018	0.43	8.13	<0.02	0.04	0.005
STD SF-3T	Standard									0.032	0.796	0.95	1.07	52	0.354	0.018	0.44	8.30	<0.02	0.04	0.005
STD SF-3T	Standard									0.031	0.781	0.92	1.07	51	0.346	0.018	0.42	8.08	<0.02	0.04	0.004
STD SF-3T	Standard									0.031	0.782	0.92	1.07	53	0.346	0.017	0.42	8.04	<0.02	0.04	0.004
STD SF-3T	Standard									0.032	0.777	0.94	1.09	51	0.352	0.018	0.43	8.22	<0.02	0.04	0.005
STD SF-3T	Standard									0.032	0.784	0.95	1.11	53	0.351	0.018	0.44	8.21	<0.02	0.04	0.005
STD SF-3T	Standard									0.031	0.771	0.93	1.05	53	0.351	0.018	0.43	8.13	<0.02	0.04	0.004
STD SF-3T	Standard									0.032	0.800	0.95	1.07	54	0.360	0.019	0.44	8.38	<0.02	0.04	0.004
STD SO-18	Standard	301	32	13	25	1.9	99.88														
STD SO-18	Standard	298	32	15	25	1.9	99.84														
STD SQ18	Standard																				
STD SF-3T Expected										0.032	0.7723	0.961	1.0672	52	0.35	0.0181	0.432	8.33	0.004	0.044	0.00475

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	Method	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
	Unit	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
Pulp Duplicates											
816958	Rock	<0.01	<0.01	5.95	0.40	0.017	5.22	6.01	0.01	<0.01	<0.01
REP 816958	QC	<0.01	<0.01	5.92	0.41	0.017	5.16	6.01	0.01	<0.01	<0.01
816912	Rock	<0.01	<0.01	0.03	0.06	0.010	0.05	0.81	0.02	0.27	<0.01
REP 816912	QC	<0.01	<0.01	0.04	0.06	0.009	0.04	0.77	0.03	0.26	<0.01
816906	Rock	<0.01	<0.01	9.40	0.04	0.030	3.38	6.77	0.87	0.02	<0.01
REP 816906	QC	<0.01	<0.01	9.74	0.04	0.029	3.48	7.09	0.90	0.02	<0.01
Reference Materials											
STD CSC	Standard										
STD OREAS76A	Standard										
STD OXH55	Standard										
STD OXH55	Standard										
STD OXH55	Standard										
STD OXK69	Standard										
STD OXK69	Standard										
STD OXK69	Standard										
STD OXP39	Standard										
STD SF-3T	Standard	<0.01	<0.01	4.12	0.06	0.020	4.61	5.30	2.08	2.47	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.15	0.06	0.021	4.65	5.40	2.08	2.49	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.02	0.06	0.020	4.53	5.34	2.04	2.46	<0.01
STD SF-3T	Standard	<0.01	<0.01	3.99	0.05	0.020	4.52	5.27	2.01	2.44	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.07	0.05	0.020	4.63	5.43	2.05	2.43	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.10	0.06	0.021	4.68	5.48	2.08	2.46	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.12	0.06	0.017	4.64	5.32	2.05	2.48	<0.01
STD SF-3T	Standard	<0.01	<0.01	4.21	0.06	0.017	4.72	5.51	2.09	2.53	<0.01
STD SO-18	Standard										
STD SO-18	Standard										
STD SQ18	Standard										
STD SF-3T Expected		0.00111	0.00048	4.1	0.06	0.02074	4.67	5.43	2.06	2.47	0.00043

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		WGHT	M150	G6	G6.ME	G6.ME	G6.ME	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	TotWt	-Au	+150Wt	+Au	TotAu	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		kg	g	gm/mt	g	mg	gm/mt	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.01	1	0.01	0.01	0.005	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected								58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank							<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank			<0.01																	
BLK	Blank				30.00	<0.005															
BLK	Blank				30.00	<0.005															
Prep Wash																					
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Project: None Given
Report Date: September 30, 2008

QUALITY CONTROL REPORT VAN08008297.1

		4A	4A	4A	4A	4A	4A	2A Leco	2A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
		Zr	Y	Nb	Sc	LOI	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%
		5	3	5	1	-5.1	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001
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STD OREAS76A Expected								0.16	18												
STD SO-18 Expected		280	33	21	25																
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G1	Prep Blank	152	18	16	6	1.2	99.94	0.04	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.57	<0.02	0.07	<0.001

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		7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
		Sb	Bi	Ca	P	Cr	Mg	Al	Na	K	W
		%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01
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STD OREAS76A Expected											
STD SO-18 Expected											
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BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
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Appendix D

Report on Investigation of Selected Vein Systems, Shell Creek Property, Yukon

by Derek Thorkelson, Ph.D.

Report on Investigation of Selected Vein Systems, Shell Creek Property, Yukon

by

Derek Thorkelson, PhD

for

Logan Resources

October 31, 2008

---

1. Background

On July 31, 2008, I accompanied Daithi MacGearailt and two other staff of Logan Resources to a rock exposure located on the southwestern part of the Shell Creek claim block, overlooking the Yukon River (approximate UTM: 525177E 7163172N). The purpose was to examine the veins and structures in the mafic volcanic unit which cores the Shell Creek anticline. We were taken to the exposure by helicopter. For the next few hours we examined the outcrops, moving downslope to the south. After examining and recording various features, we hiked uphill to the ridge crest in anticipation of a helicopter pick-up and move to a new location. However, it began to snow heavily as we reached the ridge crest. After deciding that calling in the helicopter would be unsafe, we spent most of the rest of the day hiking eastward, back to the exploration camp. Details of the traverse path and other contextual information are available from Daithi MacGearailt.

For my services, I am charging half a day for fieldwork, plus half a day for the preparation of this report.

2. Location

The *study area* of this report is an extensive exposure located at approximately UTM 525177E 7163172N. The exposure consists of a steep scree slope on which numerous, scattered intact outcrops are present. Several outcrops were examined over an interval of approximately three hours.

3. Geological features and their interpretation

3.1. Host rock.

The study area consists of an extensive exposure consisting of metamorphosed volcanic rocks of mafic to intermediate composition. The meta-volcanics are of lower greenschist grade as indicated by abundant chlorite and epidote. The volcanic rocks are heavily veined in the study area. The composition and characteristics of the veins, and the relative timing of veining and other geological events, are the main topics addressed in this report.

The volcanics at this exposure belong to a larger body of volcanic rock that cores the 'Shell Creek anticline' which plunges to the east and is the dominant structure in the southern part of the claim area. The volcanic rocks are either Cambrian or Neoproterozoic in age, appear to be the oldest rocks in this part of Mackenzie-Ogilvie platform, and may be correlative with the Neoproterozoic Mt. Harper Volcanics to the northeast. Isotopic dating and geochemical characterization are required to provide more certainty on age and identity.

To the east of the study area, the volcanics comprise pillow 'basalt' and related hyaloclastic breccia intercalated with more massive flows. Primary volcanic textures are most visible between the exploration camp and Shell Creek. To the west, the volcanics are more strongly foliated and, in minor fault zones, are locally sheared.

3.2 Veins.

Several discrete vein systems are present in the study area. They include: i) epidote 'veins' and pods; ii) carbonate + quartz veins with local epidote; iii) pyrite-limonite fracture-fillings and disseminations; iv) feldspar +/- quartz veins. The epidote vein set (i) is older than the carbonate + quartz veins (set ii). The feldspar + quartz veins (set iv) are the youngest. The relative age of the pyrite-limonite vein set (iii) is unclear. It could be intermediate between (ii) and (iv), but could range from the oldest to the youngest. With greater scrutiny in the field, the relative age of set would probably determine the relative age of set (iii).

i) Epidote 'veins' and pods. Discontinuous zones of epidote 1-5 cm wide occur in the volcanic rocks. Some are diffuse and others have rather distinct margins. Whether these features are true hydrothermal veins or alteration of host rock is unclear. One possibility is that these features are metamorphosed selvages of volcanic pillows and breccia fragments. Similar features are found throughout much of the volcanic rock in the anticline, and some are clearly related to original primary textures.

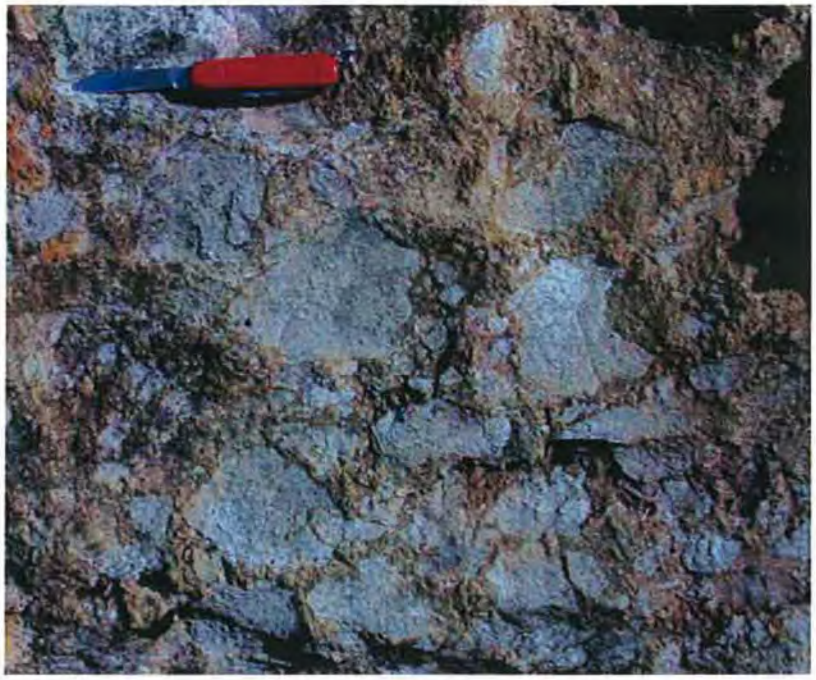

Figure 1. Altered pillow breccia with epidote-rich matrix surrounding chloritized clasts of mafic volcanic rock. Location: approximately 3 km east of study area.

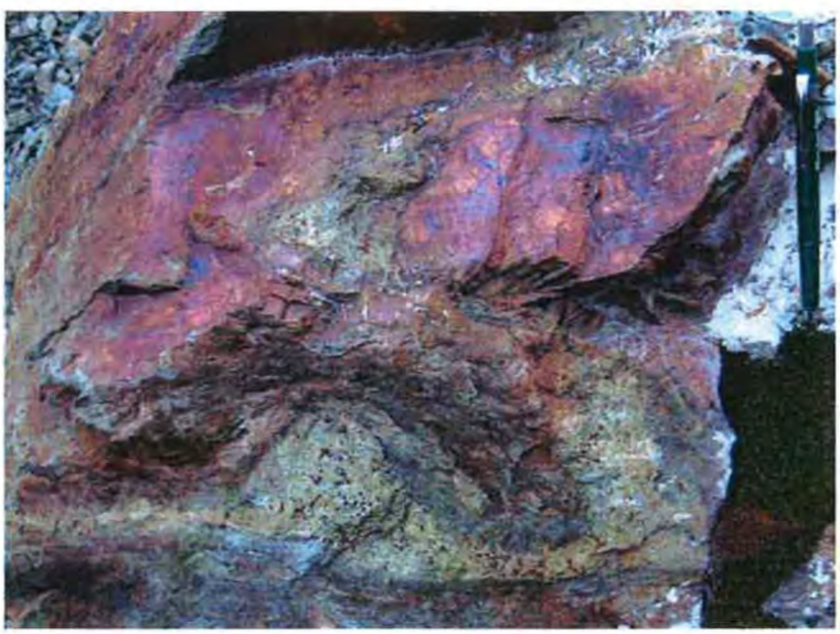

Figure 2. S-fold defined by deformed epidote vein in foliated mafic volcanic rock with patchy limonite staining, study area.

ii) Quartz-carbonate veins, with local epidote margins. This set of veins varies from nearly pure quartz (white) to nearly pure carbonate (white and grey, probably calcite). Epidote lines the margins of some of these veins. Whether quartz and calcite deposition occurred contemporaneously throughout the generation of this vein set is unknown. The veins were dismembered and folded during deformation that affected the metavolcanic host rock. Locally, the deformation caused the veins and host rock to become interfoliated. The quartz component to the veins appears to have behaved brittly while the carbonate flowed ductily. Ambient temperatures at the time of deformation were probably between 300 and 400 degrees C (hot enough to cause calcite to flow but cool enough to allow the quartz to remain brittle; temperatures must have been no higher than that of lower greenschist grade).

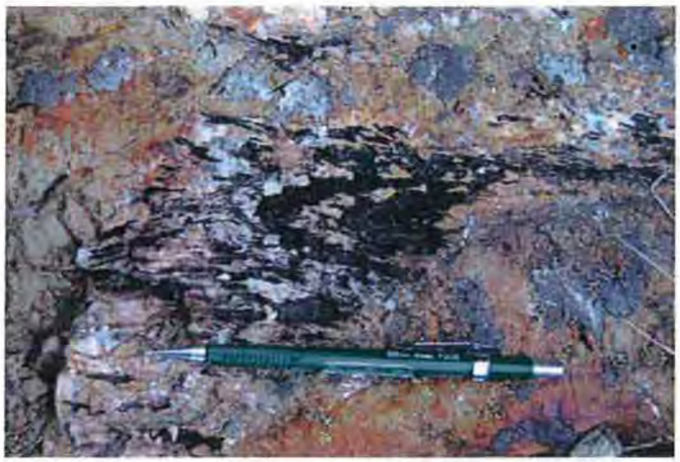

Figure 3. Folded quartz-carbonate vein in altered mafic volcanic rock, study area.

Fig. 4. Deformed calcite veins in mafic volcanic rock with limonite specks, study area.

iii) Pyrite-limonite fracture fillings and disseminations. Rusty patches and layers on the outcrops are present in various places in the study area, particularly toward the south at lower elevations. The staining is caused by oxidation of minute pyrite grains, the relicts of which remain as rusty specks within some limonite-filled fractures. A crude spatial and possibly genetic relationship between these limonitic zones and the feldspar +/- quartz veins seems to exist and should be further investigated. Where the limonitic staining and the feldspar +/- quartz veins occur together, the limonite is mainly restricted to the volcanic clasts. Whether this relationship indicates that the limonitic staining is older and therefore restricted to the clasts, or if the limonite staining is younger and more strongly developed in the clasts because of greater geochemical suitability, is uncertain. Although no copper or other economic mineralization is evident in the study area, it is possible that such mineralization does occur at depth and hence the rusty zones could be targeted for additional sampling and drilling.

Fig. 5. Limonite-stained zone in foliated, mafic volcanic rock, study area. Thickness of zone is approximately 1.5 m.

iv) Feldspar +/- quartz veins. This set of pinkish-white veins may not been recognized, or present, elsewhere on the property. They range in morphology from simple curviplanar veins to a mesh-like network or 'vein breccia' in which the vein material surrounds pebble- and cobble-size clasts of the metavolcanic host rock. These veins are clearly less deformed than the quartz-carbonate veins and were emplaced after the foliation and folding events. The mesh-like network of these veins is likely to have formed by brittle faulting of the host rock under an extensional stress regime. A plausible scenario of formation is normal faulting at relatively cool temperatures (possibly 200-300 degrees C) leading to a zone of breccia surrounded by hydrothermal fluid from which quartz and feldspar were precipitated.

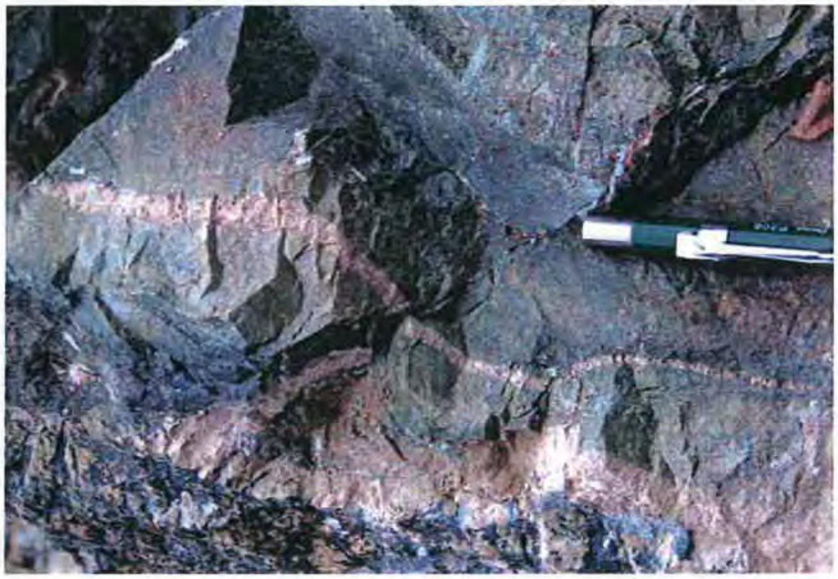

Fig. 6. Pinkish-white feldspar (microcline?)-quartz veins in altered mafic volcanic rock, study area.

Fig. 7. Mesh-network of feldspar-quartz veins developed in foliated, chloritic volcanic clasts, study area. Limonite staining is mainly constrained to clasts. Growth of the limonite (or that of its precursor, disseminated pyrite) appears to pre-date feldspar-quartz veining.

Appendix E

2008 Evaluation & Sampling Program on the Shell Creek Cu-Au Property

By Chris Ash

2008 Evaluation
&
Sampling Program

on the

SHELL CREEK
Au-Cu PROPERTY

NTS 116C/9&10
Yukon, Canada

Dawson Mining District

for

LOGAN RESOURCES LTD. LGR (TSX-V) LGREF (PK-USA)

Suite 1640-1066 West Hastings Street
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Canada V6E 3X1

by

Chris H. Ash

CASH Geological Consulting

Daithi Mac Gearailt & Shane Treacy

Logan Resources Ltd.

December 11, 2008

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Introduction

At the request of Seamus Young the author visited the Shell Creek property over a period of two days in August 2008. The Shell Creek Property is located in east-central Yukon Territory, 75 kilometres northwest of Dawson City, 30 kilometres east of the Alaskan boarder (Figure 1).

Visible gold is relatively common in association with chalcocite in late quartz-carbonate-chlorite (QCC) veins cutting early folded and fractured quartz vein systems. Where these quartz vein systems cut fine, clastic metasedimentary rocks surrounding zones of late quartz veining are variably chloritized and Cu mineralized with chalcocite forming along schistosity surfaces. These systems were briefly evaluated in 2004 under the supervision of the author and involved an 8 day mapping, sampling and trenching program (Ash, 2004).

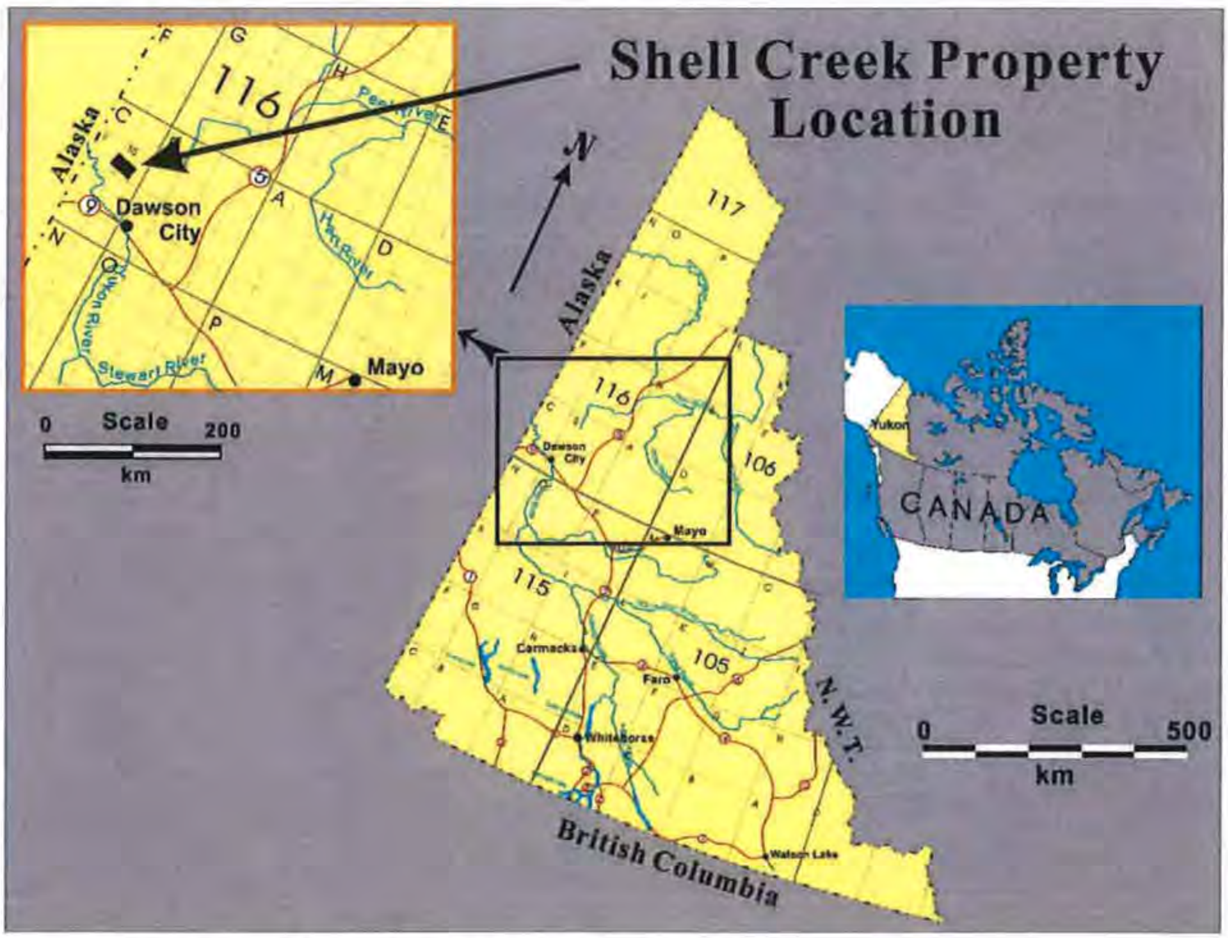


Figure 1. Location of the Shell Creek Property in west central Yukon.

The Shell Creek Property visits had two primary objectives:

1. Demonstrate to Logan Resource staff geologists (Daithi Mac Gearailt and Shane Treacy) and contract geologist (Jean Pautler) the setting and style of Au and Cu mineralization associated with the quartz vein systems.
2. Collect a number of rock samples from both the Au-bearing veins and vein proximal, chloritized Cu-bearing sediments to both reaffirm and also provide further constraints on the metal content of these mineralized systems.

The Shell Creek visit focused on an examination of the 2004 trench area, where the relationship of the vein Cu-Au and vein-marginal sedimentary Cu mineralization are best constrained. Prospecting of quartz float boulders occurring down slope from the 2004 trench to the original discovery VG quartz boulder was successful in identifying three separate boulders with very fine to medium-grained VG which helped demonstrate the setting, style and frequency of VG in these quartz vein systems. One of these boulders demonstrated a relatively higher grade style of vein mineralization that had not been previously recognized and is briefly described.

Some effort was also made to clearly demonstrate that the green chlorite rich rocks proximal to the veins is hydrothermally-altered, fine clastic sedimentary rocks and not a mafic volcanic rock as it has at times been mistaken for, when involving localized cursory examination.

A total of **79** rock grab\chip samples were collected for analysis. These include **24** of QCC vein material and **44** of the chloritized sedimentary rock samples. The results of these analyses are presented and discussed. **Eleven** of the samples collected where to follow up on MMI soil anomalies. The results of these finding are presented elsewhere (Mac Gearailt, 2009 in prep.)

The 2004 analytical data for the Cu in vein-marginal chloritized sediments is compared to the 2008 data as the analytical methods applied in 2004 generated more sensitive detection limits and indicate correlations not detected in the 2008 data set.

Photo 1. In creek bed above VG discovery boulder sampling intensely chloritized sedimentary host rock on large vein boulder. Individuals in photo from left to right are Daithi Mac Gearailt, John Harre (helicopter pilot), Shane Treacy and Jean Pautler.

Regional Geological Setting

The Simba BIF and related gold-quartz vein systems are contained in clastic sedimentary rocks of the Precambrian to Lower Cambrian Hyland Group, which is a component of the Selwyn Basin off-shelf succession. In the property area Hyland Group rocks comprise the lowest tectono-stratigraphic element of the Dawson Thrust Sheet, just along the northern margin of the regionally extensive Tintina Fault Zone.

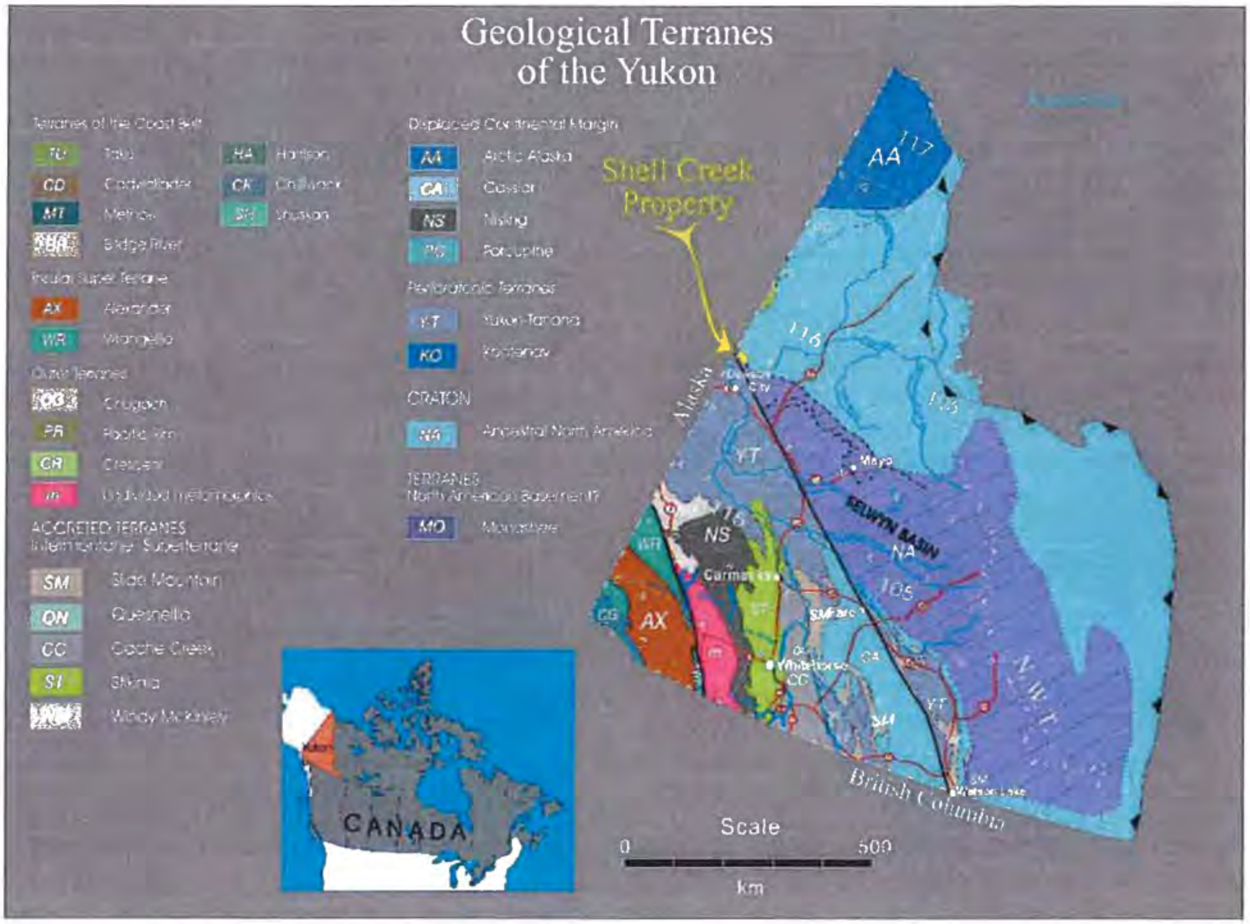


Figure 2. Regional geological setting of the Shell Creek property in east central Yukon.

Property Geology

The area of the property under review and examination includes three primary stratified units (Figures 3 & 4). A basal limestone sequence is overlain by an interval of poorly sorted gritty sandstone. Above the BIF the clastic sedimentary rocks are dominated by inter layered siliceous siltstone and shale with lesser fine sandstone that is host to both the BIF and spatially associated gold-quartz vein systems. The clastic sedimentary rocks are overlain by a succession of mafic volcanic flows and breccias with locally preserved pillow structures.

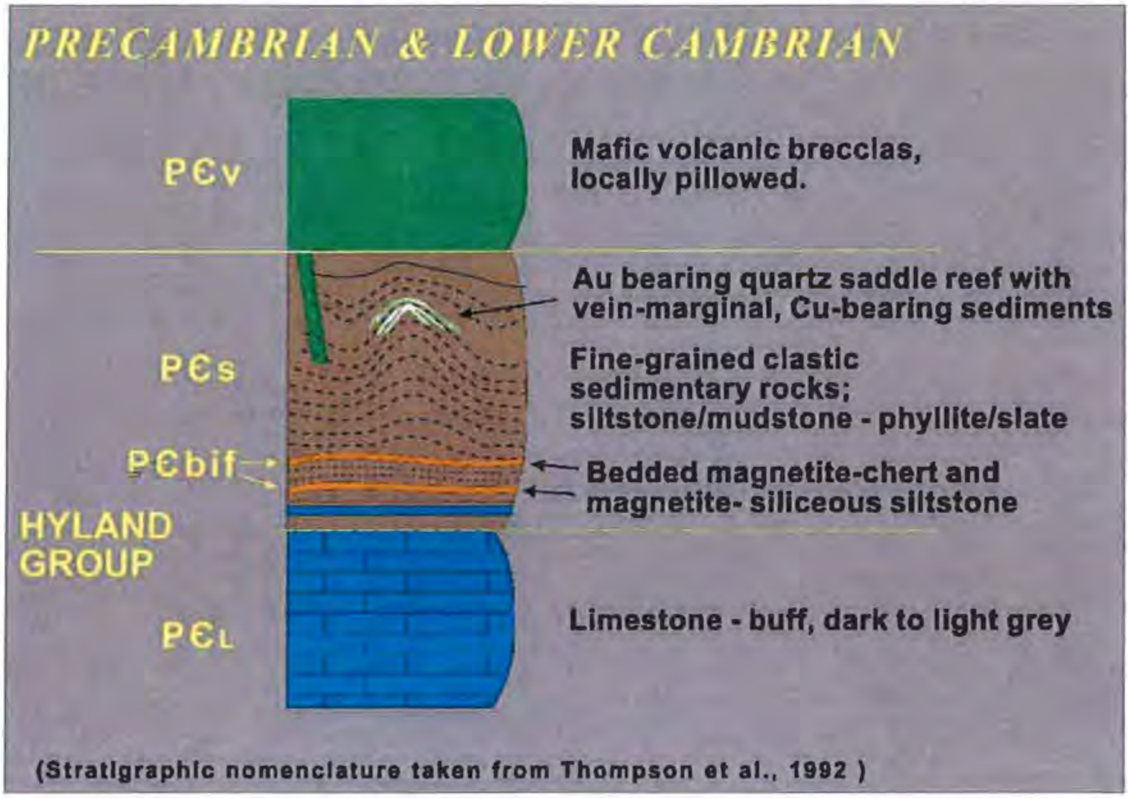


Figure 3. Diagrammatic stratigraphic section for the Shell Creek property geology illustrating the setting of the quartz vein systems. The vertical extent of the system remains to be determined.

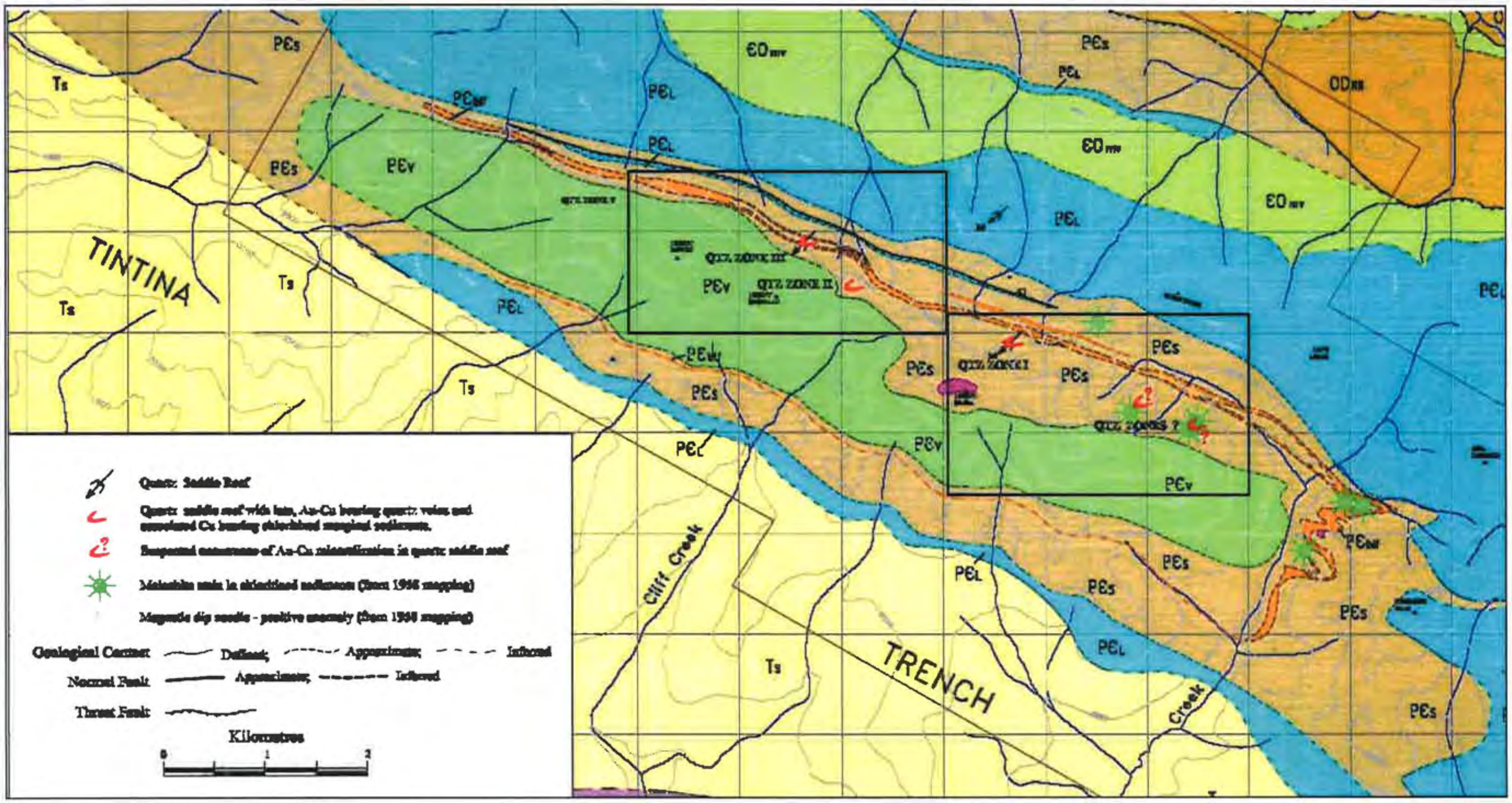


Figure 4. Geology in the area of the Shell Creek BIF illustrating the location of quartz saddle reefs.

Mineralization

Gold and copper at the Shell Creek property are associated with late quartz-carbonate-chlorite (QCC) veins contained in and around early deformed bull quartz veins hosted by fine-grained clastic sedimentary rocks. Host siliceous shales and siltstones proximal to the late QCC veins are often hydrothermally chlorite-carbonate altered, with chalcocite concentrated along cleavage planes. Preliminary work suggests that these vein systems form saddle reef-type fold structures that plunge at shallow angles to the SW.

Within the individual reefs, visible gold (VG) is often associated with chalcocite and lesser bornite that occurs most often as 1 to 3 centimeter patches consisting of concentrated sulphide in thin discontinues fracture fill stringers in early-deformed bull quartz (Photo 2) in close proximity to late-stage, dilation-fill, comb structure QCC veins (Photos 3).

Within these vein systems gold occurs as very fine to medium-grained flakes and blebs that appear as free gold. Most grains of this size are barely visible with the naked eye, but are readily identified with a 10x hand lens. The very fine-grained sized flakes are most common and all gold grains identified to date are either within chalcocite or in quartz at the edges of the chalcocite concentrations.

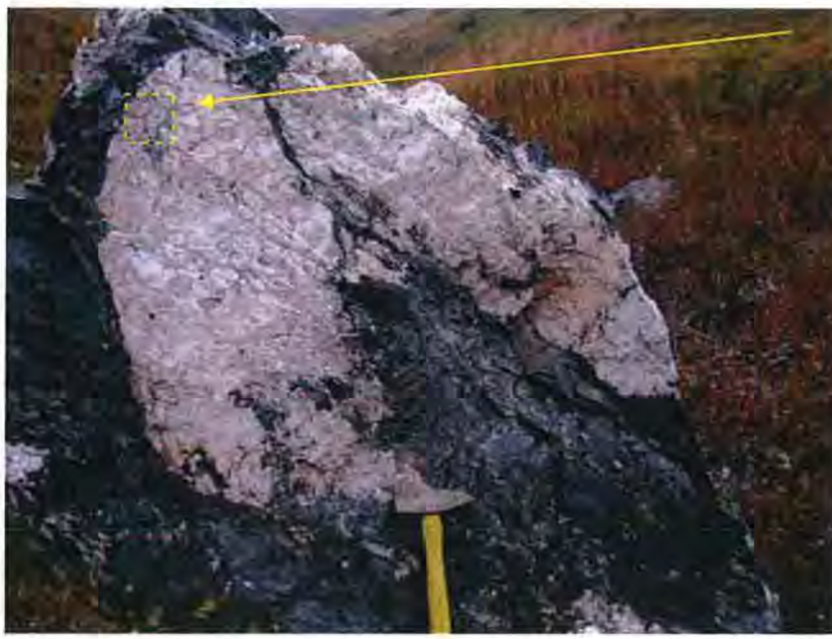
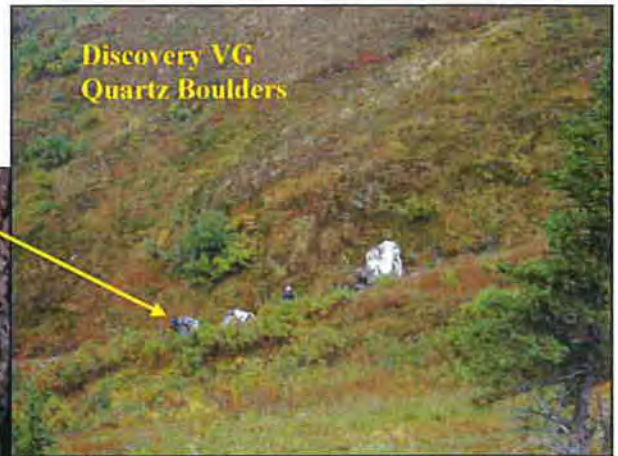
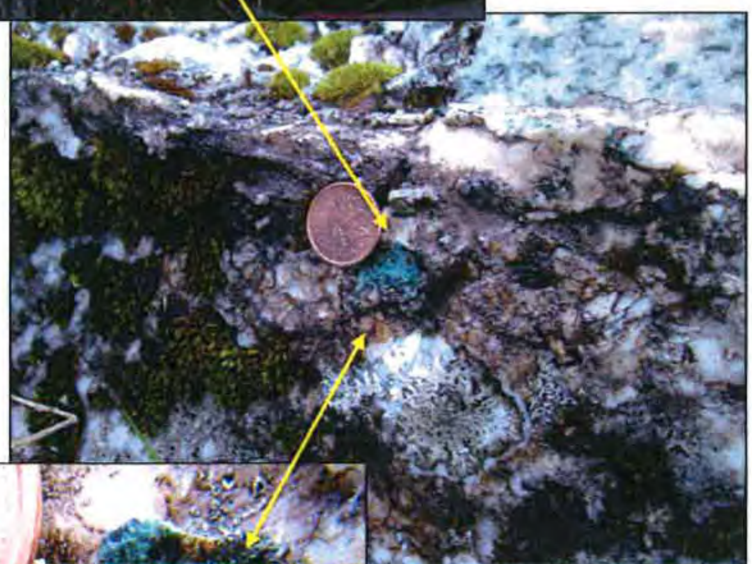


Photo 2b. Chalcocite infilling fracture in early bull quartz

Photo 2a. Folded and fractured early bull quartz with chalcocite formed on fractures

Photo 3. Late dilation fill comb structure quartz vein with VG





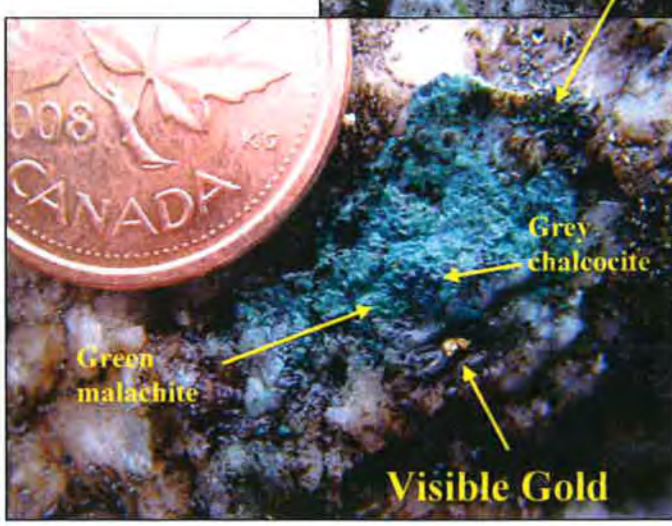


Photo 3b & c. Progressive detailed views Malachite stained chalcocite with VG.

Higher Grade Au-Cu Vein Material

While prospecting quartz float in the down slope boulder train, in an effort to identify examples of visible gold, two angular boulders (0.4-0.7 m in longest dimension) where identified and sampled that contained a style of relatively higher grade chalcocite mineralization not previously recognized (Photo 4). One boulder largely buried by stream gravels, was found several metres up stream from the VG, discovery boulder (Photo 3). A second boulder was identified half way down slope between the 2004 T-trench and the discovery boulder.

Both these samples were uncharacteristically well mineralized with chalcocite and contained readily identifiable VG. When broken into fist size fragments the VG was readily identified in most if not all the samples. Unlike most of the previously identified chalcocite which characteristically occurred as blebs and clots scattered throughout the late QCC veins and proximal, fractured early veins, these two quartz boulders displayed a semi massive internal connectivity of the sulphide, imparting a ghost, coarse net texture with the highest area of sulphide concentration at the junctions of these fracture networks.

Identification of these boulders indicates a new and apparently higher grade style of Cu-Au mineralization forms a part of the quartz vein system. The setting, size\volume or frequency of these distinctive styles of vein mineralization remains unknown.

It is suspected however, that that infiltration of the sulphide bearing fluids may be potentially best developed at the nose of the folded vein structures where dilation and the opportunity for open space development is greatest within the early deformed bull quartz. Such a potentially important relationship for development of relatively higher chalcocite concentrations with higher gold content offers additional untested potential for the mineralized quartz vein system.

Photo 4 Green, malachite on grey chalcocite in early deformed fractured bull quartz.

Quartz Vein Host Rock Protolith (?)

Field relationships demonstrating the progressive development of the hydrothermal overprint within the sedimentary unit on approach to the vein system was reviewed to help resolve the contention that this chlorite-rich, vein-marginal host rock may be of mafic volcanic origin. Progressive increase in the relative volume of altered host rock increases from:

1) preferential replacement along cleavage planes (Photo 5a) to,
2) a rock which is largely undergone hydrothermal replacement, but preserves remnant of the sedimentary host rock (Photo 5b) to
3) one that has undergone complete replacement (Photo 5c).

Photo 5a (top left): dark-green chlorite formed along cleavage planes in clastic sediments.

Photo 5b (top right): Partial replacement of sediment to chlorite-quartz-carbonate schist.

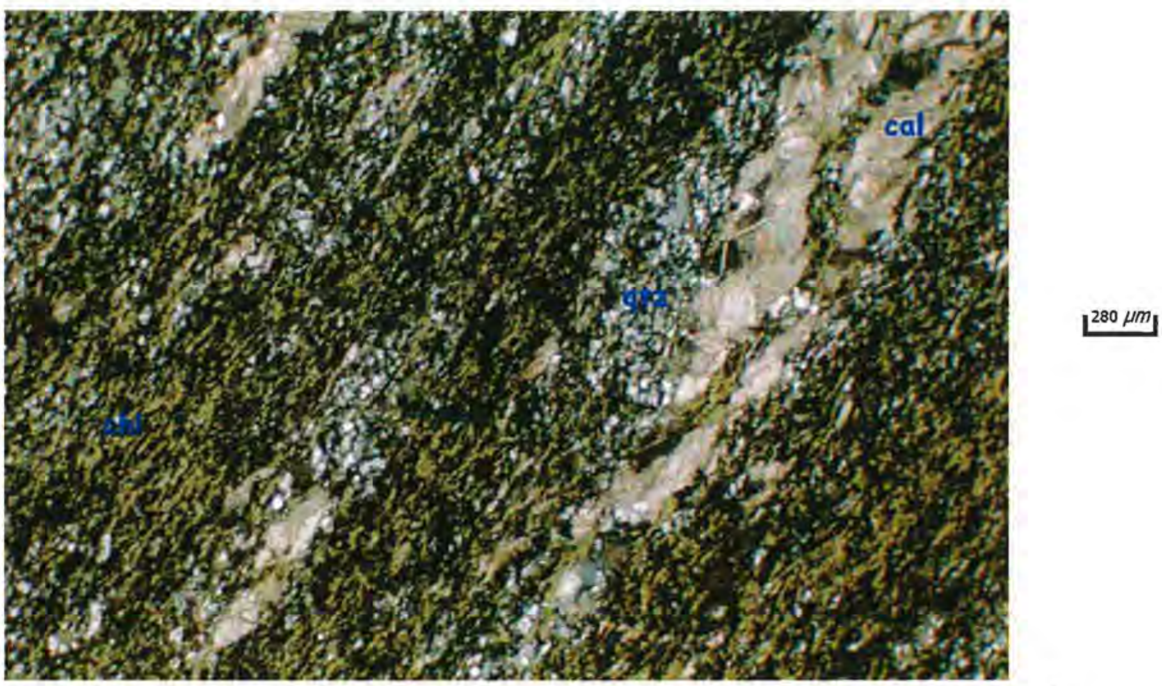
Photo 5c (bottom left) Sedimentary protolith pervasively altered to chlorite- quartz-carbonate schist.

A sample of the later (Photo 5c) was sampled and submitted to Teck Cominco Global Discovery Labs for independent, petrographic thin section analysis. This work was conducted by J.A. McLeod and his reported analysis is reproduced below, including the photomicrograph immediately following it.

Quartz:	40%	Leucoxene:	5%
Chlorite:	35%	Feldspar:	Tr.
Calcite:	20%	Epidote:	Tr.

The rock is seen to have a banded or schistose texture microscopically with seams of dominating minerals forming discontinuous lamellae. The most obvious mineralogical seam is one rich in chlorite with contained turbid, ill formed leucoxene. The chlorite is possibly an alteration or retrograde mineral. Caught up in the chlorite are lenticular seams of calcite from 1 – 2 to several mms in length but rarely wider than a mm. In the groundmass significant angular quartz (very fine – 50 microns) is seemingly strung out in the rock foliation. Rare grains of altered feldspar, often with minor epidote are noted. The rock is likely an argillaceous siltstone that has undergone regional dynamo-thermal metamorphism and subsequent retrograde metamorphism. It is now a calcite-chlorite schist.
A photomicrograph is appended to illustrate mineralogy and texture.

PHOTOMICROGRAPHS: LOGAN RESOURCES - #816919 (V08-0686R)



R08:47331. (816919) Chlorite, calcite and quartz in a foliated rock. Transmitted light, crossed nicols, magnification 25x.

Photo 6. Photomicrograph of vein-marginal, chloritized sediment (after McLeod, 2008). Field evidence for a potential source of the alteration minerals is clearly evident in the vein mineral assemblage which the altered host rocks surround. The photo shown below

vein mineral assemblage which the altered host rocks surround. The photo shown below (Photo 7) is of a large vein boulder to demonstrate the presence of carbonate and chlorite as locally prominent minerals of hydrothermal origin within the vein system. These veins consist of quartz, chlorite and carbonate, consistent with the alteration mineralogy in the surrounding host rock; a straightforward one to one relationship.

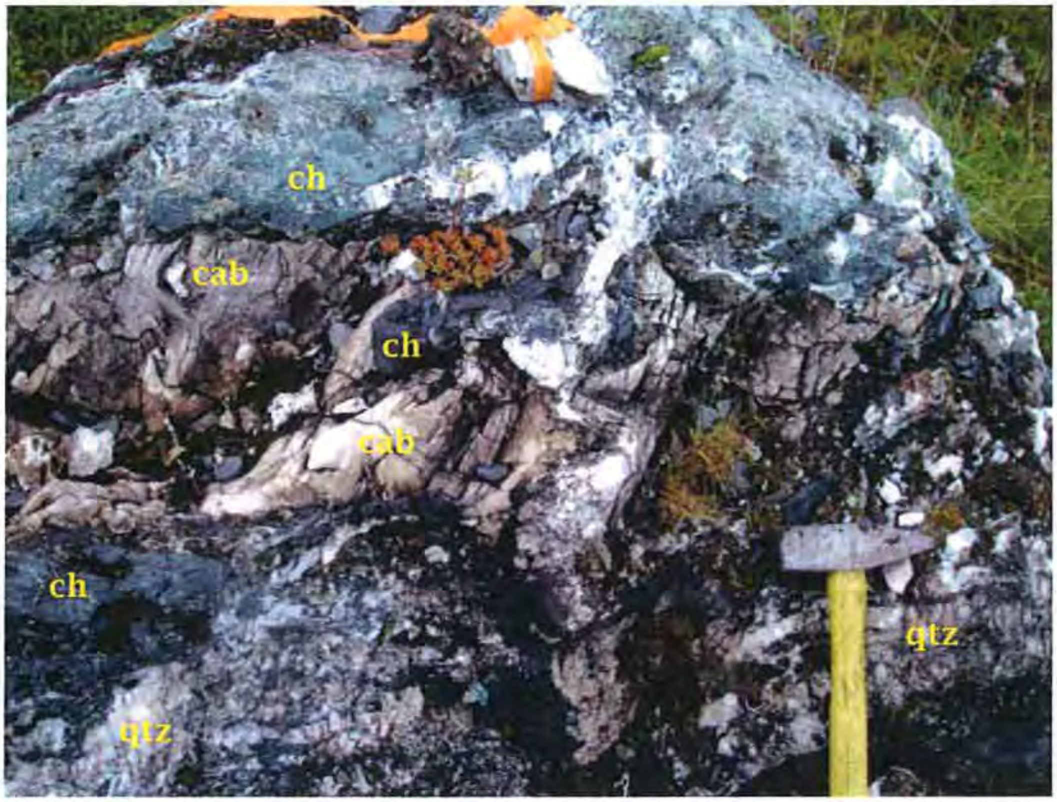


Photo 7. Carbonate-chlorite rich quartz vein boulder

2008 Sampling Program

As the general style and setting of the mineralization in these quartz vein systems had been previously established (Ash, 2004) the 2008 short term sampling program focused on further evaluating the range in grade of base and precious metal mineralization by increasing the assayed sample population.

Sampling focused on an area between the 2004 trench (Photo 4) and the VG discovery quartz boulder in the creek bed several 100 metres to the ENE of the trench. Both the Au-Cu mineralized quartz veins and the Cu-bearing, chloritized, vein-marginal sediments were sampled for assay. The sampling included:

1) Twenty-Two (22) grab\chip samples from random quartz and QCC vein boulders displaying signs of malachite staining and associated chalcocite mineralization. These samples were processed and analyzed by ACME Analytical Labs, Vancouver, B.C. (Certificate # VAN0800829.7) and underwent both:
    a) Fire Assay (metallics) of 30g samples (G6.ME), and
    b) 4 Acid digestion ICP-ES analysis on 0.5g samples (7TD).
2) Two (2) larger quartz vein samples that were subdivided into a number of smaller equally portioned samples. These samples were prepped and analyzed by Assayers Canada Ltd., Vancouver, B.C. (Certificate # 8V-2998-RA1).
3) Forty-four (44) grab\chip samples of chloritized, vein-marginal sediment that underwent 4 Acid digestion ICP-ES analysis on 0.5g samples by ACME Analytical Labs, Vancouver, B.C. (Certificate # VAN0800829.7)

All samples were collected, noted, photographed, bagged and tagged by Logan Resources geologist, Shane Treacy.

Au in quartz veins

As indicated above, quartz vein samples were assayed by two separate venders using different analytical processes. All quartz vein samples were split into fine (-150) and coarse (+150) fractions for separate analyses to help assess potential analytical issues related to the nuggety, free gold being evaluated.

Vein Grab Samples

The results for selected elements of the 22 grab\chip sample analyses are presented in Table 1. These data highlight a number of features. In particular, the direct association of gold with Cu-sulphide mineralization is borne out by the fact that samples with anomalous gold consistently have elevated Cu concentrations. The data does, however also demonstrate that there is no direct correlation between gold grade and copper content, e.g. the highest two Cu analysis are among the more weakly anomalous gold values. This data set show that Ag is consistently more abundant in the

Photo 8b. Close up of 2004 trench

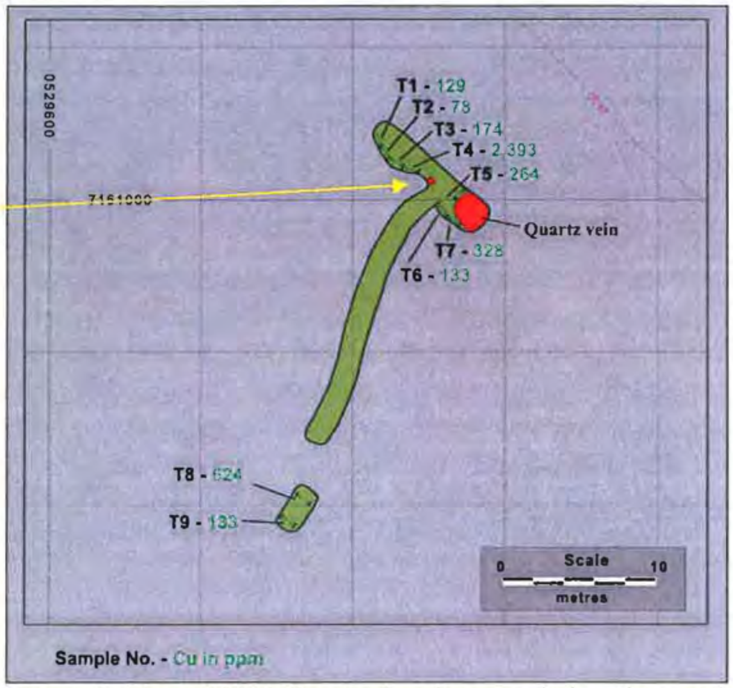


Figure 5. Map of 2004 Trench showing sample locations and Cu abundances

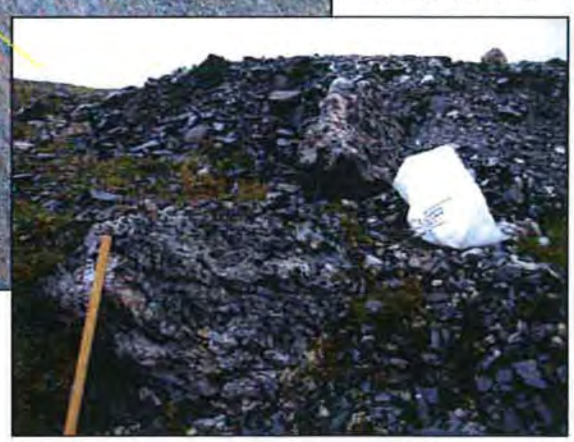


Photo 8c. Quartz subcrop sampled from the NE end of the trench.

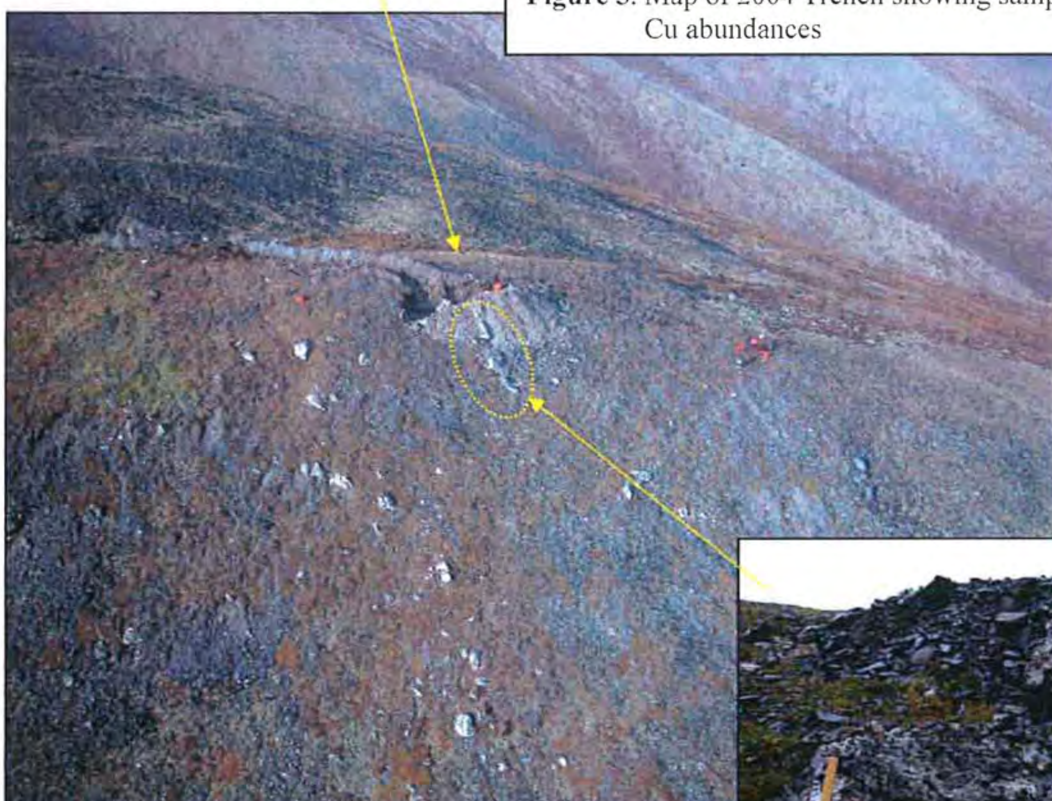
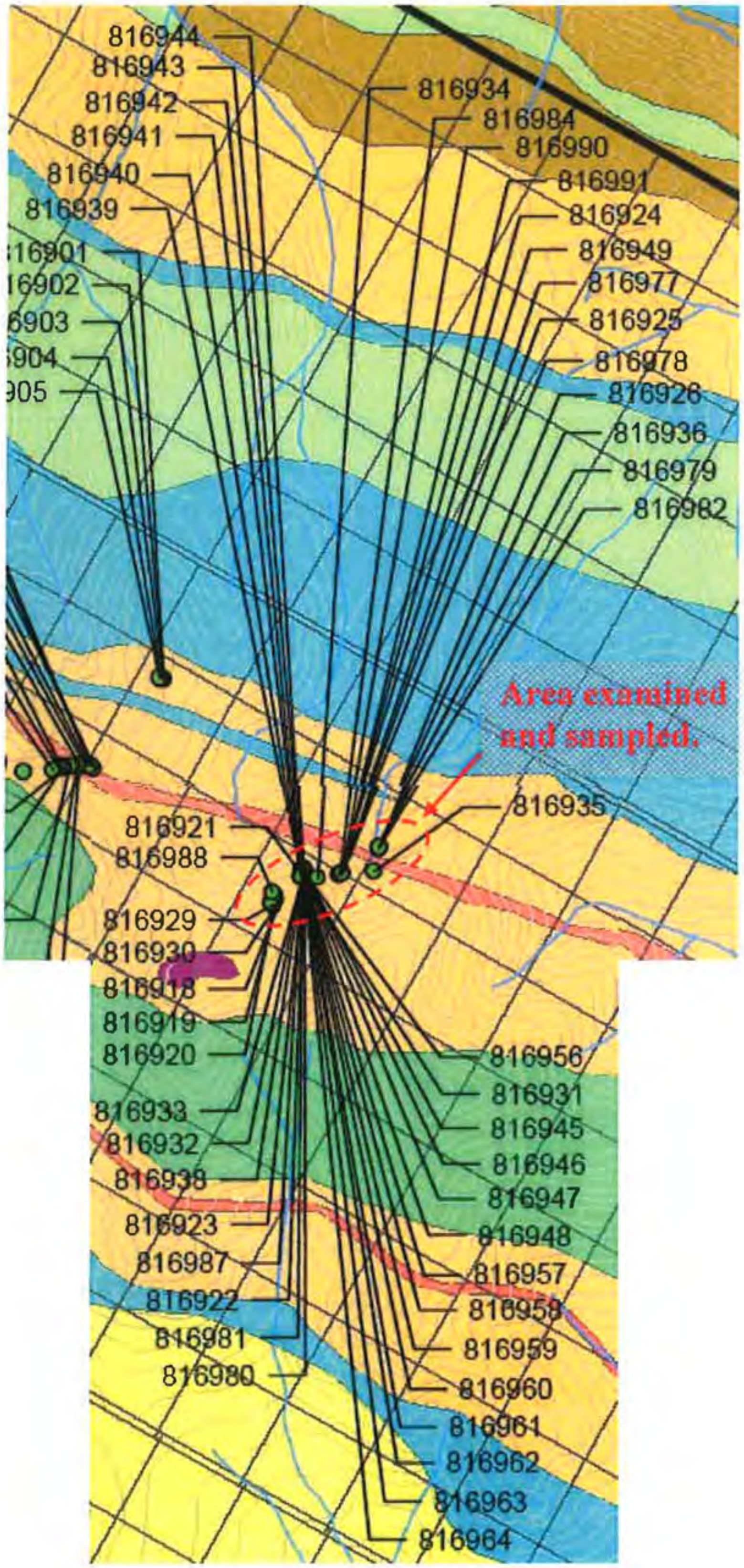


Photo 8a. Trenching on Quartz Zone I exposed several gold bearing quartz veins with vein marginal copper.

Figure 6. Geology of area examined with sample localities indicated (see Figure 3 for location of cropped map area shown)



Apart from **Cu** and **Au**, abundances for most other elements (not shown in Table 1) **Bi** (0.01%) and **Sb** (0.01%), **As** (0.02%), **Sr** (0.01%), **Cd** (0.001%), **W** (0.01%), **Pb** (0.02%), **Zn** (0.01%), **Mo** (0.001%), **Co** (0.001%) are all below the detection levels, as shown in brackets, for the individual elements analyzed, irrespective of the elevated nature of Au and Cu.

Ag at 5 g\t for sample 816937 is the only analysis to show a value above the detection level of 2 g\t. This sample although elevated in Au, at 0.58 g\t is well below the more elevated Au samples at 3 to 4 g\t, which show no associated increase. Controls on associations of elevated silver in the mineralized system remain to be established.

Table 1
Precious & Selected Base Metal
Abundances of Quartz Vein Samples

Sample	Wgt	TotWt	-Au	+150Wt	+Au	TotAu	Ag	Cu
	kg	g	g/t	g	mg	g/t	g/t	%
	0.01	1	0.01	0.01	0.005	0.01	2	0.001
816918	1.04	525	0.24	22.26	<0.005	0.23	<2	**0.660**
816920	0.52	500	<0.01	22.36	<0.005	<0.01	<2	0.011
816924	1.74	460	0.21	18.69	<0.005	0.21	<2	0.045
816925	2.01	502	**1.42**	20.58	**0.622**	**2.60**	<2	**0.402**
816926	2.11	533	**2.64**	22.96	**0.911**	**4.24**	<2	**0.230**
816928	1.35	594	0.03	24.97	<0.005	0.03	<2	**0.168**
816929	1.02	526	<0.01	19.29	<0.005	<0.01	<2	0.002
816930	1.35	598	<0.01	25.26	<0.005	<0.01	<2	0.002
816932	1.51	540	0.13	25.17	<0.005	0.12	<2	**0.274**
816933	1.49	553	0.03	19.50	<0.005	0.03	<2	0.055
816934	0.91	464	0.03	23.41	<0.005	0.03	<2	0.068
816937	1.75	445	0.31	19.21	0.122	0.58	**5**	**1.861**
816909	2.06	488	0.20	21.63	<0.005	0.19	<2	0.056
816977	1.39	536	**1.87**	25.84	**1.479**	**4.54**	<2	**0.337**
816978	1.64	428	**1.29**	24.23	**0.734**	**2.93**	<2	**0.240**
816979	10 samples **Table 2**			Larger samples split into relatively				
816980	20 samples **Table 3**			equal portions & assayed separately				
816981	0.66	433	0.11	20.35	<0.005	0.1	<2	**0.205**
816982	2.08	512	0.49	18.81	0.350	**1.16**	<2	0.096
816983	1.12	526	0.02	24.04	<0.005	0.02	<2	**0.118**
816984	0.94	527	0.30	26.42	0.111	0.49	<2	0.018
816988	1.17	561	0.10	26.10	0.087	0.25	<2	**0.246**
816990	2.38	555	**1.36**	29.83	**0.702**	**2.55**	<2	**0.348**
816991	1.88	486	**1.84**	20.06	**0.608**	**3.02**	<2	**0.351**

Certificate VAN08008297.1 ACME Analytical Labs, Vancouver, BC
Wgt & **Wt** = weight; **Tot** = Total

Larger Subdivided Quartz Vein Assay Samples

For two of the quartz vein samples reported on following, larger amounts of vein material were collected for assay and treated differently with respect to analytical procedure and vendor used to conduct the analyses. The second vendor was used due to their ability to process and analyze much larger samples and was considered necessary to assess potential analytical issues related to the style of free gold present and the associated 'nugget effect' created. The combined large sample was subdivided into equally portioned amounts. Each of these individual samples were processed and fine and coarse fractions (+ & - 150 mesh), separated and analyzed separately for Au.

1. A large sample (#816979) of well mineralized quartz vein material was obtained from a boulder found partially buried in the creek bed, several meters upslope from the original VG discovery boulder (Photo 3). The rock contained up to several percent chalcocite with obvious visible gold noted in several of the sample fragments. The results of these analyses are shown in Table 2.

2. A very large sample (#816980) combining roughly 150 lbs (68 kg) of fragments from mixed early and late quartz vein material collected from two vein boulders situated at the immediate down slope edge at the NE end of the 2004 trench (Photo 8a, c & 9). The quartz boulders appear to be sub crop from one of the quartz veins exposed in the trench (Photo 8a, with corresponding vein indicated on trench map). The sample was obtained using a 10 lb sledge hammer and required considerably more effort than anticipated. Small areas of patchy malachite stain was a characteristic feature of this vein material, however no concentrated chalcocite or VG was identified. The results of these analyses are shown in Table 3.

Discussion of Assay Results

Sample # 816979

Analysis of the coarser sample fractions for this sample suggests a rough average of 2g\t for that specific vein portion sampled.

These data show that the coarser fractions (+ 150) are consistently enriched relative to the finer (-150) size fractions. There is marked consistency in the range of gold content for the -150 fractions for all the samples between 0.20 to 0.30 g\t Au, irrespective of the gold content detected in the coarser fraction of the same sample. These relationships clearly support the observed style of very fine to medium-grained, free gold commonly identified in the quartz veins. This relationship also highlights the need for some assessment to determine an appropriate size fraction and analytical procedures required to ensure that future analysis is adequate at capturing coarser, nuggety gold fraction to more accurately constrain gold content of the mineralized system.

Sample # 816980

This sample was not particularly well mineralized with respect to measured gold content (Table 3). These analyses do show that the only elevated values are identified in the +150 fraction, less pronounced but a similar relationship to that identified in sample 816979. It also shows a relatively restricted value for the -150 fraction with most at 0.04 g\t, which are higher than the bulk of the +150 samples, where they are not anomalous. The reasons for this relationship are not entirely clear, but appear to suggest that there may be a second style of gold mineralization, possibly at the microscopic scale and tied up with the sulphide. Detailed study of the mineralization would be required to establish this.

Table 2
Au in splits from larger Quartz Vein Sample

Sample Number	**Au** (-150) g/t	**Au** (+150) g/t
816979	0.29	**2.07**
816979	0.24	**1.78**
816979	0.28	**0.95**
816979	0.20	**1.40**
816979	0.20	**1.78**
816979	0.27	**2.28**
816979	0.22	**0.92**
816979	0.24	**2.35**
816979	0.24	?
816979	0.33	?
*0211	2.09	2.19
*BLANK	<0.01	<0.01

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Table 3
Au in splits from larger Quartz Vein Samples

Sample Number	(-150) **Au** g/t	(+150) **Au** g/t
816980	0.04	0.01
816980	0.04	0.01
816980	0.06	0.01
816980	0.04	0.01
816980	0.04	0.08
816980	0.04	0.01
816980	0.04	**0.12**
816980	0.04	0.01
816980	0.04	**0.32**
816980	0.03	0.01
816980	0.04	0.01
816980	0.03	0.01
816980	0.04	0.01
816980	0.04	**0.12**
816980	0.02	0.01
816980	0.04	0.01
816980	0.03	**0.16**
816980	0.04	0.01
816980	0.04	0.01
816980	0.03	0.01
*0211	2.19	2.20
*BLANK	<0.01	<0.01

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Assay Results for Cu in Vein Marginal Chloritized Sediments

The 34 samples of chloritized, vein-marginal sediment collected for assay included both:

1) A series of rock chips from outcrop\subcrop roughly equidistant intervals along the upslope side of the NW trending portion of the trench previously sampled for assay in 2004 (Photos 4a, b & 7 and area indicated as T1 to T7 in Figure 5), and
2) Highly chloritized sedimentary rocks forming part of the larger quartz boulders randomly identified across the area examined. These samples were collected to help provide some indication of the more intensely altered sedimentary host rock expected to be more prevalent at the core of the mineralized vein system.

The reported results (Table 4) indicate that the majority of the anomalous samples (7 of the 44) contain Cu in the range of 0.14 to 2.5%. Three of the more highly anomalous samples are in the range of 0.4-0.6% Cu.

As a matter of course, assay samples collected are photographed prior to being bagged and sealed. Several of these samples for which Cu content has been determined (Table 4) are illustrated (Photo 11).

Silver (Ag) at 4 and 5g for two of the samples is significant. At detection levels of <2g, it is possible that other anomalous values may be present but are not evident at the 2g threshold. The sample with the reported 4g Ag has the highest concentration for copper at 0.63% for all the samples; however the higher 5g sample contains only 0.17% ruling out any sort of correlation indicating higher Ag grades are associated with higher Cu grades, at least for the limited data set available. It is however likely that elevated Ag would require some level of anomalous sulphide development to be detected. The setting of the silver within this mineralized system remains to be established.

Photo 10a (below): Sampling of chloritized Cu-bearing sediments from 2004 trench

Photo 10b (top right): Malachite stained, vein-marginal sediments

Photo 10c (bottom right): Intensely chloritized sediment above QCC vein.

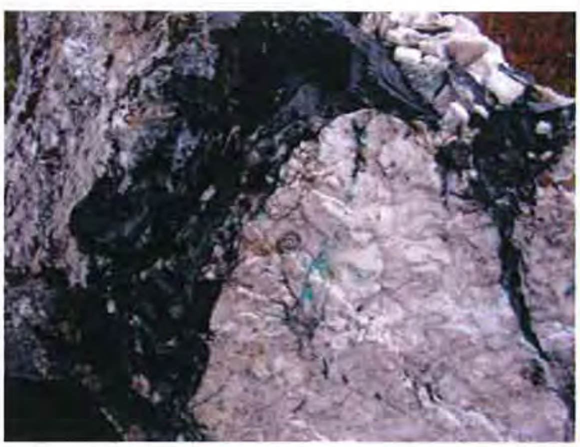

Photo 10c (bottom right): Intensely chloritized sediment above QCC vein

Logan Resources Ltd. LGR (TSX-V)
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Table 4.
Assay Results for Selected Base & Precious Metals - Chloritized Sediments

Sample	Wgt KG 0.01	Cu % 0.001	Ag g/t 2	Mo % 0.001	Pb % 0.02	Zn % 0.01	As % 0.02	Cd % 0.001	Sb % 0.01	Bi % 0.01
816913	0.72	0.008	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816914	0.96	0.004	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816915	0.80	0.006	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816916	1.10	0.007	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816917	0.89	0.013	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816921	1.74	**0.393**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816922	1.10	**0.506**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816923	1.69	0.013	<2	0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816927	1.53	**0.225**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816931	1.07	0.015	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816935	1.46	**0.174**	**5**	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816936	1.53	**0.231**	2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816938	3.24	0.016	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816939	0.70	0.009	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816940	3.78	0.021	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816941	1.03	0.016	2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816942	1.22	0.007	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816943	1.63	**0.146**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816944	1.16	**0.143**	2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816945	1.91	0.011	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
816946	0.69	**0.629**	**4**	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816947	0.57	**0.141**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816948	1.16	0.009	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816949	0.32	0.001	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816956	4.05	0.010	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816957	2.74	0.014	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816958	1.08	0.007	2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816959	1.62	0.012	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
816960	1.12	0.007	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
816961	1.19	0.009	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816962	0.15	0.009	<2	<0.001	<0.02	0.04	<0.02	<0.001	<0.01	<0.01
816963	0.74	0.014	<2	<0.001	<0.02	0.03	<0.02	<0.001	<0.01	<0.01
816964	1.18	0.013	<2	<0.001	<0.02	0.04	<0.02	<0.001	<0.01	<0.01
816987	2.16	**0.219**	<2	<0.001	<0.02	0.02	<0.02	<0.001	<0.01	<0.01
817051	2.00	0.008	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817052	1.89	0.006	3	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817053	0.93	0.008	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817054	1.76	0.010	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817055	2.26	0.011	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817056	1.25	0.006	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817057	1.67	0.011	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01
817058	1.95	0.004	<2	<0.001	<0.02	0.01	<0.02	<0.001	<0.01	<0.01
817059	3.77	0.008	<2	<0.001	<0.02	<0.01	<0.02	<0.001	<0.01	<0.01

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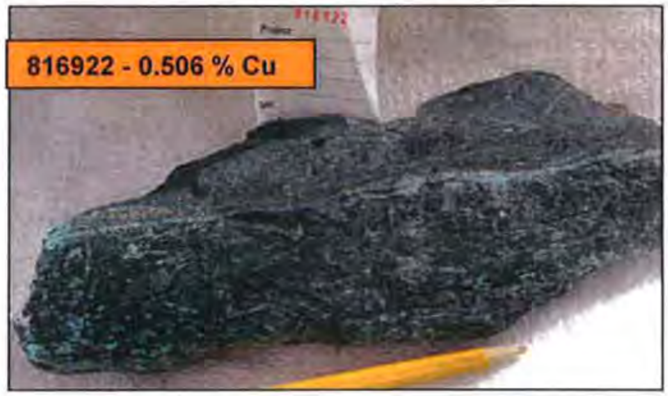

Photos 11. Selected examples of assay samples of chloritized sediment with elevated copper (Cu) reported in Table 4.

Table 5
2004 Trench Assay Samples
of Chlorite Alterd Sediments

SAMPLE	Au	Ag	Cu	Mo	Pb	Zn	As	Sb	Bi
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	<.5	<.1	0.4	0.1	0.1	<1	<.5	<.1	<.1
CAS04-T1	0.9	<.1	129.4	0.5	6.3	171	1.8	0.1	0.2
CAS04-T2	<.5	<.1	77.9	0.2	6.5	126	1.4	0.1	0.2
CAS04-T3	0.6	<.1	173.8	0.6	6.7	133	1.6	0.2	0.2
CAS04-T4	16	0.7	2,392.5	0.2	5.6	188	1.9	0.4	0.7
CAS04-T5	13.5	0.1	264.3	0.2	6.4	242	1.8	<.1	0.2
CAS04-T6	4.9	0.1	132.7	0.2	7.2	161	1.6	<.1	0.2
CAS04-T7	6.7	0.1	327.5	0.4	4.6	199	1.5	0.1	0.2
CAS04-T8	10.3	0.2	624.1	0.3	6.5	179	2.2	0.1	0.4
CAS04-T9	1.7	<.1	83.4	0.6	7.4	136	1.8	0.1	0.2

Acme file # A406034 (Sept 24 -2004) Analysis: GROUP 1DX - 15.0 GM

The 2004 data showed elevated copper for all the samples analyzed. Only one of these samples showed a measurable anomaly at 0.24% Cu for the vein-marginal, hydrothermally altered sedimentary rocks.

The higher detection limit for the 2004 sample set also show that in addition to Cu, Zn is also elevated (100 to 200+ ppm range) for all the samples. There is however, no relative increase in the abundance of Zn corresponding to significant increases in copper. This relationship is born out by both the 2004 and 2008 data sets.

Unlike the 2008 samples, the 2004 samples of chloritized, vein-marginal sediment collected also included gold (Au) in the analysis (Table 5). It was on the basis of the negligible Au for all the samples assayed in 2004 that Au was not included in the 2008 analysis of the chloritized vein-marginal sediments.

It must be noted however, that larger sample sizes with coarse and fine fractions could be applied to this unit to ensure that there is not some aspect of coarse, free gold associated with it that has been overlooked. One can never ignore the adage that "*gold is where you find it*".

It is considered more likely however, as it is virtually the case for all gold-bearing deposits with relatively coarse, visible, free gold that such gold (Au) is contained in quartz.

SUMMARY

At least two and possibly more deformed quartz saddle reefs on the Shell Creek property are cut by late-stage quartz-carbonate-chlorite (QCC) veins that contain and introduce Cu-sulphide mineralization with fine to medium-grained visible gold (VG).

The 2008 field program was successful in:

1) Demonstrating the setting and style of visible gold within this copper bearing vein systems. Specifically, the identification of free gold in 3 separate samples of vein material found in float, for the area examined, helped demonstrate the frequency of free gold in the system.
2) Identifying a new and relatively high-grade style of Cu-Au mineralization developed in early fractured bull quartz proximal to late stage QCC veins.
3) Identifying an issue with analytical procedures which should be evaluated further to establish methods that accurately assess gold content. This feature is highlighted by the marked discrepancy between the two analytical methods applied. In the ACME data set the -150 fraction is consistently higher in gold content than the +150 fraction which is the opposite relationship reported for samples assayed by Assayers Canada in which the +150 fraction is consistently higher.

Based on:

1) The relatively common occurrence of visible gold in quartz float that forms aprons down slope from at least two vein systems that have been defined to date,
2) The potential size of these quartz vein systems and the current lack of any relevant data to constrain the scale, frequency or continuity of the gold rich zones within them, and
3) The very limited area for only one of the potentially Cu-Au mineralized vein system that has been exposed and evaluated to date the following approach is recommended.

Recommendations

Any exploration program employed to further assess the gold potential of these quartz vein systems should focus firstly on identifying and exposing potential surface concentrations of Cu-sulphide mineralization.

A geophysical program using a detailed induced polarization (IP) survey to isolate concentrated zones of late stage veins within the individual vein systems, followed by a trenching program sufficient to provide exposed sections across the width of the mineralized structure focusing on IP anomalous zones.

Once the zones of mineralization have been established a drilling program is recommended that uses vertical to near vertical drill holes to test the persistence and continuity (i.e. overall geometry) of the quartz structures with depth as well as the

presentence and Cu content of intervening chloritized sediment would be of considerable value in assessing the mineralized systems.

Comparison with other Au and Cu Deposits

Frequency of VG in Quartz Vein Float

Although the gold-quartz veins at Shell Creek display features that are more likely analogous to saddle reef, versus gold-quartz vein deposits, on a comparative basis the persistence of VG at Shell Creek is notable. The lead author of this report has conducted mapping and mineral deposits research in most of the major gold-quartz lode (e.g. Bralorne Mine, Cassiar - Erickson Mine, Rossland - IXL & Midnight Mines) and significant placer gold camps (Klondike, Barkerville, Atlin) in the Canadian Cordillera. During the course of this work rich pockets of lode gold or significant placer recoveries have on occasion been witnessed but the frequency of identify visible gold in quartz veins has in no way compared to the frequent identification of VG at Shell Creek.

Cu grades at 0.25 to 0.4%

Although not particularly analogous, either genetically or with regard to available info-structure, the Gibraltar Mine in south-central BC has produced copper at mining grades of 0.1 to 0.3% Cu for close to 30 years. Gibraltar is possibly best described as a primary Cu-Mo porphyry deposit in which copper mineralization has been enriched\upgraded along younger shear zones hosting Cu-bearing quartz veins.
Beyond its genetic differences the deposit does demonstrate a situation in which Cu grades comparative to those identified at Shell Creek are minable. As to whether or not comparative volumes of potential minable ore exist at the Shell is a question that remains to be established. The potential scale of the system, however suggests there is no reason why it could not be. More significant and in positive contrast too Gibraltar, where Cu production is supplemented by Mo, the Shell Creek Deposit (?) would be supplemented by Au should appreciable minable volumes exist.

References

Ash, C.H. (2004): Quartz saddle reefs with visible gold and vein marginal Cu (chalcocite) mineralization are associated with the Shell Creek banded iron formation (BIF); In house report for Logan Resources, 12 p.

Appendix F

Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon

by Daithi Mac Gearailt

Appendix G

Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on the Shell Creek Property of Logan Resources Ltd.

Prepared By: Mount Morgan Resources Ltd.

Appendix F

Report on Investigation of Selected Uranium Anomalies, Shell Creek Property, Yukon

by Daithi Mac Gearailt

LOGAN RESOURCES LTD.

Report on Investigation of Selected uranium anomalies, Shell Creek Property, Yukon

A FIVE DAY INVESTIGATION, BY DAITHI MAC GEARAILT.

DAITHI MAC GEARAILT
2/1/2009

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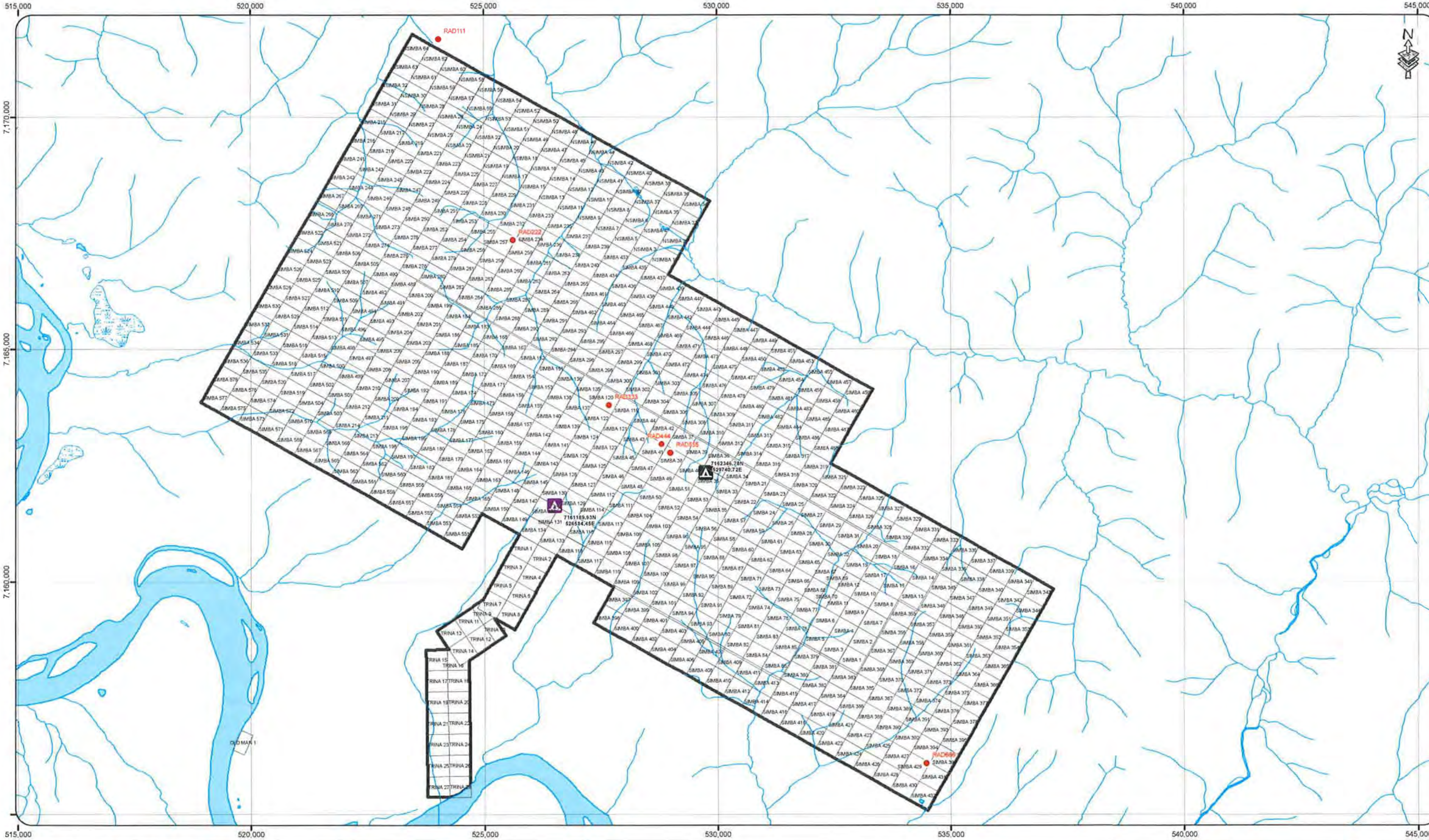
SHELL CREEK RADIOMETRIC REPORT (2008)

In 2008 a four day investigation of six areas that displayed anomalous uranium values from the 2007 airborne magnetic and radiometric survey was conducted by Logan Resources staff geologist Daithi Mac Gearailt. Figure 1 shows a map with the locations of the anomalous areas and Table 1, gives their exact UTM coordinates. Figure 2 shows the radiometric map of Shell creek from which the locations were determined.

SHELL CREEK RADIOMETRIC ANOMALIES		
NAME	UTM-X NAD 83	UTM-Y NAD83
RAD_111	524,030	7,171,681
RAD_222	525,618	7,167,346
RAD_333	527,669	7,163,792
RAD_444	528,796	7,162,953
RAD_555	528,979	7,162,768
RAD_666	534,483	7,156,103

Table 1: NAME AND COORDINATES OF ANOMALIES



Shell Creek Claims

Anomalous Uranium

LOGAN RESOURCES LTD

- 2007 Radiometric Uranium Anomalies
- Yukon Mineral Claims
- Existing Campsite
- Proposed Camp Site
- Wetlands
- Lakes
- Shell Creek Claim Block

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

RAD_111

Rad_111 is located to the northwest corner of the Shell Creek property, just outside the claim boundary. The area has good exposures of slightly oxidised quartzite. The exact coordinate of the anomaly lies between two of these outcrops, RAD_111_C1, (see fig 3) and RAD_111_C2, (see fig 4). A sample of the quartzite float from the exact location was taken and sent to Acme labs in Vancouver for ? analysis. Results from the analysis are in appendix 1.

Rad_111_C1

This is a small knoll of fine to medium grained quartzite which contains a large amount of disseminated pyrite. The area has some good rock exposure. It appears that there is some possible bedding at this location (Fig 3.), which could be important if the source of the Uranium is detrital and not from some other source i.e. Hydrothermal. The area reads roughly 439 counts per minute (C/M), and when assayed in the field using a GR-135G Identifier, hand held scintillometer readings of up to 9.9 ppm uranium were achieved. The bedding is roughly bearing 160° with a dip of 80° to the northeast.

Figure 3: RAD_111_C1 (LOOKING EAST)

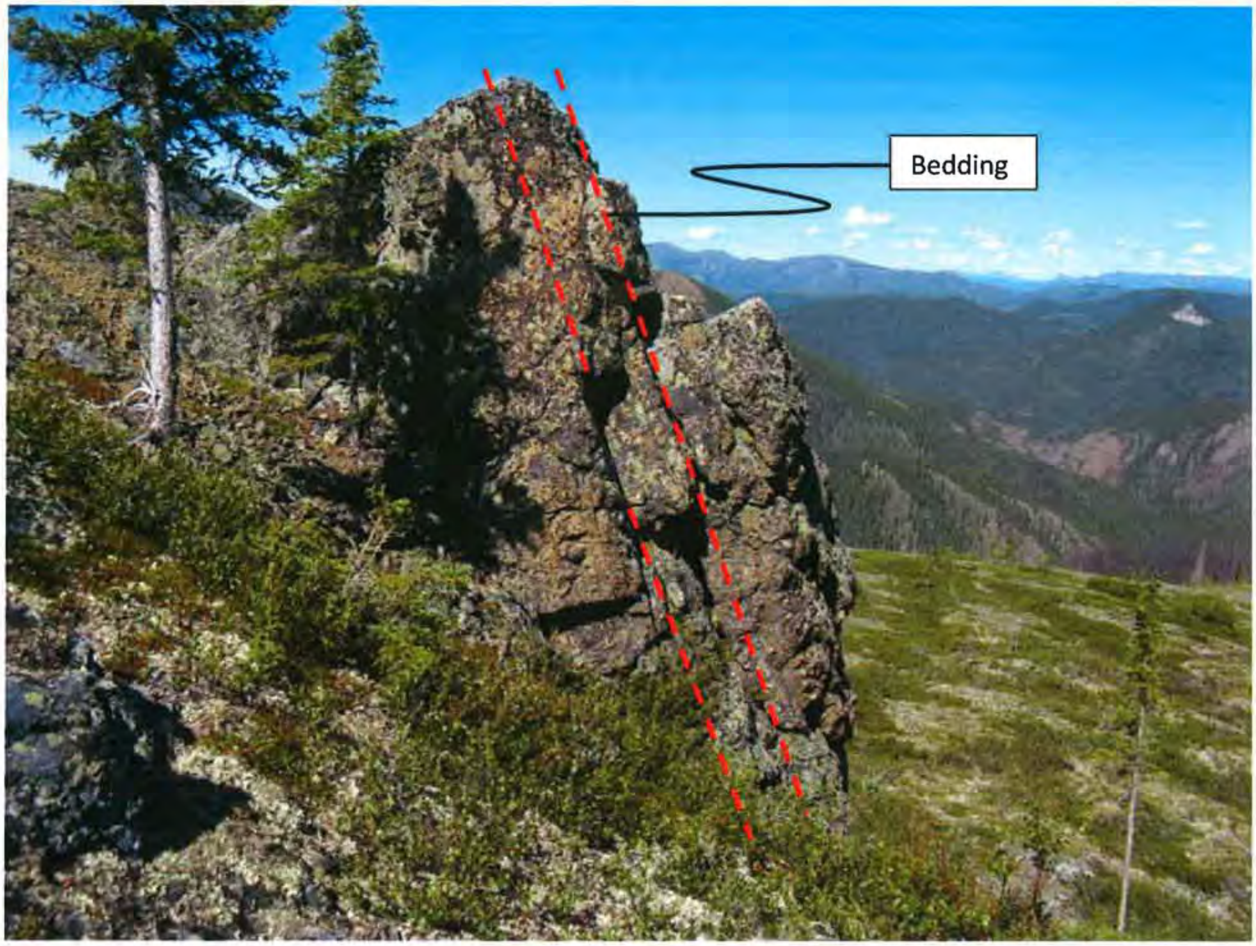


Figure 4: RAD_111_C1. WITH BEDDING, LOOKING SOUTH

The full results of the field assay with the hand held scintillometer are in Table 2 below.

	PPM	CPM
TOTAL	39	1499
POTASSIUM	7.7%	321
URANIUM	9.9b	77
THORIUM	32.1	27

Table 2: SCINTILLOMETER READINGS FOR RAD_111_C1.

RAD_111_C2

Figure 5: RAD_111_C2. LOOKING WEST

The quartzite here was a slightly more sheared and blocky compared to RAD_111_C1. It still displayed the same oxidized and rusty coloured pebbly quartzite as seen at C1.

This area gave a reading of 460 C/M and the full results of the field assay with the hand held scintillometer are in Table 3, below.

	PPM	CPM
TOTAL	38.9	1497
POTTASIUM	7.9%	324
URANIUM	10.7	73
THORIUM	27.5	23

Table 3: SCINTILLOMETER READINGS FOR RAD_111_C2

Rad_111_C3

This is the exact location of the radiometric anomaly (524031/7171681). This location is directly between both of the oxidized quartzite outcroppings. There is no outcrop at this location and the area appears to somewhat slumped. The scintillometer read 265 C/M at this location. A sample of Quartzite float was taken from here and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

RAD_222

Topographically this area is a small hill (See Fig 6), that has no exposure and is covered with moss and lichen with some stunted spruce around it. Three small trial pits revealed slightly silicified black organic shale. A sample was taken and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

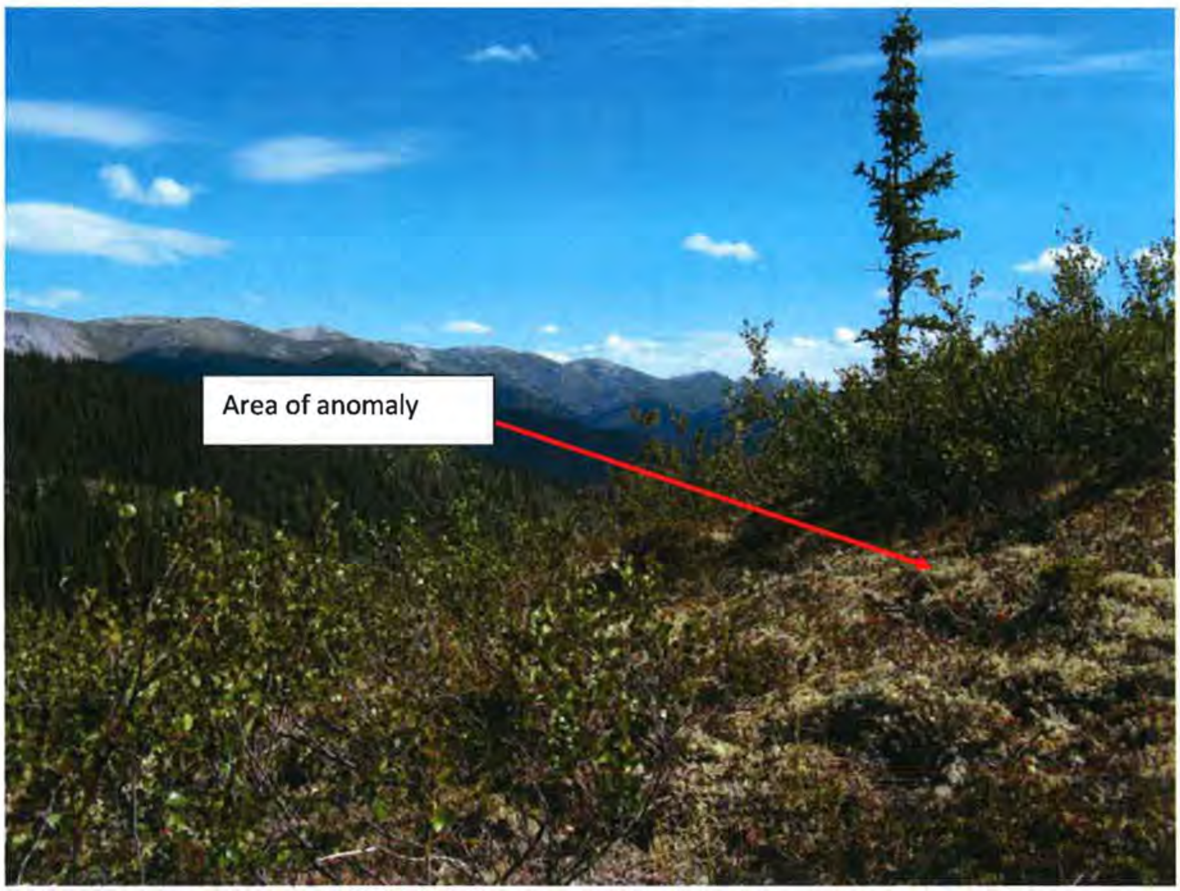


Figure: 6 RAD_222 ANOMALY.

The area was assayed in the field with a hand held scintillometer and the results of this are shown in table 4 below.

	PPM	CPM
TOTAL	**12.4**	**476**
POTASSIUM	**0.1%**	**46**
URANIUM	**10**	**39**
THORAMIUM	**2.4**	**3**

Table 4: SCINTILLOMETER READINGS FOR RAD_222.

RAD_333

Rad_333 is located on the north facing slope of a moderate hill just west of where Logan Resources had their 2007 camp. The anomaly is hosted in an oxidised med-grained quartzite sequence. It is easily discovered with the hand held scintillometer because of the low levels of radiation in the carbonates as you traverse the area. Typically the carbonates have a count of roughly 50 to 60 C/M, where as the quartzite typically has values of around 1200 C/M. The geology in this area generally displays an east west orientation as does the Quartzite bed which has a bearing of roughly 112°. Because of the blocky and broken nature of the area a structural dip for the quartzite bed was difficult to determine. One grab sample was taken and sent for litho-geochemical analysis to Acme laboratories in Vancouver. Results of the analysis are in appendix 1.

The area was assayed in the field with a hand held scintillometer and the results of this are shown in table 5 below.

	PPM	CPM
TOTAL	**76.1**	**2925**
POTASSIUM	**8.1%**	**451**
URANIUM	**9.7**	**204**
THORAMIUM	**122.4**	**100**

Table 5: SCINTILLOMETER READINGS FOR RAD_333.

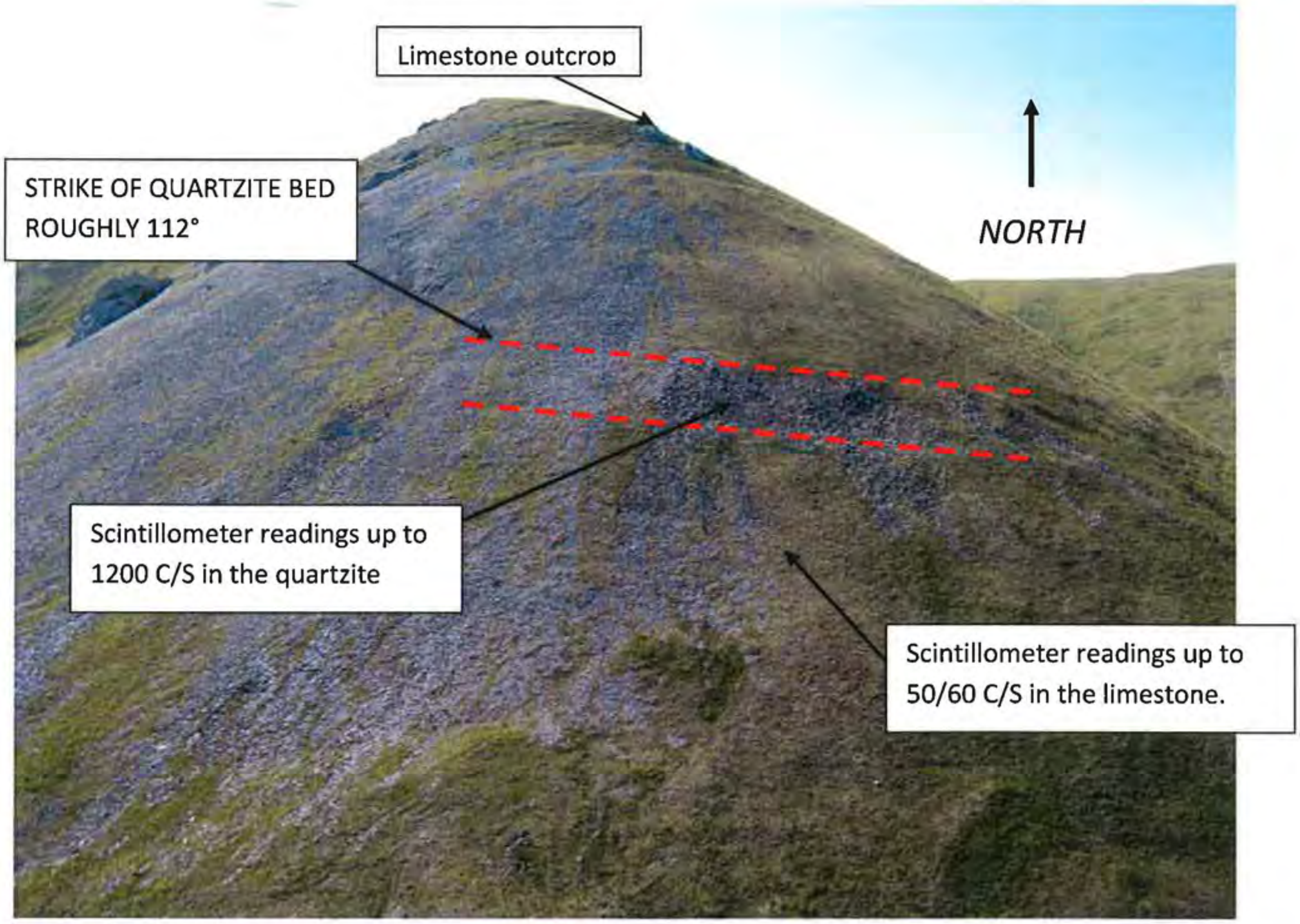


Figure 7: RAD_333

RAD_444

The location of Rad_444 is difficult to determine as there is no obvious zone. It appears that the coordinates point to a contact between the limestones to the north and some green chloritized phyllites to the south, See fig 4. The contact runs roughly 100° to 110° with a dip difficult to determine. See fig 7. There is an abundance of bull quartz that is common at Shell creek and appears to be the source of the chlorite. Unlike other quartz in the area there is no visible gold, chalchocite or malachite staining.

Figure 8: Dark green heavily chloritized sediments.

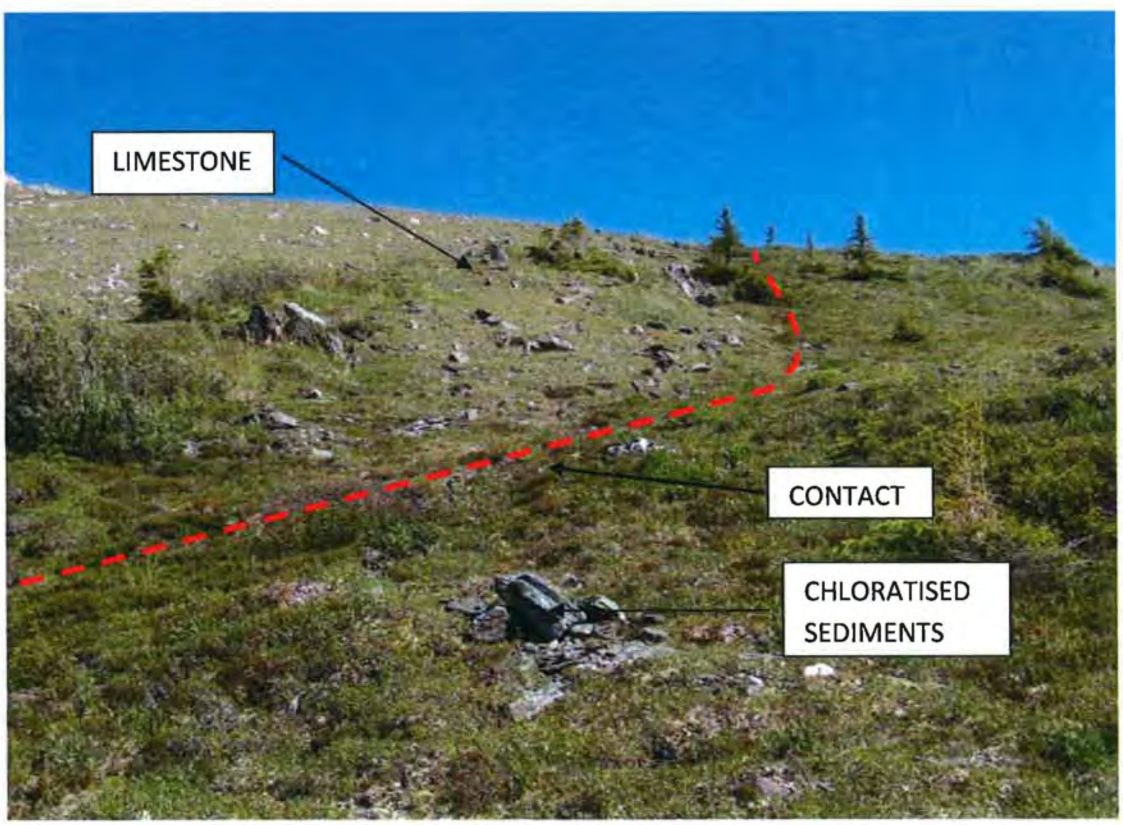


Figure 9: Contact between limestone and chloritic sediments.

Rad_555

The anomaly is located in a narrow medium grained oxidised quartzite bed roughly 25m across at surface. Mineralization in the quartzite is dissemimated oxidized pyrite. The quartzite horizon is flanked on both sides by shale units. Thinly bedded platy dark gray / black shale to the north that grades into winey/purple shale and then winey shale to the south that grades into a limestone.

Scintillometer readings 300m to the north of the quartzite bed putting you in the limestone give scintillometer readings of 30 C/S. Radiometric counts increase slightly as you cross into the shales where readings of 95 C/S are seen. Five small pits were dug in the quartzite horizon and are labelled 816901, 816902, 816903, 816904 and 816905. Assay results of the quartzite from these test pits can be seen in Appendix 1.

816901	ELEMENT	PPM	CPM
TOTAL		56.6	2178
	POTASSIUM	7.3%	389
	URANIUM	22.1	153
	THORIUM	55.5	46
816902	ELEMENT	PPM	CPM
TOTAL		79.9	3072
	POTASSIUM	7.2%	461
	URANIUM	11.6	242
	THORIUM	144.7	118
816903	ELEMENT	PPM	CPM
TOTAL		91.3	3513
	POTASSIUM	3.7%	419
	URANIUM	21	305
	THORIUM	164.8	136
816904	ELEMENT	PPM	CPM
TOTAL		61.5	2365
	POTASSIUM	10.9%	447
	URANIUM	0	116
	THORIUM	98.1	79
816905	ELEMENT	PPM	CPM
TOTAL		71.7	2757
	POTASSIUM	11.0%	501
	URANIUM	0.0	169
	THORIUM	126.3	103

Table 6: SCINTILLOMETER READINGS FOR RADD_555

Two Mobile Metal Ion (MMI) soil sample lines were placed over the quartzite horizon in a north south orientation to see if any anomalous geochemical signature could be picked up. There were 8 points in each line with a line spacing and sample spacing of 25 metres. The results of these are in appendix 2, (MMI results).

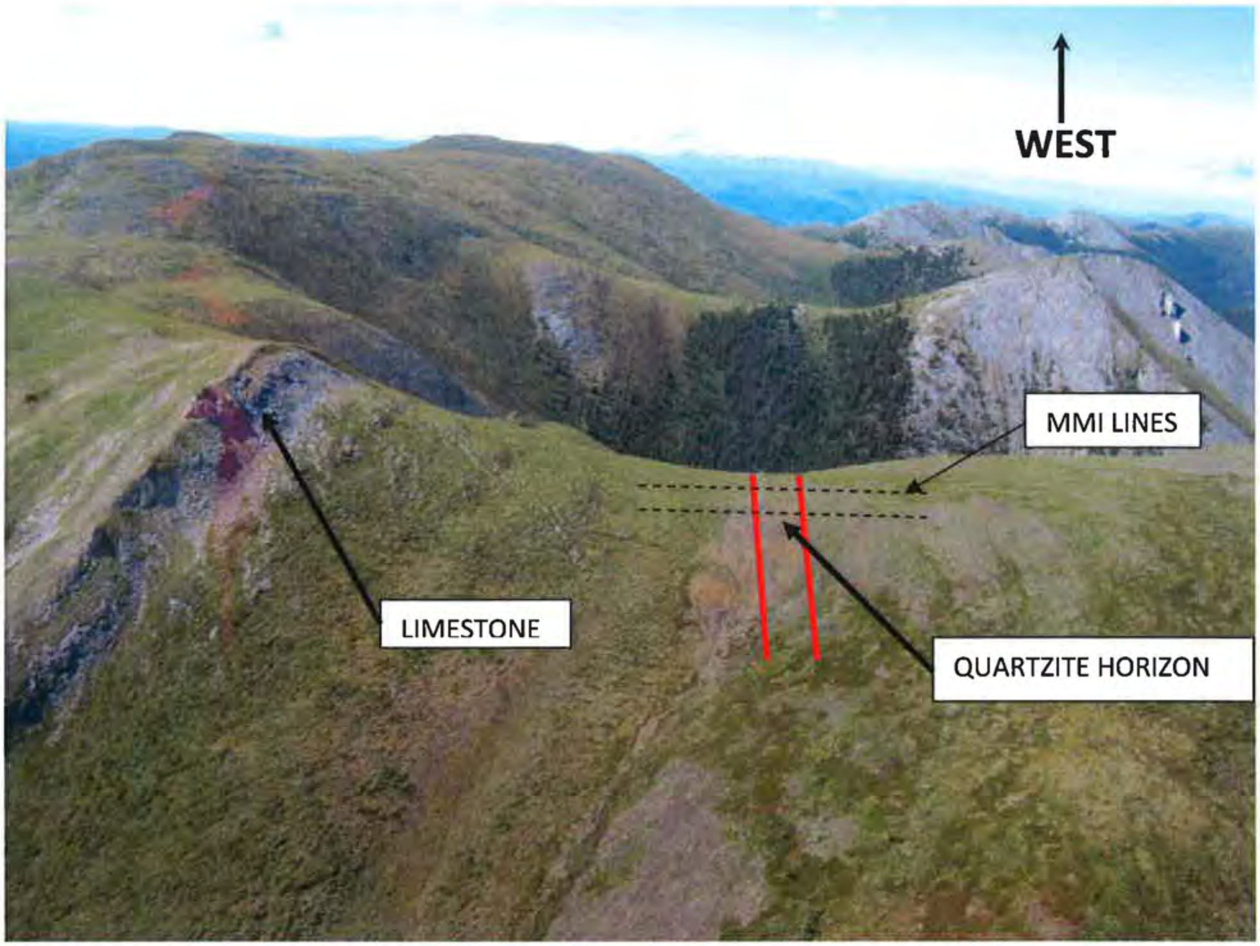


Figure 8: Aerial photograph of RADD_555, looking west.

RAD_666

Figure 9: RAD 666

Rad 666 is located in a densely wooded area of stunted poplar and black spruce that suffered a burn in the recent past (last 10 years or so). The anomaly seems to be coming from an exposed area see (Fig 11) that is generally composed of a silty cream to light brown coloured clay with minor amounts of ash. The area was mapped in as Arkosic sandstone ?. The photo above is looking in a north direction so flight lines would have picked the exposed face head on and this could have influenced the anomaly i.e. made it stand out.

Below is a table showing the observed ground readings from the hand held scintilometer at UTM coordinates 0534644, 7156156

	PPM	CPM
TOTAL		215 to 286
POTASSIUM	2.7%	663
URANIUM	0.0	22
THORIUM	17.1	14

INTERPRETATION AND RECOMMENDATIONS:

The higher radiometric anomalies on the property appear to be mainly associated with an oxidised, fine to medium grained pebbly quartzite horizon. It has been postulated that detrital zircons could be responsible for the slightly elevated radiometric readings, but more likely is that remobilised fluids with a slightly elevated uranium signature have preferentially passed through some of the quartzite beds.

The anomalies are weak and as of yet not given any indication to be of any economic potential however some of the radiometric readings with the hand held scintilometer did increase when an effort was made to dig down to less weathered material. One or two of the anomalies are coincident with magnetic highs (see mag map with rads on it), and could represent fluids from a buried intrusion that were mobilised and concentrated in the favourable matrix of the quartzite. This would also account for the slight pyritization of these quartzite units.

A recent soil survey in the area of RAD 111 noted that "Two metallogenetically significant anomalies have been defined by the survey. These include an ovoid to semi-circular AuRR-URR-CeRR anomaly and a linear northeast-trending Bi-Pb-Zn-Cu anomaly that is encapsulated by the former. The morphology and constituent elements contained within these two anomalies are suggestive of Olympic Dam-type mineralization with a base metal overprint"

- The area should be trenched to see if less weathered material could be revealed.
- These areas of coincident radiometric and magnetic highs warrant further investigation, as they are potential targets for economic mineralisation.

Appendix G

Results of a Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on the Shell Creek Property of Logan Resources Ltd.

Prepared By: Mount Morgan Resources Ltd.

Results Of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on The Shell Creek Property of Logan Resources Ltd., Ogilvie Mountains, Dawson Mining District, Yukon Territory, Canada

February 9, 2009

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EXECUTIVE SUMMARY

A Mobile Metal Ions (MMI-M) soil geochemical survey undertaken on the Shell Creek property of Logan Resources has delineated two distinctive and yet associated anomalies that are metallogenetically significant. These include a large, ovoid-shaped Au-U-Ce anomaly that is developed over 50% of the claim group. Within this anomaly and at its western edge is a linear, northeast-trending Bi-Pb-Zn-Cu anomaly that trends off of the claim group to the southwest. These anomalies are primarily developed in inorganic soil samples but there are contributions to the overall pattern by organic soil samples.

The Au-U-Ce anomaly has overtones of Olympic Dam type mineralization however integrated geophysical and geological surveys may provide more evidence for this possibility. The Bi-Pb-Zn-Cu anomaly appears to be the geochemical signature of a separate mineralizing event.

The analysis of inorganic and organic soil using MMI-M extraction, sample spacing on the grid and the character of the samples are adequate to delineate precious and base metal anomalies.

Data integration should be attempted prior to further exploration on the property including diamond drilling.

PREAMBLE

The exploitation of mineral commodities in the near-surface geological environment has become increasingly difficult due to the exhaustion of mineralization exposed at surface and the mantling of prospective bedrock by glacially transported till and its derivatives. Thick glaciofluvial and glaciolacustrine sediments topped by organic deposits make mineral exploration in these terrains challenging. For this reason a plethora of innovative exploration geochemical selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-parts per billion ranges, have been developed. These techniques offer the explorationist tools to "see through" overburden and derive useful mineral exploration data for integration with geology and geophysics and ultimately for drill-testing multivariate anomalies. Disrupted overburden, such as that observed with logging practices (scarification), tends to complicate MMI responses although modified sampling practices can be adopted to rectify this disturbed environment. Areas affected by landslide are also complicating factors.

The proprietary Mobile Metal Ions Process (MMI) soil geochemical technique has been utilized on a wide range of commodity types from base and precious metals to diamonds worldwide. The Process is based upon proprietary partial extraction techniques, specific combinations of ligands to keep metals in solution, and relies on strict adherence to sampling protocols usually established during an

orientation program. Geochemical data resulting from MMI analysis of improperly collected soils cannot be ameliorated with univariate and/or multivariate statistical and/or graphical solutions.

The recognition of anomalies in geochemical data has progressed from simple visual inspection in small data sets to multivariate, parametric and non-parametric or robust statistical methods for large datasets usually extracted from regional geochemical surveys. Derived parameters from these statistical exercises, such as factor scores or discriminant functions, have been successfully utilized in reducing a large number of potentially useful variables to a select few variables that identify and localize anomalous geochemical signatures. These statistical approaches have been required to manipulate accurate and precise, low-cost, multi-element geochemical data.

The MMI technology uses a different approach to exploration geochemistry by analyzing soils for a select few commodity elements upon which to base property evaluations. Having stated this, the MMI-M multi-element suite that was utilized to analyze inorganic soils from the Shell Creek property survey comprises analyses for 45 elements. These consist of a multi-element suite that reports ppb and sub-ppb analyses for base and precious metals, pathfinder elements for these commodities, as well as elements useful for mapping bedrock geology obscured by glacial overburden and its derivatives. A small number of elements in this package report in the parts per million ("ppm") concentration range (Al, Ca,

Mg, and Fe). The large number of elements in the database provides an opportunity to assess an area of interest for a wide range of metallic mineral deposits with only minor drawbacks in terms of lower limits of determination. The specific details of this assessment are described below.

TERMS OF REFERENCE

The author of this report was contracted by Mr. Seamus Young of Logan Resources Ltd. to undertake the interpretation of Mobile Metal Ions soil geochemical survey data from the Shell Creek property of Logan Resources Ltd. The Shell Creek property is located in west-central Yukon Territory, Canada, on the north shore of the Yukon River approximately 75 km (47 miles) northwest of Dawson City. This report represents a final interpretation of work and is completed with recommendations for follow-up exploration. The MMI-M survey was undertaken to assess the property for MMI-M geochemical signatures related to Olympic Dam-type copper-uranium-gold-rare earth element mineralization in the area. Anomalous copper and uranium in stream sediment geochemical samples in the area plus gold showings on the property support the potential for the existence of this type of mineralization in the Proterozoic-age rocks on the property.

APPROACH TO THE SURVEY

The Shell Creek MMI-M exploration survey, including the use of Mobile Metal Ions Technology undertaken by Logan Resources was designed to assess the

survey area for high-contrast geochemical signatures for Olympic Dam-type Cu-Au-U-REE (rare earth element) mineralization. Overburden cover and mineralization that is essentially blind in many parts of the property has hindered exploration and the MMI survey is an attempt to provide a tool for focused exploration. The proximity of Wernecke breccias nearby has prompted the search for the Olympic Dam mineralization.

SAMPLE COLLECTION AND ANALYSIS

In MMI surveys there are some general approaches that are used to guide sample collection including preferred depths of sampling and these are described briefly here. Additional information is also available from the SGS website (www.sgs/geochemistry.com).

Soil samples, each weighing approximately 250 grams, are usually collected at variable sample spacing along single transects over known mineralized zones or extrapolated trends of these zones. Generally, 25-m stations in precious metal exploration and up to 50 m in the case of base metals are the routine spacing. Sample spacing should be established on the basis of a "best-estimate" of the likely target being sought with estimates from historical data or exploration results from nearby programs. Initially, samples are often collected at a closer spacing until it is determined that a larger spacing is appropriate to the target being sought. At the Heidi property soils were sampled at a depth of 10-25 cm below the active or live organic layer or the point at which soil formation is initiated in

this environment. The sample collected between10-25 cm is a continuous 15 cm long plug of sediment or a continuous vertical channel of sediment.

Samples are bagged on site without preparation and shipped to SGS Laboratories (Toronto, Ont.) for MMI-M analysis. The MMI-M is a neutral extraction with analytical finish by inductively coupled plasma-mass spectrometry (ICP-MS).

A review of sample collection information provided by Logan Resources indicates that this approach to sampling has resulted in both inorganic and organic soil samples being submitted for analysis. Sampled material was a variably-colored sand-silt-clay collected from the B-horizon and humified organic material from the A-horizon. Gentle to steep slopes are present in the survey area and permafrost was encountered locally. Most samples were described as being damp. A total of 336 soil samples were collected for this survey.

DATA TREATMENT AND PRESENTATION

In exploration surveys where sampling and analytical protocols have been determined by an orientation survey, analytical data is examined visually for analyses less than the lower limit of detection (<LLD) for ICP-MS. Data <LLD are replaced with a value ½ of the LLD for statistical calculations and graphical representation. For most exploration surveys, MMI data is plotted as response ratios. For the calculation of response ratios the 25th percentile is determined

using the software program SYSTAT (V10) and the arithmetic mean of the lower quartile used to normalize all analyses. The normalized data represent "response ratios" which are then utilized in subsequent plots. Zeros resulting from this calculation are replaced with "1". Response ratios are a simple way to compare MMI data collected from different grids, areas and environments from year to year. This normalized approach also significantly removes or "smoothes" analytical variability due to inconsistent dissolution or instrument instability. For the Shell Creek survey the interpretation is based on response ratios.

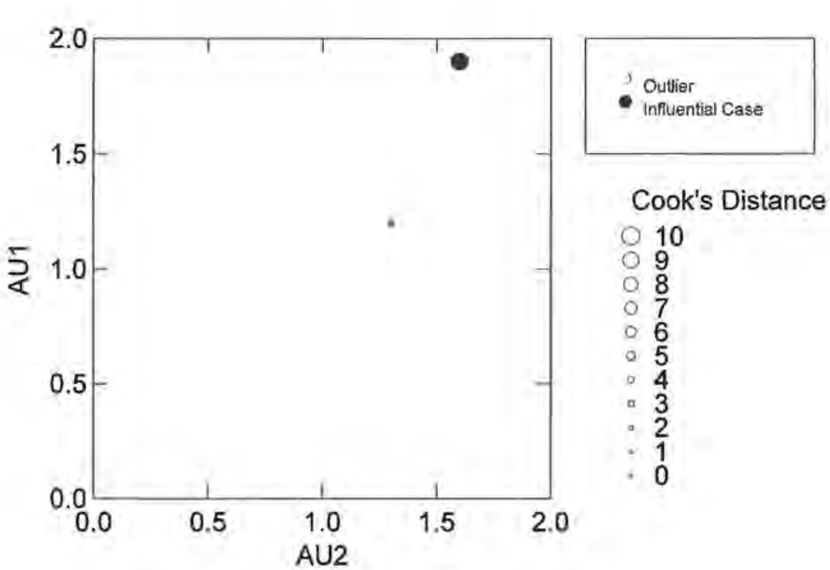
Analytical data as received from SGS Mineral Services and Logan Resources is presented in Appendix 1 along with sample descriptions. Analytical data from analytical duplicates, replicate analyses of standard MMI reference materials and analytical blanks are given in Appendix 2 as "QAQC". The 25th percentiles and backgrounds used to calculate response ratios are included in Appendix 2 with the edited analytical data. The variation in concentration of MMI-M suite elements on the property is discussed in a geochemical narrative based on bubble plots produced with ARCVIEW software. Prior to plotting organic and inorganic samples were separated and response ratios calculated separately. In this way geochemical flux in both organic and inorganic samples can be reviewed for each population.

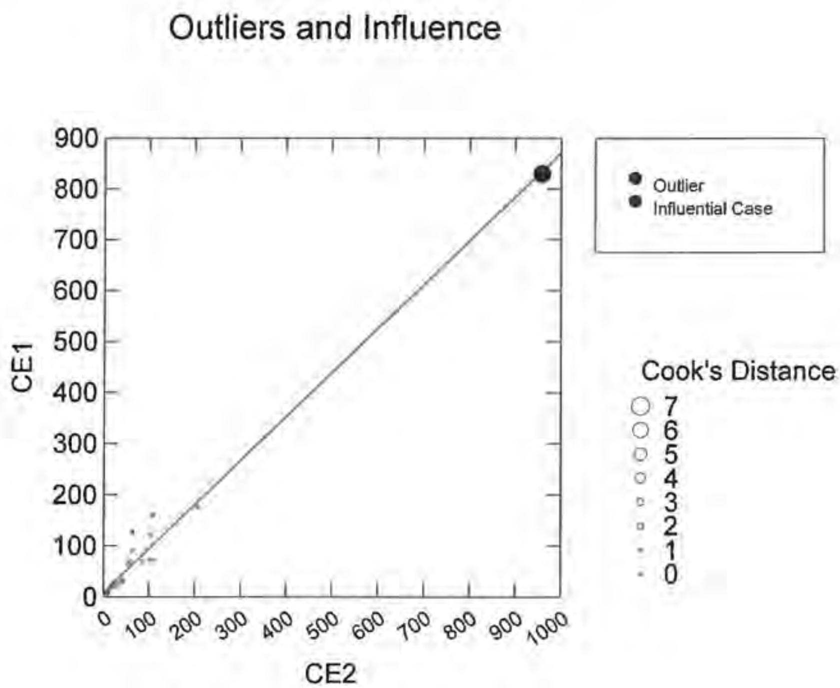
RESULTS

Data Reproducibility-Analytical Duplicates

Analytical duplicate sample analyses are presented below as simple linear regression plots and in Appendix 2 and permit an assessment of the ability to reproduce analyses at a wide range in concentration. It is observed that the duplicate pairs exhibit a very high degree of reproducibility across a wide range in concentration for most MMI-M elements including the base metal commodity elements Au, Cu, Ce and U. Any variability that exists between duplicates is within +/- 25% and as such is interpreted not to be a hindrance to interpretation and the recognition of *bona fide* trends in the dataset. Most variability occurs at or near the lower limit of determination ("LLD"). The excellent analytical reproducibility for the important commodity elements Au, Cu, Ce and U is demonstrated in the simple linear regression plots below.

Outliers and Influence




Outliers and Influence
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CE2
Outlier
Influential Case
Cook's Distance
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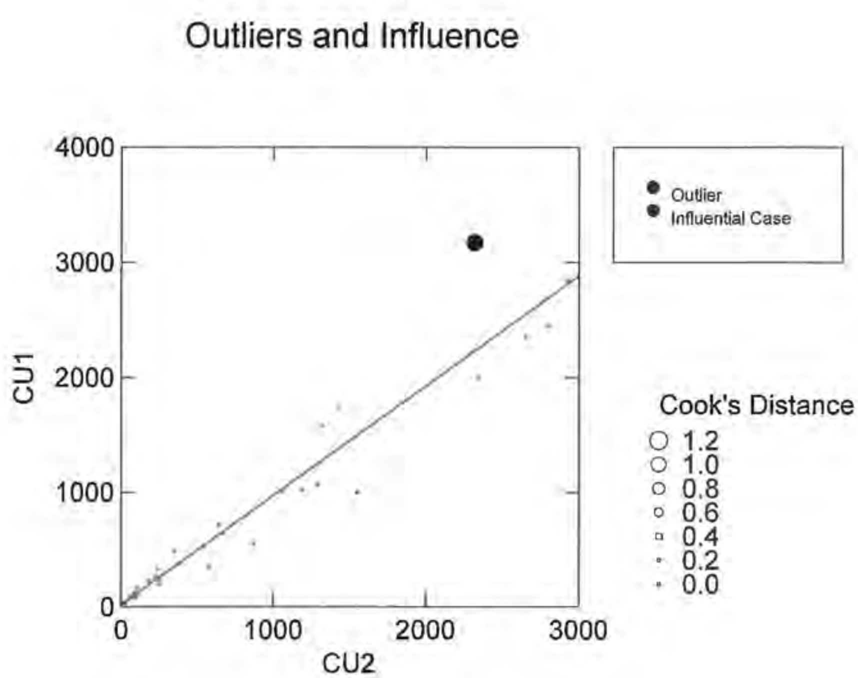
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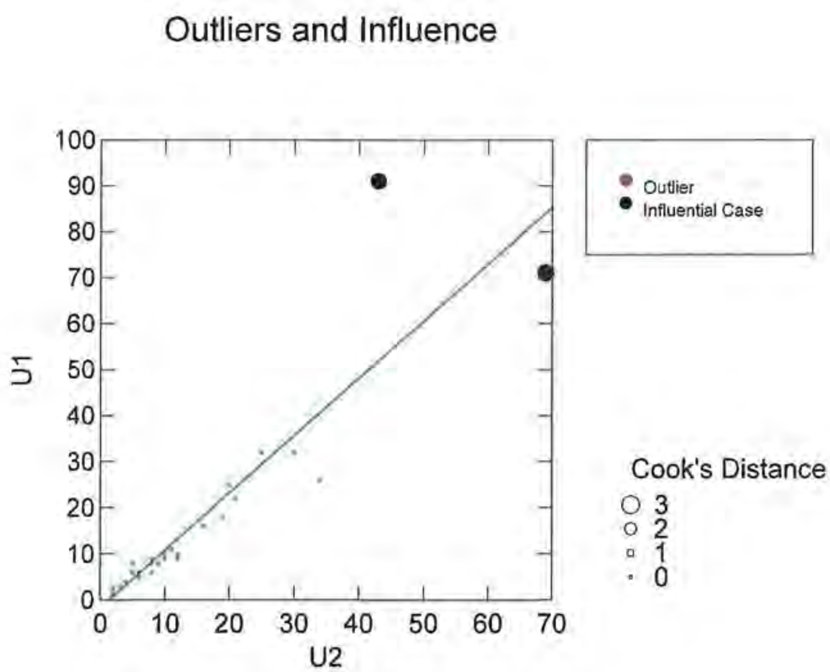


Note: ***Cook's distance is a commonly used estimate of the influence of a data point when doing regression. Cook's distance measures the effect of deleting a given observation. Data points with large residuals (outliers) may distort the outcome and accuracy of a regression.***

Standard Reference Materials

A review of the QC analytical data in Appendix 2 indicates there is excellent agreement of the replicate analyses for the standard reference material MMISRM16 with the accepted or recommended values. This is particularly true for the commodity elements. Minor variation in reproducibility in expected values is observed for some of the rare earths.

Analytical Blank Replicates

A review of the replicate analyses of the analytical blanks (Appendix 2) indicates minor amounts of contamination are present in the blanks. The table below summarizes the elements present and in what quantities for the blanks. This demonstrates the absence of **significant** laboratory-based contamination that is being introduced into the sample.

Summary of detected contaminants in analytical blanks, Shell Creek MMI-M survey.

Element	Samples Reporting	Concentration Level
Al	5	4@ 1ppm, 1@2 ppm
As	1	10 ppb
Au	1	0.3 ppb
Ba	1	10 ppb
Ce	1	5 ppb
Cu	1	20 ppb
Dy	2	1 ppb
Fe	2	1@1 ppm, 1@ 2 ppm
Gd	2	1 ppb
La	6	5@1 ppb, 1@ 2 ppb
Nd	8	5@ 1 ppb, 3@ 2 ppb
Ni	2	1@ 10 ppb, 1@ 9 ppb
Pb	1	10 ppb
Pr	1	1 ppb
Sm	2	1 ppb
Sr	5	2@ 10 ppb, 2@ 20 ppb
Th	3	1@ 0.6 ppb, 1@ 0.7 ppb, 1@ 0.8 ppb
Ti	4	2@ 3 ppb, 1@ 4 ppb, 1@ 5 ppb
U	1	1 ppb
W	2	1 ppb
Y	2	1@ 6 ppb, 1@ 8 ppb
Zn	1	20 ppb

Data Description

The Shell Creek MMI-M dataset is marked by several elements that are at or below the LLD. These include Au, Bi, Cr, Li, Mo, Nb, Pd, Pt, Sb, Sn, Ta, Tb, Te, Tl and W. Some of these elements are typically less mobile than Cu or Zn and their presence in measurable quantities in a small number of samples is testament to this. The high percentage of samples with Au contents <LLD in this survey is not surprising given the very low mobility of Au in the surficial/secondary environment. It is worth noting that the diagnostic signal of a significantly mineralized zone will generally produce moderate- to high-contrast apical responses over the target; however, away from the mineralization at "background" locations there may be no trace of the presence of a specific metal in the analysis. This is another consideration when viewing MMI data-the presence of significant numbers of elements < the LLD is not necessarily cause for concern or that the MMI extraction is not working or has been "buffered" by soil composition. The MMI process is designed to only extract metals that are moving from source to surface and characteristically report metal contents in low ppb concentrations.

Method of Interpretation

Multivariate statistical and graphical techniques were not utilized for the interpretation of MMI data in the Shell Creek survey interpretation. A simple

visual approach was used. The MMI-M data was examined for anomalous spikes or groups of elevated responses for single and/or coincident elements. Element groupings such as Au-Ag, Au-Ag-Pd, Zn-Cd, Ni-Co, Ni-Co-Ag and Ni-Cu all have relevance to underlying geological conditions and their contained mineralization and are used to assist the rankings of any particular MMI response in terms of follow-up.

When concentration-only data is reviewed unique "spikes" or anomalous responses are assessed. When response ratios are used there are general guidelines brought to bear on the interpretation. Generally, a response ratio of <10 indicates less than interesting responses and is usually an indication of the lack of a significant mineralized zone in the bedrock underpinning the survey area. A response ratio >20 or 20 times background is an initial indication of a low-contrast anomalous response although this "threshold" is not universal. A response of between 21 and 50 is used as a moderate response with RR>50 being referred to as high contrast. Often, pattern recognition in the interpretation of geochemical data is paramount. These parameters were applied to the interpretation of MMI-M geochemical data from the Shell Creek property.

AREAL DISTRIBUTION OF ANOMALOUS RESPONSES IN THE SHELL CREEK MMI-M SURVEY AREA

ARCVIEW Bubble Plots

The variation in concentration and the resulting morphologies of anomalous responses in the MMI-M data from the Shell Creek survey area are described in

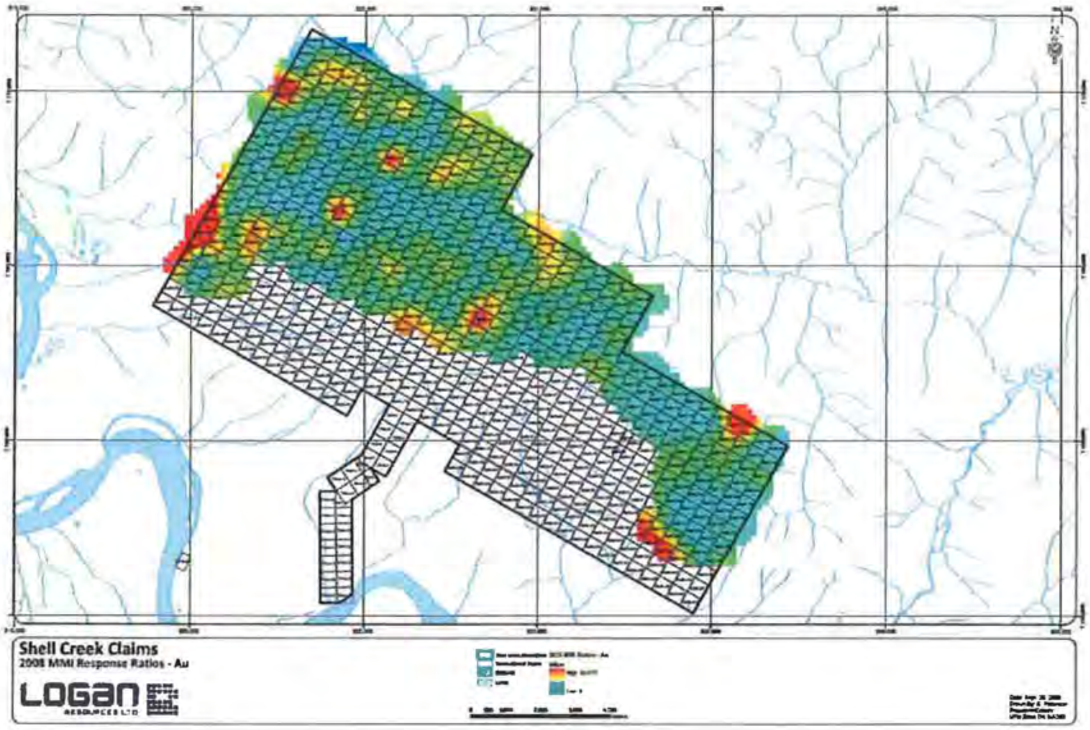
the following section. All plots of MMI-M suite elements considered to be significant are available for viewing in Appendix 3. The plots are produced so as to provide a different symbology for the individual sample types. That is, organic and inorganic soils are given a distinctive symbol (triangles for inorganic soils and circles for organic soils) so that responses on the grid for each of these different sample types can be deduced from one another. Plots of MMI-M geochemistry are draped upon topography including streams and lakes and also claim boundaries. The individual responses are presented as bubbles whose diameter is directly proportional to the magnitude of the geochemical response (as response ratios) and they are also color-coded so that hot colors represent high responses and the cooler colors indicate low responses.

Precious and Related Metal Responses (Au, Ag and As)

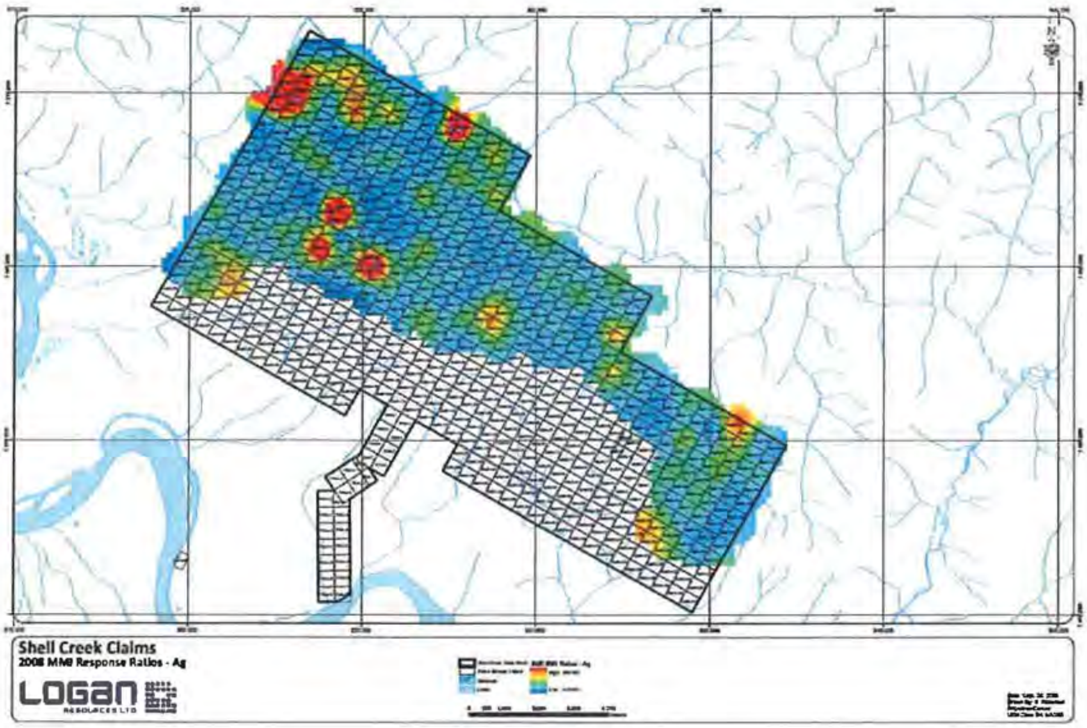
AuRR (1- 76): Gold anomalies on the property are entirely single-sample responses that are widely scattered across the survey area and are without apparent linkage. There is limited correspondence between Au and As responses except for the area near the western edge of the survey grid where overlap between these two elements is noted. There is a total of seven AuRR single-sample anomalies on the property.

If lower-contrast responses (yellow on the figure) are combined with the high-contrast responses then a crude, large scale ovoid anomaly is developed and centered in the more northerly portion of the claim group. This anomaly covers approximately 50% of the survey area. The origin of this anomaly is unknown

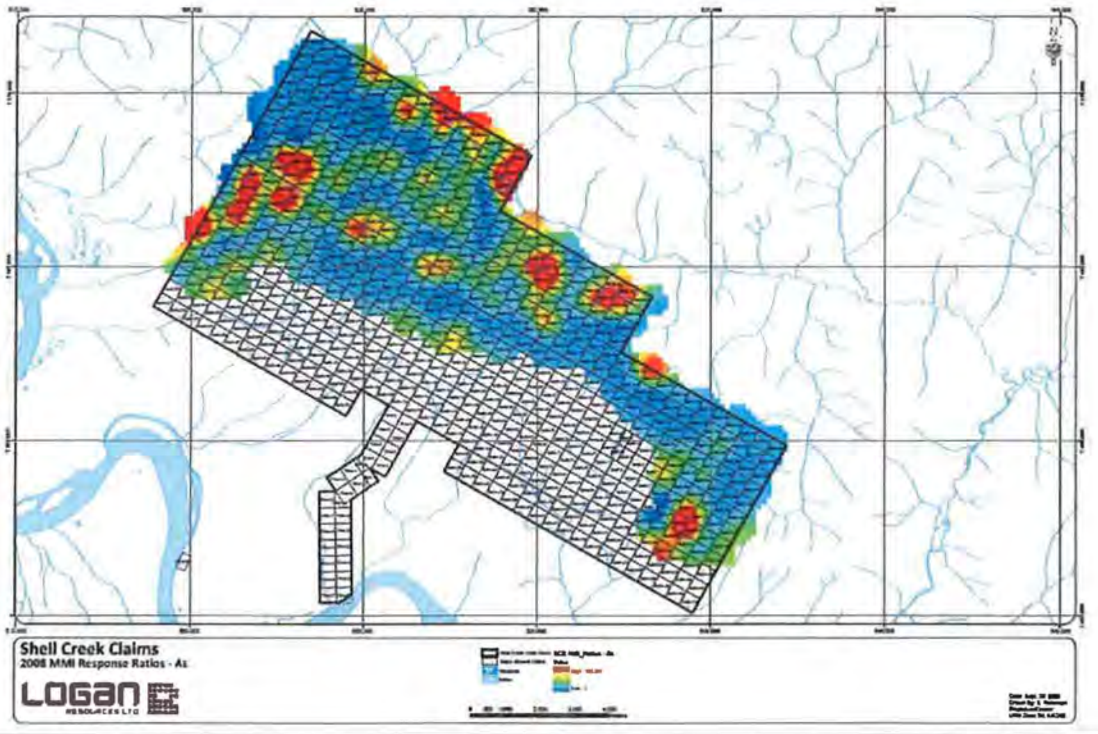
however it is likely directly linked to the distribution of Au in the rocks that underpin the survey area.



AgRR (1- 395): The Shell Creek grid is marked by five areas of significantly elevated Ag responses. Four of these are single sample anomalies and include both organic and inorganic soil samples. The main area of elevated response occurs at the northern tip of the claim group and consists of multiple inorganic soil samples with moderate- to high-contrast responses. The anomaly has a somewhat arcuate morphology band is open to the west. The maximum response in the survey area is 395 times background.

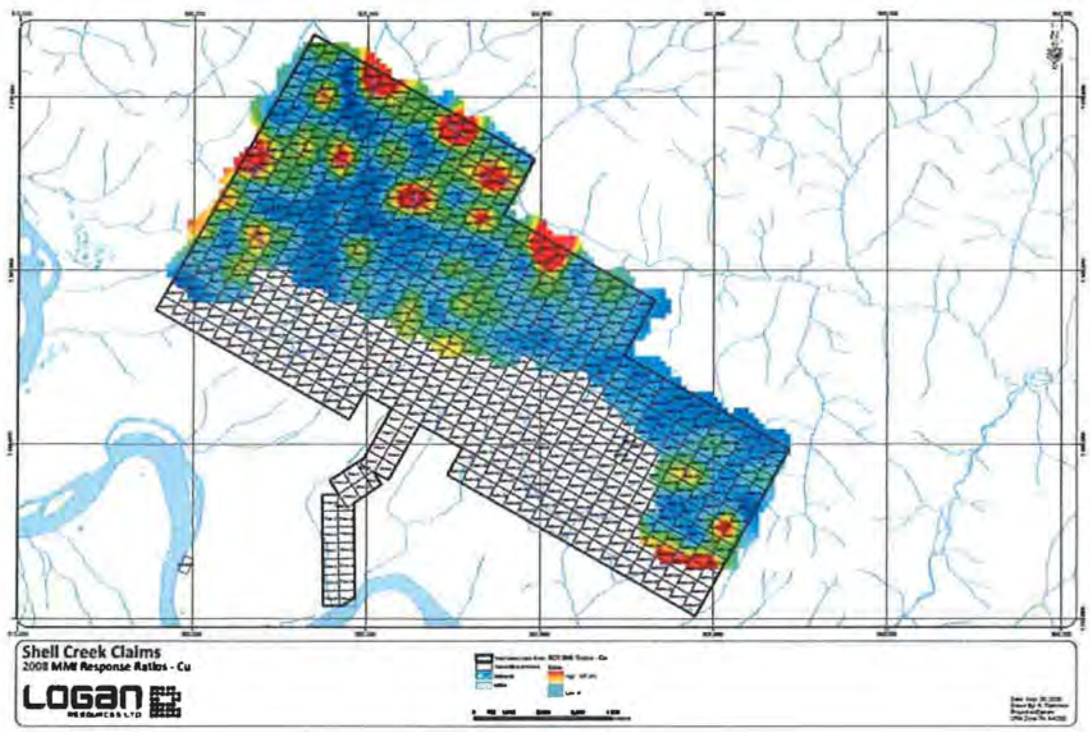


AsRR (1- 200): There are numerous one to three sample AsRR anomalies on the Shell Creek grid although none of these are coincident with the AgRR anomalies. Some of the anomalies are noted to be adjacent to stream courses suggesting the possibility that the elevated responses in both organic and inorganic samples are related to hydromorphic dispersion of As from arsenopyrite-bearing mineralization. The northeast area of the grid and to a lesser extent the western edge of the grid are marked by anomalous responses developed at the extremity of sampling. This suggests the anomalies are not truncated and are open in these areas.

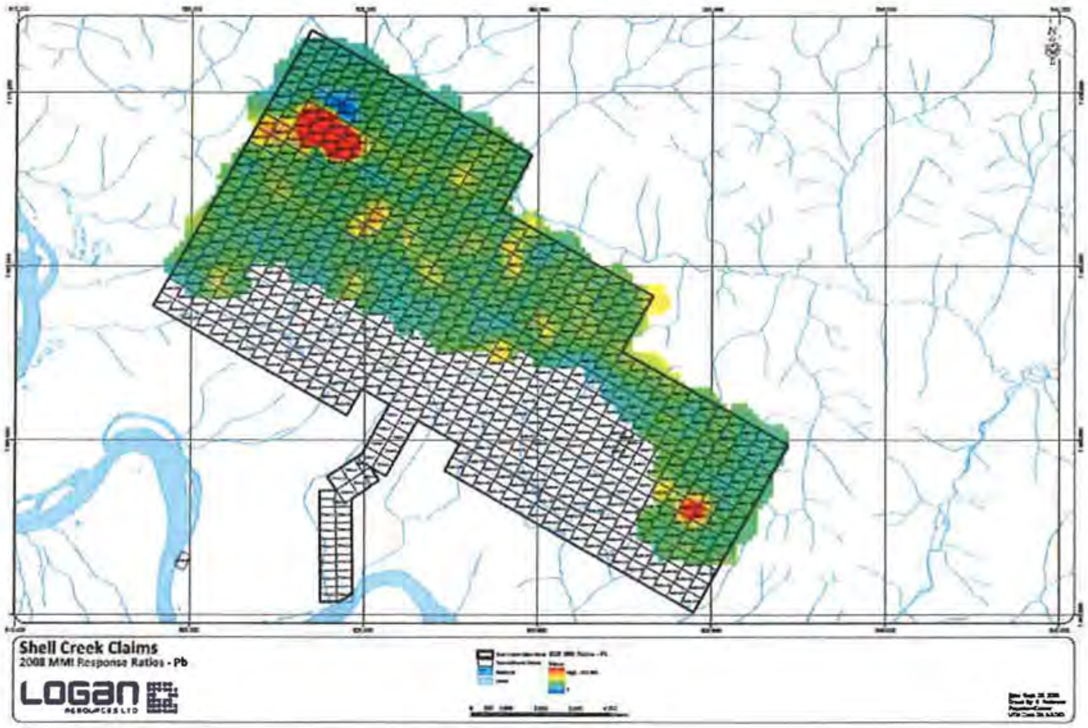


Base and Related Metal Responses (Cu, Pb, Zn and Bi)

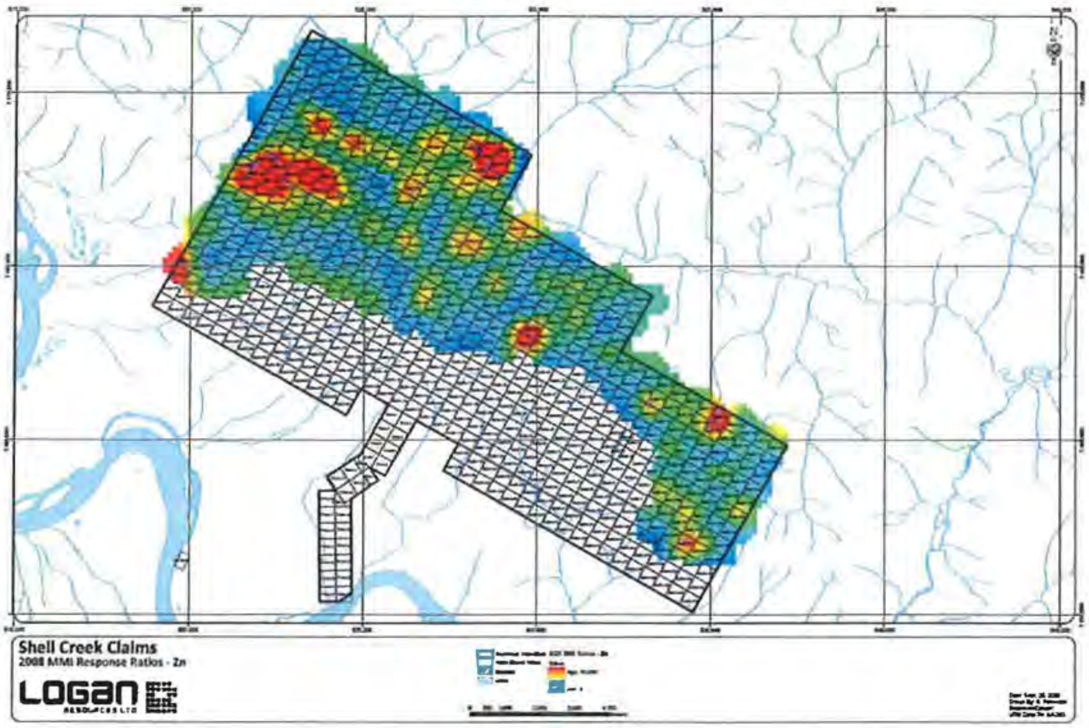
CuRR (1-176): There are ten individual CuRR anomalies defined on the Shell Creek grid and interestingly all of these anomalies are developed in organic soil samples. The anomalies are present along the northern portion of the survey area and also provide a crude indication of the areally-extensive ovoid of AuRR responses. The Cu anomalies are one- to three-sample anomalies and in many cases are situated adjacent to stream courses. Single-sample anomalies are developed in association with the linear Bi-Pb-Zn anomaly described below.



PbRR (1- 401): The northern Shell Creek survey area has a single, multi-sample anomaly that is developed in both organic and inorganic soils. The Pb anomaly is coincident with the northeast tip of the linear Bi anomaly and is encapsulated by the circular AuRR anomaly. This observation tends to support the presence of metal zonation in the bedrock underpinning the claim group in this area.

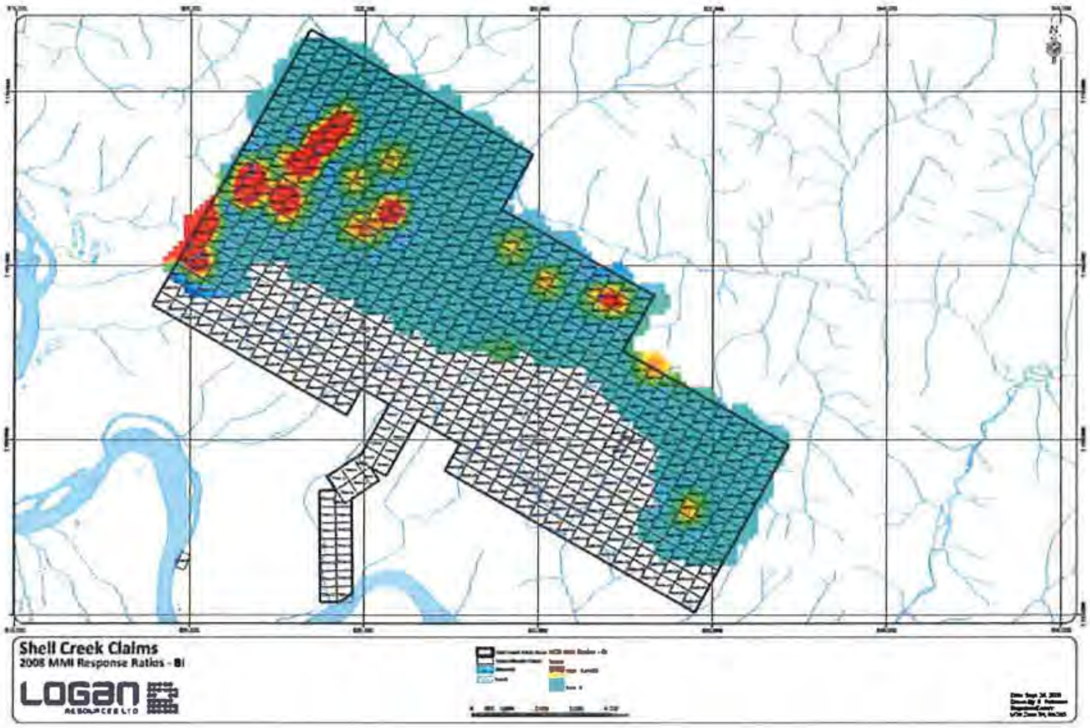


<u>ZnRR (1- 142):</u> Similar to the PbRR anomaly, the most significant ZnRR anomaly, comprising multiple organic and inorganic soil samples, is coincident with the linear Bi anomaly. Elsewhere on the claim group ZnRR anomalies tend to be single-sample elevated responses developed in isolation from one another. They do not define a cohesive anomalous response.



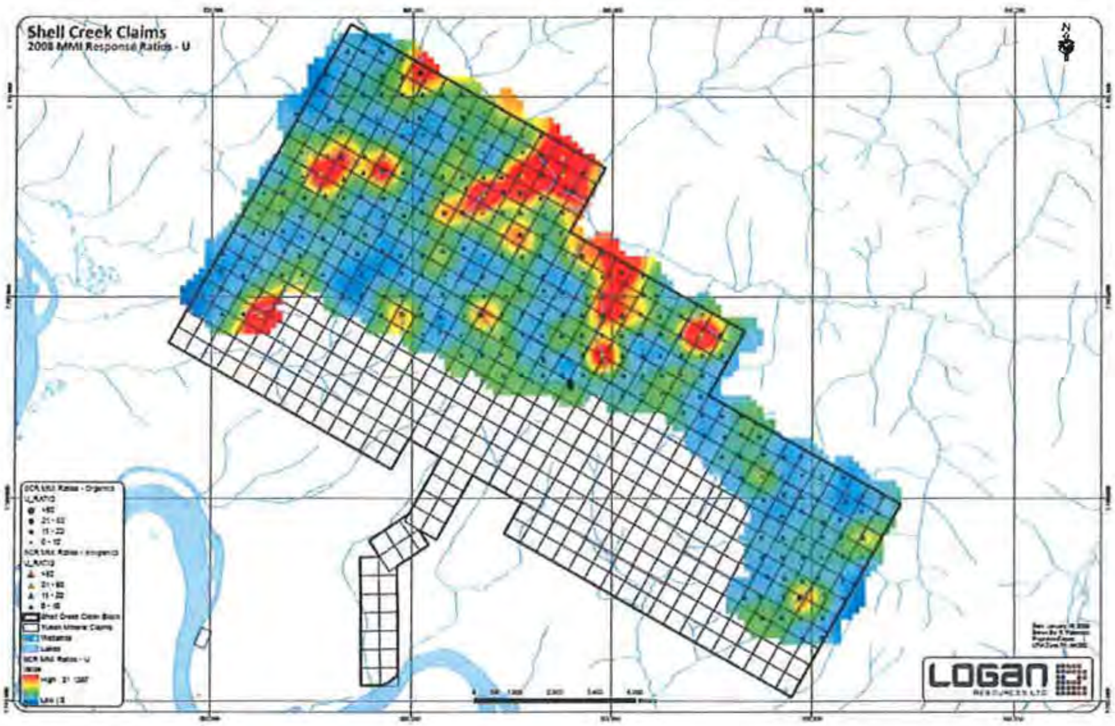
BiRR (1- 38): A very-high-contrast, multi-sample, northeast-trending Bi anomaly is documented from the western edge of the grid. This anomaly trends off of the claim group and likely continues to the southwest. This anomalous response is strongly coincident with elevated AsRR but much less coincident with observed Au and Ag anomalies. This is strongly suggestive of metal zonation in the bedrock in this area. Elsewhere on the grid, particularly to the east and southwest, elevated BiRR consisting of widely separated, low-contrast responses predominate. There is no indication of the circular or ovoid anomaly documented in the Au data for the Bi results. All BiRR anomalous responses are developed

from the analysis of inorganic soil samples.

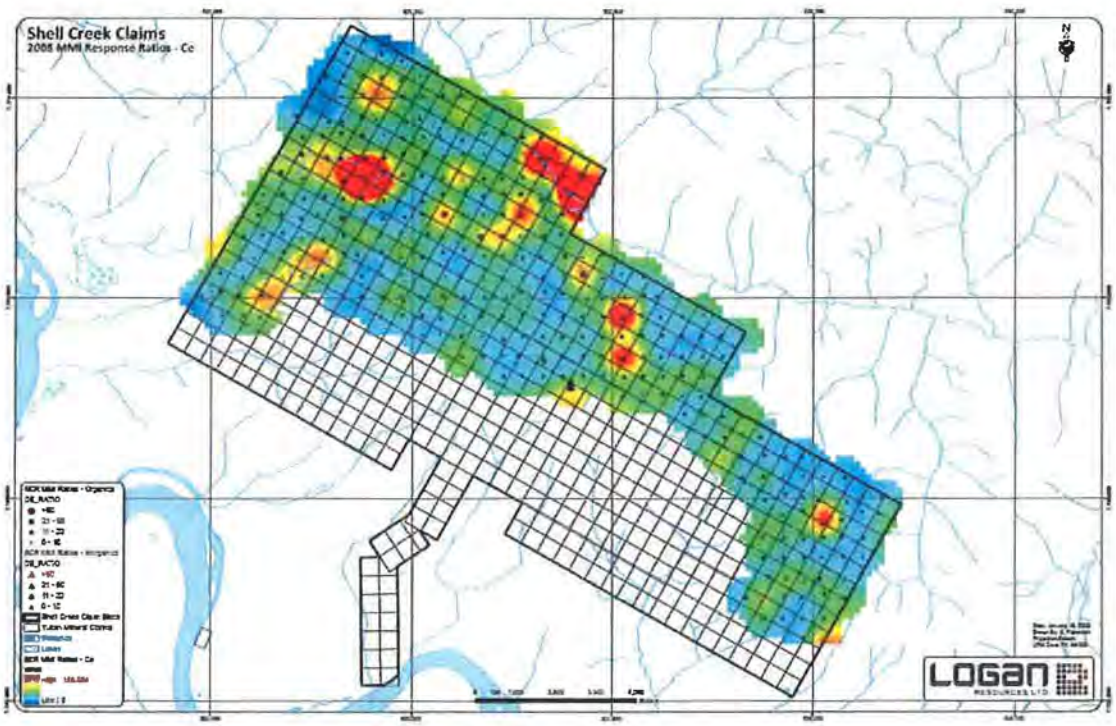


Additional Commodity Elements (U and Ce)

URR (1-31): Broad, moderate-contrast URR responses with maximum responses of 31 times background are observed along the northern edge of the claim boundary. These are multi-sample responses for primarily inorganic soils but also for lesser numbers of organic soil samples. The shape of the anomaly is arcuate and approximates the ovoid shape of the previously described AuRR anomaly although the URR anomaly is less well-defined. Elsewhere on the claim group elevated URR are present as single-sample, isolated responses.



CeRR (1- 160): The light rare earth element Ce, as a representative of the geochemically coherent REE, produces patterns of anomalous responses that approximate those for AuRR and URR. The CeRR anomaly is developed at the northern claim boundary and has an arcuate morphology. The definition of the anomaly is based upon organic and inorganic soil sample analyses. The maximum response ratios are 160 times background.



OBSERVATIONS and DISCUSSION

General Comments

This MMI-M survey at the Shell Creek property of Logan Resources has identified two significant types of anomalies based on constituent elements and anomaly morphology. The first of these is an arcuate to ovoid AuRR-URR-CeRR anomaly situated at the northern claim boundary. Despite the crude definition of this circular response it is present in multiple samples and for the elements U and Ce as well. This anomaly likely extends past the claim boundaries. The second significant feature is a somewhat linear, northeast-trending Bi anomaly that extends off of the claim group to the southwest. This is a strong base metal anomaly with associated Pb-Zn-Cu anomalous responses albeit there are only single sample anomalies for Cu in this feature. The Bi-Pb-Zn-Cu anomaly is

developed within the larger Au-U-Ce ovoid and both of these features are interpreted to be reflective of mineralization within the bedrock. It is possible the ovoid Au-U-Ce anomaly is an earlier phase of mineralization and the linear Bi-Pb-Zn-Cu anomaly has been subsequently superimposed on the ovoid although follow-up examination of this possibility would determine the validity of this scenario.

Soil Types

In the Shell Creek survey, soil samples were collected at a consistent depth of 10-25 cm below the active or non-humified organic layer. In the majority of cases this depth resulted in the collection of an inorganic soil sample. In some cases this resulted in the collection of an organic sample. Although there is no statistically significant difference in metal contents between organic and inorganic soil samples analyzed with MMI-M the results from the Shell Creek survey indicate that the inclusion of organic soil samples can result in some variance in the geochemical patterns observed in the survey results. This variance can be recognized by the nature of the response whereby a single elevated organic soil sample that is developed in isolation from adjacent organic and inorganic soil samples can likely be ignored. Further, if there is available geophysics or geology in the vicinity of the organic anomaly then the possibility of a *bona fide* anomaly can be reviewed in terms of additional information. This feature does not seem to place any restrictions of the *bona fide* nature of the anomalies at Shell Creek. In the Shell Creek survey the multi-element and multi-sample anomalies are based

primarily on inorganic soil samples and the results are not skewed by the inclusion of organic soils in the database. This possibility was avoided by extracting the organic soils from the database and calculating response ratios for them separately.

Data Quality

The Shell Creek survey was undertaken with a significant component of quality control sampling. Analytical duplicates were assessed with simple linear regression and demonstrate the quality of data used for interpretation is excellent such that the data is not a hindrance to the recognition of *bona fide* anomalies. Replicate analyses of analytical blanks indicates no significant contamination is being introduced into the sample and the analyses are interpreted to be accurate based on the agreement between the recommended and observed analytical data for the MMI standard MMISRM16.

These observations are of prime importance since properly collected samples without a framework of "QC" provides no assurance that the data is genuinely reflecting the accurate and reproducible distribution of elements of interest in the survey area.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are evident from this MMI-M exploration survey on the Shell Creek property.

1. The survey has successfully demonstrated that MMI-M partial extractions on inorganic and organic soil samples collected from the Shell Creek claim group can isolate MMI-M precious and base metal anomalies. This includes the commodity elements Au, U and Ce and Bi-Pb-Zn-Cu.

2. The Shell Creek survey area is characterized by multiple high-contrast generally coincident and aerially extensive precious metal and associated metal anomalies in the northern portion of the survey area.

3. Two metallogenetically significant anomalies have been defined by the survey. These include an ovoid to semi-circular AuRR-URR-CeRR anomaly and a linear northeast-trending Bi-Pb-Zn-Cu anomaly that is encapsulated by the former.

4. The morphology and constituent elements contained within these two anomalies are suggestive of Olympic Dam-type mineralization with a base metal overprint.

5. Variability in analytical duplicate samples is present but is insignificant in terms of anomaly definition.

6. Sampling materials collected for MMI analysis are effective and appropriate sample media for an MMI survey.

7. The analyses generated by the MMI-M extraction are accurate and precise and are effective for the detection of low- to high-contrast anomalies.

The recommendations that flow from this survey are as follows:

1. The MMI process does not indicate the grade of mineralization responsible for the production of an MMI anomaly nor does it indicate the depth of the source region for the anomaly. Accordingly, it is strongly recommended that an attempt at modeling the geological setting of the target mineralization based on their geophysical responses with emphasis on depth to source be undertaken prior to a diamond drill program. This exercise can greatly assist the drilling when attempting to provide explanations for the geological context of geophysical and MMI anomalies. The attitude of the target can be effectively delineated in this manner.

2. Prior to diamond drill testing the MMI dataset should be integrated with all available geophysical and geological surveys so that multivariate drill targets can be determined.

3. The inclusion of a soil sample to act as a standard in the future is an absolute necessity if the quality of analytical data is to be monitored with field

duplicates. The necessary standards should have a significant range in concentration for the commodity elements of interest.

Mark Fedikow

Mount Morgan Resources Ltd.

Lac du Bonnet, Manitoba

February 9, 2009

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CERTIFICATE of AUTHOR

I, Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P.Eng., P.Geo., do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with a field office at:

   50 Dobals Road North,
   Lac du Bonnet, Manitoba, Canada R0E 1A0.

2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975. In addition, I earned an M.Sc. in geophysics and geochemistry from the University of Windsor and a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney) in 1982.

3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba. I am also a Fellow of the Association of Exploration (Applied) Geochemists, and a Member of the Prospectors and Developers Association of Canada. I am registered as a Professional Engineer (P.Eng.) and a Professional Geologist (P.Eng.) by the Association of Professional Engineers and Geoscientists of Manitoba (APEGM). I am registered as a Certified Professional Geologist (C.P.G.) by the American Association of Professional geologists (Westminster, Colorado, U.S.A.).

4. I have worked as a geologist for a total of thirty-three years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.

5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.

6. I am responsible for the preparation of the technical report titled " Results Of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey on The Shell Creek Property of Logan Resources Ltd., Wernecke Mountains, Dawson Mining District, Yukon Territory, Canada"

7. I have not had prior involvement with the property that is the subject of the Technical Report.

8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

9. I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.

10. I consent to the filing of the Technical Report with any stock exchanges or other regulatory authority and any publication by them, including electronic publication in the public company files on the web-sites accessible by the public, of the Technical Report.

Dated this 9th Day of February, 2009.

SIGNED BY MARK FEDIKOW

_________________________.
Signature of Qualified Person

"M.A.F. Fedikow" .
Print name of Qualified Person

APPENDIX 1

GRID_ID	.IELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
1	SCRS_1_08	1	Gentle to W, in forest	Moderate	Wet	A	4	Black	No
10	SCRS_10_08	10	Flat, base of mountain, next to creek,	Moderate	Damp/wet	A	3	Black	No
11	SCRS_11_08	11	Steep NW, deep forest	Well	Damp	A	3	Black	No
12	SCRS_12_08	12	Moderate slope W	Well	Damp	B	3	Grey	Yes
13	SCRS_13_08	13	Steep E, deep forest	Well	Damp	B	3	Brown	No
14	SCRS_14_08	14	Moderate slope SW	Well	Damp	B	2.5	Brown	No
15	SCRS_15_08	15	Moderate slope to SE, forest	Well	Damp	B	3	Brown	No
16	SCRS_16_08	16	Flat, deep forest, base of mountain, creek	Well	Damp	A	3	Black	No
17	SCRS_17_08	17	Steep to S, deep forest	Well	Damp	A	3	Black	Yes
18	SCRS_18_08	18	Gentle slope, many trees	Moderate	Damp	B	3	Brown	No
19	SCRS_19_08	19	Gentle slope W, many trees	Moderate	Damp	B	3	Dark brown	No
2	SCRS_2_08	2	Moderate slope to S, thick forest	Well	Damp	B	3	Brown	No
20	SCRS_20_08	20	Gentle slope, grass and tree covered	Well	Damp	B	3	Grey brown	Yes, 250m E
21	SCRS_21_08	21	Moderate slope to E and creek, grass and trees uderlain by broken rock	Well	Damp/dry	A	2	Dark brown	Yes, 250m E downhill at creek - limestone
22	SCRS_22_08	22	Moderate slope W, some trees	Well	Damp	A	3	Dark brown	Yes
23	SCRS_23_08	23	Moderate SE slope, grass covered, some	Well	Damp	A	2	Very dark brown	Yes, to SE on ridge
24	SCRS_24_08	24	Steep E facing slope, vegetation	Good	Moist	B	2	Light brown and	
25	SCRS_25_08	25	Moderate slope to W, near bottom of valley	Moderate	Soggy	B	4	Dark brown and	No
26	SCRS_26_08	26	Downward, NW, valley, some flowers	Well	Damp	B	3	Grey	No
27	SCRS_27_08	27	Steep slope S	Well	Damp	B	3	Dark brown	Yes, at 1m
28	SCRS_28_08	28	Slope S, few trees, lots of shale	Good	Moist	B	2	Black	No
29	SCRS_29_08	29	Grass and moss, 45deg slope N	Well	Damp	B	4	Grey	No
3	SCRS_3_08	3	Moderate slope to S, thick forest	Well	Damp	B	3	Grey brown	No
30	SCRS_30_08	30	Steep to S, very vegetated area	Good	Damp	B	4	Silvery grey	No
4	SCRS_4_08	4	Gentle to W, bottom valley	Moderate	Damp	B	4	Dark grey	No
43	SCRS_43_08	43	Moderate W slope	Well	Wet	B	3	Greyish brown	Yes
44	SCRS_44_08	44	Moderate W slope	Moderate	Wet	A	2	Black	No
45	SCRS_45_08	45	Steep W slope	Well	Dry	A	1	Brown	No
46	SCRS_46_08	46	Steep E slope	Well	Damp	A	2	Black	Yes
47	SCRS_47_08	47	Gentle	Moderate	Dry	A	2	Brown	Yes
48	SCRS_48_08	48	Steep W slope	Well	Dry	B	2	Brown	Yes
49	SCRS_49_08	49	Moderate SE slope	Well	Wet	B	3	Brown	No
5	SCRS_5_08	5	Moderate slope to N	Moderate	Damp	A	4	Black	No
51	SCRS_51_08	51	Steep slope W	Moderate	Damp	B	3	Dark - black	No
52	SCRS_52_08	52	Steep slope	Well	Dry	B	2	Dark Grey	Yes, lots
53	SCRS_53_08	53	Steep slope SE	Well	Dry	B	2	Dark	Yes, lots
54	SCRS_54_08	54	Steep slope S	Well to moderate	Dry/Damp	B	1	Dark Grey	Yes
6	SCRS_6_08	6	Steep slope to SW	Well	Damp	B	3	Dark brown	No
7	SCRS_7_08	7	Moderate to S, near top of hill	Well	Damp	B	3	Brown	No
8	SCRS_8_08	8	Steep slope to E	Well	Damp	B	3	Brown	Yes, at 40m
9	SCRS_9_08	9	Steep SW, deep forest	Well	Damp	A	3	Black	No
100	SCRS_100_08	100	Steep slope W	Well	Dry	B	3	Dark grey	Yes
101	SCRS_101_08	101	Steep slope N	Well	Dry	B	3	Dark grey	No
102	SCRS_102_08	102	Steep slope SE	Well	Dry	B	4	Light brown	No
103	SCRS_103_08	103	Steep slope E	Well	Dry	B	3	Dark brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
104	SCRS_104_08	104	Steep slope E	Poor	Wet	B	4	Dark brown	No
105	SCRS_105_08	105	Moderate slope to S, above creek, thick moss and spruce	Moderate	Damp	B	4	Dark grey to brown	No
106	SCRS_106_08	106	Top of small hill - flat area	Moderate	Damp	B	4	Creamy orangey light brown	No
114	SCRS_114_08	114	Moderate slope toN	Well	Damp	A	4	Black	No
115	SCRS_115_08	115	Flat, 5m from creek	Moderate	Wet	B	4	Grey with some orange brown	No
116	SCRS_116_08	116	Flat, top of hill	Moderate	Damp	B	3	Brown	No
117	SCRS_117_08	117	Flat, top pf hill	Well	Damp	B	2	Grey brown	No
118	SCRS_118_08	118	Moderate slope to E	Well	Damp	A	4	Black	No
119	SCRS_119_08	119	Moderate slope to W	Moderate	Damp	B	3	Grey	No
120	SCRS_120_08	120	Flat, on top of hill	Well	Damp	B	3	Brown	No
121	SCRS_121_08	121	Flat, 7m from creek	Moderate	Damp	B	4	Grey	No
122	SCRS_122_08	122	Flat forest	Moderate	Wet	B	2	Grey	No
123	SCRS_123_08	123	Gentle to E	Moderate	Wet	B	3	Grey brown	No
124	SCRS_124_08	124	Gentle slope to E, forest in valley	Moderate	Damp	B	2	Brown	No
125	SCRS_125_08	125	S facing slope, moss and trees	Well	Damp	A	2	Light brown	No
126	SCRS_126_08	126	Flat ridge with moss	Well	Damp	A	4	Light grey	No
127	SCRS_127_08	127	Flat	Moderate	Damp	B	2	Brown	Yes
128	SCRS_128_08	128	Gentle slope	Moderate	Damp	A	1	Brown	No
129	SCRS_129_08	129	Moderate slope	Well	Damp	A	2	Brown	No
130	SCRS_130_08	130	Gentle slope with a lot of trees	Well	Dry	A	1	Light brown	No
55	SCRS_55_08	55	Steep slope S	Moderate	Damp	B	3	Dark Grey	No
56	SCRS_56_08	56	Steep slope NE	Moderate	Damp	B	3	Dark Grey	No
57	SCRS_57_08	57	Steep slope W	Moderate	Damp	B	2	Dark brown	No
58	SCRS_58_08	58	Steep	Well	Damp	B	3	Grey	Yes
59	SCRS_59_08	59	Steep	Well	Damp	B	2	Grey	Yes
60	SCRS_60_08	60	Steep	Well	Damp	B	3	Brown, grey	Yes
61	SCRS_61_08	61	Steep	Well	Damp	B	2	Brown, grey	No
62	SCRS_62_08	62	Steep	Well	Damp	B	2	Grey	Yes
63	SCRS_63_08	63	Steep	Well	Damp	A	1	Brown	Yes
64	SCRS_64_08	64	Steep	Well	Damp	A	1	Brown	Yes
65	SCRS_65_08	65	Moderate	Well	Damp	A	1	Dark brown	Yes
66	SCRS_66_08	66	Steep	Well	Damp	B	2	Grey	Yes
68	SCRS_68_08	68	Moderate	Well	Damp	B	3	Grey brown	Yes
69	SCRS_69_08	69	Moderate	Well	Damp	B	3	Dark brown	No
70	SCRS_70_08	70	Gentle slope, trees	Moderate	Damp	A	2	Brown	No
71	SCRS_71_08	71	Flat, lots of trees	Poor	Damp	B	2	Grey brown	No
72	SCRS_72_08	72	Flat	Poor	Damp	A	2	Brown	No
73	SCRS_73_08	73	Flat	Moderate	Damp	B	3	Grey brown	No
74	SCRS_74_08	74	Very gentle, trees	Poor	Damp	A	2.5	Brown	No
75	SCRS_75_08	75	Flat, trees	Well	Wet	B	3	Grey	Yes
76	SCRS_76_08	76	Moss covered plateau, slight dip to N	Well	Wet/damp	B	3	Yellowish grey brown	No
77	SCRS_77_08	77	Very gentle E facing slope, beside small drainage channel, very dense vegetation	Well	Damp	B	3	Grey brown	No
78	SCRS_78_08	78	Moderate to steep W facing slope, spruce and moss underlain by boulders	Well	Damp	A	2	Black, hint of grey brown	No
79	SCRS_79_08	79	Top of ridge trending N-S, steep to E and W,	Well	Damp	B	4	Medium grey brown	Yes, along ridge

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
	SCRS_9104_08	9104	Steep slope E	Poor	Wet	B	4	Dark brown	No
98	SCRS_98_08	98	Steep slope W	Well	Dry	B	3	Dark grey	Yes
99	SCRS_99_08	99	Steep	Well	Dry	B	3	Light brown	No
	555_1_08	555108		Well	Damp	B	3	Grey	Yes, uphill
	555_2_08	555208		Well	Damp	B	1	Grey brown	
	555_3_08	555308		Well	Damp	B	1	Greyish yellowish brown	
	555_4_08	555408		Well	Damp	B	3	Brown	
	555_5_08	555508		Well	Damp	B	1	Dark brown	
	555_6_08	555608		Well	Damp	B	4	Brown	
	555_7_08	555708		Well	Damp	B	1	Medium to dark grey brown	
	555_8_08	555808		Well	Damp	B	2	Brown	
	555_91_08	5559108		Well	Damp	B	3	Grey	Yes, 50m S
110	SCRS_110_08	110	Gentle slope to NE	Well	Damp	B	3	Grey	No
111	SCRS_111_08	111	Flat valley	Well	Damp	B	4	Grey	No
112	SCRS_112_08	112	Flat, on a small ridge	Well	Damp	B	4	Grey	No
113	SCRS_113_08	113	Steep slope to NE	Well	Damp	B	2	Grey	Yes, at 40m
149	SCRS_149_08	149	Gentle slope to SW, top of hill	Moderate	Damp	B	3	Brown grey	No
150	SCRS_150_08	150	Moderate slope to SW	Well	Damp	A	4	Black	No
151	SCRS_151_08	151	Moderate slope to E, thick forest	Well	Damp	B	4	Grey brown	No
152	SCRS_152_08	152	Gentle slope to S in a valley, 20m from	Well	Damp	B	3	Grey	No
153	SCRS_153_08	153	Moderate slope to W	Moderate	Damp	B	2	Grey	No
154	SCRS_154_08	154	Flat, on a ridge	Well	Damp	B	3	Brown	Yes, at 15m
155	SCRS_155_08	155	Gentle slope to SW, top of hill	Well	Damp	B	3	Brown	No
156	SCRS_156_08	156	Moderate slope to N	Well	Damp	A	4	Black	No
157	SCRS_157_08	157	Gentle slope to N, 15m from creek	Moderate	Damp	A	4	Black	No
158	SCRS_158_08	158	Gentle slope to W	Moderate	Damp	B	4	Grey	No
170	SCRS_170_08	170	Gentle slope	Well	Dry	B	1	Grey	No
171	SCRS_171_08	171	Gentle slope	Moderate	Dry	A	1	Brown	Yes
172	SCRS_172_08	172	Moderate slope	Well	Damp	A	2	Brown	No
173	SCRS_173_08	173	Gentle slope to E	Well	Damp	B	3	Grey	No
174	SCRS_174_08	174	Moderate slope to SW	Well	Damp	B	2	Grey brown	Yes, at 30m
183	SCRS_183_08	183	Flat, lots of trees	Well	Damp	A	2	Black and brown	Yes
184	SCRS_184_08	184	Flat, trees	Moderate	Damp	A	2	Black and brown	Yes
185	SCRS_185_08	185	Flat	Moderate	Wet	B	2	Grey brown	Yes
186	SCRS_186_08	186	Gentle slope, trees	Well	Damp	B	2	Brown grey	Yes
187	SCRS_187_08	187	Moderate slope, trees	Well	Wet	A	2	Brown	No
188	SCRS_188_08	188	Flat, forest	Moderate	Damp	A	2	Brown	Yes
189	SCRS_189_08	189	Very gentle slope, trees	Well	Wet	B	3	Grey	No
199	SCRS_199_08	199	Gentle slope	Well	Damp	B	2	Brown	Yes
200	SCRS_200_08	200	Moderate slope	Well	Dry	A	2	Brown	Yes
201	SCRS_201_08	201	Steep	Well	Damp	A	2	Brown	No
202	SCRS_202_08	202	Moderate slope	Well	Damp	A	2	Dark brown	Yes
203	SCRS_203_08	203	Flat	Well	Damp	A	2	Brown	Yes
204	SCRS_204_08	204	Gentle slope	Moderate	Damp/dry	A	2	Brown black	No
205	SCRS_205_08	205	Gentle slope	Well	Damp	A	2	Brown	Yes
211	SCRS_211_08	211	Steep slope W	Well	Dry	A	1	Black	Yes
212	SCRS_212_08	212	Steep slope	Well	Dry	A	1	Black	Yes

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
213	SCRS_213_08	213	Steep slope NE	Well	Dry	B	4	Creamy brown	Yes
214	SCRS_214_08	214	Steep slope N	Well	Damp	B	3	Grey to black	Yes
215	SCRS_215_08	215	Steep slope NE	Well	Dry	B	3	Grey	Yes
216	SCRS_216_08	216	Steep slope S	Well	Dry	A	1	Light brown	No
217	SCRS_217_08	217	Moderate slope E	Moderate	Damp	A	1	Black	No
218	SCRS_218_08	218	Moderate slope NW	Moderate	Damp	A	1	Dark, black	No
219	SCRS_219_08	219	Moderate slope SW	Well	Dry	B	3	Dark grey	No
220	SCRS_220_08	220	Moderate slope SE	Well	Dry	B	4	Grey	No
221	SCRS_221_08	221	Moderate slope	Well	Dry	A	1	Orangey brown	No
222	SCRS_222_08	222	Flat	Moderate	Damp	B	4	Grey	No
229	SCRS_229_08	229	Moderate slope NE	Well	Damp	B	3	Brown	No
230	SCRS_230_08	230	Steep slope E, bushes and forest	Well	Damp	B	2.5	Grey brown	No
231	SCRS_231_08	231	Moderate slope W	Well	Damp	B	4	Brown grey	No
232	SCRS_232_08	232	Flat,ridge, bushes	Well	Dry	B	4	Light brown	No
233	SCRS_233_08	233	Steep slope SW, forest	Well	Dry	B	3	Light brown	No
234	SCRS_234_08	234	Flat, by creek, base of mountain	Poor	Damp/wet	B	4	Grey	No
235	SCRS_235_08	235	Gentle slope E, moss, forest	Well	Damp/wet	B	3	Grey	No
236	SCRS_236_08	236	Gentle slope W, moss, forest	Moderate	Damp	B	4	Grey	No
237	SCRS_237_08	237	Gentle slope E	Moderate	Damp/wet	B	3	Grey	No
238	SCRS_238_08	238	Flat, swampy, moss, forest	Moderate	Damp/wet	A	3	Black	No
239	SCRS_239_08	239	Flat, swampy	Moderate	Damp	B	4	Grey	No
244	SCRS_244_08	244	Gentle slope to NW	Moderate	Damp	B	3	Grey	No
245	SCRS_245_08	245	Flat valley	Well	Damp	A	4	Black	No
246	SCRS_246_08	246	Gentle slope to S	Well	Damp	B	3	Brown	No
247	SCRS_247_08	247	Moderate slope to S	Well	Damp	B	2	Brown	No
248	SCRS_248_08	248	Gentle slope to NW	Moderate	Wet	B	2	Grey	No
249	SCRS_249_08	249	Gentle slope to W, near top of hill	Well	Damp	B	2	Brown	No
250	SCRS_250_08	250	Gentle to E	Moderate	Damp	B	4	Grey	No
251	SCRS_251_08	251	Moderate slope to N	Moderate	Damp	B	4	Grey	No
252	SCRS_252_08	252	Flat	Moderate	Wet	B	4	Grey	No
253	SCRS_253_08	253	Gentle slope to E	Moderate	Damp	B	4	Grey	No
254	SCRS_254_08	254	Flat, near swamp	Poor	Wet	B	4	Grey	No
255	SCRS_255_08	255	Gentle slope to S	Moderate	Damp	B	3	Brown	No
277	SCRS_277_08	277	Moderate slope	Well	Damp	A	2	Brown	Yes
278	SCRS_278_08	278	Steep slope	Moderate	Damp	A	3	Dark brown	Yes
279	SCRS_279_08	279	Gentle	Moderate	Damp	B	2	Brown	Yes
280	SCRS_280_08	280	Flat	Well	Damp	A	3	Brown	No
281	SCRS_281_08	281	Gentle	Well	Damp	A	3	Brown	No
282	SCRS_282_08	282	Flat	Moderate	Wet	A	2	Brown black	No
283	SCRS_283_08	283	Flat, trees	Moderate	Wet	B	2	Brown	No
	5552_1_08	5552108		Moderate	Wet	B	3	Dark grey brown	
	5552_2_08	5552208		Moderate	Damp	B	1	Yellowish brown	
	5552_3_08	5552308		Well	Damp	B	2	Light yellowish brown	
	5552_4_08	5552408		Well	Damp	B	2	Brown	
	5552_5_08	5552508		Well	Damp	B	1	Dark grey brown	
	5552_6_08	5552608		Well	Damp	B	1	Brown	
	5552_7_08	5552708		Well	Damp	B	1	Light greyish brown	
	5552_8_08	5552808		Well	Damp	B	1	Light yellowish brown	
107	SCRS_107_08	107	Steep slope to NE	Moderate	Damp	B	2	Brown	No
108	SCRS_108_08	108	Moderate slopeto NW, 15m from creek	Well	Damp	B	2	Brown	No

GRID_ID	ELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
109	SCRS_109_08	109	Moderate slope to N	Moderate	Wet	B	2	Grey brown	No
190	SCRS_190_08	190	Steep slope SW	Well	Dry	B	3	Dark grey	No
191	SCRS_191_08	191	Flat, top of a hill	Well	Dry	B	4	Grey	No
192	SCRS_192_08	192	Steep slope	Well	Dry	B	3	Orangey brown	Yes
193	SCRS_193_08	193	Steep slope E	Well	Dry	A	1	Black	Yes
194	SCRS_194_08	194	Steep slope	Well	Dry	B	3	Dark grey	No
195	SCRS_195_08	195	Steep slope S	Well	Dry	B	3	Grey	Yes
196	SCRS_196_08	196	Steep slope SE	Well	Dry	B	3	Grey	Yes
197	SCRS_197_08	197	Steep slope W	Well	Dry	A	3	Dark grey	Yes
198	SCRS_198_08	198	Steep slope E	Well	Dry	A	1	Black	Yes
207	SCRS_207_08	207	Steep slope E	Well	Dry	A	1	Black	No
208	SCRS_208_08	208	Steep slope NW	Well	Dry	B	4	Brown to grey	No
209	SCRS_209_08	209	Flat, top of a hill	Well	Dry	B	4	Orangey brown	No
210	SCRS_210_08	210	Steep slope N	Well	Dry	B	4	Grey	No
223	SCRS_223_08	223	Steep slope NW	Well	Damp	A	3	Black	No
224	SCRS_224_08	224	Moderate slope W	Poor	Damp	B	3	Grey	No
225	SCRS_225_08	225	Steep slope W	Well	Damp	B	2	Orangey brown	No
226	SCRS_226_08	226	Steep slope W	Well	Damp	B	3	Brown to grey	No
227	SCRS_227_08	227	Steep slope SW	Well	Dry	B	3	Orangey brown	No
228	SCRS_228_08	228	Flat, top of a hill	Well	Damp/dry	B	3	Orangey grey	Yes
236	SCRS_236_08	236	Gentle slope W, moss, forest	Moderate	Damp	B	4	Grey	No
240	SCRS_240_08	240	Steep slope E	Well to moderate	Damp	A	1	Black	No
241	SCRS_241_08	241	Steep slope	Well	Damp	A	1	Black	No
242	SCRS_242_08	242	Steep slope N	Moderate	Damp	B	4	Orangey grey	No
243	SCRS_243_08	243	Steep slope NE	Moderate	Damp	B	4	Grey	No
257	SCRS_257_08	257	Gentle slope	Moderate	Wet	A	2	Brown	No
258	SCRS_258_08	258	Flat by the creek, swampy	Moderate	Damp/wet	A	3	Black	No
259	SCRS_259_08	259	Flat slope W, next to creek, forest	Moderate	Damp/wet	B	4	Dark grey	No
260	SCRS_260_08	260	Gentle slope SW, forest	Well	Damp	B	3	Grey	No
271	SCRS_271_08	271	Moderate slope	Well	Damp	A	2	Dark brown	Yes
272	SCRS_272_08	272	Gentle slope	Well	Damp	A	2	Brown	No
273	SCRS_273_08	273	Moderate slope	Well	Damp	A	2	Brown	Yes
274	SCRS_274_08	274	Flat, top of mountain	Moderate	Damp	A	2	Brown	Yes
275	SCRS_275_08	275	Moderate with trees	Well	Damp	A	2	Brown	Yes
276	SCRS_276_08	276	Flat	Well	Damp	B	3	Brown	Yes
284	SCRS_284_08	284	Slope	Well	Damp	B	3	Dark grey	No
285	SCRS_285_08	285	Steep slope W	Well	Damp	B	2.5	Grey	Yes
286	SCRS_286_08	286	Moderate slope N	Well	Damp	B	2	Brown	No
287	SCRS_287_08	287	Moderate slope SW, top of mountain	Well	Damp	B	3	Brown	Yes
288	SCRS_288_08	288	Steep slope E, forest	Well	Damp	A	3	Black	Yes
289	SCRS_289_08	289	Moderate slope N	Well	Damp	B	3	Brown	No
290	SCRS_290_08	290	Steep slope NE	Well	Damp	B	3	Brown	No
291	SCRS_291_08	291	Moderate slope W, forest	Moderate	Damp	B	3	Grey	No
292	SCRS_292_08	292	Gentle slope NE	Moderate	Damp	B	3	Grey	No
293	SCRS_293_08	293	Gentle slope E	Well	Damp	A	3	Black	No
294	SCRS_294_08	294	Flat, next to creek, base of mountain	Moderate	Damp	B	3	Grey	No
295	SCRS_295_08	295	Moderate slope to SW	Well	Damp	B	4	Grey brown	No
296	SCRS_296_08	296	Moderate slope to W	Well	Damp	A	4	Black	No
297	SCRS_297_08	297	Gentle slope to S	Well	Damp	A	4	Black	No
298	SCRS_298_08	298	Moderate slope to E	Well	Damp	B	3	Brown	No
299	SCRS_299_08	299	Gentle slope to SE	Well	Damp	B	4	Grey brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
300	SCRS_300_08	300	Flat valley,15m from creek	Moderate	Damp	B	4	Grey brown	No
301	SCRS_301_08	301	Moderate slope to SW	Well	Damp	B	4	Brown	Yes, at 15m
302	SCRS_302_08	302	Gentle slope to SE	Moderate	Damp	B	2	Grey	No
303	SCRS_303_08	303	Gentle slope to N	Well	Damp	B	4	Grey	No
304	SCRS_304_08	304	Gentle slope to NE, 10m from creek	Well	Damp	B	4	Grey	No
305	SCRS_305_08	305	Moderate slope to W	Well	Damp	B	4	Brown	No
306	SCRS_306_08	306	Flat, on top of hill	Well	Damp	B	3	Grey brown	No
307	SCRS_307_08	307	Flat, on a ridge	Well	Damp	B	4	Brown	Yes, at 20m
308	SCRS_308_08	308	Flat, next to creek, swampy	Moderate	Damp/wet	A	3	Black	No
309	SCRS_309_08	309	Moderate slope N	Well	Damp	B	3	Grey	No
310	SCRS_310_08	310	Moderate slope SW	Well	Damp	B	4	Grey brown	No
311	SCRS_311_08	311	Steep slope SE, forest	Well	Damp	B	2.5	Brown	No
312	SCRS_312_08	312	Gentle slope E, next to creek	Well	Damp	B	3	Grey	No
313	SCRS_313_08	313	Gentle slope NW	Well	Damp	B	2	Grey	Yes
50	SCRS_50_08	50	Moderate slope to SW	Well	Damp	B	2	Grey	No
67	SCRS_67_08	67	Gentle slope to N	Well	Damp	B	4	Light brown	No
	SCRS_9211_08	9211	Steep slope	Moderate	Damp	B	3	Grey to brown	No
131	SCRS_131_08	131	Steep hill NW togully. Grassy,underlain by	Well	Damp	B	3	Dark brown	Yes, just uphill
132	SCRS_132_08	132	Moderate slope SE to valley, just below	Well	Damp	B	2	Dark brown	Yes, S along ridge
133	SCRS_133_08	133	Very gentle slope N, forest	Well	Damp	A	3	Dark brown	No
134	SCRS_134_08	134	Very gentle slope W to creek	Well	Damp	B	3	Medium grey brown	No
135	SCRS_135_08	135	Moderate NE slope, just above dense	Well	Damp	B	2	Grey	Yes, limeston OC
136	SCRS_136_08	136	Gentle slope SE, forest	Well	Damp	B	4	Light brown	No
137	SCRS_137_08	137	Moderate slope W, forest	Well	Damp	B	4	Dark grey	No
138	SCRS_138_08	138	Gentle slope N	Moderate	Damp	B	3	Grey brown	No
139	SCRS_139_08	139	Gentle slope N	Moderate	Damp/wet	B	4	Grey	No
140	SCRS_140_08	140	Gentle slope NW	Well	Damp	B	3	Grey	No
141	SCRS_141_08	141	Gentle slope E	Well	Damp	B	4	Brown	No
142	SCRS_142_08	142	Moderate slope W	Well	Damp	B	4	Dark grey	Yes
143	SCRS_143_08	143	Gentle slope N	Well	Damp	B	3	Brown grey	No
144	SCRS_144_08	144	Flat, swampy	Poor	Wet	B	3	Dark grey	No
145	SCRS_145_08	145	flat, bushes	Moderate	Damp/wet	B	4	Brown	No
146	SCRS_146_08	146	Flat, small bushes	Well	Damp	B	4	Light brown	No
147	SCRS_147_08	147	Flat, small bushes	Well	Damp	B	4	Brown grey	No
148	SCRS_148_08	148	Moderate slope	Moderate	Damp	B	2	Grey brown	No
159	SCRS_159_08	159	Steep slope E	Well	Dry	A	2	Brown	Yes
160	SCRS_160_08	160	Steep slope W	Well	Dry	A	1	Orangey brown	Yes
161	SCRS_161_08	161	Flat	Well	Dry	B	4	Grey	No
162	SCRS_162_08	162	Moderate slope N	Well	Dry	A	1	Black	No
163	SCRS_163_08	163	Moderate slope N	Well	Dry	A	1	Dark	No
164	SCRS_164_08	164	Moderate slope E	Well	Dry	B	3	Grey	No
165	SCRS_165_08	165	Moderate slope E	Well	Dry	A	1	Black	No
166	SCRS_166_08	166	Moderate slope NE	Well	Dry	A	1	Orangey brown	No
167	SCRS_167_08	167	Moderate slope SW	Moderate	Damp	B	4	Grey	No
168	SCRS_168_08	168	Pretty flat	Well	Dry	A	3	Dark	No
169	SCRS_169_08	169	Moderate slope N	Well	Dry	A	3	Dark brown	No
175	SCRS_175_08	175	Steep S, cliffs	Well	Damp/dry	B	3	Brown	Yes
176	SCRS_176_08	176	Steep W, forest	Well	Damp	B	1	Grey	No
177	SCRS_177_08	177	Moderate slope E, ridge	Well	Damp	B	2.5	Dark brown	Yes
178	SCRS_178_08	178	Moderate slope W	Well	Damp	B	3	Light brown	No
179	SCRS_179_08	179	Gentle slope NE	Well	Damp/dry	B	3	Light brown	No
180	SCRS_180_08	180	Flat, slope towards creek 40m SW	Well	Damp	B	2.5	Light brown	No

GRID_ID	FIELD_NUMBER	NUMBER	Topography	Drainage	Moisture	Horizon	SQI	Colour	Outcrop
181	SCRS_181_08	181	Flat, swampy, next to creek	Moderate	Damp/wet	B	3	Grey	No
182	SCRS_182_08	182	Gentle slope W	Well	Damp	B	3	Light brown	No
206	SCRS_206_08	206	Flat, swampy area	Poor	Wet	B	4	Brown	No
261	SCRS_261_08	261	Steep slope S	Well	Dry	A	1	Brown to black	Yes
262	SCRS_262_08	262	Moderate slope W	Well	Dry	A	1	Dark brown	No
263	SCRS_263_08	263	Steep slope NE	Well	Dry	A	1	Brown to black	No
264	SCRS_264_08	264	Flat	Well	Damp/dry	A	1	Black	No
265	SCRS_265_08	265	Steep slope NW	Well	Damp	A	1	Black	No
266	SCRS_266_08	266	Moderate slope S	Well	Dry	A	1	Black	No
267	SCRS_267_08	267	Steep slope E	Well	Dry	A	1	Black	No
268	SCRS_268_08	268	Moderate slope NE	Well	Damp/dry	A	1	Black	No
269	SCRS_269_08	269	Flat, next to lake	Poor	Damp	B	4	Grey	No
270	SCRS_270_08	270	Moderate slope S	Moderate	Damp/dry	B	4	Grey	No
31	SCRS_31_08	31	Ridge	Well	Damp	B	4	Grey	Yes
32	SCRS_32_08	32	Ridge	Well	Damp	B	3.5	Brown	Yes
33	SCRS_33_08	33	Ridge	Well	Damp	B	2	Dark grey	Yes
34	SCRS_34_08	34	Steep SE, forest begins here	Well	Damp	A	3	Black	Yes
35	SCRS_35_08	35	Steep S, deep forest	Well	Damp	B	3	Dark brown	Yes
36	SCRS_36_08	36	Moderate slope W, forest	Moderate	Damp	B	1	Grey	Yes
37	SCRS_37_08	37	Steep W, giant gully between two mountains	Well	Damp	B	2	Bluish grey	Yes
38	SCRS_38_08	38	Moderate slope N	Well	Damp	B	3	Dark grey	No
39	SCRS_39_08	39	Steep NW, forest	Well	Damp	B		Dark grey	Yes
40	SCRS_40_08	40	Moderate slope W	Well	Damp	B	2	Grey	No
41	SCRS_41_08	41	Steep NE, shales, small boulders	Well	Damp	A	3	Black	Yes
42	SCRS_42_08	42	Flat, plateau on ridge	Well	Damp	A	3	Black	Yes
80	SCRS_80_08	80	Flat	Well	Damp	B	2	Grey	Yes
81	SCRS_81_08	81	Steep	Well	Damp	B	2	Grey	Yes
82	SCRS_82_08	82	Steep	Well	Damp	B	3	Grey	Yes
83	SCRS_83_08	83	Steep	Well	Damp	B	2	Brown	Yes
84	SCRS_84_08	84	Flat	Well	Damp	B	3	Grey, brown	Yes
85	SCRS_85_08	85	Steep	Well	Damp	B	2	Brown	Yes
86	SCRS_86_08	86	Steep	Well	Damp	B	2	Brown	Yes
87	SCRS_87_08	87	Steep	Well	Damp	B	2	Brown	Yes
88	SCRS_88_08	88	Steep	Well	Wet	B	3	Grey	Yes
89	SCRS_89_08	89	Moderate	Well	Damp	B	3	Grey	Yes
90	SCRS_90_08	90	Steep slope to SW	Well	Damp	A	3	Black	No
91	SCRS_91_08	91	Moderate slope to E	Well	Damp	A	3	Black	No
92	SCRS_92_08	92	Moderate slope to N	Well	Damp	A	4	Black	No
93	SCRS_93_08	93	Moderate slope to E	Well	Damp	A	4	Black	No
94	SCRS_94_08	94	Moderate slope to N	Well	Damp	B	4	Grey	No
95	SCRS_95_08	95	Moderate slope to E	Well	Damp	A	4	Black	No
96	SCRS_96_08	96	Gentle slope to W, 30m from creek	Moderate	Damp	B	3	Grey	No
967	SCRS_967_08	967	Moderate slope to E	Well	Damp	B	3	Grey	No
968	SCRS_968_08	968	Moderate slope to W	Well	Damp	B	3	Grey	No
97	SCRS_97_08	97	Flat	Well	Damp	B	4	Grey	No
	SCRS_980_08	980	Steep	Well	Damp	B	3	Grey	Yes

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
1	SCRS_1_08		Thomas	7156557.14	534765.26	TO102352	SCRS_1_08	0.5	24
10	SCRS_10_08		Kevin	7157539.63	534692.87	TO102352	SCRS_10_08	0.5	1
11	SCRS_11_08		Kevin	7157635.29	535287.86	TO102352	SCRS_11_08	0.5	43
12	SCRS_12_08		Kevin	7157540.75	535789.89	TO102352	SCRS_12_08	1	110
13	SCRS_13_08		Kevin	7158083.80	533897.12	TO102352	SCRS_13_08	0.5	0.5
14	SCRS_14_08		Kevin	7158038.69	534321.02	TO102352	SCRS_14_08	8	0.5
15	SCRS_15_08		Kevin	7157959.75	534759.18	TO102352	SCRS_15_08	7	0.5
16	SCRS_16_08		Kevin	7158026.62	535160.48	TO102352	SCRS_16_08	0.5	25
17	SCRS_17_08		Kevin	7157959.29	535762.59	TO102352	SCRS_17_08	0.5	17
18	SCRS_18_08		Sarah	7158544.74	533754.00	TO102352	SCRS_18_08	3	0.5
19	SCRS_19_08		Sarah	7158551.15	534257.40	TO102352	SCRS_19_08	3	42
2	SCRS_2_08		Thomas	7156569.46	535244.57	TO102352	SCRS_2_08	10	23
20	SCRS_20_08		Sarah	7158554.84	534767.54	TO102352	SCRS_20_08	11	53
21	SCRS_21_08		Sarah	7158543.44	535226.04	TO102352	SCRS_21_08	0.5	24
22	SCRS_22_08		Sarah	7158555.67	535756.77	TO102352	SCRS_22_08	0.5	47
23	SCRS_23_08		Sarah	7158550.87	536241.93	TO102352	SCRS_23_08	0.5	49
24	SCRS_24_08	Clay	Bronwyn	7159059.20	533747.02	TO102352	SCRS_24_08	9	19
25	SCRS_25_08	Clay	Bronwyn	7159037.36	534275.64	TO102352	SCRS_25_08	12	15
26	SCRS_26_08	Fairly rocky with lots of heavy moss, grey clay, small creek a few metres away	Bronwyn	7159015.26	534768.89	TO102352	SCRS_26_08	1	33
27	SCRS_27_08	Clay	Bronwyn	7159048.68	535258.44	TO102352	SCRS_27_08	17	13
28	SCRS_28_08	Silty dirt	Bronwyn	7159053.55	535714.89	TO102352	SCRS_28_08	0.5	14
29	SCRS_29_08	Clay	Bronwyn	7159039.17	536262.89	TO102352	SCRS_29_08	10	35
3	SCRS_3_08		Thomas	7157046.78	533764.43	TO102352	SCRS_3_08	18	17
30	SCRS_30_08	Clay	Bronwyn	7159592.25	534243.14	TO102352	SCRS_30_08	4	27
4	SCRS_4_08	Some permafrost	Thomas	7157059.01	534243.64	TO102352	SCRS_4_08	3	43
43	SCRS_43_08	Big OC 150m E, very good sample, big trees	Archie	7160532.24	533243.13	TO102352	SCRS_43_08	0.5	31
44	SCRS_44_08	Big trees, vegetation thick	Archie	7160548.84	533756.88	TO102352	SCRS_44_08	0.5	64
45	SCRS_45_08	Boulder field, trees starting to grow	Archie	7160536.86	534256.19	TO102352	SCRS_45_08	2	11
46	SCRS_46_08	Boulder field, sample taken on OC, black soil	Archie	7160571.74	534744.61	TO102352	SCRS_46_08	0.5	18
47	SCRS_47_08	Beside creek, 10m, Vegetation is thick, big	Archie	7160541.96	535252.60	TO102352	SCRS_47_08	0.5	60
48	SCRS_48_08	Boulder field	Archie	7160540.64	535786.72	TO102352	SCRS_48_08	45	12
49	SCRS_49_08	Very bushy	Archie	7161050.83	532757.57	TO102352	SCRS_49_08	2	26
5	SCRS_5_08		Thomas	7157019.28	534714.20	TO102352	SCRS_5_08	0.5	34
51	SCRS_51_08	Spruce and lots of deadwood	Phil	7161100.90	533778.64	TO102352	SCRS_51_08	0.5	27
52	SCRS_52_08	Hard to get sample	Phil	7161027.66	534297.44	TO102352	SCRS_52_08	10	15
53	SCRS_53_08	Really steep, some spruce, can't find really	Phil	7161066.83	534712.29	TO102352	SCRS_53_08	8	64
54	SCRS_54_08	Lots of rock and trees, hard to find sample without roots.	Phil	7161568.11	532303.25	TO102352	SCRS_54_08	6	41
6	SCRS_6_08		Thomas	7157058.72	535259.79	TO102352	SCRS_6_08	0.5	15
7	SCRS_7_08		Thomas	7157564.86	533323.74	TO102352	SCRS_7_08	30	11
8	SCRS_8_08		Thomas	7157576.18	533705.83	TO102352	SCRS_8_08	13	35
9	SCRS_9_08		Kevin	7157586.99	534283.30	TO102352	SCRS_9_08	0.5	4
100	SCRS_100_08	Lots of rocks, hard to find sample	Phil and Daithi	7164042.21	530238.99	TO102353	SCRS_100_08	2	170
101	SCRS_101_08	Spruce, permafrost, lots of gravel	Phil and Daithi	7164090.51	530738.16	TO102353	SCRS_101_08	4	177
102	SCRS_102_08	Permafrost, creek above	Phil and Daithi	7164078.42	531233.61	TO102353	SCRS_102_08	16	201
103	SCRS_103_08	Above fast-going creek, permafrost	Phil and Daithi	7164079.38	531723.74	TO102353	SCRS_103_08	2	77

GRID_ID	.ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
104	SCRS_104_08	2 samples at this point	Phil and Daithi	7164063.71	532218.90	TO102353	SCRS_104_08	11	109
105	SCRS_105_08	Thick moss cover, soil moisture almost wet	Phil and Daithi	7164079.23	532712.07	TO102353	SCRS_105_08	1	40
106	SCRS_106_08	Good sample, dense clay, not much stones or chips	Phil and Daithi	7164057.12	533251.41	TO102353	SCRS_106_08	5	187
114	SCRS_114_08		Thomas	7164520.13	526311.29	TO102353	SCRS_114_08	0.5	48
115	SCRS_115_08	Some permafrost	Thomas	7164571.99	526736.48	TO102353	SCRS_115_08	10	59
116	SCRS_116_08		Thomas	7164567.63	527240.56	TO102353	SCRS_116_08	6	204
117	SCRS_117_08		Thomas	7164587.39	527753.64	TO102353	SCRS_117_08	3	154
118	SCRS_118_08		Thomas	7164588.99	528256.77	TO102353	SCRS_118_08	0.5	16
119	SCRS_119_08	Really thick layer of moss	Thomas	7164548.13	528753.36	TO102353	SCRS_119_08	2	68
120	SCRS_120_08		Thomas	7164555.27	529241.69	TO102353	SCRS_120_08	5	172
121	SCRS_121_08		Thomas	7164539.39	529758.83	TO102353	SCRS_121_08	0.5	80
122	SCRS_122_08		Thomas	7164539.13	530252.94	TO102353	SCRS_122_08	12	225
123	SCRS_123_08		Thomas	7164575.38	530721.14	TO102353	SCRS_123_08	5	82
124	SCRS_124_08		Thomas	7164519.91	531196.69	TO102353	SCRS_124_08	9	196
125	SCRS_125_08	Fairly rocky, very silty	Bronwyn	7164545.04	531748.96	TO102353	SCRS_125_08	2	251
126	SCRS_126_08	Clay	Bronwyn	7164563.11	532265.90	TO102353	SCRS_126_08	10	250
127	SCRS_127_08		Lukas	7165035.62	519756.33	TO102353	SCRS_127_08	0.5	17
128	SCRS_128_08		Lukas	7165137.40	520232.43	TO102353	SCRS_128_08	3	109
129	SCRS_129_08		Lukas	7165056.74	520692.45	TO102353	SCRS_129_08	3	11
130	SCRS_130_08		Lukas	7165094.08	521261.52	TO102353	SCRS_130_08	16	267
55	SCRS_55_08	Dead trees around	Phil	7161525.79	532804.40	TO102353	SCRS_55_08	8	19
56	SCRS_56_08	Leafy trees	Phil	7161599.40	533228.08	TO102353	SCRS_56_08	3	27
57	SCRS_57_08	Can't find good clay, creek above, spruce everywhere	Phil	7161542.01	533689.36	TO102353	SCRS_57_08	2	46
58	SCRS_58_08	Cliffs, trees	Tubs	7162129.20	531799.17	TO102353	SCRS_58_08	7	35
59	SCRS_59_08	Trees	Tubs	7162069.02	532257.26	TO102353	SCRS_59_08	31	18
60	SCRS_60_08	Trees	Tubs	7162051.16	532752.09	TO102353	SCRS_60_08	5	32
61	SCRS_61_08	Trees, willows	Tubs	7162045.07	533252.55	TO102353	SCRS_61_08	4	185
62	SCRS_62_08	Trees, willows	Tubs	7162563.34	530274.16	TO102353	SCRS_62_08	3	58
63	SCRS_63_08	Cliffs, trees	Tubs	7162569.93	530747.11	TO102353	SCRS_63_08	1	69
64	SCRS_64_08	Vegetation, boulders	Tubs	7162592.41	531250.04	TO102353	SCRS_64_08	2	35
65	SCRS_65_08	Cliffs, trees	Tubs	7162539.53	531743.93	TO102353	SCRS_65_08	2	28
66	SCRS_66_08	Trees, willows	Tubs	7162544.99	532210.07	TO102353	SCRS_66_08	1	57
68	SCRS_68_08	Small sample	Lukas	7163062.00	528753.00	TO102353	SCRS_68_08	18	29
69	SCRS_69_08	Small sample	Lukas	7163062.72	529273.87	TO102353	SCRS_69_08	4	37
70	SCRS_70_08	Small sample	Lukas	7163080.40	529777.45	TO102353	SCRS_70_08	2	19
71	SCRS_71_08	Small sample	Lukas	7163042.33	530296.11	TO102353	SCRS_71_08	2	74
72	SCRS_72_08	Small sample	Lukas	7163047.59	530761.18	TO102353	SCRS_72_08	5	38
73	SCRS_73_08	Small sample	Lukas	7163052.20	531257.40	TO102353	SCRS_73_08	2	74
74	SCRS_74_08	Small sample	Lukas	7163053.23	531742.66	TO102353	SCRS_74_08	1	43
75	SCRS_75_08	Small sample	Lukas	7163045.43	532253.93	TO102353	SCRS_75_08	42	26
76	SCRS_76_08	Good clay, some organic matter and a few rock chips, some of which are rusty	Sarah	7163548.94	526246.03	TO102353	SCRS_76_08	3	88
77	SCRS_77_08		Sarah	7163548.13	526757.65	TO102353	SCRS_77_08	20	44
78	SCRS_78_08	Lots of organic matter and rootlets in sample, some decent clay though	Sarah	7163548.07	527252.11	TO102353	SCRS_78_08	2	58
79	SCRS_79_08	Good clay sample	Sarah	7163560.07	527653.48	TO102353	SCRS_79_08	11	84

GRID_ID	.ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
	SCRS_9104_08	2 samples at this point	Phil and Daithi	7164063.71	532218.90	TO102353	SCRS_9104_0 8	6	103
98	SCRS_98_08		Phil and Daithi	7164060.00	529250.00	TO102353	SCRS_98_08	6	53
99	SCRS_99_08	Roots, lots of small trees, creek above	Phil and Daithi	7164052.00	529754.00	TO102353	SCRS_99_08	0.5	115
	555_1_08		Sarah	7162754.81	528950.19	TO102355	555_1_08	16	13
	555_2_08	Very poor sample	Sarah	7162777.67	528952.45	TO102355	555_2_08	8	194
	555_3_08	Very poor sample	Sarah	7162803.94	528948.28	TO102355	555_3_08	35	155
	555_4_08		Sarah	7162827.31	528943.44	TO102355	555_4_08	2	271
	555_5_08	Poor sample, lots of grit and chips	Sarah	7162852.34	528939.09	TO102355	555_5_08	5	103
	555_6_08		Sarah	7162877.10	528934.60	TO102355	555_6_08	24	201
	555_7_08		Sarah	7162899.79	528931.15	TO102355	555_7_08	6	120
	555_8_08		Sarah	7162925.64	528926.71	TO102355	555_8_08	2	272
	555_91_08		Sarah	7162753.00	528957.13	TO102355	555_91_08	12	7
110	SCRS_110_08		Thomas	7164562.59	524230.06	TO102355	SCRS_110_08	0.5	28
111	SCRS_111_08		Thomas	7164588.60	524754.83	TO102355	SCRS_111_08	4	74
112	SCRS_112_08		Thomas	7164564.94	525238.73	TO102355	SCRS_112_08	1	72
113	SCRS_113_08		Thomas	7164503.79	525714.26	TO102355	SCRS_113_08	12	3
149	SCRS_149_08		Thomas	7165525.38	520786.66	TO102355	SCRS_149_08	26	9
150	SCRS_150_08		Thomas	7165612.99	521236.76	TO102355	SCRS_150_08	0.5	20
151	SCRS_151_08		Thomas	7165542.66	521747.91	TO102355	SCRS_151_08	4	16
152	SCRS_152_08		Thomas	7165544.66	522258.21	TO102355	SCRS_152_08	1	118
153	SCRS_153_08	Horizon partially frozen	Thomas	7165562.98	522769.55	TO102355	SCRS_153_08	9	37
154	SCRS_154_08		Thomas	7165629.43	523246.49	TO102355	SCRS_154_08	3	239
155	SCRS_155_08		Thomas	7165563.70	523747.68	TO102355	SCRS_155_08	91	12
156	SCRS_156_08		Thomas	7165563.50	524247.95	TO102355	SCRS_156_08	0.5	21
157	SCRS_157_08		Thomas	7165581.68	524736.28	TO102355	SCRS_157_08	11	40
158	SCRS_158_08		Thomas	7165565.43	525246.93	TO102355	SCRS_158_08	1	38
170	SCRS_170_08		Lukas	7166078.49	520282.44	TO102355	SCRS_170_08	2	126
171	SCRS_171_08		Lukas	7165948.40	520724.77	TO102355	SCRS_171_08	0.5	6
172	SCRS_172_08		Lukas	7165968.05	521067.01	TO102355	SCRS_172_08	0.5	18
173	SCRS_173_08		Thomas	7166159.22	521798.05	TO102355	SCRS_173_08	12	21
174	SCRS_174_08		Thomas	7166024.74	522187.49	TO102355	SCRS_174_08	4	76
183	SCRS_183_08		Lukas	7166044.34	526789.87	TO102355	SCRS_183_08	0.5	274
184	SCRS_184_08		Lukas	7166076.99	527244.79	TO102355	SCRS_184_08	0.5	200
185	SCRS_185_08		Lukas	7166014.53	527755.68	TO102355	SCRS_185_08	9	136
186	SCRS_186_08		Lukas	7166030.63	528201.35	TO102355	SCRS_186_08	0.5	239
187	SCRS_187_08		Lukas	7166042.13	528807.26	TO102355	SCRS_187_08	3	22
188	SCRS_188_08		Lukas	7166016.97	529245.90	TO102355	SCRS_188_08	0.5	91
189	SCRS_189_08		Lukas	7166097.24	529737.87	TO102355	SCRS_189_08	12	236
199	SCRS_199_08		Lukas	7166606.69	525384.68	TO102355	SCRS_199_08	2	300
200	SCRS_200_08		Lukas	7166512.06	525763.52	TO102355	SCRS_200_08	0.5	239
201	SCRS_201_08	Hard to find a good sample here	Lukas	7166550.22	526223.61	TO102355	SCRS_201_08	0.5	167
202	SCRS_202_08		Lukas	7166534.45	526702.42	TO102355	SCRS_202_08	0.5	241
203	SCRS_203_08		Lukas	7166529.04	527233.44	TO102355	SCRS_203_08	4	274
204	SCRS_204_08		Lukas	7166535.03	527698.68	TO102355	SCRS_204_08	3	196
205	SCRS_205_08		Lukas	7166549.92	528277.24	TO102355	SCRS_205_08	0.5	47
211	SCRS_211_08	Organic rich, small leafy trees, moss	Phil	7167001.89	523315.08	TO102355	SCRS_211_08	0.5	201
212	SCRS_212_08	Some moss, lots of rock, no trees	Phil	7166982.24	523799.00	TO102355	SCRS_212_08	1	43

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
213	SCRS_213_08	Moss, small spruce, flowers	Phil	7167018.43	524274.33	TO102355	SCRS_213_08	21	24
214	SCRS_214_08	Moss, leafy trees, small spruce	Phil	7167027.74	524796.70	TO102355	SCRS_214_08	4	67
215	SCRS_215_08	Lots of rock, soe moss, small spruce	Phil	7167110.17	525246.84	TO102355	SCRS_215_08	0.5	196
216	SCRS_216_08	Organic rich, leafy trees, spruce, moss, rock	Phil	7167081.14	525803.36	TO102355	SCRS_216_08	1	112
217	SCRS_217_08	Organic rich, spruce, moss	Phil	7167091.61	526266.09	TO102355	SCRS_217_08	0.5	14
218	SCRS_218_08	Organic rich, moss, leafy trees, spruce	Phil	7167075.99	526764.58	TO102355	SCRS_218_08	20	232
219	SCRS_219_08	Organic rich, moss, leafy trees, spruce	Phil	7167106.94	527251.21	TO102355	SCRS_219_08	0.5	300
220	SCRS_220_08	Dry clay, leafy trees, spruce	Phil	7167091.60	527710.72	TO102355	SCRS_220_08	4	176
221	SCRS_221_08	Organic rich, moss, small spruce	Phil	7167044.64	528298.44	TO102355	SCRS_221_08	2	297
222	SCRS_222_08	Creek above, moss, small spruce	Phil	7167104.83	528752.51	TO102355	SCRS_222_08	26	50
229	SCRS_229_08		Kevin	7167469.54	524277.57	TO102355	SCRS_229_08	2	266
230	SCRS_230_08		Kevin	7167421.47	524652.16	TO102355	SCRS_230_08	0.5	183
231	SCRS_231_08		Kevin	7167415.70	525251.45	TO102355	SCRS_231_08	0.5	172
232	SCRS_232_08		Kevin	7167602.04	525763.81	TO102355	SCRS_232_08	0.5	265
233	SCRS_233_08		Kevin	7167711.27	526340.43	TO102355	SCRS_233_08	1	300
234	SCRS_234_08		Kevin	7167558.15	526766.13	TO102355	SCRS_234_08	0.5	22
235	SCRS_235_08		Kevin	7167639.72	527272.85	TO102355	SCRS_235_08	5	58
236	SCRS_236_08		Kevin	7167604.77	527705.37	TO102355	SCRS_236_08	26	43
237	SCRS_237_08		Kevin	7167455.21	528217.95	TO102355	SCRS_237_08	9	45
238	SCRS_238_08	Deep A horizon, then permafrost	Kevin	7167531.50	528666.36	TO102355	SCRS_238_08	0.5	59
239	SCRS_239_08		Kevin	7167667.35	529036.67	TO102355	SCRS_239_08	3	23
244	SCRS_244_08		Thomas	7168101.78	523771.86	TO102355	SCRS_244_08	19	72
245	SCRS_245_08		Thomas	7168137.74	524262.74	TO102355	SCRS_245_08	0.5	75
246	SCRS_246_08		Thomas	7168100.11	524762.16	TO102355	SCRS_246_08	5	203
247	SCRS_247_08		Thomas	7168057.35	525232.55	TO102355	SCRS_247_08	7	208
248	SCRS_248_08		Thomas	7168003.98	525756.22	TO102355	SCRS_248_08	11	111
249	SCRS_249_08		Thomas	7167979.76	526254.75	TO102355	SCRS_249_08	2	105
250	SCRS_250_08		Thomas	7167978.34	526772.81	TO102355	SCRS_250_08	4	41
251	SCRS_251_08		Thomas	7167990.63	527227.71	TO102355	SCRS_251_08	3	30
252	SCRS_252_08		Thomas	7168024.55	527753.50	TO102355	SCRS_252_08	12	44
253	SCRS_253_08		Thomas	7168045.80	528251.45	TO102355	SCRS_253_08	2	44
254	SCRS_254_08		Thomas	7168067.50	528757.19	TO102355	SCRS_254_08	25	35
255	SCRS_255_08		Thomas	7168094.47	529255.92	TO102355	SCRS_255_08	1	156
277	SCRS_277_08		Lukas	7169024.64	525274.31	TO102355	SCRS_277_08	0.5	79
278	SCRS_278_08		Lukas	7169060.01	525679.56	TO102355	SCRS_278_08	3	45
279	SCRS_279_08		Lukas	7168955.80	526237.12	TO102355	SCRS_279_08	1	49
280	SCRS_280_08		Lukas	7169097.25	526799.13	TO102355	SCRS_280_08	2	39
281	SCRS_281_08		Lukas	7169088.26	527257.47	TO102355	SCRS_281_08	0.5	34
282	SCRS_282_08		Lukas	7169009.52	527744.12	TO102355	SCRS_282_08	90	17
283	SCRS_283_08		Lukas	7169004.65	528224.14	TO102355	SCRS_283_08	0.5	88
	5552_1_08		Sarah	7162744.94	528980.66	TO102356	5552_1_08	0.5	34
	5552_2_08		Sarah	7162771.49	528978.86	TO102356	5552_2_08	6	174
	5552_3_08		Sarah	7162797.48	528978.20	TO102356	5552_3_08	3	258
	5552_4_08		Sarah	7162822.26	528976.53	TO102356	5552_4_08	10	254
	5552_5_08		Sarah	7162844.68	528975.50	TO102356	5552_5_08	0.5	158
	5552_6_08		Sarah	7162872.00	528975.47	TO102356	5552_6_08	2	212
	5552_7_08		Sarah	7162897.63	528974.28	TO102356	5552_7_08	0.5	191
	5552_8_08		Sarah	7162924.16	528974.11	TO102356	5552_8_08	3	278
107	SCRS_107_08	Thick moss layer	Thomas	7164579.17	520272.25	TO102356	SCRS_107_08	13	210
108	SCRS_108_08		Thomas	7164577.56	520794.25	TO102356	SCRS_108_08	19	100

GRID_ID	..ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
109	SCRS_109_08		Thomas	7164534.76	521218.24	TO102356	SCRS_109_08	33	57
190	SCRS_190_08	Organic rich, leafy trees, spruce, moss	Phil	7166528.00	520811.31	TO102356	SCRS_190_08	13	3
191	SCRS_191_08	Leafy trees, moss, spruce	Phil	7166591.40	521282.45	TO102356	SCRS_191_08	0.5	90
192	SCRS_192_08	Organic rich, leafy trees, spruce, moss	Phil	7166644.50	521776.28	TO102356	SCRS_192_08	2	300
193	SCRS_193_08	Organic rich, leafy trees, spruce, moss	Phil	7166477.40	522249.97	TO102356	SCRS_193_08	0.5	19
194	SCRS_194_08	Organic rich, leafy trees, spruce, moss	Phil	7166488.88	522776.92	TO102356	SCRS_194_08	0.5	154
195	SCRS_195_08	Lots of rock, some moss	Phil	7166584.53	523286.28	TO102356	SCRS_195_08	7	275
196	SCRS_196_08	Moss, small leafy trees	Phil	7166563.02	523816.85	TO102356	SCRS_196_08	2	298
197	SCRS_197_08	Lots of rock, some moss	Phil	7166542.68	524214.45	TO102356	SCRS_197_08	106	6
198	SCRS_198_08	Organic rich, moss, spruce	Phil	7166634.16	524727.37	TO102356	SCRS_198_08	0.5	58
207	SCRS_207_08	Organic rich, leafy trees, spruce, moss	Phil	7167059.88	521173.09	TO102356	SCRS_207_08	3	28
208	SCRS_208_08	Moss, leafy trees	Phil	7167110.49	521739.92	TO102356	SCRS_208_08	6	137
209	SCRS_209_08	Moss	Phil	7166999.04	522223.59	TO102356	SCRS_209_08	2	256
210	SCRS_210_08	Leafy trees, moss, spruce	Phil	7167052.00	522653.00	TO102356	SCRS_210_08	3	252
223	SCRS_223_08	Organic rich, moss, spruce, leafy trees	Phil	7167572.86	521295.50	TO102356	SCRS_223_08	0.5	40
224	SCRS_224_08	Organic rich, moss, spruce, leafy trees	Phil	7167606.27	521774.33	TO102356	SCRS_224_08	4	163
225	SCRS_225_08	Organic rich, moss, spruce, leafy trees	Phil	7167486.72	522304.03	TO102356	SCRS_225_08	7	218
226	SCRS_226_08	Organic rich, moss, spruce, leafy trees	Phil	7167534.00	522815.00	TO102356	SCRS_226_08	2	109
227	SCRS_227_08	Leafy trees,spruce,moss	Phil	7167481.75	523282.49	TO102356	SCRS_227_08	0.5	95
228	SCRS_228_08	Small spruce, moss	Phil	7167496.51	523737.44	TO102356	SCRS_228_08	3	217
236	SCRS_236_08		Kevin	7167604.77	527705.37	TO102356	SCRS_236_08	5	82
240	SCRS_240_08	Organic rich, moss, spruce, leafy trees	Phil	7168116.45	521734.27	TO102356	SCRS_240_08	2	25
241	SCRS_241_08	Organic rich, moss, spruce, leafy trees	Phil	7167984.75	522261.29	TO102356	SCRS_241_08	0.5	73
242	SCRS_242_08	Moss,leafy trees, spruce	Phil	7168094.01	522703.82	TO102356	SCRS_242_08	2	113
243	SCRS_243_08	Moss, spruce, rock	Phil	7167942.33	523284.48	TO102356	SCRS_243_08	2	129
257	SCRS_257_08		Lukas	7168571.95	522248.48	TO102356	SCRS_257_08	0.5	67
258	SCRS_258_08		Kevin	7168498.25	522877.90	TO102356	SCRS_258_08	5	114
259	SCRS_259_08		Kevin	7168483.41	523220.95	TO102356	SCRS_259_08	16	94
260	SCRS_260_08		Kevin	7168514.10	523808.44	TO102356	SCRS_260_08	0.5	125
271	SCRS_271_08		Lukas	7169012.04	522276.78	TO102356	SCRS_271_08	0.5	83
272	SCRS_272_08		Lukas	7169034.39	522780.02	TO102356	SCRS_272_08	0.5	77
273	SCRS_273_08		Lukas	7169105.63	523228.58	TO102356	SCRS_273_08	0.5	126
274	SCRS_274_08		Lukas	7169054.08	523753.43	TO102356	SCRS_274_08	3	204
275	SCRS_275_08		Lukas	7169089.72	524283.07	TO102356	SCRS_275_08	0.5	128
276	SCRS_276_08		Lukas	7169010.01	524751.79	TO102356	SCRS_276_08	3	278
284	SCRS_284_08		Kevin	7169565.36	522082.60	TO102356	SCRS_284_08	0.5	53
285	SCRS_285_08		Kevin	7169414.35	522913.69	TO102356	SCRS_285_08	20	17
286	SCRS_286_08		Kevin	7169408.31	523239.36	TO102356	SCRS_286_08	16	74
287	SCRS_287_08		Kevin	7169531.37	523745.31	TO102356	SCRS_287_08	7	53
288	SCRS_288_08		Kevin	7169447.29	524101.04	TO102356	SCRS_288_08	0.5	3
289	SCRS_289_08		Kevin	7169395.44	524851.51	TO102356	SCRS_289_08	45	41
290	SCRS_290_08		Kevin	7169481.13	525170.78	TO102356	SCRS_290_08	1	142
291	SCRS_291_08		Kevin	7169457.26	525801.55	TO102356	SCRS_291_08	40	8
292	SCRS_292_08	Permafrost in soil	Kevin	7169476.88	526248.46	TO102356	SCRS_292_08	0.5	39
293	SCRS_293_08		Kevin	7169557.31	526793.26	TO102356	SCRS_293_08	1	66
294	SCRS_294_08		Kevin	7169670.72	527258.75	TO102356	SCRS_294_08	0.5	7
295	SCRS_295_08	Area has had recent fires	Thomas	7170118.96	522768.17	TO102356	SCRS_295_08	265	8
296	SCRS_296_08		Thomas	7170020.80	523254.48	TO102356	SCRS_296_08	26	32
297	SCRS_297_08		Thomas	7170061.06	523758.39	TO102356	SCRS_297_08	2	13
298	SCRS_298_08	Area has had recent fires	Thomas	7170062.69	524208.80	TO102356	SCRS_298_08	2	55
299	SCRS_299_08		Thomas	7170050.77	524759.73	TO102356	SCRS_299_08	38	51

GRID_ID	..ELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
300	SCRS_300_08		Thomas	7170055.84	525247.92	TO102356	SCRS_300_08	17	44
301	SCRS_301_08		Thomas	7170070.27	525742.84	TO102356	SCRS_301_08	2	68
302	SCRS_302_08		Thomas	7170054.57	526242.01	TO102356	SCRS_302_08	6	106
303	SCRS_303_08	Area has had recent fires	Thomas	7170538.04	522827.17	TO102356	SCRS_303_08	20	4
304	SCRS_304_08	Area has had recent fires	Thomas	7170559.81	523286.19	TO102356	SCRS_304_08	44	39
305	SCRS_305_08	Area has had recent fires	Thomas	7170554.22	523750.95	TO102356	SCRS_305_08	25	22
306	SCRS_306_08		Thomas	7170522.78	524217.54	TO102356	SCRS_306_08	26	53
307	SCRS_307_08		Thomas	7170457.71	524731.09	TO102356	SCRS_307_08	27	74
308	SCRS_308_08		Kevin	7170578.55	525203.37	TO102356	SCRS_308_08	2	26
309	SCRS_309_08		Kevin	7171116.45	523374.19	TO102356	SCRS_309_08	0.5	37
310	SCRS_310_08		Kevin	7171129.67	523748.65	TO102356	SCRS_310_08	2	122
311	SCRS_311_08		Kevin	7171095.48	524231.04	TO102356	SCRS_311_08	2	27
312	SCRS_312_08		Kevin	7170934.80	524739.56	TO102356	SCRS_312_08	17	4
313	SCRS_313_08		Kevin	7171455.79	523798.38	TO102356	SCRS_313_08	0.5	85
50	SCRS_50_08		Thomas	7161046.22	533219.51	TO102356	SCRS_50_08	0.5	31
67	SCRS_67_08		Thomas	7163049.16	527288.39	TO102356	SCRS_67_08	5	130
	SCRS_9211_08	Organic rich, moss	Phil	7167002.72	523235.08	TO102356	SCRS_9211_0	0.5	160
131	SCRS_131_08	Good sample	Sarah	7165002.63	523290.54	TO102354	SCRS_131_08	3	25
132	SCRS_132_08	Constant strong wind from SE	Sarah	7165050.40	523747.74	TO102354	SCRS_132_08	7	32
133	SCRS_133_08	Thick A horizon, good sample	Sarah	7165017.01	524302.70	TO102354	SCRS_133_08	5	86
134	SCRS_134_08	Spruce, willows, moss. Very good sample, just	Sarah	7165034.30	524744.70	TO102354	SCRS_134_08	15	165
135	SCRS_135_08		Sarah	7165036.37	525234.67	TO102354	SCRS_135_08	106	4
136	SCRS_136_08		Kevin	7165086.62	525767.86	TO102354	SCRS_136_08	10	124
137	SCRS_137_08		Kevin	7165028.31	526303.33	TO102354	SCRS_137_08	12	27
138	SCRS_138_08		Kevin	7165026.02	526801.63	TO102354	SCRS_138_08	1	300
139	SCRS_139_08		Kevin	7165014.86	527338.96	TO102354	SCRS_139_08	3	129
140	SCRS_140_08		Kevin	7165154.82	527706.25	TO102354	SCRS_140_08	6	45
141	SCRS_141_08		Kevin	7165151.08	528289.74	TO102354	SCRS_141_08	2	61
142	SCRS_142_08		Kevin	7165109.80	528748.23	TO102354	SCRS_142_08	0.5	28
143	SCRS_143_08		Kevin	7164973.83	529366.85	TO102354	SCRS_143_08	1	300
144	SCRS_144_08		Kevin	7164994.50	529743.04	TO102354	SCRS_144_08	0.5	66
145	SCRS_145_08		Kevin	7165029.19	530296.90	TO102354	SCRS_145_08	2	103
146	SCRS_146_08		Kevin	7165077.33	530786.36	TO102354	SCRS_146_08	8	264
147	SCRS_147_08		Kevin	7165039.55	531111.45	TO102354	SCRS_147_08	1	167
148	SCRS_148_08		Lukas	7165638.75	520230.38	TO102354	SCRS_148_08	9	7
159	SCRS_159_08	Very organic, lots of spruce	Phil	7165546.39	525825.17	TO102354	SCRS_159_08	2	46
160	SCRS_160_08	Organic rich, lots of rock and moss	Phil	7165575.12	526246.09	TO102354	SCRS_160_08	0.5	269
161	SCRS_161_08	Spruce, leafy trees, moss	Phil	7165501.33	526756.80	TO102354	SCRS_161_08	23	119
162	SCRS_162_08	Moss, spruce, creek above, organic rich	Phil	7165498.13	527252.46	TO102354	SCRS_162_08	0.5	106
163	SCRS_163_08	Organic rich, lots of spruce, some leafy trees	Phil	7165526.84	527759.52	TO102354	SCRS_163_08	0.5	57
164	SCRS_164_08	Spruce, leafy trees, moss	Phil	7165534.78	528263.76	TO102354	SCRS_164_08	1	300
165	SCRS_165_08	Can not find clay around, lots of spruce	Phil	7165534.83	528789.40	TO102354	SCRS_165_08	0.5	36
166	SCRS_166_08	Organic rich, lots of spruce	Phil	7165589.27	529272.43	TO102354	SCRS_166_08	3	180
167	SCRS_167_08	Very good sample, perfect clay, lots of spruce	Phil	7165502.99	529760.61	TO102354	SCRS_167_08	4	199
168	SCRS_168_08	Spruce all around, lots of moss	Phil	7165601.27	530218.92	TO102354	SCRS_168_08	9	128
169	SCRS_169_08	Spruce all around, creek above, lots of roots	Phil	7165514.24	530769.85	TO102354	SCRS_169_08	2	89
175	SCRS_175_08		Kevin	7166104.88	522813.98	TO102354	SCRS_175_08	14	158
176	SCRS_176_08	Roots in sample, but horizon and depth is	Kevin	7166143.70	523289.33	TO102354	SCRS_176_08	7	41
177	SCRS_177_08		Kevin	7166089.76	523635.30	TO102354	SCRS_177_08	15	22
178	SCRS_178_08		Kevin	7166163.80	524248.65	TO102354	SCRS_178_08	1	300
179	SCRS_179_08		Kevin	7166037.52	524715.06	TO102354	SCRS_179_08	0.5	253
180	SCRS_180_08		Kevin	7166030.20	525258.13	TO102354	SCRS_180_08	1	282

GRID_ID	FIELD_NUMBER	Notes	Name	y_proj	x_proj	Cert_Num	ANALYTE	Ag_ppb	Al_ppm
181	SCRS_181_08		Kevin	7166157.55	525766.12	TO102354	SCRS_181_08	0.5	60
182	SCRS_182_08		Kevin	7166224.50	526296.10	TO102354	SCRS_182_08	1	300
206	SCRS_206_08		Thomas	7166598.53	528714.85	TO102354	SCRS_206_08	4	76
261	SCRS_261_08	Leafy trees, spruce, moss, organic rich sample	Phil	7168499.15	524297.53	TO102354	SCRS_261_08	1	243
262	SCRS_262_08	Moss, spruce, leafy trees, organic rich soil	Phil	7168588.21	524768.95	TO102354	SCRS_262_08	0.5	90
263	SCRS_263_08	Moss, leafy trees, spruce, organic rich	Phil	7168589.91	525303.67	TO102354	SCRS_263_08	0.5	140
264	SCRS_264_08	Next to a creek, moss, leafy trees and spruce,	Phil	7168522.23	525789.76	TO102354	SCRS_264_08	1	43
265	SCRS_265_08	Spruce, moss, leafy trees, organic rich sample	Phil	7168588.93	526255.51	TO102354	SCRS_265_08	0.5	76
266	SCRS_266_08	Leafy trees, spruce, moss, organic rich sample	Phil	7168581.82	526781.25	TO102354	SCRS_266_08	0.5	24
267	SCRS_267_08	Moss, leafy trees, spruces, creek above	Phil	7168537.58	527302.42	TO102354	SCRS_267_08	2	23
268	SCRS_268_08	Leafy trees, spruce, moss	Phil	7168592.89	527765.34	TO102354	SCRS_268_08	0.5	7
269	SCRS_269_08	Moss, spruce	Phil	7168536.71	528195.08	TO102354	SCRS_269_08	6	144
270	SCRS_270_08	Good clay, leaves, spruce, moss	Phil	7168486.59	528731.79	TO102354	SCRS_270_08	18	130
31	SCRS_31_08		Kevin	7159700.12	534739.52	TO102354	SCRS_31_08	4	67
32	SCRS_32_08		Kevin	7159428.77	535275.96	TO102354	SCRS_32_08	17	81
33	SCRS_33_08		Kevin	7159494.16	535697.68	TO102354	SCRS_33_08	10	34
34	SCRS_34_08		Kevin	7159666.86	536226.63	TO102354	SCRS_34_08	2	18
35	SCRS_35_08		Kevin	7159646.95	536645.30	TO102354	SCRS_35_08	1	35
36	SCRS_36_08		Kevin	7159967.95	533794.37	TO102354	SCRS_36_08	1	26
37	SCRS_37_08		Kevin	7160123.20	534299.82	TO102354	SCRS_37_08	22	2
38	SCRS_38_08		Kevin	7160048.61	534749.83	TO102354	SCRS_38_08	0.5	14
39	SCRS_39_08		Kevin	7159993.98	535137.29	TO102354	SCRS_39_08	0.5	11
40	SCRS_40_08	OC hard to judge, too foggy to see	Kevin	7159926.25	535829.12	TO102354	SCRS_40_08	21	10
41	SCRS_41_08		Kevin	7160078.46	536252.30	TO102354	SCRS_41_08	1	8
42	SCRS_42_08	Deep A horizon here	Kevin	7160032.25	536716.93	TO102354	SCRS_42_08	1	40
80	SCRS_80_08	Trees	Tubs	7163500.12	528275.55	TO102354	SCRS_80_08	4	57
81	SCRS_81_08	Trees, bushy	Tubs	7163543.61	528749.07	TO102354	SCRS_81_08	40	10
82	SCRS_82_08	Trees, bushy	Tubs	7163572.54	529260.45	TO102354	SCRS_82_08	10	33
83	SCRS_83_08	Trees, willows	Tubs	7163562.49	529751.99	TO102354	SCRS_83_08	6	103
84	SCRS_84_08	Trees, bushy	Tubs	7163545.15	530254.51	TO102354	SCRS_84_08	5	197
85	SCRS_85_08	Trees, boulders	Tubs	7163542.28	530770.00	TO102354	SCRS_85_08	3	186
86	SCRS_86_08	Trees, boulders	Tubs	7163537.15	531208.24	TO102354	SCRS_86_08	0.5	248
87	SCRS_87_08	Trees, bushy	Tubs	7163549.42	531752.57	TO102354	SCRS_87_08	2	267
88	SCRS_88_08	Trees, bushy	Tubs	7163559.43	532252.05	TO102354	SCRS_88_08	4	17
89	SCRS_89_08	Trees, willows	Tubs	7163548.27	532746.89	TO102354	SCRS_89_08	3	122
90	SCRS_90_08		Thomas	7164062.37	525274.42	TO102354	SCRS_90_08	1	5
91	SCRS_91_08		Thomas	7164098.82	525702.18	TO102354	SCRS_91_08	4	70
92	SCRS_92_08		Thomas	7164040.77	526235.12	TO102354	SCRS_92_08	1	49
93	SCRS_93_08		Thomas	7164047.35	526750.15	TO102354	SCRS_93_08	2	48
94	SCRS_94_08		Thomas	7163979.91	527275.63	TO102354	SCRS_94_08	0.5	48
95	SCRS_95_08		Thomas	7164043.92	527758.47	TO102354	SCRS_95_08	0.5	22
96	SCRS_96_08		Thomas	7164053.95	528256.32	TO102354	SCRS_96_08	2	66
967	SCRS_967_08		Thomas	7163067.47	527750.56	TO102354	SCRS_967_08	2	10
968	SCRS_968_08		Thomas	7163060.27	528271.86	TO102354	SCRS_968_08	4	53
97	SCRS_97_08		Thomas	7164025.84	528737.85	TO102354	SCRS_97_08	16	136
	SCRS_980_08	Trees, boulders	Tubs	7163415.45	528291.93	TO102354	SCRS_980_08	33	18

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
1	SCRS_1_08	10	0.05	840	0.5	730	6	10	146	0.5	1540	1	0.7
10	SCRS_10_08	10	0.05	290	0.5	530	3	2.5	63	0.5	30	0.5	0.7
11	SCRS_11_08	0.5	0.1	340	0.5	660	4	37	88	0.5	1410	7	4.8
12	SCRS_12_08	10	0.05	1220	0.5	80	6	70	355	0.5	1020	12	5.9
13	SCRS_13_08	0.5	0.05	2070	0.5	80	10	7	299	0.5	100	1	1.9
14	SCRS_14_08	40	0.05	2240	1	30	24	177	455	200	610	31	13.9
15	SCRS_15_08	10	0.05	1890	0.5	50	8	121	131	0.5	1240	21	10.1
16	SCRS_16_08	0.5	0.05	510	0.5	730	52	26	24	0.5	140	12	6.7
17	SCRS_17_08	0.5	0.05	910	0.5	660	47	8	70	0.5	30	4	2.8
18	SCRS_18_08	0.5	0.05	2220	0.5	100	81	75	104	0.5	310	12	6.6
19	SCRS_19_08	0.5	0.05	980	0.5	770	19	25	22	0.5	160	12	5.5
2	SCRS_2_08	10	0.2	1590	0.5	670	9	238	176	0.5	2710	27	15
20	SCRS_20_08	0.5	0.05	1600	0.5	730	7	26	13	0.5	220	43	19.4
21	SCRS_21_08	0.5	0.05	590	0.5	740	14	5	9	0.5	70	9	4.7
22	SCRS_22_08	0.5	0.05	440	0.5	700	16	10	11	0.5	30	10	5.6
23	SCRS_23_08	0.5	0.05	460	0.5	680	14	2.5	8	0.5	20	5	2.9
24	SCRS_24_08	20	0.2	960	0.5	750	6	122	136	0.5	3170	15	6.6
25	SCRS_25_08	0.5	0.2	600	0.5	730	15	93	379	0.5	4990	11	8.7
26	SCRS_26_08	10	0.05	350	0.5	570	4	54	173	0.5	1890	8	5.5
27	SCRS_27_08	0.5	0.2	480	0.5	650	13	18	65	0.5	310	7	3.5
28	SCRS_28_08	0.5	0.05	190	0.5	500	5	15	211	0.5	940	2	1.7
29	SCRS_29_08	0.5	0.2	900	0.5	1090	10	49	173	0.5	2070	8	4.3
3	SCRS_3_08	30	0.7	3460	0.5	690	5	92	136	0.5	4680	14	7.5
30	SCRS_30_08	10	0.2	1010	0.5	710	12	97	151	0.5	2030	18	10.7
4	SCRS_4_08	0.5	0.1	920	0.5	650	41	23	84	0.5	1000	5	3.1
43	SCRS_43_08	0.5	0.05	470	0.5	680	7	5	14	0.5	110	2	1.2
44	SCRS_44_08	0.5	0.05	480	0.5	660	29	42	25	0.5	70	17	11.4
45	SCRS_45_08	0.5	0.05	300	0.5	610	23	2.5	10	0.5	50	3	1.9
46	SCRS_46_08	0.5	0.05	250	0.5	620	14	2.5	8	0.5	20	1	0.8
47	SCRS_47_08	0.5	0.05	390	0.5	580	44	11	17	0.5	30	5	3.2
48	SCRS_48_08	0.5	1.2	720	0.5	490	10	2.5	21	0.5	240	10	4.1
49	SCRS_49_08	0.5	0.05	890	0.5	600	5	237	75	0.5	1190	24	14.1
5	SCRS_5_08	0.5	0.05	320	0.5	550	8	2.5	55	0.5	220	0.5	0.25
51	SCRS_51_08	0.5	0.05	280	0.5	620	10	6	40	0.5	80	2	1.1
52	SCRS_52_08	0.5	0.05	190	0.5	630	25	25	25	0.5	270	7	3.5
53	SCRS_53_08	0.5	0.05	630	0.5	580	10	2.5	2.5	0.5	230	4	2.3
54	SCRS_54_08	0.5	0.05	530	0.5	600	15	2.5	2.5	0.5	460	3	1.8
6	SCRS_6_08	10	0.05	290	0.5	450	7	57	162	0.5	1350	6	4.9
7	SCRS_7_08	0.5	0.6	1240	0.5	580	15	2.5	31	0.5	910	7	3.2
8	SCRS_8_08	0.5	0.05	1740	0.5	590	9	229	246	0.5	1260	18	10.3
9	SCRS_9_08	70	0.05	220	0.5	690	33	8	85	0.5	30	8	5.4
100	SCRS_100_08	0.5	0.05	430	0.5	0.5	0.5	25	63	0.5	440	5	3.8
101	SCRS_101_08	0.5	0.05	1060	0.5	20	2	26	195	0.5	1540	38	35.9
102	SCRS_102_08	10	0.2	2540	0.5	0.5	6	61	46	0.5	410	19	11.6
103	SCRS_103_08	40	0.1	5500	1	60	13	14	68	0.5	1370	5	4.6

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppb	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
104	SCRS_104_08	30	0.2	5800	0.5	10	5	16	12	0.5	2500	4	3.6
105	SCRS_105_08	30	0.2	3090	0.5	290	32	20	253	0.5	1080	5	3
106	SCRS_106_08	0.5	0.1	660	0.5	0.5	9	44	78	0.5	260	9	4.3
114	SCRS_114_08	0.5	0.05	140	0.5	540	3	11	32	0.5	180	2	1
115	SCRS_115_08	0.5	0.2	1090	0.5	290	16	91	94	0.5	1440	54	30.8
116	SCRS_116_08	0.5	0.2	1840	0.5	0.5	7	55	59	0.5	380	18	13.3
117	SCRS_117_08	0.5	0.05	640	0.5	10	1	73	63	0.5	200	9	6.4
118	SCRS_118_08	10	0.05	200	0.5	540	5	11	38	0.5	330	2	1.3
119	SCRS_119_08	0.5	0.05	1850	0.5	210	14	17	139	0.5	780	11	8.5
120	SCRS_120_08	0.5	0.3	1560	0.5	10	8	80	466	0.5	1200	12	6.2
121	SCRS_121_08	0.5	0.3	810	0.5	180	0.5	29	148	0.5	2430	8	4.7
122	SCRS_122_08	40	0.3	6120	1	20	13	862	363	200	2790	194	99.9
123	SCRS_123_08	10	0.2	3270	0.5	120	9	43	244	0.5	1590	20	12.8
124	SCRS_124_08	0.5	0.1	6530	0.5	70	25	39	93	0.5	520	43	24.3
125	SCRS_125_08	10	0.05	2200	0.5	0.5	31	18	106	0.5	340	14	14.6
126	SCRS_126_08	20	0.2	6710	0.5	50	40	15	305	0.5	260	10	6.6
127	SCRS_127_08	0.5	0.3	230	0.5	180	9	2.5	23	0.5	50	5	3.4
128	SCRS_128_08	10	0.05	1500	2	10	5	30	27	0.5	240	3	1.8
129	SCRS_129_08	0.5	0.05	2640	0.5	640	50	25	25	0.5	90	10	5.1
130	SCRS_130_08	20	0.05	4340	0.5	20	31	104	281	200	560	27	16.2
55	SCRS_55_08	0.5	0.1	580	0.5	580	11	73	73	0.5	350	12	7.4
56	SCRS_56_08	0.5	0.05	860	0.5	580	10	147	139	0.5	780	9	5.3
57	SCRS_57_08	0.5	0.1	380	0.5	550	18	41	31	0.5	170	10	6.1
58	SCRS_58_08	0.5	0.4	90	0.5	450	7	5	2.5	0.5	80	4	2.8
59	SCRS_59_08	0.5	0.1	400	0.5	510	14	112	158	0.5	1220	11	6.4
60	SCRS_60_08	0.5	0.1	200	0.5	600	14	44	56	0.5	260	13	7.4
61	SCRS_61_08	40	0.05	860	1	20	7	120	339	0.5	350	28	12.7
62	SCRS_62_08	0.5	0.1	330	0.5	270	11	168	121	0.5	1040	21	12.9
63	SCRS_63_08	0.5	0.05	250	0.5	520	16	6	2.5	0.5	30	3	2
64	SCRS_64_08	0.5	0.1	150	0.5	560	10	48	33	0.5	120	7	4.2
65	SCRS_65_08	0.5	0.05	90	0.5	440	15	2.5	2.5	0.5	30	1	0.9
66	SCRS_66_08	0.5	0.05	260	0.5	300	6	21	200	0.5	90	7	4
68	SCRS_68_08	0.5	0.2	290	0.5	570	13	2.5	2.5	0.5	330	4	1.9
69	SCRS_69_08	0.5	0.05	290	0.5	630	23	35	37	0.5	120	6	3.9
70	SCRS_70_08	0.5	0.05	180	0.5	650	21	8	6	0.5	20	3	2
71	SCRS_71_08	0.5	0.05	330	0.5	440	9	26	25	0.5	30	7	3.8
72	SCRS_72_08	0.5	0.05	260	0.5	630	18	28	6	0.5	130	17	10
73	SCRS_73_08	0.5	0.05	350	0.5	440	10	74	44	0.5	110	46	30
74	SCRS_74_08	0.5	0.05	260	0.5	540	14	40	44	0.5	210	12	7.3
75	SCRS_75_08	0.5	0.3	1030	0.5	500	16	145	139	0.5	1100	27	13
76	SCRS_76_08	10	0.6	1420	0.5	40	7	138	142	0.5	3420	23	12.3
77	SCRS_77_08	0.5	0.3	1280	0.5	570	13	35	13	0.5	630	9	4.6
78	SCRS_78_08	0.5	0.05	270	0.5	630	20	7	5	0.5	40	4	3.1
79	SCRS_79_08	0.5	0.05	1020	0.5	360	11	16	2.5	0.5	60	16	7.5

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
	SCRS_9104_08	40	0.1	7190	2	10	4	14	16	100	480	5	3.9
98	SCRS_98_08	0.5	0.1	610	0.5	350	7	29	16	0.5	230	18	7.2
99	SCRS_99_08	20	0.05	1220	0.5	20	2	34	35	0.5	1100	7	5.2
	555_1_08	0.5	0.2	4280	0.5	770	8	2.5	220	0.5	2840	3	2.8
	555_2_08	10	0.05	830	1	60	16	651	139	0.5	290	41	17
	555_3_08	40	2.9	1180	19	90	6	2630	26	0.5	1010	597	237
	555_4_08	0.5	0.3	280	0.5	0.5	5	59	151	0.5	460	19	10.9
	555_5_08	0.5	0.5	30	0.5	90	7	328	109	0.5	1430	119	63.1
	555_6_08	10	0.7	850	0.5	30	5	737	22	0.5	1720	185	88.9
	555_7_08	0.5	0.3	140	0.5	190	6	55	6	100	680	49	31.5
	555_8_08	0.5	0.05	460	0.5	20	4	62	45	0.5	1530	59	40.2
	555_91_08	0.5	0.1	11400	0.5	890	6	2.5	142	0.5	890	1	1.1
110	SCRS_110_08	0.5	0.05	270	0.5	380	18	21	110	0.5	320	3	1.9
111	SCRS_111_08	0.5	0.2	930	0.5	400	29	53	46	0.5	2190	13	7.9
112	SCRS_112_08	0.5	0.05	450	0.5	270	19	33	147	0.5	1240	7	4.2
113	SCRS_113_08	0.5	0.3	100	0.5	390	3	9	71	0.5	530	2	1
149	SCRS_149_08	0.5	0.7	1690	0.5	600	15	7	201	0.5	970	9	5.2
150	SCRS_150_08	0.5	0.05	350	0.5	540	21	2.5	15	0.5	30	2	1.3
151	SCRS_151_08	0.5	0.7	2640	0.5	640	3	200	140	0.5	3270	25	12
152	SCRS_152_08	20	0.05	890	0.5	310	39	157	378	0.5	1240	42	22.6
153	SCRS_153_08	0.5	0.2	1790	0.5	490	7	46	186	0.5	690	7	3.3
154	SCRS_154_08	10	0.1	2260	0.5	100	4	96	172	0.5	570	18	9
155	SCRS_155_08	0.5	0.5	520	0.5	350	8	16	66	0.5	390	9	4
156	SCRS_156_08	0.5	0.05	180	0.5	450	5	2.5	39	0.5	40	1	0.8
157	SCRS_157_08	0.5	0.1	490	0.5	560	10	2.5	43	0.5	790	3	1.5
158	SCRS_158_08	0.5	0.2	750	0.5	480	9	44	99	0.5	1120	6	3.2
170	SCRS_170_08	60	3.8	2210	3	70	3	232	81	200	4430	45	20.9
171	SCRS_171_08	0.5	0.05	500	0.5	510	26	2.5	23	0.5	40	5	5
172	SCRS_172_08	0.5	0.05	740	0.5	550	35	19	21	0.5	40	9	5.4
173	SCRS_173_08	0.5	0.7	570	0.5	470	6	51	297	0.5	7000	11	5.8
174	SCRS_174_08	0.5	0.4	1450	0.5	300	6	248	672	0.5	3160	174	99
183	SCRS_183_08	0.5	0.05	650	0.5	40	2	2.5	30	0.5	0.5	0.5	0.25
184	SCRS_184_08	0.5	0.05	1130	0.5	20	2	23	126	0.5	50	5	6
185	SCRS_185_08	10	0.2	3360	0.5	60	37	40	460	0.5	960	12	8.6
186	SCRS_186_08	0.5	0.05	340	0.5	0.5	8	24	19	0.5	70	4	2.6
187	SCRS_187_08	0.5	0.05	3200	0.5	600	12	35	43	0.5	140	4	1.4
188	SCRS_188_08	0.5	0.05	1940	0.5	130	190	23	493	0.5	380	30	31.4
189	SCRS_189_08	20	0.4	4100	0.5	30	62	105	202	0.5	2130	88	41
199	SCRS_199_08	10	0.05	560	0.5	0.5	8	22	42	0.5	110	9	4.9
200	SCRS_200_08	0.5	0.05	560	2	0.5	14	21	83	0.5	100	4	3.2
201	SCRS_201_08	0.5	0.05	460	0.5	0.5	5	15	96	0.5	30	7	5.8
202	SCRS_202_08	10	0.05	1310	0.5	0.5	13	68	240	0.5	180	26	12.3
203	SCRS_203_08	20	0.1	1530	0.5	0.5	15	89	88	0.5	390	27	15
204	SCRS_204_08	10	0.05	3110	0.5	10	80	15	101	0.5	210	7	10.3
205	SCRS_205_08	0.5	0.05	3630	0.5	340	16	30	124	0.5	1170	4	1.7
211	SCRS_211_08	0.5	0.05	2600	0.5	40	20	68	55	0.5	60	35	20.5
212	SCRS_212_08	0.5	0.05	300	0.5	450	13	7	2.5	0.5	20	3	1.8

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
213	SCRS_213_08	0.5	0.3	480	0.5	510	20	16	19	0.5	570	11	4.7
214	SCRS_214_08	0.5	0.3	870	0.5	360	68	29	94	0.5	800	13	7.1
215	SCRS_215_08	0.5	0.05	360	0.5	0.5	2	19	57	0.5	60	7	4.9
216	SCRS_216_08	0.5	0.05	1500	0.5	210	339	128	124	0.5	700	25	13.2
217	SCRS_217_08	10	0.1	1090	0.5	410	123	13	199	0.5	1580	2	1.2
218	SCRS_218_08	0.5	0.05	4140	0.5	20	16	2.5	110	0.5	830	8	15
219	SCRS_219_08	0.5	0.05	2740	0.5	30	2	2.5	28	0.5	40	0.5	1.6
220	SCRS_220_08	10	0.05	5940	0.5	220	20	503	170	0.5	290	60	23.6
221	SCRS_221_08	0.5	0.05	760	0.5	0.5	17	13	98	0.5	80	4	3.1
222	SCRS_222_08	0.5	0.1	3280	0.5	600	53	129	33	0.5	850	35	16.1
229	SCRS_229_08	20	0.05	500	0.5	10	11	40	99	0.5	210	15	6.3
230	SCRS_230_08	0.5	0.05	300	1	0.5	5	13	41	0.5	60	3	2
231	SCRS_231_08	0.5	0.05	540	0.5	50	2	25	72	0.5	180	3	1.9
232	SCRS_232_08	0.5	0.05	610	0.5	10	2	2.5	21	0.5	20	0.5	0.6
233	SCRS_233_08	0.5	0.05	1960	0.5	120	14	21	111	0.5	120	9	4.9
234	SCRS_234_08	30	0.3	920	0.5	380	36	55	230	0.5	3120	10	5.6
235	SCRS_235_08	0.5	0.6	1450	0.5	430	26	127	307	0.5	2000	31	14.5
236	SCRS_236_08	0.5	0.4	1650	0.5	680	65	131	129	0.5	3650	37	20.5
237	SCRS_237_08	0.5	0.3	2250	0.5	480	56	127	171	0.5	2760	27	14.2
238	SCRS_238_08	0.5	0.05	1490	0.5	260	25	2.5	60	0.5	1450	1	0.9
239	SCRS_239_08	100	0.4	9570	0.5	200	18	1130	264	0.5	5600	142	77
244	SCRS_244_08	0.5	0.05	6830	0.5	590	30	2650	77	0.5	520	77	24.2
245	SCRS_245_08	0.5	0.1	2860	0.5	220	7	72	123	0.5	1200	18	9.6
246	SCRS_246_08	10	0.2	1140	0.5	10	26	155	49	0.5	290	25	11.2
247	SCRS_247_08	10	0.05	1560	0.5	40	5	24	346	0.5	560	5	3.7
248	SCRS_248_08	20	1	4180	1	230	16	127	420	300	1920	47	18.9
249	SCRS_249_08	0.5	0.2	2670	0.5	260	9	373	274	0.5	570	72	28.7
250	SCRS_250_08	0.5	0.1	1670	0.5	520	27	74	56	0.5	1100	15	6.4
251	SCRS_251_08	10	0.3	800	0.5	570	10	161	314	0.5	2350	21	11.4
252	SCRS_252_08	0.5	0.4	1960	0.5	520	79	79	87	0.5	3470	15	7.6
253	SCRS_253_08	20	0.3	1060	0.5	530	36	39	107	0.5	4430	6	3.7
254	SCRS_254_08	0.5	0.3	5250	0.5	410	592	543	218	100	4010	106	52.6
255	SCRS_255_08	30	0.1	1500	0.5	0.5	1	90	98	0.5	1080	11	5.7
277	SCRS_277_08	0.5	0.05	440	0.5	380	33	20	11	0.5	30	7	4
278	SCRS_278_08	0.5	0.05	510	0.5	490	34	5	2.5	0.5	30	2	1.2
279	SCRS_279_08	0.5	0.05	1170	0.5	410	29	11	8	0.5	20	8	3.8
280	SCRS_280_08	0.5	0.05	1230	0.5	520	38	19	6	0.5	70	9	4.9
281	SCRS_281_08	30	0.1	890	0.5	410	11	28	136	0.5	1390	4	2.6
282	SCRS_282_08	0.5	0.5	3050	0.5	770	72	43	186	0.5	2650	10	4.7
283	SCRS_283_08	30	0.3	4420	0.5	100	6	74	265	0.5	1380	13	7.9
	5552_1_08	0.5	0.05	3660	0.5	750	5	30	199	0.5	1740	3	1.9
	5552_2_08	0.5	0.1	430	0.5	30	4	775	7	0.5	160	65	26.2
	5552_3_08	0.5	0.05	520	0.5	10	4	61	91	0.5	300	60	37.1
	5552_4_08	20	1	210	0.5	20	4	169	39	0.5	12300	92	50
	5552_5_08	0.5	0.3	100	0.5	220	17	63	42	0.5	2290	62	45
	5552_6_08	0.5	0.05	720	0.5	110	9	88	137	0.5	1190	25	15.9
	5552_7_08	0.5	0.05	480	0.5	70	13	42	117	0.5	780	15	12.3
	5552_8_08	0.5	0.05	380	0.5	30	7	38	90	0.5	1050	30	20.2
107	SCRS_107_08	10	0.05	1910	0.5	70	6	29	65	0.5	380	4	2.6
108	SCRS_108_08	20	0.3	2090	0.5	260	22	117	188	0.5	1390	28	12.4

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
109	SCRS_109_08	0.5	0.3	1470	0.5	420	52	65	420	0.5	640	19	10.1
190	SCRS_190_08	0.5	0.2	390	0.5	590	9	18	39	0.5	370	6	2.5
191	SCRS_191_08	50	0.05	800	0.5	120	0.5	22	228	0.5	520	4	2.3
192	SCRS_192_08	10	0.05	620	0.5	10	18	16	221	0.5	250	15	9.7
193	SCRS_193_08	0.5	0.05	400	0.5	590	13	5	15	0.5	20	3	2.1
194	SCRS_194_08	10	0.05	460	1	30	1	14	100	0.5	190	4	3.8
195	SCRS_195_08	0.5	0.05	600	0.5	0.5	2	20	76	0.5	340	6	4.6
196	SCRS_196_08	20	0.05	1780	0.5	30	4	215	326	0.5	220	38	12.4
197	SCRS_197_08	0.5	1.1	130	0.5	440	5	18	39	0.5	210	3	1.7
198	SCRS_198_08	0.5	0.05	420	0.5	540	14	13	6	0.5	20	7	3.5
207	SCRS_207_08	0.5	0.05	790	0.5	510	28	39	61	0.5	800	8	4.9
208	SCRS_208_08	40	0.1	2120	2	20	1	82	161	0.5	960	16	8.5
209	SCRS_209_08	0.5	0.05	180	0.5	0.5	0.5	20	25	0.5	490	4	2.4
210	SCRS_210_08	70	0.05	2140	2	40	11	110	475	0.5	630	67	34.2
223	SCRS_223_08	0.5	0.05	430	0.5	590	21	11	11	0.5	40	5	3
224	SCRS_224_08	50	0.1	2550	2	20	5	63	163	100	930	15	8.8
225	SCRS_225_08	0.5	0.05	1220	0.5	110	18	31	428	0.5	1030	15	12.4
226	SCRS_226_08	0.5	0.05	1470	0.5	160	9	17	451	0.5	2340	15	13.3
227	SCRS_227_08	20	0.05	970	0.5	120	4	22	321	0.5	1600	7	4.9
228	SCRS_228_08	0.5	0.05	1050	0.5	100	14	49	457	0.5	430	34	23.7
236	SCRS_236_08	20	0.05	1720	0.5	70	27	69	631	0.5	110	9	8.7
240	SCRS_240_08	0.5	0.05	1700	0.5	610	7	50	115	0.5	1460	4	1.4
241	SCRS_241_08	0.5	0.05	720	0.5	350	36	15	91	0.5	370	12	9.9
242	SCRS_242_08	70	0.3	3850	1	200	7	266	331	0.5	2160	93	50.9
243	SCRS_243_08	50	0.05	2050	2	130	4	92	996	100	1010	20	8.3
257	SCRS_257_08	0.5	0.05	3200	0.5	420	81	50	50	0.5	580	20	12.2
258	SCRS_258_08	0.5	0.05	4000	0.5	360	19	73	313	0.5	320	16	7.4
259	SCRS_259_08	0.5	0.3	3050	0.5	560	164	80	133	0.5	4940	28	14.3
260	SCRS_260_08	10	0.05	1470	2	100	8	46	276	0.5	780	7	5
271	SCRS_271_08	0.5	0.05	740	0.5	630	102	26	21	0.5	140	13	8.2
272	SCRS_272_08	0.5	0.05	1490	0.5	590	57	36	36	0.5	160	22	13.3
273	SCRS_273_08	0.5	0.05	1450	0.5	390	70	42	41	0.5	330	51	40.3
274	SCRS_274_08	0.5	0.05	2200	0.5	220	121	47	273	0.5	250	21	12
275	SCRS_275_08	0.5	0.05	850	2	250	5	9	533	0.5	130	4	8.3
276	SCRS_276_08	0.5	0.1	650	0.5	30	2	10	89	0.5	220	2	1.4
284	SCRS_284_08	0.5	0.05	680	0.5	230	3	11	186	0.5	130	2	1.6
285	SCRS_285_08	0.5	0.05	440	0.5	690	10	2.5	13	0.5	720	7	3.8
286	SCRS_286_08	0.5	0.05	560	0.5	390	24	30	17	0.5	290	10	4.9
287	SCRS_287_08	0.5	0.05	1800	0.5	590	9	39	61	0.5	390	5	2.5
288	SCRS_288_08	0.5	0.05	280	0.5	600	8	2.5	5	0.5	0.5	1	0.5
289	SCRS_289_08	0.5	0.5	1480	0.5	550	15	87	16	0.5	260	72	30.4
290	SCRS_290_08	0.5	0.1	640	0.5	90	10	51	559	0.5	440	15	5.9
291	SCRS_291_08	0.5	0.4	2280	0.5	550	10	39	163	0.5	2020	7	3.5
292	SCRS_292_08	50	0.5	3740	0.5	440	6	237	291	0.5	3460	37	21.1
293	SCRS_293_08	0.5	0.05	610	0.5	520	17	11	77	0.5	370	2	1
294	SCRS_294_08	50	0.05	1070	0.5	450	3	66	199	0.5	210	9	5.9
295	SCRS_295_08	0.5	1.3	930	0.5	700	8	2.5	2.5	0.5	1340	7	3.3
296	SCRS_296_08	0.5	0.2	1100	0.5	880	64	2.5	2.5	0.5	150	4	2
297	SCRS_297_08	0.5	0.3	440	0.5	680	6	70	266	0.5	1070	11	5.5
298	SCRS_298_08	0.5	0.05	1380	0.5	560	6	400	250	0.5	790	26	15.5
299	SCRS_299_08	0.5	0.3	1230	0.5	820	65	24	15	0.5	190	15	7.4

GRID_ID	.LD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_pp.	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
300	SCRS_300_08	0.5	0.3	5700	0.5	890	51	101	51	0.5	4050	30	16.4
301	SCRS_301_08	0.5	0.1	3000	0.5	510	2	53	307	0.5	3860	14	9.2
302	SCRS_302_08	0.5	0.1	3980	0.5	590	26	98	283	0.5	1320	20	11.7
303	SCRS_303_08	0.5	0.05	400	0.5	580	189	2.5	91	0.5	1080	21	9.2
304	SCRS_304_08	0.5	0.2	720	0.5	870	23	8	2.5	0.5	460	8	3.5
305	SCRS_305_08	0.5	0.5	1020	0.5	830	4	123	120	0.5	810	16	7
306	SCRS_306_08	0.5	0.5	2410	0.5	530	12	177	30	0.5	260	130	49.3
307	SCRS_307_08	0.5	0.5	1180	0.5	410	13	140	196	0.5	780	12	6.6
308	SCRS_308_08	30	0.2	490	0.5	630	4	19	237	0.5	2070	4	2.3
309	SCRS_309_08	0.5	0.05	1300	0.5	710	3	33	190	0.5	1000	4	2.4
310	SCRS_310_08	0.5	0.1	3790	0.5	150	6	39	698	0.5	3010	18	13.8
311	SCRS_311_08	0.5	0.1	1770	0.5	870	8	2.5	52	0.5	1000	6	3.6
312	SCRS_312_08	0.5	0.05	220	0.5	430	6	2.5	35	0.5	670	1	0.7
313	SCRS_313_08	0.5	0.05	4870	0.5	320	9	22	414	0.5	2110	9	6.5
50	SCRS_50_08	0.5	0.05	600	0.5	560	7	5	45	0.5	290	0.5	0.6
67	SCRS_67_08	10	0.4	1020	0.5	40	4	26	303	0.5	3770	10	8.5
	SCRS_9211_08	20	0.05	2550	1	40	3	36	66	0.5	300	16	8.8
131	SCRS_131_08	0.5	0.05	80	0.5	390	19	2.5	2.5	0.5	50	1	0.7
132	SCRS_132_08	0.5	0.05	70	0.5	450	17	2.5	2.5	0.5	80	2	0.9
133	SCRS_133_08	0.5	0.1	140	0.5	690	17	36	11	0.5	140	17	10.2
134	SCRS_134_08	0.5	0.2	810	0.5	420	12	145	29	0.5	680	55	32.4
135	SCRS_135_08	0.5	0.2	130	0.5	550	5	17	11	0.5	500	6	2.5
136	SCRS_136_08	0.5	0.4	1160	0.5	530	6	167	336	0.5	730	35	18.7
137	SCRS_137_08	0.5	0.2	310	0.5	780	9	26	67	0.5	380	4	2.1
138	SCRS_138_08	30	0.05	530	0.5	10	6	52	55	100	190	27	14.8
139	SCRS_139_08	30	0.4	2460	0.5	30	2	46	200	0.5	3030	10	6.2
140	SCRS_140_08	10	0.2	1180	0.5	540	5	70	326	0.5	2770	8	4.7
141	SCRS_141_08	0.5	0.05	430	0.5	760	8	26	45	0.5	240	6	3.8
142	SCRS_142_08	20	0.3	490	0.5	580	5	15	93	0.5	2290	3	1.5
143	SCRS_143_08	0.5	0.05	520	0.5	20	6	101	40	0.5	110	12	5
144	SCRS_144_08	40	0.1	970	0.5	180	1	38	193	0.5	530	12	6.6
145	SCRS_145_08	60	0.4	2830	0.5	20	4	51	183	0.5	3480	12	9
146	SCRS_146_08	0.5	0.4	480	0.5	0.5	11	41	27	0.5	290	25	13
147	SCRS_147_08	0.5	0.2	650	0.5	20	1	6	12	0.5	160	1	0.9
148	SCRS_148_08	0.5	0.4	410	0.5	570	3	2.5	34	0.5	480	1	0.9
159	SCRS_159_08	0.5	0.05	190	0.5	770	12	2.5	2.5	0.5	30	0.5	0.6
160	SCRS_160_08	0.5	0.1	260	0.5	90	8	6	41	0.5	80	7	4.7
161	SCRS_161_08	0.5	0.3	1020	0.5	790	18	107	116	0.5	1210	25	13.8
162	SCRS_162_08	0.5	0.05	290	0.5	510	12	14	23	0.5	70	5	2.8
163	SCRS_163_08	0.5	0.05	190	0.5	620	42	19	73	0.5	90	8	4.8
164	SCRS_164_08	0.5	0.05	380	0.5	10	9	8	100	0.5	210	14	9.3
165	SCRS_165_08	0.5	0.05	300	0.5	640	12	5	10	0.5	30	2	0.9
166	SCRS_166_08	20	0.05	1360	1	90	4	132	208	0.5	240	28	8.9
167	SCRS_167_08	0.5	0.1	4880	0.5	120	3	17	180	0.5	1260	5	3.8
168	SCRS_168_08	10	0.6	1100	0.5	20	3	6	26	0.5	4070	3	2.9
169	SCRS_169_08	0.5	0.1	1630	0.5	50	3	16	60	0.5	420	2	2.2
175	SCRS_175_08	0.5	0.3	580	0.5	290	1	413	465	0.5	1960	151	102
176	SCRS_176_08	0.5	0.05	160	0.5	710	6	30	20	0.5	120	13	6.2
177	SCRS_177_08	0.5	0.1	200	0.5	630	3	6	65	0.5	290	3	1.7
178	SCRS_178_08	0.5	0.05	410	0.5	0.5	1	12	72	0.5	500	2	1.2
179	SCRS_179_08	40	0.05	430	1	30	3	165	47	0.5	160	18	8
180	SCRS_180_08	20	0.05	910	1	20	9	83	274	300	270	23	10.5

GRID_ID	FIELD_NUMBER	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cu_ppb	Dy_ppb	Er_ppb
181	SCRS_181_08	20	0.1	530	0.5	430	3	23	352	0.5	750	5	3
182	SCRS_182_08	0.5	0.1	600	0.5	20	11	16	150	0.5	130	22	12.9
206	SCRS_206_08	0.5	0.1	2070	0.5	210	4	9	156	0.5	1550	3	2.1
261	SCRS_261_08	0.5	0.05	880	0.5	340	137	45	245	0.5	810	64	54.3
262	SCRS_262_08	0.5	0.05	430	0.5	660	93	49	19	0.5	90	15	9.9
263	SCRS_263_08	0.5	0.05	250	0.5	430	51	28	27	0.5	190	12	7.4
264	SCRS_264_08	0.5	0.05	280	0.5	580	17	12	64	0.5	500	2	1
265	SCRS_265_08	0.5	0.05	210	0.5	710	19	7	37	0.5	80	3	2.1
266	SCRS_266_08	0.5	0.05	290	0.5	800	19	2.5	23	0.5	40	3	1.4
267	SCRS_267_08	0.5	0.05	330	0.5	740	60	2.5	2.5	0.5	30	3	1.2
268	SCRS_268_08	0.5	0.05	90	0.5	520	14	2.5	11	0.5	50	0.5	0.25
269	SCRS_269_08	20	0.2	6980	0.5	360	48	962	840	0.5	1180	142	66.9
270	SCRS_270_08	0.5	0.3	4570	0.5	500	42	192	337	0.5	1820	65	36.2
31	SCRS_31_08	0.5	0.1	340	0.5	570	11	20	34	0.5	160	5	2.6
32	SCRS_32_08	0.5	0.2	600	0.5	390	7	725	16	0.5	740	172	107
33	SCRS_33_08	0.5	0.1	110	0.5	390	11	2.5	2.5	0.5	100	1	1.2
34	SCRS_34_08	0.5	0.05	80	0.5	340	12	2.5	2.5	0.5	30	1	1
35	SCRS_35_08	0.5	0.05	330	0.5	590	6	75	78	0.5	360	10	6
36	SCRS_36_08	0.5	0.1	150	0.5	320	3	28	188	0.5	350	3	1.8
37	SCRS_37_08	0.5	0.1	50	0.5	650	7	2.5	56	0.5	910	4	2.2
38	SCRS_38_08	0.5	0.1	140	0.5	630	3	37	237	0.5	1920	8	5.3
39	SCRS_39_08	10	0.2	130	0.5	670	1	48	545	0.5	2190	8	4.8
40	SCRS_40_08	0.5	0.2	160	0.5	810	23	5	14	0.5	350	12	6
41	SCRS_41_08	0.5	0.05	60	0.5	490	11	2.5	2.5	0.5	10	2	1.7
42	SCRS_42_08	0.5	0.05	50	0.5	390	14	2.5	2.5	0.5	10	1	0.8
80	SCRS_80_08	0.5	1.9	370	0.5	370	22	176	721	0.5	2450	16	8.4
81	SCRS_81_08	0.5	0.3	150	0.5	510	12	11	72	0.5	1540	6	3.4
82	SCRS_82_08	0.5	0.2	380	0.5	540	3	73	229	0.5	1230	15	8.4
83	SCRS_83_08	0.5	0.1	370	0.5	520	10	93	163	0.5	1210	24	12.8
84	SCRS_84_08	30	0.2	2100	0.5	110	13	588	197	0.5	750	203	113
85	SCRS_85_08	0.5	0.1	970	0.5	160	6	128	208	0.5	1430	29	15.9
86	SCRS_86_08	0.5	0.05	590	0.5	20	3	14	181	0.5	1320	15	14
87	SCRS_87_08	0.5	0.05	340	0.5	40	5	9	71	0.5	830	10	7.5
88	SCRS_88_08	0.5	0.05	190	0.5	620	3	19	124	0.5	1030	3	1.8
89	SCRS_89_08	0.5	0.05	620	0.5	290	5	18	67	0.5	400	14	7.4
90	SCRS_90_08	0.5	0.05	150	0.5	810	9	2.5	2.5	0.5	60	1	0.7
91	SCRS_91_08	0.5	0.05	60	0.5	540	18	2.5	2.5	0.5	20	5	3.4
92	SCRS_92_08	0.5	0.05	190	0.5	710	4	28	155	0.5	550	3	2.2
93	SCRS_93_08	0.5	0.1	80	0.5	680	16	2.5	2.5	0.5	10	3	1.8
94	SCRS_94_08	0.5	0.1	270	0.5	640	1	49	422	0.5	1170	7	4
95	SCRS_95_08	0.5	0.1	80	0.5	580	5	9	52	0.5	660	3	1.6
96	SCRS_96_08	0.5	0.2	180	0.5	640	9	28	185	0.5	2020	8	5.2
967	SCRS_967_08	20	0.3	210	0.5	480	3	19	95	0.5	3020	2	1.5
968	SCRS_968_08	0.5	0.1	220	0.5	710	5	20	141	0.5	1160	3	2.2
97	SCRS_97_08	10	0.5	1650	0.5	160	10	85	317	0.5	1820	44	29.3
	SCRS_980_08	0.5	0.4	160	0.5	590	7	6	9	0.5	560	6	2.9

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
1	SCRS_1_08	0.25	24	2	4	2.5	30	11	0.9	7	497	60
10	SCRS_10_08	0.25	11	0.5	0.5	2.5	95	2.5	0.25	1	190	50
11	SCRS_11_08	1.6	56	8	13	2.5	11	2.5	1	22	389	110
12	SCRS_12_08	2.8	437	12	41	2.5	12	2.5	2.3	49	722	30
13	SCRS_13_08	0.25	109	0.5	5	19	99	2.5	0.25	4	599	0.5
14	SCRS_14_08	7.7	196	34	84	2.5	7	2.5	5.5	110	249	890
15	SCRS_15_08	5.7	92	24	57	2.5	14	2.5	2.5	86	300	630
16	SCRS_16_08	2.6	20	13	14	5	30	2.5	0.25	26	564	40
17	SCRS_17_08	0.25	10	3	3	2.5	25	2.5	0.25	5	39	80
18	SCRS_18_08	2.5	88	11	24	2.5	13	2.5	2.6	32	136	420
19	SCRS_19_08	4.6	21	16	14	2.5	37	2.5	0.25	31	448	50
2	SCRS_2_08	8.2	93	38	81	2.5	14	6	1.6	149	184	180
20	SCRS_20_08	13.5	15	57	48	2.5	3	2.5	0.25	106	177	70
21	SCRS_21_08	1.8	13	11	5	2.5	10	2.5	0.25	17	135	0.5
22	SCRS_22_08	2.1	12	12	12	2.5	30	2.5	0.25	26	109	30
23	SCRS_23_08	0.8	6	5	3	2.5	4	2.5	0.25	9	45	30
24	SCRS_24_08	5.3	43	23	43	2.5	16	14	1.4	88	580	90
25	SCRS_25_08	3.6	58	17	36	2.5	20	8	1.1	66	3310	70
26	SCRS_26_08	1.8	54	9	18	2.5	3	2.5	1.3	32	277	50
27	SCRS_27_08	1.8	25	10	9	2.5	6	2.5	0.25	24	203	20
28	SCRS_28_08	0.25	31	2	5	2.5	4	6	1.1	8	228	30
29	SCRS_29_08	2.2	18	11	19	2.5	19	2.5	0.7	32	1470	40
3	SCRS_3_08	3.7	55	19	24	2.5	12	10	1.8	56	417	70
30	SCRS_30_08	5	80	22	36	2.5	25	7	1.7	66	580	110
4	SCRS_4_08	1.1	47	6	11	2.5	10	2.5	0.6	18	564	230
43	SCRS_43_08	0.5	15	3	4	2.5	9	2.5	0.25	7	87	20
44	SCRS_44_08	2.8	25	16	13	2.5	6	2.5	0.25	28	97	160
45	SCRS_45_08	0.25	10	2	1	2.5	13	2.5	0.25	2	82	20
46	SCRS_46_08	0.25	6	0.5	1	2.5	17	2.5	0.25	2	61	20
47	SCRS_47_08	0.6	15	4	4	2.5	13	2.5	0.25	8	47	170
48	SCRS_48_08	2.7	6	16	2	2.5	17	2.5	0.25	21	130	20
49	SCRS_49_08	7	72	35	70	2.5	14	2.5	0.7	127	54	20
5	SCRS_5_08	0.25	19	0.5	1	2.5	6	6	0.25	1	43	40
51	SCRS_51_08	0.25	11	2	2	2.5	15	2.5	0.25	4	57	40
52	SCRS_52_08	1.6	17	9	7	2.5	24	2.5	0.25	19	219	20
53	SCRS_53_08	1.3	11	6	9	2.5	9	2.5	0.25	16	76	20
54	SCRS_54_08	0.9	10	4	6	2.5	18	2.5	0.25	12	118	10
6	SCRS_6_08	1.4	62	7	21	2.5	11	2.5	1	32	213	20
7	SCRS_7_08	1.5	10	9	4	2.5	7	2.5	0.25	13	120	80
8	SCRS_8_08	5.6	56	28	79	2.5	11	2.5	0.25	125	129	20
9	SCRS_9_08	1	15	6	3	2.5	45	2.5	0.25	7	86	90
100	SCRS_100_08	0.9	184	3	13	2.5	0.5	2.5	3.5	11	61	30
101	SCRS_101_08	2	177	10	16	2.5	2	2.5	0.9	19	64	90
102	SCRS_102_08	4.2	72	18	27	2.5	1	2.5	2.1	42	34	230
103	SCRS_103_08	1.5	423	4	7	6	16	82	3.9	10	242	20

GRID_ID	_LD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
104	SCRS_104_08	1.6	357	4	9	2.5	3	85	4.1	10	185	50
105	SCRS_105_08	1.5	199	5	7	2.5	108	83	1	14	502	40
106	SCRS_106_08	2.2	63	9	18	2.5	1	2.5	1.7	24	51	310
114	SCRS_114_08	0.25	15	2	4	2.5	10	2.5	0.25	5	68	40
115	SCRS_115_08	8.2	254	43	36	2.5	23	2.5	0.25	71	537	190
116	SCRS_116_08	2.5	170	11	24	2.5	0.5	2.5	3	29	133	220
117	SCRS_117_08	2	315	9	29	2.5	1	2.5	2.5	31	119	20
118	SCRS_118_08	0.5	44	2	5	2.5	7	2.5	0.25	8	96	100
119	SCRS_119_08	1.6	194	8	7	2.5	16	7	1	13	83	60
120	SCRS_120_08	2.8	95	10	21	2.5	1	2.5	1.1	27	107	130
121	SCRS_121_08	1.6	238	7	14	2.5	28	8	0.8	20	190	40
122	SCRS_122_08	40.8	225	197	319	2.5	2	8	5.4	528	195	180
123	SCRS_123_08	3.1	306	14	20	2.5	13	10	1	30	415	50
124	SCRS_124_08	6.5	152	33	13	2.5	12	7	1.8	45	694	180
125	SCRS_125_08	1	161	4	9	2.5	6	2.5	2.4	10	135	150
126	SCRS_126_08	2.1	85	6	7	2.5	15	6	1.3	11	414	100
127	SCRS_127_08	0.8	4	4	2	2.5	49	2.5	0.25	5	88	40
128	SCRS_128_08	1	329	4	16	2.5	6	5	7.7	14	74	70
129	SCRS_129_08	2.6	13	12	10	2.5	48	2.5	0.25	24	284	80
130	SCRS_130_08	4.9	163	21	59	18	18	5	6.3	66	314	170
55	SCRS_55_08	3.1	18	15	15	2.5	10	2.5	0.25	38	216	20
56	SCRS_56_08	3	64	13	37	2.5	13	2.5	0.25	58	102	40
57	SCRS_57_08	2.2	40	11	15	2.5	21	2.5	0.25	26	237	230
58	SCRS_58_08	0.7	7	4	2	2.5	14	2.5	0.25	6	125	10
59	SCRS_59_08	3.2	38	14	27	2.5	12	6	0.6	53	414	20
60	SCRS_60_08	3.3	47	16	19	2.5	18	2.5	0.25	39	261	180
61	SCRS_61_08	7.1	265	31	43	2.5	2	8	6.3	75	119	170
62	SCRS_62_08	4.9	79	24	56	2.5	6	5	0.5	96	167	40
63	SCRS_63_08	0.25	4	3	3	2.5	2	2.5	0.25	6	61	10
64	SCRS_64_08	1.5	28	8	13	2.5	12	2.5	0.25	24	214	30
65	SCRS_65_08	0.25	5	0.5	0.5	7	16	2.5	0.25	1	92	0.5
66	SCRS_66_08	1.6	53	8	6	7	12	2.5	0.5	14	66	240
68	SCRS_68_08	1.1	8	5	3	2.5	2	2.5	0.25	11	139	10
69	SCRS_69_08	1.6	33	7	10	2.5	3	2.5	0.25	19	275	20
70	SCRS_70_08	0.6	8	3	3	2.5	16	2.5	0.25	6	84	20
71	SCRS_71_08	1.5	44	7	6	2.5	14	2.5	0.25	13	82	350
72	SCRS_72_08	3.5	16	17	12	2.5	13	2.5	0.25	27	317	80
73	SCRS_73_08	6.9	61	36	28	2.5	11	2.5	0.25	55	136	180
74	SCRS_74_08	2.6	63	13	16	2.5	13	2.5	0.25	30	185	170
75	SCRS_75_08	7.7	24	35	28	2.5	24	6	0.25	73	606	30
76	SCRS_76_08	5.3	461	21	57	2.5	8	2.5	3.6	69	312	20
77	SCRS_77_08	2.6	7	12	9	2.5	1	2.5	0.25	24	105	20
78	SCRS_78_08	0.8	6	4	4	2.5	4	2.5	0.25	8	86	60
79	SCRS_79_08	4.4	6	22	28	2.5	3	2.5	0.25	56	55	80

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
	SCRS_9104_08	1.9	380	5	8	2.5	3	118	5.6	11	179	110
98	SCRS_98_08	6	17	24	21	2.5	3	2.5	0.25	50	59	30
99	SCRS_99_08	1.2	373	5	17	2.5	8	2.5	4.5	16	67	20
	555_1_08	0.25	18	2	0.5	2.5	6	8	0.25	0.5	1060	20
	555_2_08	14.4	83	64	354	2.5	7	5	3.5	301	174	730
	555_3_08	324	23	1480	11600	2.5	19	2.5	0.7	9090	114	370
	555_4_08	3.2	23	14	26	2.5	0.5	2.5	1	44	207	60
	555_5_08	46.1	21	219	366	2.5	18	2.5	0.7	820	553	50
	555_6_08	53.6	23	257	412	2.5	0.5	2.5	1.4	827	52	140
	555_7_08	9.5	9	53	36	2.5	6	2.5	1.2	115	103	40
	555_8_08	6.9	34	35	24	2.5	3	2.5	2.9	62	96	140
	555_91_08	0.25	9	0.5	0.5	6	9	6	0.25	0.5	228	0.5
110	SCRS_110_08	0.7	28	3	8	2.5	6	2.5	0.25	11	249	30
111	SCRS_111_08	2.4	125	12	22	2.5	6	2.5	0.7	37	460	370
112	SCRS_112_08	1.3	194	6	11	2.5	4	2.5	0.25	19	405	50
113	SCRS_113_08	0.25	11	3	2	2.5	14	2.5	0.25	4	792	0.5
149	SCRS_149_08	1.7	13	11	0.5	2.5	20	2.5	0.25	8	241	20
150	SCRS_150_08	0.25	8	2	0.5	2.5	36	2.5	0.25	3	56	50
151	SCRS_151_08	8	46	40	68	2.5	23	2.5	0.5	142	254	10
152	SCRS_152_08	8.7	164	46	56	2.5	159	2.5	0.9	107	356	80
153	SCRS_153_08	1.6	27	9	10	2.5	33	2.5	0.25	22	119	0.5
154	SCRS_154_08	4.1	89	18	37	2.5	7	2.5	2.2	50	83	110
155	SCRS_155_08	1.9	5	13	5	2.5	37	2.5	0.25	23	405	0.5
156	SCRS_156_08	0.25	11	2	1	2.5	46	2.5	0.25	3	48	50
157	SCRS_157_08	0.6	12	3	1	2.5	25	2.5	0.25	6	192	0.5
158	SCRS_158_08	1.5	73	8	16	2.5	17	2.5	0.6	28	352	90
170	SCRS_170_08	10.2	173	57	139	2.5	9	5	17.2	186	107	220
171	SCRS_171_08	0.6	12	3	1	2.5	12	2.5	0.25	4	53	50
172	SCRS_172_08	1.6	16	10	7	2.5	25	2.5	0.25	18	134	50
173	SCRS_173_08	2.9	64	14	19	2.5	55	7	0.6	39	464	10
174	SCRS_174_08	32.7	25	168	210	2.5	119	2.5	0.25	407	247	20
183	SCRS_183_08	0.25	114	0.5	0.5	2.5	7	2.5	1.1	0.5	46	0.5
184	SCRS_184_08	0.9	189	4	12	7	4	2.5	2.4	12	76	30
185	SCRS_185_08	2	369	9	17	2.5	18	2.5	1.8	26	422	60
186	SCRS_186_08	0.7	149	3	13	2.5	1	2.5	7.3	10	27	160
187	SCRS_187_08	2.1	15	8	15	2.5	28	6	0.25	27	795	30
188	SCRS_188_08	3.8	120	20	8	2.5	47	6	0.25	27	175	60
189	SCRS_189_08	10.3	180	56	38	2.5	7	8	2	85	449	300
199	SCRS_199_08	1.5	89	6	8	2.5	1	2.5	2.4	16	58	470
200	SCRS_200_08	0.6	128	3	11	2.5	1	2.5	7.2	9	67	200
201	SCRS_201_08	1.1	140	6	7	2.5	3	2.5	1.3	11	53	30
202	SCRS_202_08	4.8	150	25	25	2.5	3	2.5	3.7	45	84	190
203	SCRS_203_08	4.7	159	21	39	2.5	1	2.5	3.8	57	174	130
204	SCRS_204_08	1.1	204	6	8	2.5	5	7	3.5	12	173	50
205	SCRS_205_08	1.5	191	5	12	2.5	82	13	1	21	1090	20
211	SCRS_211_08	6.8	121	38	26	2.5	8	2.5	3.6	55	110	130
212	SCRS_212_08	0.7	5	4	2	2.5	35	2.5	0.25	5	128	0.5

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
213	SCRS_213_08	3.4	13	19	11	2.5	91	2.5	0.25	32	237	40
214	SCRS_214_08	2.6	29	13	14	2.5	53	2.5	0.25	30	184	70
215	SCRS_215_08	1	170	6	8	2.5	3	2.5	2.1	12	45	50
216	SCRS_216_08	7.7	93	28	72	2.5	12	2.5	0.25	103	495	20
217	SCRS_217_08	0.8	45	3	5	2.5	96	36	0.25	10	1420	20
218	SCRS_218_08	0.25	246	3	2	2.5	5	2.5	0.25	4	419	30
219	SCRS_219_08	0.25	100	0.5	0.5	2.5	5	2.5	0.25	0.5	62	0.5
220	SCRS_220_08	20.1	70	87	207	2.5	49	2.5	1.2	292	425	130
221	SCRS_221_08	0.25	125	2	6	7	6	2.5	2	6	125	50
222	SCRS_222_08	11	56	48	64	2.5	87	2.5	0.25	117	595	150
229	SCRS_229_08	3.7	174	19	13	2.5	3	2.5	3	28	152	170
230	SCRS_230_08	0.5	171	3	7	2.5	3	2.5	3	6	36	110
231	SCRS_231_08	0.7	206	3	10	2.5	6	2.5	1.4	13	65	0.5
232	SCRS_232_08	0.25	120	0.5	0.5	2.5	2	2.5	0.25	0.5	29	0.5
233	SCRS_233_08	1.5	70	7	7	2.5	24	2.5	2.3	16	131	280
234	SCRS_234_08	2.8	103	13	20	2.5	61	79	0.9	41	2190	20
235	SCRS_235_08	8.1	118	39	47	12	47	2.5	0.6	102	568	130
236	SCRS_236_08	6.4	75	36	44	2.5	32	2.5	0.6	86	1420	580
237	SCRS_237_08	6.1	230	31	47	2.5	31	2.5	0.6	85	784	180
238	SCRS_238_08	0.25	149	0.5	2	2.5	67	15	0.25	2	287	20
239	SCRS_239_08	40.4	393	192	451	2.5	78	8	2.1	717	617	70
244	SCRS_244_08	50.7	27	176	496	2.5	23	2.5	0.8	753	687	70
245	SCRS_245_08	4.6	205	17	39	2.5	29	31	1.5	55	750	20
246	SCRS_246_08	7.5	34	31	62	2.5	0.5	2.5	1.2	103	49	150
247	SCRS_247_08	0.7	287	3	8	2.5	22	2.5	3.7	10	200	30
248	SCRS_248_08	11.3	145	54	50	2.5	33	11	0.6	96	512	240
249	SCRS_249_08	25.2	110	109	191	2.5	10	2.5	0.8	310	229	70
250	SCRS_250_08	5.1	58	23	34	5	32	2.5	0.25	63	1000	180
251	SCRS_251_08	5.6	118	29	59	2.5	20	6	0.7	105	464	50
252	SCRS_252_08	3.6	81	20	32	2.5	66	12	0.6	56	1100	160
253	SCRS_253_08	1.7	93	8	17	2.5	24	10	1	27	732	150
254	SCRS_254_08	27.7	40	148	207	2.5	198	10	0.25	411	2730	180
255	SCRS_255_08	2.4	375	11	41	2.5	2	2.5	3.1	39	119	20
277	SCRS_277_08	1.1	12	6	11	2.5	4	2.5	0.25	18	47	40
278	SCRS_278_08	0.7	6	3	3	2.5	4	2.5	0.25	7	61	10
279	SCRS_279_08	1.8	11	10	9	2.5	137	2.5	0.25	23	186	30
280	SCRS_280_08	2	13	12	8	2.5	55	2.5	0.25	21	241	30
281	SCRS_281_08	1	132	5	10	2.5	37	20	1	17	571	100
282	SCRS_282_08	3.1	22	15	5	7	62	12	0.25	28	1160	20
283	SCRS_283_08	2.2	449	13	32	2.5	46	8	2.3	41	444	20
	5552_1_08	0.7	62	4	15	2.5	14	23	0.6	18	1340	30
	5552_2_08	29.8	16	123	577	2.5	0.5	2.5	1.4	687	22	1320
	5552_3_08	7.2	48	37	34	2.5	3	2.5	1.5	67	135	160
	5552_4_08	19.6	21	91	114	2.5	1	5	0.7	239	131	50
	5552_5_08	10	43	58	41	2.5	23	2.5	0.7	115	368	20
	5552_6_08	4.1	74	21	25	2.5	6	5	1.9	45	214	130
	5552_7_08	1.6	98	8	9	2.5	9	2.5	2.3	16	71	190
	5552_8_08	3.4	28	17	15	2.5	3	2.5	0.8	31	109	240
107	SCRS_107_08	0.7	249	4	15	2.5	46	2.5	1.3	13	248	10
108	SCRS_108_08	7.2	183	36	45	2.5	70	2.5	1.6	82	612	360

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
109	SCRS_109_08	3.8	68	21	24	7	103	2.5	0.25	45	4520	40
190	SCRS_190_08	1.8	9	9	6	5	17	2.5	0.25	18	205	20
191	SCRS_191_08	0.7	403	3	8	7	16	5	1.6	10	247	30
192	SCRS_192_08	1.2	79	7	6	14	2	2.5	1.3	10	86	240
193	SCRS_193_08	0.25	12	3	3	5	40	2.5	0.25	6	53	30
194	SCRS_194_08	0.8	309	4	6	10	6	2.5	2.4	10	72	0.5
195	SCRS_195_08	1	71	4	8	7	0.5	2.5	1	10	123	190
196	SCRS_196_08	12.7	84	60	61	7	5	2.5	3.1	95	294	170
197	SCRS_197_08	0.9	8	5	3	2.5	69	2.5	0.25	10	170	20
198	SCRS_198_08	1.3	12	8	7	2.5	38	2.5	0.25	16	40	30
207	SCRS_207_08	1.8	141	9	14	2.5	14	2.5	0.25	25	441	60
208	SCRS_208_08	4.5	491	21	37	2.5	3	7	5.1	47	209	30
209	SCRS_209_08	0.8	54	4	9	6	0.5	2.5	1	10	126	60
210	SCRS_210_08	11.7	133	63	39	5	8	2.5	3.9	89	239	270
223	SCRS_223_08	1	10	5	4	2.5	32	2.5	0.25	9	88	50
224	SCRS_224_08	3.6	351	18	27	2.5	5	9	4.8	38	195	40
225	SCRS_225_08	1.4	161	8	12	2.5	16	2.5	1.9	17	144	190
226	SCRS_226_08	1	163	7	7	2.5	20	2.5	0.25	13	136	120
227	SCRS_227_08	0.9	299	5	10	2.5	20	2.5	2.8	13	87	20
228	SCRS_228_08	2.8	80	22	18	2.5	19	2.5	1.3	36	189	80
236	SCRS_236_08	2.2	297	11	32	2.5	18	23	1.6	36	230	20
240	SCRS_240_08	1.9	21	7	19	2.5	168	18	1.2	31	791	20
241	SCRS_241_08	1.6	40	10	7	2.5	26	2.5	0.25	15	71	110
242	SCRS_242_08	21.6	231	118	102	2.5	52	15	3	228	221	110
243	SCRS_243_08	6.4	175	33	26	5	32	6	4.1	59	210	60
257	SCRS_257_08	3.7	28	20	17	2.5	38	5	0.25	38	1180	250
258	SCRS_258_08	5.4	79	24	34	8	68	2.5	1.9	67	336	80
259	SCRS_259_08	5.4	123	28	33	2.5	70	10	0.7	58	3060	580
260	SCRS_260_08	1	323	6	17	2.5	21	2.5	1.7	19	166	80
271	SCRS_271_08	2.2	24	13	17	2.5	18	2.5	0.25	28	82	500
272	SCRS_272_08	3.7	17	22	20	2.5	67	2.5	0.25	39	74	410
273	SCRS_273_08	4.6	85	28	18	2.5	78	2.5	0.25	41	101	550
274	SCRS_274_08	2.8	72	15	16	2.5	47	2.5	1	28	166	4100
275	SCRS_275_08	0.25	132	3	5	7	10	2.5	0.25	8	37	40
276	SCRS_276_08	0.25	119	1	4	2.5	3	2.5	1	4	50	0.5
284	SCRS_284_08	0.25	174	2	5	2.5	10	2.5	1	6	54	20
285	SCRS_285_08	1.1	9	7	0.5	2.5	7	2.5	0.25	2	92	30
286	SCRS_286_08	3.1	13	16	26	2.5	13	2.5	0.25	55	96	680
287	SCRS_287_08	1.6	65	7	22	2.5	14	2.5	0.25	30	72	50
288	SCRS_288_08	0.25	3	1	0.5	2.5	32	2.5	0.25	1	30	30
289	SCRS_289_08	22.3	25	119	75	2.5	30	2.5	0.25	288	91	30
290	SCRS_290_08	3	119	17	14	2.5	22	2.5	0.25	35	181	70
291	SCRS_291_08	2	19	10	15	2.5	198	5	0.25	32	1140	0.5
292	SCRS_292_08	8.6	338	43	89	2.5	128	9	1.5	148	696	30
293	SCRS_293_08	0.25	31	2	5	2.5	49	2.5	0.25	7	96	20
294	SCRS_294_08	2.5	97	12	25	2.5	74	56	0.7	45	1230	20
295	SCRS_295_08	1.2	7	8	0.5	2.5	9	2.5	0.25	1	179	10
296	SCRS_296_08	1.1	11	6	6	2.5	5	2.5	0.25	15	245	10
297	SCRS_297_08	2.7	93	15	23	2.5	30	2.5	0.25	56	665	30
298	SCRS_298_08	8	122	38	141	2.5	9	2.5	0.5	189	127	40
299	SCRS_299_08	3.9	22	22	19	2.5	96	2.5	0.25	48	436	40

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppb	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
300	SCRS_300_08	6.7	38	37	38	2.5	98	2.5	0.25	79	1530	80
301	SCRS_301_08	2.9	113	14	29	2.5	18	2.5	0.25	42	175	0.5
302	SCRS_302_08	4.2	46	22	39	2.5	44	2.5	0.25	64	588	30
303	SCRS_303_08	5.1	7	34	0.5	2.5	3	2.5	0.25	6	599	40
304	SCRS_304_08	2	16	11	7	2.5	10	2.5	0.25	25	303	20
305	SCRS_305_08	6.1	47	29	47	2.5	16	2.5	0.5	122	261	10
306	SCRS_306_08	44.1	27	220	147	2.5	48	2.5	0.25	577	195	70
307	SCRS_307_08	3.7	116	18	63	2.5	11	2.5	0.25	79	100	30
308	SCRS_308_08	0.9	110	6	8	2.5	18	32	0.5	16	1310	40
309	SCRS_309_08	1	71	5	11	2.5	28	2.5	0.8	18	179	0.5
310	SCRS_310_08	2.6	247	13	15	2.5	11	2.5	0.8	25	458	20
311	SCRS_311_08	1	14	5	1	2.5	53	2.5	0.25	5	360	0.5
312	SCRS_312_08	0.25	14	1	0.5	12	60	6	0.25	2	1070	10
313	SCRS_313_08	1.4	191	7	9	2.5	28	2.5	0.6	16	482	20
50	SCRS_50_08	0.25	15	1	2	2.5	18	2.5	0.6	3	65	20
67	SCRS_67_08	1.2	155	6	9	2.5	4	2.5	0.6	14	104	50
	SCRS_9211_08	2.8	266	15	15	2.5	13	2.5	1.1	22	115	20
131	SCRS_131_08	0.25	5	0.5	0.5	2.5	5	2.5	0.25	1	96	10
132	SCRS_132_08	0.25	6	1	0.5	2.5	4	2.5	0.25	1	167	0.5
133	SCRS_133_08	3	14	16	11	2.5	20	2.5	0.25	26	131	100
134	SCRS_134_08	10.3	24	59	60	2.5	17	2.5	0.25	119	287	70
135	SCRS_135_08	1.6	7	10	6	2.5	42	2.5	0.25	23	177	0.5
136	SCRS_136_08	7.4	56	41	74	2.5	18	2.5	0.25	116	256	40
137	SCRS_137_08	1.2	28	5	7	2.5	30	2.5	0.25	14	397	10
138	SCRS_138_08	3.3	280	17	18	2.5	2	2.5	7.8	32	91	320
139	SCRS_139_08	2.4	508	9	20	2.5	6	2.5	1.6	26	325	20
140	SCRS_140_08	2.5	138	12	25	2.5	11	2.5	1.4	41	101	60
141	SCRS_141_08	1.7	34	8	12	2.5	5	2.5	0.25	22	143	20
142	SCRS_142_08	0.8	107	3	6	2.5	21	6	0.7	10	307	30
143	SCRS_143_08	3.7	64	16	40	2.5	2	2.5	2.3	60	51	370
144	SCRS_144_08	2.8	386	14	14	2.5	65	13	1	29	234	70
145	SCRS_145_08	2.9	605	12	22	2.5	7	13	2.6	31	542	20
146	SCRS_146_08	3.5	72	17	15	2.5	0.5	2.5	0.9	36	87	220
147	SCRS_147_08	0.25	308	1	3	2.5	1	2.5	1.2	3	96	0.5
148	SCRS_148_08	0.25	9	0.5	0.5	2.5	44	2.5	0.25	0.5	534	0.5
159	SCRS_159_08	0.25	7	1	1	2.5	35	2.5	0.25	3	72	20
160	SCRS_160_08	0.8	140	4	3	2.5	13	2.5	1.2	5	82	330
161	SCRS_161_08	5.3	52	29	41	2.5	20	2.5	0.25	65	623	70
162	SCRS_162_08	1	38	5	6	2.5	13	2.5	0.25	12	71	120
163	SCRS_163_08	1.6	35	9	6	2.5	16	2.5	0.25	14	62	190
164	SCRS_164_08	1.3	203	8	3	2.5	2	2.5	3	8	112	270
165	SCRS_165_08	0.6	7	3	1	2.5	79	2.5	0.25	3	174	40
166	SCRS_166_08	10.4	76	54	52	2.5	15	2.5	2	88	155	480
167	SCRS_167_08	1.6	380	3	8	2.5	49	2.5	0.25	9	392	0.5
168	SCRS_168_08	0.9	449	3	3	6	6	24	3.1	6	593	10
169	SCRS_169_08	0.9	482	2	8	8	14	7	2.3	8	79	0.5
175	SCRS_175_08	19.5	79	139	168	2.5	166	2.5	0.8	274	350	70
176	SCRS_176_08	3.7	12	21	14	2.5	38	2.5	0.25	41	155	0.5
177	SCRS_177_08	1.1	8	5	3	2.5	82	2.5	0.25	10	263	0.5
178	SCRS_178_08	0.25	217	2	6	2.5	2	2.5	2.5	5	72	10
179	SCRS_179_08	6.7	188	30	56	2.5	3	2.5	7	98	65	380
180	SCRS_180_08	6.1	235	26	30	7	6	2.5	3.3	59	215	260

GRID_ID	FIELD_NUMBER	Eu_ppb	Fe_ppm	Gd_ppb	La_ppb	Li_ppm	Mg_ppm	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	Pb_ppb
181	SCRS_181_08	1.4	340	7	8	2.5	72	8	1	18	204	30
182	SCRS_182_08	2	126	12	6	2.5	3	2.5	1.6	13	108	240
206	SCRS_206_08	0.8	500	2	4	2.5	27	2.5	0.25	5	1620	0.5
261	SCRS_261_08	5.5	112	37	29	2.5	34	2.5	0.25	62	117	4350
262	SCRS_262_08	2.5	16	15	13	2.5	93	2.5	0.25	27	95	230
263	SCRS_263_08	1.5	43	10	15	2.5	39	2.5	0.25	22	107	250
264	SCRS_264_08	0.7	66	3	5	2.5	15	8	0.25	8	341	30
265	SCRS_265_08	0.6	45	3	3	2.5	17	2.5	0.25	6	96	70
266	SCRS_266_08	0.5	9	3	2	2.5	9	2.5	0.25	4	84	40
267	SCRS_267_08	0.6	7	3	2	2.5	168	2.5	0.25	6	163	20
268	SCRS_268_08	0.25	3	0.5	0.5	2.5	21	2.5	0.25	0.5	116	0.5
269	SCRS_269_08	27.4	211	193	352	2.5	76	2.5	1.4	558	625	150
270	SCRS_270_08	11.9	84	71	76	2.5	139	2.5	0.25	152	822	160
31	SCRS_31_08	1.5	16	7	10	2.5	2	2.5	0.25	19	84	30
32	SCRS_32_08	35	30	208	147	2.5	5	2.5	0.25	460	635	150
33	SCRS_33_08	0.25	6	1	0.5	2.5	4	2.5	0.25	1	175	0.5
34	SCRS_34_08	0.25	4	0.5	0.5	2.5	7	2.5	0.25	0.5	59	0.5
35	SCRS_35_08	2.3	79	13	22	2.5	4	2.5	1	40	73	30
36	SCRS_36_08	1.2	104	6	11	2.5	42	9	0.9	17	196	120
37	SCRS_37_08	0.8	12	5	0.5	2.5	29	2.5	0.25	4	526	10
38	SCRS_38_08	1.9	95	9	14	2.5	13	9	0.25	27	1220	110
39	SCRS_39_08	2.1	90	11	15	2.5	19	7	0.25	30	1080	60
40	SCRS_40_08	2.7	8	15	3	2.5	10	2.5	0.25	19	474	20
41	SCRS_41_08	0.25	5	1	0.5	2.5	9	2.5	0.25	0.5	69	20
42	SCRS_42_08	0.25	7	0.5	0.5	2.5	5	2.5	0.25	0.5	62	0.5
80	SCRS_80_08	4.5	201	20	35	2.5	19	2.5	0.25	64	601	50
81	SCRS_81_08	1.3	9	8	3	2.5	13	2.5	0.25	12	305	0.5
82	SCRS_82_08	4.1	95	21	28	2.5	24	10	0.25	53	418	20
83	SCRS_83_08	5.3	116	28	44	2.5	9	2.5	0.25	69	388	190
84	SCRS_84_08	48	80	242	333	2.5	6	2.5	2.7	602	214	220
85	SCRS_85_08	6.4	45	34	63	2.5	18	2.5	0.9	88	153	60
86	SCRS_86_08	1.3	176	6	7	2.5	4	2.5	0.9	10	65	200
87	SCRS_87_08	1	114	4	4	2.5	4	2.5	0.25	6	81	140
88	SCRS_88_08	0.8	58	4	8	2.5	45	5	0.25	12	305	50
89	SCRS_89_08	2.7	230	16	9	2.5	13	2.5	0.8	18	122	110
90	SCRS_90_08	0.25	5	2	0.5	2.5	39	2.5	0.25	3	102	0.5
91	SCRS_91_08	0.6	7	4	1	2.5	6	2.5	0.25	5	153	0.5
92	SCRS_92_08	0.9	42	5	10	2.5	5	7	0.25	16	207	0.5
93	SCRS_93_08	0.25	8	3	1	2.5	5	2.5	0.25	4	85	0.5
94	SCRS_94_08	1.7	113	9	17	2.5	11	2.5	0.7	29	301	10
95	SCRS_95_08	0.5	55	3	4	2.5	43	2.5	0.25	6	204	60
96	SCRS_96_08	1.8	57	8	12	2.5	40	2.5	0.25	23	313	0.5
967	SCRS_967_08	0.7	31	3	5	2.5	22	19	0.9	10	850	60
968	SCRS_968_08	1	43	4	10	2.5	11	2.5	0.6	16	220	10
97	SCRS_97_08	7.5	265	38	44	2.5	13	2.5	1.1	75	474	90
	SCRS_980_08	1.2	7	8	4	2.5	4	2.5	0.25	13	137	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
1	SCRS_1_08	0.5	2	0.5	2.5	0.5	2.5	2	0.5	4210	0.5	0.5	0.5
10	SCRS_10_08	0.5	0.5	0.5	15	0.5	8	0.5	0.5	5360	0.5	0.5	0.5
11	SCRS_11_08	0.5	5	0.5	9	0.5	8	6	0.5	3460	0.5	1	0.5
12	SCRS_12_08	0.5	12	0.5	41	0.5	29	11	0.5	510	0.5	2	0.5
13	SCRS_13_08	0.5	1	0.5	17	0.5	13	0.5	0.5	1130	0.5	0.5	0.5
14	SCRS_14_08	0.5	26	0.5	99	1	51	30	0.5	230	0.5	6	0.5
15	SCRS_15_08	0.5	19	0.5	115	0.5	27	20	0.5	370	0.5	4	0.5
16	SCRS_16_08	0.5	5	0.5	31	0.5	2.5	8	0.5	4170	0.5	2	0.5
17	SCRS_17_08	0.5	0.5	0.5	20	0.5	2.5	2	0.5	4000	0.5	0.5	0.5
18	SCRS_18_08	0.5	8	0.5	120	0.5	31	8	0.5	790	0.5	2	0.5
19	SCRS_19_08	0.5	6	0.5	33	0.5	9	11	0.5	4740	0.5	2	0.5
2	SCRS_2_08	0.5	32	0.5	10	2	14	36	0.5	3140	0.5	6	0.5
20	SCRS_20_08	0.5	20	0.5	21	0.5	8	37	0.5	3230	0.5	8	0.5
21	SCRS_21_08	0.5	3	0.5	25	0.5	2.5	7	0.5	5130	0.5	2	0.5
22	SCRS_22_08	0.5	5	0.5	28	0.5	5	8	0.5	3230	0.5	2	0.5
23	SCRS_23_08	0.5	2	0.5	9	0.5	2.5	3	0.5	2680	0.5	0.5	0.5
24	SCRS_24_08	0.5	19	0.5	11	2	8	22	0.5	3530	0.5	3	0.5
25	SCRS_25_08	0.5	14	0.5	15	0.5	10	15	0.5	4290	0.5	2	0.5
26	SCRS_26_08	0.5	7	0.5	12	1	7	7	0.5	1790	0.5	2	0.5
27	SCRS_27_08	0.5	5	0.5	26	1	2.5	7	0.5	2920	0.5	1	0.5
28	SCRS_28_08	0.5	2	0.5	7	2	2.5	2	0.5	1740	0.5	0.5	0.5
29	SCRS_29_08	0.5	7	0.5	13	2	2.5	8	0.5	6860	0.5	2	0.5
3	SCRS_3_08	0.5	12	0.5	2.5	4	8	16	0.5	3740	0.5	3	0.5
30	SCRS_30_08	0.5	14	0.5	27	1	14	18	0.5	3850	0.5	3	0.5
4	SCRS_4_08	0.5	4	0.5	8	2	5	5	0.5	2570	0.5	0.5	0.5
43	SCRS_43_08	0.5	2	0.5	11	0.5	2.5	2	0.5	4240	0.5	0.5	0.5
44	SCRS_44_08	0.5	6	0.5	6	0.5	6	10	0.5	3310	0.5	3	0.5
45	SCRS_45_08	0.5	0.5	0.5	25	0.5	2.5	1	0.5	2710	0.5	0.5	0.5
46	SCRS_46_08	0.5	0.5	0.5	20	0.5	2.5	0.5	0.5	2300	0.5	0.5	0.5
47	SCRS_47_08	0.5	2	0.5	5	0.5	2.5	2	0.5	1660	0.5	0.5	0.5
48	SCRS_48_08	0.5	2	0.5	28	0.5	2.5	10	0.5	1420	0.5	2	0.5
49	SCRS_49_08	0.5	27	0.5	38	0.5	16	30	0.5	4250	0.5	5	0.5
5	SCRS_5_08	0.5	0.5	0.5	13	1	2.5	0.5	0.5	1850	0.5	0.5	0.5
51	SCRS_51_08	0.5	0.5	0.5	8	0.5	2.5	1	0.5	3130	0.5	0.5	0.5
52	SCRS_52_08	0.5	4	0.5	25	0.5	2.5	6	0.5	1430	0.5	1	0.5
53	SCRS_53_08	0.5	3	0.5	27	0.5	2.5	4	0.5	1410	0.5	0.5	0.5
54	SCRS_54_08	0.5	2	0.5	26	0.5	2.5	3	0.5	1520	0.5	0.5	0.5
6	SCRS_6_08	0.5	8	0.5	31	0.5	19	7	0.5	1870	0.5	1	0.5
7	SCRS_7_08	0.5	2	0.5	21	0.5	2.5	5	0.5	1740	0.5	1	0.5
8	SCRS_8_08	0.5	29	0.5	22	0.5	29	26	0.5	2800	0.5	4	0.5
9	SCRS_9_08	0.5	1	0.5	72	0.5	2.5	3	0.5	2460	0.5	1	0.5
100	SCRS_100_08	0.5	3	0.5	46	0.5	25	3	0.5	60	0.5	0.5	0.5
101	SCRS_101_08	0.5	4	0.5	110	0.5	48	6	0.5	90	0.5	3	0.5
102	SCRS_102_08	0.5	9	0.5	78	0.5	69	13	0.5	40	0.5	3	0.5
103	SCRS_103_08	0.5	2	0.5	24	10	37	3	0.5	610	0.5	0.5	0.5

GRID_ID	_LD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
104	SCRS_104_08	0.5	2	0.5	60	42	34	3	0.5	190	0.5	0.5	0.5
105	SCRS_105_08	0.5	3	0.5	2.5	2	31	4	0.5	850	0.5	0.5	0.5
106	SCRS_106_08	0.5	6	0.5	208	0.5	33	7	0.5	60	0.5	2	0.5
114	SCRS_114_08	0.5	1	0.5	2.5	2	5	1	0.5	860	0.5	0.5	0.5
115	SCRS_115_08	0.5	14	0.5	16	0.5	97	25	0.5	1070	0.5	8	0.5
116	SCRS_116_08	0.5	7	0.5	96	0.5	61	7	0.5	70	0.5	2	0.5
117	SCRS_117_08	0.5	7	0.5	101	0.5	29	7	0.5	120	0.5	1	0.5
118	SCRS_118_08	0.5	2	0.5	2.5	1	8	2	0.5	1240	0.5	0.5	0.5
119	SCRS_119_08	0.5	3	0.5	36	2	60	4	0.5	490	0.5	2	0.5
120	SCRS_120_08	0.5	7	0.5	173	0.5	61	8	0.5	160	0.5	2	0.5
121	SCRS_121_08	0.5	4	0.5	37	0.5	31	5	0.5	650	0.5	1	0.5
122	SCRS_122_08	0.5	113	0.5	89	4	323	148	0.5	110	0.5	32	0.5
123	SCRS_123_08	0.5	6	0.5	33	2	68	9	0.5	480	0.5	3	0.5
124	SCRS_124_08	0.5	7	0.5	65	3	36	18	0.5	530	0.5	6	0.5
125	SCRS_125_08	0.5	2	0.5	70	1	45	2	0.5	140	0.5	1	0.5
126	SCRS_126_08	0.5	2	0.5	60	2	43	4	0.5	450	0.5	1	0.5
127	SCRS_127_08	0.5	0.5	0.5	12	0.5	2.5	2	0.5	610	0.5	0.5	0.5
128	SCRS_128_08	0.5	3	0.5	32	1	42	3	0.5	120	0.5	0.5	0.5
129	SCRS_129_08	0.5	4	0.5	17	0.5	12	8	0.5	1460	0.5	2	0.5
130	SCRS_130_08	0.5	16	0.5	30	1	120	16	2	180	0.5	4	0.5
55	SCRS_55_08	0.5	7	0.5	63	0.5	13	11	0.5	3550	0.5	2	0.5
56	SCRS_56_08	0.5	13	0.5	21	0.5	20	12	0.5	1510	0.5	2	0.5
57	SCRS_57_08	0.5	5	0.5	2.5	0.5	12	8	0.5	1540	0.5	2	0.5
58	SCRS_58_08	0.5	1	0.5	6	0.5	2.5	2	0.5	1190	0.5	0.5	0.5
59	SCRS_59_08	0.5	11	0.5	16	0.5	11	13	0.5	1060	0.5	2	0.5
60	SCRS_60_08	0.5	8	0.5	2.5	0.5	12	12	0.5	1600	0.5	2	0.5
61	SCRS_61_08	0.5	16	0.5	132	1	72	23	0.5	130	0.5	5	0.5
62	SCRS_62_08	0.5	21	0.5	18	0.5	68	21	0.5	540	0.5	4	0.5
63	SCRS_63_08	0.5	1	0.5	11	0.5	2.5	2	0.5	2040	0.5	0.5	0.5
64	SCRS_64_08	0.5	5	0.5	12	0.5	6	6	0.5	1510	0.5	1	0.5
65	SCRS_65_08	0.5	0.5	0.5	2.5	0.5	2.5	0.5	0.5	1190	0.5	0.5	0.5
66	SCRS_66_08	0.5	3	0.5	13	0.5	8	5	0.5	1050	0.5	1	0.5
68	SCRS_68_08	0.5	2	0.5	10	0.5	2.5	4	0.5	990	0.5	0.5	0.5
69	SCRS_69_08	0.5	4	0.5	5	0.5	8	6	0.5	1330	0.5	1	0.5
70	SCRS_70_08	0.5	1	0.5	2.5	0.5	2.5	2	0.5	2370	0.5	0.5	0.5
71	SCRS_71_08	0.5	3	0.5	8	0.5	11	5	0.5	960	0.5	1	0.5
72	SCRS_72_08	0.5	5	0.5	8	0.5	6	10	0.5	2600	0.5	3	0.5
73	SCRS_73_08	0.5	11	0.5	5	0.5	33	20	0.5	1580	0.5	7	0.5
74	SCRS_74_08	0.5	6	0.5	2.5	0.5	18	9	0.5	2340	0.5	2	0.5
75	SCRS_75_08	0.5	13	0.5	10	0.5	23	26	0.5	1520	0.5	5	0.5
76	SCRS_76_08	0.5	16	0.5	114	0.5	124	17	0.5	270	0.5	4	0.5
77	SCRS_77_08	0.5	4	0.5	36	0.5	2.5	8	0.5	2450	0.5	2	0.5
78	SCRS_78_08	0.5	2	0.5	10	0.5	5	3	0.5	1570	0.5	0.5	0.5
79	SCRS_79_08	0.5	11	0.5	36	0.5	10	17	0.5	1000	0.5	3	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
	SCRS_9104_08	0.5	2	0.5	80	62	51	3	2	220	0.5	0.5	0.5
98	SCRS_98_08	0.5	9	0.5	51	0.5	10	18	0.5	2110	0.5	3	0.5
99	SCRS_99_08	0.5	4	0.5	25	0.5	29	3	0.5	190	0.5	0.5	0.5
	555_1_08	0.5	0.5	0.5	8	1	6	0.5	0.5	3560	0.5	0.5	0.5
	555_2_08	2	80	0.5	178	4	54	61	0.5	130	0.5	9	0.5
	555_3_08	2	2480	0.5	109	0.5	235	1650	0.5	240	0.5	161	0.5
	555_4_08	0.5	9	0.5	91	0.5	27	13	0.5	30	0.5	3	0.5
	555_5_08	1	160	0.5	159	0.5	132	208	0.5	430	0.5	25	0.5
	555_6_08	0.5	167	0.5	144	1	124	217	0.5	30	0.5	36	0.5
	555_7_08	0.5	20	0.5	72	0.5	19	39	0.5	120	0.5	8	0.5
	555_8_08	0.5	12	0.5	129	1	60	22	0.5	40	0.5	7	0.5
	555_91_08	0.5	0.5	0.5	2.5	1	2.5	0.5	0.5	4500	0.5	0.5	0.5
110	SCRS_110_08	0.5	2	0.5	8	0.5	7	3	0.5	1280	0.5	0.5	0.5
111	SCRS_111_08	0.5	8	0.5	15	2	28	10	0.5	1090	0.5	2	0.5
112	SCRS_112_08	0.5	4	0.5	20	1	26	5	0.5	1000	0.5	1	0.5
113	SCRS_113_08	0.5	0.5	0.5	11	0.5	10	2	0.5	640	0.5	0.5	0.5
149	SCRS_149_08	0.5	0.5	0.5	7	0.5	14	6	0.5	2670	0.5	2	0.5
150	SCRS_150_08	0.5	0.5	0.5	11	0.5	10	1	0.5	2290	0.5	0.5	0.5
151	SCRS_151_08	0.5	28	0.5	7	3	23	37	0.5	2030	0.5	5	0.5
152	SCRS_152_08	0.5	22	0.5	91	0.5	129	33	0.5	580	0.5	7	0.5
153	SCRS_153_08	0.5	4	0.5	15	0.5	19	7	0.5	390	0.5	1	0.5
154	SCRS_154_08	0.5	11	0.5	103	0.5	28	14	0.5	230	0.5	3	0.5
155	SCRS_155_08	0.5	3	0.5	16	0.5	11	9	0.5	430	0.5	2	0.5
156	SCRS_156_08	0.5	0.5	0.5	2.5	0.5	6	1	0.5	700	0.5	0.5	0.5
157	SCRS_157_08	0.5	0.5	0.5	10	0.5	11	2	0.5	390	0.5	0.5	0.5
158	SCRS_158_08	0.5	6	0.5	8	2	21	7	0.5	1280	0.5	1	0.5
170	SCRS_170_08	0.5	40	0.5	54	3	51	47	2	260	0.5	9	40
171	SCRS_171_08	0.5	0.5	0.5	51	0.5	12	2	0.5	2980	0.5	0.5	0.5
172	SCRS_172_08	0.5	3	0.5	18	0.5	14	7	0.5	1160	0.5	2	0.5
173	SCRS_173_08	0.5	8	0.5	13	0.5	29	11	0.5	490	0.5	2	0.5
174	SCRS_174_08	0.5	79	0.5	24	0.5	296	118	0.5	510	0.5	27	0.5
183	SCRS_183_08	0.5	0.5	0.5	8	0.5	7	0.5	0.5	460	0.5	0.5	0.5
184	SCRS_184_08	0.5	3	0.5	33	0.5	11	4	0.5	270	0.5	0.5	0.5
185	SCRS_185_08	0.5	5	0.5	119	2	46	8	0.5	520	0.5	2	0.5
186	SCRS_186_08	0.5	3	0.5	40	0.5	12	2	0.5	60	0.5	0.5	0.5
187	SCRS_187_08	0.5	5	0.5	11	1	2.5	7	0.5	2220	0.5	0.5	0.5
188	SCRS_188_08	0.5	5	0.5	2.5	1	22	11	0.5	1020	0.5	4	0.5
189	SCRS_189_08	0.5	16	0.5	124	3	81	33	0.5	390	0.5	13	0.5
199	SCRS_199_08	0.5	3	0.5	251	0.5	15	4	0.5	70	0.5	1	0.5
200	SCRS_200_08	0.5	2	0.5	39	0.5	22	2	0.5	60	0.5	0.5	0.5
201	SCRS_201_08	0.5	2	0.5	26	0.5	16	4	0.5	90	0.5	0.5	0.5
202	SCRS_202_08	0.5	9	0.5	99	0.5	39	16	0.5	100	0.5	4	0.5
203	SCRS_203_08	0.5	12	0.5	179	1	33	16	0.5	90	0.5	4	0.5
204	SCRS_204_08	0.5	2	0.5	29	3	40	4	0.5	290	0.5	0.5	0.5
205	SCRS_205_08	0.5	4	0.5	2.5	0.5	25	5	0.5	2330	0.5	0.5	0.5
211	SCRS_211_08	0.5	11	0.5	21	0.5	18	23	0.5	350	0.5	6	0.5
212	SCRS_212_08	0.5	0.5	0.5	20	0.5	2.5	2	0.5	430	0.5	0.5	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
213	SCRS_213_08	0.5	5	0.5	21	0.5	2.5	13	0.5	430	0.5	2	0.5
214	SCRS_214_08	0.5	6	0.5	28	0.5	18	9	0.5	360	0.5	2	0.5
215	SCRS_215_08	0.5	3	0.5	54	0.5	6	4	0.5	90	0.5	1	0.5
216	SCRS_216_08	0.5	23	0.5	43	0.5	109	24	0.5	810	0.5	4	0.5
217	SCRS_217_08	0.5	2	0.5	2.5	7	10	2	0.5	1860	0.5	0.5	0.5
218	SCRS_218_08	0.5	0.5	0.5	100	2	18	2	0.5	430	0.5	0.5	0.5
219	SCRS_219_08	0.5	0.5	0.5	100	0.5	20	0.5	0.5	440	0.5	0.5	0.5
220	SCRS_220_08	0.5	63	0.5	132	0.5	52	74	0.5	1240	0.5	12	0.5
221	SCRS_221_08	0.5	1	0.5	28	0.5	12	2	0.5	130	0.5	0.5	0.5
222	SCRS_222_08	0.5	23	0.5	15	1	23	36	0.5	1800	0.5	7	0.5
229	SCRS_229_08	0.5	5	0.5	182	0.5	19	13	0.5	50	0.5	3	0.5
230	SCRS_230_08	0.5	2	0.5	44	0.5	10	2	0.5	60	0.5	0.5	0.5
231	SCRS_231_08	0.5	3	0.5	27	0.5	2.5	3	0.5	290	0.5	0.5	0.5
232	SCRS_232_08	0.5	0.5	0.5	7	0.5	2.5	0.5	0.5	240	0.5	0.5	0.5
233	SCRS_233_08	0.5	3	0.5	38	0.5	5	5	0.5	1290	0.5	1	0.5
234	SCRS_234_08	0.5	8	0.5	8	2	17	11	0.5	1490	0.5	2	0.5
235	SCRS_235_08	0.5	20	0.5	15	1	51	31	0.5	1650	0.5	6	0.5
236	SCRS_236_08	0.5	18	0.5	10	3	52	25	0.5	2210	0.5	6	0.5
237	SCRS_237_08	0.5	18	0.5	7	2	57	24	0.5	1760	0.5	5	0.5
238	SCRS_238_08	0.5	0.5	0.5	2.5	1	7	0.5	0.5	860	0.5	0.5	0.5
239	SCRS_239_08	1	154	0.5	18	7	157	168	0.5	1090	0.5	27	0.5
244	SCRS_244_08	0.5	160	0.5	32	0.5	10	166	0.5	2540	0.5	20	0.5
245	SCRS_245_08	0.5	12	0.5	23	4	12	14	0.5	2710	0.5	3	0.5
246	SCRS_246_08	0.5	22	0.5	165	2	34	26	0.5	50	0.5	5	0.5
247	SCRS_247_08	0.5	2	0.5	119	1	14	3	0.5	310	0.5	0.5	0.5
248	SCRS_248_08	0.5	19	0.5	100	3	108	37	0.5	910	0.5	9	0.5
249	SCRS_249_08	0.5	66	0.5	171	0.5	103	88	0.5	800	0.5	15	0.5
250	SCRS_250_08	0.5	12	0.5	26	1	19	18	0.5	1820	0.5	3	0.5
251	SCRS_251_08	0.5	22	0.5	13	2	39	26	0.5	2420	0.5	4	0.5
252	SCRS_252_08	0.5	11	0.5	10	4	21	15	0.5	1110	0.5	3	0.5
253	SCRS_253_08	0.5	6	0.5	7	2	14	7	0.5	910	0.5	1	0.5
254	SCRS_254_08	0.5	81	0.5	18	1	55	116	0.5	870	0.5	20	0.5
255	SCRS_255_08	1	10	0.5	211	2	20	10	0.5	40	0.5	2	0.5
277	SCRS_277_08	0.5	4	0.5	17	0.5	2.5	5	0.5	1980	0.5	0.5	0.5
278	SCRS_278_08	0.5	1	0.5	21	0.5	2.5	2	0.5	2190	0.5	0.5	0.5
279	SCRS_279_08	0.5	4	0.5	27	0.5	5	7	0.5	480	0.5	1	0.5
280	SCRS_280_08	0.5	4	0.5	9	0.5	2.5	8	0.5	650	0.5	2	0.5
281	SCRS_281_08	0.5	4	0.5	8	4	13	4	0.5	510	0.5	0.5	0.5
282	SCRS_282_08	0.5	4	0.5	10	2	12	11	0.5	2160	0.5	2	0.5
283	SCRS_283_08	0.5	9	0.5	85	2	40	11	0.5	860	0.5	2	0.5
	5552_1_08	0.5	4	0.5	8	0.5	2.5	3	0.5	2850	0.5	0.5	0.5
	5552_2_08	0.5	188	0.5	152	0.5	60	131	0.5	20	0.5	16	0.5
	5552_3_08	0.5	13	0.5	103	0.5	73	23	0.5	70	0.5	8	0.5
	5552_4_08	0.5	51	0.5	79	0.5	115	76	0.5	30	0.5	16	0.5
	5552_5_08	0.5	22	0.5	63	0.5	61	39	0.5	430	0.5	10	0.5
	5552_6_08	0.5	9	0.5	159	0.5	70	14	0.5	400	0.5	4	0.5
	5552_7_08	0.5	3	0.5	42	0.5	57	5	0.5	140	0.5	2	0.5
	5552_8_08	0.5	6	0.5	111	0.5	28	11	0.5	80	0.5	4	0.5
107	SCRS_107_08	0.5	3	0.5	65	0.5	17	3	0.5	460	0.5	0.5	0.5
108	SCRS_108_08	0.5	18	0.5	65	2	32	26	0.5	1050	0.5	6	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
109	SCRS_109_08	0.5	10	0.5	19	1	26	14	0.5	930	0.5	4	0.5
190	SCRS_190_08	0.5	3	0.5	14	0.5	2.5	6	0.5	1030	0.5	1	0.5
191	SCRS_191_08	0.5	2	0.5	48	0.5	14	3	0.5	360	0.5	0.5	0.5
192	SCRS_192_08	0.5	2	0.5	195	0.5	22	4	0.5	130	0.5	2	0.5
193	SCRS_193_08	0.5	1	0.5	19	0.5	2.5	2	0.5	220	0.5	0.5	0.5
194	SCRS_194_08	0.5	2	0.5	56	0.5	24	3	0.5	170	0.5	0.5	0.5
195	SCRS_195_08	0.5	2	0.5	90	0.5	23	3	0.5	10	0.5	0.5	0.5
196	SCRS_196_08	0.5	20	0.5	272	0.5	38	45	0.5	120	0.5	9	0.5
197	SCRS_197_08	0.5	2	0.5	15	0.5	2.5	3	0.5	170	0.5	0.5	0.5
198	SCRS_198_08	0.5	3	0.5	27	0.5	2.5	5	0.5	260	0.5	1	0.5
207	SCRS_207_08	0.5	5	0.5	11	0.5	20	7	0.5	1280	0.5	1	0.5
208	SCRS_208_08	0.5	11	0.5	109	2	41	17	0.5	120	0.5	3	0.5
209	SCRS_209_08	0.5	2	0.5	102	0.5	14	3	0.5	20	0.5	0.5	0.5
210	SCRS_210_08	0.5	17	0.5	143	1	96	40	0.5	180	0.5	11	0.5
223	SCRS_223_08	0.5	2	0.5	6	0.5	2.5	3	0.5	1280	0.5	0.5	0.5
224	SCRS_224_08	0.5	9	0.5	130	2	75	14	0.5	180	0.5	3	0.5
225	SCRS_225_08	0.5	4	0.5	57	0.5	94	5	0.5	250	0.5	2	0.5
226	SCRS_226_08	0.5	3	0.5	39	0.5	101	4	0.5	340	0.5	2	0.5
227	SCRS_227_08	0.5	3	0.5	167	0.5	114	4	0.5	190	0.5	0.5	0.5
228	SCRS_228_08	0.5	7	0.5	80	0.5	118	12	0.5	170	0.5	5	0.5
236	SCRS_236_08	0.5	9	0.5	38	1	33	8	0.5	410	0.5	2	0.5
240	SCRS_240_08	0.5	7	0.5	21	0.5	2.5	7	0.5	2680	0.5	0.5	0.5
241	SCRS_241_08	0.5	3	0.5	2.5	0.5	14	6	0.5	410	0.5	2	0.5
242	SCRS_242_08	0.5	46	0.5	125	5	185	79	0.5	590	0.5	18	0.5
243	SCRS_243_08	0.5	12	0.5	155	1	44	24	0.5	410	0.5	5	0.5
257	SCRS_257_08	0.5	7	0.5	2.5	2	12	12	0.5	670	0.5	3	0.5
258	SCRS_258_08	0.5	14	0.5	98	0.5	21	19	0.5	1480	0.5	3	0.5
259	SCRS_259_08	0.5	12	0.5	26	3	65	18	0.5	560	0.5	5	0.5
260	SCRS_260_08	0.5	5	0.5	36	0.5	33	5	0.5	230	0.5	0.5	0.5
271	SCRS_271_08	0.5	6	0.5	11	0.5	19	9	0.5	460	0.5	2	0.5
272	SCRS_272_08	0.5	8	0.5	20	0.5	13	13	0.5	640	0.5	4	0.5
273	SCRS_273_08	0.5	8	0.5	35	0.5	72	16	0.5	430	0.5	6	0.5
274	SCRS_274_08	0.5	6	0.5	128	0.5	62	10	0.5	550	0.5	3	0.5
275	SCRS_275_08	0.5	2	0.5	42	0.5	37	2	0.5	330	0.5	0.5	0.5
276	SCRS_276_08	0.5	1	0.5	390	0.5	6	0.5	0.5	250	0.5	0.5	0.5
284	SCRS_284_08	0.5	1	0.5	13	0.5	18	1	0.5	260	0.5	0.5	0.5
285	SCRS_285_08	0.5	0.5	0.5	25	0.5	6	3	0.5	3980	0.5	1	0.5
286	SCRS_286_08	0.5	11	0.5	106	0.5	2.5	14	0.5	360	0.5	2	0.5
287	SCRS_287_08	0.5	7	0.5	36	0.5	9	6	0.5	620	0.5	1	0.5
288	SCRS_288_08	0.5	0.5	0.5	9	0.5	2.5	0.5	0.5	640	0.5	0.5	0.5
289	SCRS_289_08	0.5	50	0.5	62	0.5	75	94	0.5	1420	0.5	16	0.5
290	SCRS_290_08	0.5	7	0.5	229	0.5	38	13	0.5	350	0.5	3	0.5
291	SCRS_291_08	0.5	6	0.5	12	0.5	11	9	0.5	370	0.5	1	0.5
292	SCRS_292_08	0.5	34	0.5	14	3	98	36	0.5	740	0.5	7	0.5
293	SCRS_293_08	0.5	2	0.5	29	0.5	2.5	2	0.5	430	0.5	0.5	0.5
294	SCRS_294_08	0.5	10	0.5	6	2	16	11	0.5	1010	0.5	2	0.5
295	SCRS_295_08	0.5	0.5	0.5	17	0.5	2.5	3	0.5	3190	0.5	1	0.5
296	SCRS_296_08	0.5	3	0.5	13	0.5	2.5	5	0.5	4880	0.5	0.5	0.5
297	SCRS_297_08	0.5	12	0.5	10	0.5	13	15	0.5	1720	0.5	2	0.5
298	SCRS_298_08	0.5	46	0.5	37	0.5	65	36	0.5	3370	0.5	5	0.5
299	SCRS_299_08	0.5	9	0.5	17	0.5	8	16	0.5	1900	0.5	3	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	ıe_ppb
300	SCRS_300_08	0.5	16	0.5	15	0.5	35	25	0.5	1070	0.5	6	0.5
301	SCRS_301_08	0.5	10	0.5	49	0.5	107	11	0.5	900	0.5	2	0.5
302	SCRS_302_08	0.5	14	0.5	36	0.5	45	17	0.5	790	0.5	4	0.5
303	SCRS_303_08	0.5	0.5	0.5	47	0.5	8	14	0.5	1730	0.5	4	0.5
304	SCRS_304_08	0.5	5	0.5	18	0.5	2.5	8	0.5	3320	0.5	2	0.5
305	SCRS_305_08	0.5	25	0.5	16	0.5	15	30	0.5	3180	0.5	4	0.5
306	SCRS_306_08	0.5	101	0.5	56	0.5	66	192	0.5	1270	0.5	29	0.5
307	SCRS_307_08	0.5	19	0.5	32	0.5	40	16	0.5	520	0.5	3	0.5
308	SCRS_308_08	0.5	3	0.5	16	4	16	5	0.5	650	0.5	0.5	0.5
309	SCRS_309_08	0.5	4	0.5	17	0.5	18	4	0.5	1260	0.5	0.5	0.5
310	SCRS_310_08	0.5	5	0.5	61	0.5	193	8	0.5	410	0.5	3	0.5
311	SCRS_311_08	0.5	0.5	0.5	44	0.5	29	2	0.5	920	0.5	0.5	0.5
312	SCRS_312_08	0.5	0.5	0.5	76	0.5	2.5	0.5	0.5	410	0.5	0.5	0.5
313	SCRS_313_08	0.5	3	0.5	40	0.5	81	5	0.5	500	0.5	1	0.5
50	SCRS_50_08	0.5	0.5	0.5	17	0.5	2.5	0.5	0.5	2540	0.5	0.5	0.5
67	SCRS_67_08	0.5	3	0.5	94	0.5	77	4	0.5	190	0.5	1	0.5
	SCRS_9211_08	0.5	5	0.5	50	0.5	54	10	0.5	310	0.5	3	0.5
131	SCRS_131_08	0.5	0.5	0.5	9	0.5	2.5	0.5	0.5	1100	0.5	0.5	0.5
132	SCRS_132_08	0.5	0.5	0.5	10	0.5	2.5	0.5	0.5	1260	0.5	0.5	0.5
133	SCRS_133_08	0.5	4	0.5	8	0.5	11	9	0.5	1050	0.5	3	0.5
134	SCRS_134_08	0.5	23	0.5	53	0.5	79	35	0.5	630	0.5	9	0.5
135	SCRS_135_08	0.5	3	0.5	18	0.5	16	7	0.5	240	0.5	1	0.5
136	SCRS_136_08	0.5	25	0.5	32	0.5	52	29	0.5	1160	0.5	6	0.5
137	SCRS_137_08	0.5	3	0.5	13	0.5	2.5	4	0.5	1230	0.5	0.5	0.5
138	SCRS_138_08	0.5	7	0.5	109	0.5	75	11	0.5	70	0.5	4	0.5
139	SCRS_139_08	0.5	6	0.5	73	2	49	6	0.5	250	0.5	1	0.5
140	SCRS_140_08	0.5	9	0.5	32	0.5	31	9	0.5	650	0.5	2	0.5
141	SCRS_141_08	0.5	4	0.5	18	0.5	9	5	0.5	820	0.5	1	0.5
142	SCRS_142_08	0.5	2	0.5	5	0.5	11	3	0.5	360	0.5	0.5	0.5
143	SCRS_143_08	0.5	14	0.5	264	0.5	23	13	0.5	60	0.5	2	0.5
144	SCRS_144_08	0.5	5	0.5	19	1	47	10	0.5	610	0.5	2	0.5
145	SCRS_145_08	0.5	7	0.5	90	3	63	8	0.5	260	0.5	2	0.5
146	SCRS_146_08	0.5	7	0.5	138	0.5	46	11	0.5	10	0.5	4	0.5
147	SCRS_147_08	0.5	0.5	0.5	105	0.5	17	0.5	0.5	120	0.5	0.5	0.5
148	SCRS_148_08	0.5	0.5	0.5	30	0.5	2.5	0.5	0.5	4710	0.5	0.5	0.5
159	SCRS_159_08	0.5	0.5	0.5	8	0.5	2.5	0.5	0.5	1110	0.5	0.5	0.5
160	SCRS_160_08	0.5	0.5	0.5	25	0.5	15	2	0.5	280	0.5	0.5	0.5
161	SCRS_161_08	0.5	13	0.5	22	0.5	59	18	0.5	780	0.5	4	0.5
162	SCRS_162_08	0.5	2	0.5	13	0.5	13	3	0.5	380	0.5	0.5	0.5
163	SCRS_163_08	0.5	3	0.5	7	0.5	7	5	0.5	390	0.5	1	0.5
164	SCRS_164_08	0.5	1	0.5	97	0.5	33	3	0.5	60	0.5	2	0.5
165	SCRS_165_08	0.5	0.5	0.5	2.5	0.5	2.5	1	0.5	3970	0.5	0.5	0.5
166	SCRS_166_08	0.5	17	0.5	159	0.5	31	36	0.5	210	0.5	7	0.5
167	SCRS_167_08	0.5	2	0.5	67	0.5	40	2	0.5	1350	0.5	0.5	0.5
168	SCRS_168_08	0.5	1	0.5	49	6	19	2	0.5	430	0.5	0.5	0.5
169	SCRS_169_08	0.5	2	0.5	12	0.5	28	2	0.5	430	0.5	0.5	0.5
175	SCRS_175_08	0.5	54	0.5	28	0.5	1060	79	0.5	270	0.5	24	0.5
176	SCRS_176_08	0.5	7	0.5	46	0.5	18	15	0.5	370	0.5	3	0.5
177	SCRS_177_08	0.5	1	0.5	14	0.5	2.5	3	0.5	290	0.5	0.5	0.5
178	SCRS_178_08	0.5	1	0.5	118	0.5	18	0.5	0.5	70	0.5	0.5	0.5
179	SCRS_179_08	0.5	21	0.5	241	0.5	50	24	0.5	70	0.5	4	0.5
180	SCRS_180_08	0.5	12	0.5	160	0.5	82	18	0.5	110	0.5	4	0.5

GRID_ID	FIELD_NUMBER	Pd_ppb	Pr_ppb	Pt_ppb	Rb_ppb	Sb_ppb	Sc_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb
181	SCRS_181_08	0.5	3	0.5	50	0.5	30	5	0.5	610	0.5	1	0.5
182	SCRS_182_08	0.5	2	0.5	114	0.5	30	6	0.5	90	0.5	3	0.5
206	SCRS_206_08	0.5	1	0.5	27	0.5	30	1	0.5	990	0.5	0.5	0.5
261	SCRS_261_08	0.5	12	0.5	89	0.5	118	19	0.5	390	0.5	8	0.5
262	SCRS_262_08	0.5	5	0.5	18	0.5	13	9	0.5	510	0.5	2	0.5
263	SCRS_263_08	0.5	5	0.5	39	0.5	30	6	0.5	250	0.5	2	0.5
264	SCRS_264_08	0.5	2	0.5	2.5	0.5	9	2	0.5	3250	0.5	0.5	0.5
265	SCRS_265_08	0.5	1	0.5	2.5	0.5	8	2	0.5	1260	0.5	0.5	0.5
266	SCRS_266_08	0.5	0.5	0.5	5	0.5	2.5	1	0.5	760	0.5	0.5	0.5
267	SCRS_267_08	0.5	0.5	0.5	23	0.5	2.5	2	0.5	610	0.5	0.5	0.5
268	SCRS_268_08	0.5	0.5	0.5	14	0.5	2.5	0.5	0.5	680	0.5	0.5	0.5
269	SCRS_269_08	0.5	119	0.5	66	1	159	134	0.5	1280	0.5	28	0.5
270	SCRS_270_08	0.5	30	0.5	52	0.5	116	45	0.5	1090	0.5	11	0.5
31	SCRS_31_08	0.5	4	0.5	23	0.5	5	5	0.5	1200	0.5	0.5	0.5
32	SCRS_32_08	0.5	80	0.5	25	0.5	22	131	0.5	1320	0.5	29	0.5
33	SCRS_33_08	0.5	0.5	0.5	8	0.5	2.5	0.5	0.5	1230	0.5	0.5	0.5
34	SCRS_34_08	0.5	0.5	0.5	5	0.5	2.5	0.5	0.5	3250	0.5	0.5	0.5
35	SCRS_35_08	0.5	8	0.5	10	0.5	15	9	0.5	3150	0.5	2	0.5
36	SCRS_36_08	0.5	4	0.5	26	2	11	4	0.5	1110	0.5	0.5	0.5
37	SCRS_37_08	0.5	0.5	0.5	5	0.5	2.5	3	0.5	2810	0.5	0.5	0.5
38	SCRS_38_08	0.5	6	0.5	5	1	8	7	0.5	3390	0.5	1	0.5
39	SCRS_39_08	0.5	6	0.5	6	0.5	7	8	0.5	3360	0.5	2	0.5
40	SCRS_40_08	0.5	2	0.5	10	0.5	14	8	0.5	4690	0.5	2	0.5
41	SCRS_41_08	0.5	0.5	0.5	29	0.5	2.5	0.5	0.5	4160	0.5	0.5	0.5
42	SCRS_42_08	0.5	0.5	0.5	6	0.5	2.5	0.5	0.5	2830	0.5	0.5	0.5
80	SCRS_80_08	0.5	14	0.5	21	0.5	50	16	0.5	1150	0.5	3	0.5
81	SCRS_81_08	0.5	2	0.5	11	0.5	7	4	0.5	1440	0.5	1	0.5
82	SCRS_82_08	0.5	11	0.5	7	0.5	17	14	0.5	1320	0.5	3	0.5
83	SCRS_83_08	0.5	15	0.5	26	0.5	43	19	0.5	2320	0.5	4	0.5
84	SCRS_84_08	0.5	125	0.5	123	1	356	161	0.5	260	0.5	37	0.5
85	SCRS_85_08	0.5	19	0.5	193	0.5	40	22	0.5	330	0.5	5	0.5
86	SCRS_86_08	0.5	2	0.5	64	0.5	44	3	0.5	110	0.5	2	0.5
87	SCRS_87_08	0.5	1	0.5	67	0.5	23	2	0.5	120	0.5	1	0.5
88	SCRS_88_08	0.5	3	0.5	2.5	0.5	2.5	3	0.5	1690	0.5	0.5	0.5
89	SCRS_89_08	0.5	3	0.5	100	0.5	25	8	0.5	1080	0.5	3	0.5
90	SCRS_90_08	0.5	0.5	0.5	10	0.5	2.5	0.5	0.5	2300	0.5	0.5	0.5
91	SCRS_91_08	0.5	0.5	0.5	6	0.5	2.5	2	0.5	1840	0.5	0.5	0.5
92	SCRS_92_08	0.5	4	0.5	5	0.5	2.5	4	0.5	2270	0.5	0.5	0.5
93	SCRS_93_08	0.5	0.5	0.5	6	0.5	2.5	2	0.5	1710	0.5	0.5	0.5
94	SCRS_94_08	0.5	6	0.5	8	0.5	18	6	0.5	2260	0.5	1	0.5
95	SCRS_95_08	0.5	1	0.5	2.5	0.5	2.5	2	0.5	1350	0.5	0.5	0.5
96	SCRS_96_08	0.5	5	0.5	6	0.5	21	6	0.5	690	0.5	1	0.5
967	SCRS_967_08	0.5	2	0.5	9	0.5	2.5	2	0.5	3950	0.5	0.5	0.5
968	SCRS_968_08	0.5	3	0.5	14	0.5	5	4	0.5	2710	0.5	0.5	0.5
97	SCRS_97_08	0.5	15	0.5	64	2	151	23	0.5	390	0.5	7	0.5
	SCRS_980_08	0.5	2	0.5	26	0.5	8	5	0.5	1550	0.5	1	0.5

GRID_ID	FIELD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
1	SCRS_1_08	4.3	32	0.25	6	0.5	8	0.5	30	2.5
10	SCRS_10_08	0.25	17	0.25	41	0.5	6	0.5	570	2.5
11	SCRS_11_08	5.5	60	0.6	16	0.5	54	4	100	8
12	SCRS_12_08	16.5	749	0.25	6	0.5	47	4	160	26
13	SCRS_13_08	2.1	33	0.25	0.5	0.5	6	3	410	6
14	SCRS_14_08	81.8	2760	0.25	13	1	115	10	780	130
15	SCRS_15_08	31.6	1100	0.25	8	0.5	102	7	190	108
16	SCRS_16_08	3.5	11	0.25	8	0.5	92	5	550	2.5
17	SCRS_17_08	1	22	0.25	2	0.5	22	2	1830	2.5
18	SCRS_18_08	18.1	1110	0.25	8	0.5	62	5	710	98
19	SCRS_19_08	2.1	11	0.6	8	0.5	73	4	160	2.5
2	SCRS_2_08	29.5	17	0.25	9	0.5	174	13	80	41
20	SCRS_20_08	5.4	5	0.25	9	0.5	260	12	200	13
21	SCRS_21_08	3.9	13	0.25	10	0.5	54	3	60	5
22	SCRS_22_08	4.2	29	0.25	13	0.5	67	4	200	6
23	SCRS_23_08	0.8	21	0.25	4	0.5	35	2	300	2.5
24	SCRS_24_08	22.8	46	0.25	9	0.5	80	5	120	14
25	SCRS_25_08	13.4	41	0.25	9	0.5	100	9	150	10
26	SCRS_26_08	6	37	0.25	12	0.5	69	5	210	9
27	SCRS_27_08	4.2	13	0.25	5	0.5	48	3	470	2.5
28	SCRS_28_08	1.4	36	0.25	8	0.5	16	2	290	13
29	SCRS_29_08	6.8	12	0.25	38	0.5	56	3	100	7
3	SCRS_3_08	27.1	18	0.25	20	1	82	7	40	43
30	SCRS_30_08	16.7	57	0.6	7	0.5	119	11	220	13
4	SCRS_4_08	3.4	27	0.25	15	0.5	39	3	1240	7
43	SCRS_43_08	1.6	9	0.25	7	0.5	16	0.5	70	2.5
44	SCRS_44_08	2.5	14	0.25	26	0.5	139	8	170	8
45	SCRS_45_08	0.7	20	0.25	4	0.5	21	1	1030	2.5
46	SCRS_46_08	0.25	21	0.25	5	0.5	8	0.5	1210	2.5
47	SCRS_47_08	1.3	24	0.25	10	0.5	38	3	3970	5
48	SCRS_48_08	3.9	7	0.25	3	0.5	60	3	120	2.5
49	SCRS_49_08	16.4	16	0.25	11	0.5	182	11	40	33
5	SCRS_5_08	0.8	28	0.25	4	0.5	2.5	0.5	1740	2.5
51	SCRS_51_08	1.3	13	0.25	4	0.5	13	0.5	420	2.5
52	SCRS_52_08	5.7	23	0.25	3	0.5	48	3	470	2.5
53	SCRS_53_08	3.5	10	0.25	7	0.5	30	2	180	11
54	SCRS_54_08	2.5	12	0.25	3	0.5	22	1	170	7
6	SCRS_6_08	8.2	70	0.25	6	0.5	44	5	110	31
7	SCRS_7_08	2.6	7	0.25	5	0.5	45	2	170	9
8	SCRS_8_08	14.7	11	0.25	11	0.5	130	10	10	29
9	SCRS_9_08	0.9	20	0.25	1	0.5	44	4	1130	2.5
100	SCRS_100_08	12.6	818	0.8	5	0.5	22	3	100	94
101	SCRS_101_08	8.7	355	0.6	5	0.5	217	30	160	19
102	SCRS_102_08	31.5	984	0.6	15	0.5	98	9	210	104
103	SCRS_103_08	10.8	741	0.25	25	1	27	5	320	45

GRID_ID	.LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
104	SCRS_104_08	11.7	879	5.1	99	1	21	6	160	60
105	SCRS_105_08	6.4	136	0.25	27	0.5	29	3	180	22
106	SCRS_106_08	26.9	703	0.25	9	0.5	34	3	180	78
114	SCRS_114_08	1.5	21	0.25	5	0.5	11	0.5	180	5
115	SCRS_115_08	57.1	47	0.25	68	0.5	324	23	610	38
116	SCRS_116_08	49.9	459	1	13	0.5	85	11	360	118
117	SCRS_117_08	49.9	630	0.25	5	0.5	42	6	180	56
118	SCRS_118_08	4.8	25	0.25	3	0.5	13	1	270	2.5
119	SCRS_119_08	7.7	303	0.25	8	0.5	74	7	860	20
120	SCRS_120_08	32.6	502	0.25	11	0.5	43	5	150	74
121	SCRS_121_08	10.5	206	0.25	60	0.5	44	4	100	33
122	SCRS_122_08	111	2170	1.1	45	3	1060	67	560	262
123	SCRS_123_08	13.9	438	0.25	35	0.5	108	10	310	37
124	SCRS_124_08	12.7	799	0.6	12	0.5	264	17	680	38
125	SCRS_125_08	23.4	646	0.25	11	0.5	69	12	580	36
126	SCRS_126_08	19.5	509	0.25	14	0.5	56	5	900	40
127	SCRS_127_08	1.2	14	0.25	2	0.5	26	3	1370	2.5
128	SCRS_128_08	19.8	1890	0.25	6	1	13	2	230	64
129	SCRS_129_08	16.8	8	0.25	8	0.5	54	4	100	5
130	SCRS_130_08	31.1	2730	0.9	12	1	140	11	230	106
55	SCRS_55_08	10.9	8	0.25	8	0.5	79	6	60	14
56	SCRS_56_08	12.4	9	0.25	12	0.5	62	5	110	19
57	SCRS_57_08	5.4	8	0.25	16	0.5	74	5	280	9
58	SCRS_58_08	3	1.5	0.25	16	0.5	27	2	10	2.5
59	SCRS_59_08	14.1	12	0.25	6	0.5	70	6	170	12
60	SCRS_60_08	9.3	5	0.25	7	0.5	90	6	190	6
61	SCRS_61_08	83.9	2840	0.25	17	0.5	115	10	280	143
62	SCRS_62_08	11.8	47	0.25	12	0.5	142	12	40	46
63	SCRS_63_08	1.2	4	0.25	6	0.5	22	1	460	2.5
64	SCRS_64_08	4	3	0.25	17	0.5	50	4	120	2.5
65	SCRS_65_08	0.9	1.5	0.25	2	0.5	8	0.5	840	2.5
66	SCRS_66_08	8.7	90	0.25	6	0.5	33	3	410	15
68	SCRS_68_08	2.8	3	0.25	2	0.5	23	1	110	2.5
69	SCRS_69_08	2.2	3	0.25	5	0.5	44	3	460	2.5
70	SCRS_70_08	1.2	1.5	0.25	8	0.5	22	2	4420	2.5
71	SCRS_71_08	5.6	37	0.25	4	0.5	35	3	390	15
72	SCRS_72_08	5.4	1.5	0.25	9	0.5	107	8	520	2.5
73	SCRS_73_08	18	20	0.25	16	0.5	309	23	220	15
74	SCRS_74_08	8.3	18	0.25	20	0.5	81	6	140	8
75	SCRS_75_08	24.6	1.5	0.25	11	0.5	150	11	60	20
76	SCRS_76_08	75.4	654	0.6	18	0.5	96	10	70	71
77	SCRS_77_08	3.3	3	0.25	8	0.5	54	3	50	5
78	SCRS_78_08	2.7	9	0.25	17	0.5	34	3	650	7
79	SCRS_79_08	5.1	9	0.25	6	0.5	87	5	60	7

GRID_ID	LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
	SCRS_9104_08	11.7	1430	4.2	129	2	26	7	70	87
98	SCRS_98_08	11.1	11	0.25	10	0.5	77	5	70	14
99	SCRS_99_08	20.7	1040	0.25	8	0.5	29	5	50	61
	555_1_08	4	1.5	1.1	8	0.5	22	3	30	2.5
	555_2_08	173	735	2.1	45	1	170	13	510	176
	555_3_08	524	160	0.9	77	1	3020	169	180	280
	555_4_08	23.4	435	1	6	0.5	88	8	250	39
	555_5_08	40.7	212	0.7	14	0.5	691	56	160	67
	555_6_08	35.7	811	1.1	19	2	988	74	90	93
	555_7_08	6.8	215	0.25	7	0.5	293	27	260	27
	555_8_08	23.3	1500	0.6	8	0.5	321	33	340	68
	555_91_08	0.9	1.5	0.25	3	2	8	1	90	2.5
110	SCRS_110_08	1.2	13	0.5	7	0.5	21	2	380	2.5
111	SCRS_111_08	5.2	61	0.25	51	0.5	96	7	220	17
112	SCRS_112_08	4	60	0.25	14	0.5	48	4	160	18
113	SCRS_113_08	1.7	11	0.25	1	0.5	16	0.5	50	2.5
149	SCRS_149_08	4	5	0.25	4	0.5	59	4	40	9
150	SCRS_150_08	0.9	13	0.25	7	0.5	14	1	280	2.5
151	SCRS_151_08	31.6	8	0.25	14	0.5	156	11	30	43
152	SCRS_152_08	27.1	204	0.25	28	0.5	240	20	120	62
153	SCRS_153_08	6.9	11	0.25	3	0.5	35	3	130	9
154	SCRS_154_08	17.6	1520	0.25	6	0.5	89	6	130	64
155	SCRS_155_08	2.3	4	0.25	2	0.5	54	3	70	2.5
156	SCRS_156_08	1.4	9	0.25	2	0.5	9	0.5	130	2.5
157	SCRS_157_08	1.1	7	0.25	3	0.5	19	1	80	2.5
158	SCRS_158_08	4.3	53	0.25	11	0.5	39	3	210	9
170	SCRS_170_08	41.7	3990	0.8	5	0.5	246	13	320	81
171	SCRS_171_08	0.9	20	0.25	3	0.5	40	4	670	2.5
172	SCRS_172_08	5.4	56	0.25	3	0.5	54	4	250	13
173	SCRS_173_08	5.7	21	0.25	5	0.5	72	5	80	8
174	SCRS_174_08	11.2	174	0.25	14	0.5	1020	77	140	46
183	SCRS_183_08	2.4	275	0.25	2	0.5	2.5	1	40	16
184	SCRS_184_08	8.1	563	0.25	6	0.5	26	6	120	28
185	SCRS_185_08	40.4	374	0.25	22	0.5	65	7	630	108
186	SCRS_186_08	11.7	2010	0.25	7	0.5	18	2	430	130
187	SCRS_187_08	1.6	9	0.25	11	0.5	21	0.5	70	2.5
188	SCRS_188_08	3.8	62	0.25	35	0.5	253	32	2050	13
189	SCRS_189_08	40.3	412	1	37	0.5	475	25	880	119
199	SCRS_199_08	9.8	1030	0.6	3	0.5	45	4	200	59
200	SCRS_200_08	17.9	1560	0.25	6	1	19	3	330	116
201	SCRS_201_08	8.7	572	0.25	2	0.5	32	7	140	30
202	SCRS_202_08	30.2	1020	0.6	11	0.5	109	9	440	85
203	SCRS_203_08	33.5	957	0.8	22	0.5	129	11	140	127
204	SCRS_204_08	10.7	573	0.5	42	0.5	41	17	630	61
205	SCRS_205_08	3	85	0.25	7	0.5	21	1	170	19
211	SCRS_211_08	11.8	902	0.25	6	0.5	190	17	700	92
212	SCRS_212_08	0.9	4	0.25	3	0.5	23	1	350	2.5

GRID_ID	. _D NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
109	SCRS_109_08	7.2	14	0.25	91	0.5	136	8	290	20
190	SCRS_190_08	5.6	7	0.25	4	0.5	38	2	180	2.5
191	SCRS_191_08	11.3	586	0.25	8	0.5	19	2	100	50
192	SCRS_192_08	12	501	0.25	4	0.5	83	7	760	62
193	SCRS_193_08	1.6	30	0.25	2	0.5	21	2	720	6
194	SCRS_194_08	12.5	711	0.25	4	0.5	23	5	410	28
195	SCRS_195_08	18.6	440	0.5	7	0.5	28	4	270	48
196	SCRS_196_08	68.1	1370	1	15	1	124	8	640	133
197	SCRS_197_08	1.8	29	0.25	2	0.5	24	1	340	2.5
198	SCRS_198_08	1.7	18	0.25	6	0.5	46	2	530	8
207	SCRS_207_08	4.8	44	0.25	15	0.5	61	4	520	11
208	SCRS_208_08	52.7	2000	0.5	15	1	71	7	260	143
209	SCRS_209_08	16.7	369	0.25	6	0.5	14	2	400	38
210	SCRS_210_08	77	2190	0.25	22	1	320	23	950	149
223	SCRS_223_08	1.7	13	0.25	8	0.5	38	2	2050	2.5
224	SCRS_224_08	50.3	2010	0.8	25	1	66	7	3220	151
225	SCRS_225_08	14.8	1280	0.25	8	0.5	97	13	2670	62
226	SCRS_226_08	6.3	139	0.6	11	0.5	108	12	570	13
227	SCRS_227_08	17.4	1690	0.25	11	2	39	5	990	81
228	SCRS_228_08	12	1190	0.25	5	0.5	200	18	2950	38
236	SCRS_236_08	8.3	433	1.6	38	0.5	62	10	1000	47
240	SCRS_240_08	2.3	21	0.25	5	0.5	20	0.5	280	2.5
241	SCRS_241_08	2.4	64	0.25	6	0.5	102	9	4700	8
242	SCRS_242_08	38.3	1530	0.9	91	1	500	42	1020	161
243	SCRS_243_08	36.5	1920	0.6	16	1	87	6	1510	94
257	SCRS_257_08	1.7	32	0.25	20	0.5	154	9	470	7
258	SCRS_258_08	11	125	0.25	14	0.5	79	5	970	40
259	SCRS_259_08	8.1	89	0.25	62	0.5	189	11	240	25
260	SCRS_260_08	15.5	648	0.25	20	0.5	34	5	110	38
271	SCRS_271_08	5.1	34	0.25	11	0.5	101	6	270	17
272	SCRS_272_08	2.6	21	0.25	8	0.5	166	10	690	7
273	SCRS_273_08	12.8	41	0.25	14	0.5	387	32	360	19
274	SCRS_274_08	18.5	433	0.25	5	0.5	103	9	4210	33
275	SCRS_275_08	6.8	85	0.25	6	0.5	26	31	20	19
276	SCRS_276_08	6.8	327	1.5	3	0.5	7	1	10	26
284	SCRS_284_08	4.7	309	0.25	7	0.5	13	1	60	21
285	SCRS_285_08	2.9	1.5	0.25	4	0.5	42	3	90	2.5
286	SCRS_286_08	7.2	30	0.6	4	0.5	57	4	710	12
287	SCRS_287_08	3.4	11	0.6	8	0.5	33	2	40	9
288	SCRS_288_08	0.25	1.5	0.25	2	0.5	7	0.5	610	2.5
289	SCRS_289_08	22.8	10	0.25	8	0.5	448	21	80	18
290	SCRS_290_08	12.5	151	0.7	5	0.5	67	4	210	33
291	SCRS_291_08	6.3	4	0.25	4	0.5	46	3	30	8
292	SCRS_292_08	29.9	173	0.25	24	0.5	241	20	100	77
293	SCRS_293_08	1	13	0.25	4	0.5	14	0.5	230	5
294	SCRS_294_08	9	40	0.25	33	0.5	66	6	130	15
295	SCRS_295_08	1.5	1.5	0.25	2	0.5	43	2	80	7
296	SCRS_296_08	1.7	1.5	0.25	12	0.5	32	1	10	2.5
297	SCRS_297_08	15.2	8	0.25	9	0.5	77	5	130	2.5
298	SCRS_298_08	22.2	30	0.25	9	0.5	205	14	70	41
299	SCRS_299_08	3.1	4	0.25	29	0.5	113	5	100	9

GRID_ID	FIELD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
300	SCRS_300_08	5.3	4	0.25	17	0.5	232	13	240	8
301	SCRS_301_08	4.1	27	0.25	9	0.5	108	8	30	18
302	SCRS_302_08	5.3	19	0.25	13	0.5	148	10	210	16
303	SCRS_303_08	3.4	1.5	1	3	0.5	165	6	280	2.5
304	SCRS_304_08	4	1.5	0.25	8	0.5	57	3	140	2.5
305	SCRS_305_08	9.6	21	0.25	4	0.5	108	6	50	10
306	SCRS_306_08	40.6	8	0.25	16	0.5	709	31	130	18
307	SCRS_307_08	7.4	34	0.25	20	0.5	90	6	30	25
308	SCRS_308_08	3.4	33	0.25	47	0.5	31	2	520	5
309	SCRS_309_08	2.9	43	0.25	9	0.5	30	2	30	7
310	SCRS_310_08	11.9	233	0.6	10	0.5	137	14	10	55
311	SCRS_311_08	2.1	6	0.25	6	0.5	37	3	10	6
312	SCRS_312_08	0.8	7	7.5	12	0.5	9	0.5	230	2.5
313	SCRS_313_08	3.6	153	0.25	6	0.5	68	7	170	12
50	SCRS_50_08	1.1	22	0.25	14	0.5	7	0.5	1120	2.5
67	SCRS_67_08	13.3	565	1	17	0.5	60	8	140	53
	SCRS_9211_08	23.2	377	0.25	14	0.5	73	6	610	27
131	SCRS_131_08	0.25	7	0.25	2	0.5	9	0.5	420	2.5
132	SCRS_132_08	0.25	6	0.25	1	0.5	13	0.5	80	2.5
133	SCRS_133_08	3.3	12	0.25	21	0.5	150	8	150	10
134	SCRS_134_08	12	42	0.25	10	0.5	469	26	200	26
135	SCRS_135_08	4.5	7	0.25	1	0.5	48	2	120	5
136	SCRS_136_08	14.3	26	0.25	12	0.5	267	16	10	30
137	SCRS_137_08	3.9	6	0.25	11	0.5	34	2	50	2.5
138	SCRS_138_08	61.8	2900	0.25	9	1	131	10	190	170
139	SCRS_139_08	31.2	477	0.7	25	0.5	59	5	100	85
140	SCRS_140_08	17	176	0.25	21	0.5	56	5	150	41
141	SCRS_141_08	2.4	16	0.25	8	0.5	56	3	10	7
142	SCRS_142_08	2.9	63	0.25	9	0.5	23	2	140	6
143	SCRS_143_08	14.3	1350	0.25	3	0.5	72	4	180	92
144	SCRS_144_08	10.8	330	0.25	58	0.5	76	6	110	35
145	SCRS_145_08	29	721	0.25	24	0.5	78	8	110	111
146	SCRS_146_08	18.2	325	0.25	23	0.5	168	10	90	59
147	SCRS_147_08	9.7	364	0.25	8	0.5	9	0.5	10	42
148	SCRS_148_08	0.25	4	0.25	2	0.5	9	0.5	150	2.5
159	SCRS_159_08	1.1	7	0.25	3	0.5	8	0.5	110	2.5
160	SCRS_160_08	6.9	305	0.25	2	0.5	51	4	2550	20
161	SCRS_161_08	9.9	18	0.25	10	0.5	222	12	70	45
162	SCRS_162_08	2.6	88	0.25	5	0.5	41	2	620	15
163	SCRS_163_08	1.9	34	0.25	6	0.5	64	4	2010	8
164	SCRS_164_08	15.1	944	0.25	4	0.5	91	7	1130	46
165	SCRS_165_08	0.25	3	0.25	1	0.5	14	0.5	640	2.5
166	SCRS_166_08	41.5	1330	0.25	7	0.5	141	7	930	89
167	SCRS_167_08	18.7	97	0.25	15	0.5	29	3	110	27
168	SCRS_168_08	5.1	894	2.1	72	0.5	23	4	180	46
169	SCRS_169_08	8.2	919	0.25	11	0.5	17	4	100	43
175	SCRS_175_08	24.7	1420	0.25	14	2	1100	104	290	61
176	SCRS_176_08	10.5	37	0.25	10	0.5	100	5	40	13
177	SCRS_177_08	1.8	13	0.25	4	0.5	29	1	180	2.5
178	SCRS_178_08	13.2	1340	0.25	5	0.5	11	1	140	91
179	SCRS_179_08	31.1	4350	0.25	7	0.5	105	7	220	116
180	SCRS_180_08	25.9	1470	0.25	12	0.5	144	9	750	108

GRID_ID	LD_NUMBER	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	W_ppb	_ppb	Yb_ppb	Zn_ppb	Zr_ppb
181	SCRS_181_08	9.7	263	0.25	39	0.5	39	3	50	22
182	SCRS_182_08	19.6	651	0.25	5	0.5	132	8	470	48
206	SCRS_206_08	7.6	131	0.25	15	0.5	20	2	110	33
261	SCRS_261_08	24.7	167	0.25	25	0.5	588	45	1100	43
262	SCRS_262_08	2.6	30	0.25	6	0.5	136	8	3790	9
263	SCRS_263_08	9.5	117	0.25	7	0.5	118	6	990	40
264	SCRS_264_08	1.7	29	0.25	4	0.5	20	1	860	6
265	SCRS_265_08	1	35	0.25	25	0.5	34	2	320	6
266	SCRS_266_08	0.25	11	0.25	2	0.5	23	1	1930	2.5
267	SCRS_267_08	1.4	4	0.25	8	0.5	25	1	2040	2.5
268	SCRS_268_08	0.25	4	0.25	7	0.5	2.5	0.5	790	2.5
269	SCRS_269_08	45.8	412	0.25	52	2	1050	47	1490	116
270	SCRS_270_08	14	50	0.25	117	0.5	499	30	660	64
31	SCRS_31_08	1.9	10	0.25	6	0.5	37	2	90	2.5
32	SCRS_32_08	22.7	83	0.25	18	2	2100	80	130	67
33	SCRS_33_08	0.25	1.5	0.25	2	0.5	13	0.5	100	2.5
34	SCRS_34_08	0.25	1.5	0.25	2	0.5	10	0.5	510	2.5
35	SCRS_35_08	5.5	28	0.25	5	0.5	90	6	30	14
36	SCRS_36_08	16.2	193	0.25	7	0.5	24	2	480	24
37	SCRS_37_08	4.7	1.5	0.25	5	0.5	37	2	70	2.5
38	SCRS_38_08	10.3	20	0.25	10	0.5	71	6	370	2.5
39	SCRS_39_08	13	17	0.25	4	0.5	75	5	140	2.5
40	SCRS_40_08	4.8	1.5	0.25	2	0.5	104	5	260	2.5
41	SCRS_41_08	0.5	1.5	0.25	3	0.5	18	2	280	2.5
42	SCRS_42_08	0.25	1.5	0.25	8	0.5	11	1	1110	2.5
80	SCRS_80_08	19.8	48	0.25	22	0.5	95	8	320	26
81	SCRS_81_08	3	1.5	0.25	7	0.5	52	3	60	2.5
82	SCRS_82_08	14.4	17	0.25	6	0.5	122	9	50	10
83	SCRS_83_08	15.8	61	0.25	97	0.5	166	12	80	17
84	SCRS_84_08	64.1	2330	0.5	13	3	1680	95	350	119
85	SCRS_85_08	12	1310	0.25	5	0.5	207	12	210	41
86	SCRS_86_08	10.9	708	0.25	2	0.5	107	14	670	31
87	SCRS_87_08	5.5	243	0.25	2	0.5	60	7	60	17
88	SCRS_88_08	6.9	13	0.25	7	0.5	26	2	140	2.5
89	SCRS_89_08	10.1	211	0.25	10	0.5	90	5	190	40
90	SCRS_90_08	0.6	10	0.25	1	0.5	13	0.5	880	2.5
91	SCRS_91_08	1.2	6	0.25	3	0.5	46	3	130	2.5
92	SCRS_92_08	2.9	27	0.25	8	0.5	31	2	310	2.5
93	SCRS_93_08	0.7	11	0.25	7	0.5	28	2	2030	2.5
94	SCRS_94_08	4.6	55	0.25	24	0.5	59	4	30	10
95	SCRS_95_08	2.9	14	0.25	4	0.5	23	2	750	2.5
96	SCRS_96_08	3.8	29	0.25	7	0.5	71	5	130	10
967	SCRS_967_08	5.8	18	0.25	17	0.5	21	2	30	2.5
968	SCRS_968_08	2.5	22	0.25	8	0.5	34	2	30	8
97	SCRS_97_08	43.4	680	0.25	31	0.5	344	26	250	117
	SCRS_980_08	2.5	5	0.25	2	0.5	53	3	70	7

SGS

Certificate of Analysis

Work Order: TO102352

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 16, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	42
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 42 Soils

Certified By :

Gavin McGill
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 Canada Inc. | Mineral Services 1885 Leslie Street Toronto ON M3B 2M3 t(416) 445-5755 f(416) 445-4152 www.sgs.com

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
CHYS_545_08	18	186	10	<0.1	1160	<1	690	18	829	334
*Rep CHYS_545_08	17	174	10	<0.1	1110	<1	700	17	958	283
SCRS_1_08	<1	24	10	<0.1	840	<1	730	6	10	146
SCRS_2_08	10	23	10	0.2	1590	<1	670	9	238	176
SCRS_3_08	18	17	30	0.7	3460	<1	690	5	92	136
SCRS_4_08	3	43	<10	0.1	920	<1	650	41	23	84
SCRS_5_08	<1	34	<10	<0.1	320	<1	550	8	<5	55
SCRS_6_08	<1	15	10	<0.1	290	<1	450	7	57	162
SCRS_7_08	30	11	<10	0.6	1240	<1	580	15	<5	31
SCRS_8_08	13	35	<10	<0.1	1740	<1	590	9	229	246
SCRS_9_08	<1	4	70	<0.1	220	<1	690	33	8	85
SCRS_10_08	<1	1	10	<0.1	290	<1	530	3	<5	63
SCRS_11_08	<1	43	<10	0.1	340	<1	660	4	37	88
SCRS_12_08	1	110	10	<0.1	1220	<1	80	6	70	355
*Rep SCRS_12_08	<1	102	10	<0.1	1160	1	80	4	57	286
SCRS_13_08	<1	<1	<10	<0.1	2070	<1	80	10	7	299
SCRS_14_08	8	<1	40	<0.1	2240	1	30	24	177	455
SCRS_15_08	7	<1	10	<0.1	1890	<1	50	8	121	131
SCRS_16_08	<1	25	<10	<0.1	510	<1	730	52	26	24
SCRS_17_08	<1	17	<10	<0.1	910	<1	660	47	8	70
RS_18_08	3	<1	<10	<0.1	2220	<1	100	81	75	104
SCRS_19_08	3	42	<10	<0.1	980	<1	770	19	25	22
SCRS_20_08	11	53	<10	<0.1	1600	<1	730	7	26	13
SCRS_21_08	<1	24	<10	<0.1	590	<1	740	14	5	9
SCRS_22_08	<1	47	<10	<0.1	440	<1	700	16	10	11
SCRS_23_08	<1	49	<10	<0.1	460	<1	680	14	<5	8
SCRS_24_08	9	19	20	0.2	960	<1	750	6	122	136
*Rep SCRS_24_08	9	17	10	0.2	750	<1	750	7	103	110
SCRS_25_08	12	15	<10	0.2	600	<1	730	15	93	379
SCRS_26_08	1	33	10	<0.1	350	<1	570	4	54	173
SCRS_27_08	17	13	<10	0.2	480	<1	650	13	18	65
SCRS_28_08	<1	14	<10	<0.1	190	<1	500	5	15	211
SCRS_29_08	10	35	<10	0.2	900	<1	1090	10	49	173
SCRS_30_08	4	27	10	0.2	1010	<1	710	12	97	151
SCRS_43_08	<1	31	<10	<0.1	470	<1	680	7	5	14
SCRS_44_08	<1	64	<10	<0.1	480	<1	660	29	42	25
SCRS_45_08	2	11	<10	<0.1	300	<1	610	23	<5	10
SCRS_46_08	<1	18	<10	<0.1	250	<1	620	14	<5	8
SCRS_47_08	<1	60	<10	<0.1	390	<1	580	44	11	17
SCRS_48_08	45	12	<10	1.2	720	<1	490	10	<5	21
*Rep SCRS_48_08	44	13	<10	1.3	710	<1	470	12	<5	41
SCRS_49_08	2	26	<10	<0.1	890	<1	600	5	237	75
SCRS_51_08	<1	27	<10	<0.1	280	<1	620	10	6	40

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
SCRS_52_08	10	15	<10	<0.1	190	<1	630	25	25	25
SCRS_53_08	8	64	<10	<0.1	630	<1	580	10	<5	<5
SCRS_54_08	6	41	<10	<0.1	530	<1	600	15	<5	<5
*Std MMISRM16	17	63	20	28.2	90	<1	250	5	27	77
*Std MMISRM16	17	59	20	28.4	90	<1	240	5	27	77
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
CHYS_545_08	<100	260	187	115	38.7	44	191	391	7	92
*Rep CHYS_545_08	<100	230	177	107	39.8	36	195	436	7	90
SCRS_1_08	<100	1540	1	0.7	<0.5	24	2	4	<5	30
SCRS_2_08	<100	2710	27	15.0	8.2	93	38	81	<5	14
SCRS_3_08	<100	4680	14	7.5	3.7	55	19	24	<5	12
SCRS_4_08	<100	1000	5	3.1	1.1	47	6	11	<5	10
SCRS_5_08	<100	220	<1	<0.5	<0.5	19	<1	1	<5	6
SCRS_6_08	<100	1350	6	4.9	1.4	62	7	21	<5	11
SCRS_7_08	<100	910	7	3.2	1.5	10	9	4	<5	7
SCRS_8_08	<100	1260	18	10.3	5.6	56	28	79	<5	11
SCRS_9_08	<100	30	8	5.4	1.0	15	6	3	<5	45
SCRS_10_08	<100	30	<1	0.7	<0.5	11	<1	<1	<5	95
SCRS_11_08	<100	1410	7	4.8	1.6	56	8	13	<5	11
SCRS_12_08	<100	1020	12	5.9	2.8	437	12	41	<5	12
*Rep SCRS_12_08	<100	1190	9	5.0	2.1	441	10	31	<5	13
SCRS_13_08	<100	100	1	1.9	<0.5	109	<1	5	19	99
SCRS_14_08	200	610	31	13.9	7.7	196	34	84	<5	7
SCRS_15_08	<100	1240	21	10.1	5.7	92	24	57	<5	14
SCRS_16_08	<100	140	12	6.7	2.6	20	13	14	5	30
RS_17_08	<100	30	4	2.8	<0.5	10	3	3	<5	25
RS_18_08	<100	310	12	6.6	2.5	88	11	24	<5	13
SCRS_19_08	<100	160	12	5.5	4.6	21	16	14	<5	37
SCRS_20_08	<100	220	43	19.4	13.5	15	57	48	<5	3
SCRS_21_08	<100	70	9	4.7	1.8	13	11	5	<5	10
SCRS_22_08	<100	30	10	5.6	2.1	12	12	12	<5	30
SCRS_23_08	<100	20	5	2.9	0.8	6	5	3	<5	4
SCRS_24_08	<100	3170	15	6.6	5.3	43	23	43	<5	16
*Rep SCRS_24_08	<100	2320	12	5.8	4.6	40	19	36	<5	15
SCRS_25_08	<100	4990	11	8.7	3.6	58	17	36	<5	20
SCRS_26_08	<100	1890	8	5.5	1.8	54	9	18	<5	3
SCRS_27_08	<100	310	7	3.5	1.8	25	10	9	<5	6
SCRS_28_08	<100	940	2	1.7	<0.5	31	2	5	<5	4
SCRS_29_08	<100	2070	8	4.3	2.2	18	11	19	<5	19
SCRS_30_08	<100	2030	18	10.7	5.0	80	22	36	<5	25
SCRS_43_08	<100	110	2	1.2	0.5	15	3	4	<5	9
SCRS_44_08	<100	70	17	11.4	2.8	25	16	13	<5	6
SCRS_45_08	<100	50	3	1.9	<0.5	10	2	1	<5	13
SCRS_46_08	<100	20	1	0.8	<0.5	6	<1	1	<5	17
SCRS_47_08	<100	30	5	3.2	0.6	15	4	4	<5	13
SCRS_48_08	<100	240	10	4.1	2.7	6	16	2	<5	17
*Rep SCRS_48_08	<100	250	10	4.1	2.5	5	15	2	<5	17
SCRS_49_08	<100	1190	24	14.1	7.0	72	35	70	<5	14
SCRS_51_08	<100	80	2	1.1	<0.5	11	2	2	<5	15

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_52_08	<100	270	7	3.5	1.6	17	9	7	<5	24
SCRS_53_08	<100	230	4	2.3	1.3	11	6	9	<5	9
SCRS_54_08	<100	460	3	1.8	0.9	10	4	6	<5	18
*Std MMISRM16	<100	700	4	1.3	1.6	4	7	7	<5	39
*Std MMISRM16	<100	730	4	1.4	1.7	4	7	8	<5	39
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	<5	<0.5	576	3400	630	<1	132	<1	167	<1
*Rep CHYS_545_08	<5	<0.5	615	3130	560	<1	142	<1	162	<1
SCRS_1_08	11	0.9	7	497	60	<1	2	<1	<5	<1
SCRS_2_08	6	1.6	149	184	180	<1	32	<1	10	2
SCRS_3_08	10	1.8	56	417	70	<1	12	<1	<5	4
SCRS_4_08	<5	0.6	18	564	230	<1	4	<1	8	2
SCRS_5_08	6	<0.5	1	43	40	<1	<1	<1	13	1
SCRS_6_08	<5	1.0	32	213	20	<1	8	<1	31	<1
SCRS_7_08	<5	<0.5	13	120	80	<1	2	<1	21	<1
SCRS_8_08	<5	<0.5	125	129	20	<1	29	<1	22	<1
SCRS_9_08	<5	<0.5	7	86	90	<1	1	<1	72	<1
SCRS_10_08	<5	<0.5	1	190	50	<1	<1	<1	15	<1
SCRS_11_08	<5	1.0	22	389	110	<1	5	<1	9	<1
SCRS_12_08	<5	2.3	49	722	30	<1	12	<1	41	<1
*Rep SCRS_12_08	<5	2.8	37	591	30	<1	9	<1	44	<1
SCRS_13_08	<5	<0.5	4	599	<10	<1	1	<1	17	<1
SCRS_14_08	<5	5.5	110	249	890	<1	26	<1	99	1
SCRS_15_08	<5	2.5	86	300	630	<1	19	<1	115	<1
SCRS_16_08	<5	<0.5	26	564	40	<1	5	<1	31	<1
RS_17_08	<5	<0.5	5	39	80	<1	<1	<1	20	<1
RS_18_08	<5	2.6	32	136	420	<1	8	<1	120	<1
SCRS_19_08	<5	<0.5	31	448	50	<1	6	<1	33	<1
SCRS_20_08	<5	<0.5	106	177	70	<1	20	<1	21	<1
SCRS_21_08	<5	<0.5	17	135	<10	<1	3	<1	25	<1
SCRS_22_08	<5	<0.5	26	109	30	<1	5	<1	28	<1
SCRS_23_08	<5	<0.5	9	45	30	<1	2	<1	9	<1
SCRS_24_08	14	1.4	88	580	90	<1	19	<1	11	2
*Rep SCRS_24_08	9	1.1	76	438	60	<1	16	<1	9	1
SCRS_25_08	8	1.1	66	3310	70	<1	14	<1	15	<1
SCRS_26_08	<5	1.3	32	277	50	<1	7	<1	12	1
SCRS_27_08	<5	<0.5	24	203	20	<1	5	<1	26	1
SCRS_28_08	6	1.1	8	228	30	<1	2	<1	7	2
SCRS_29_08	<5	0.7	32	1470	40	<1	7	<1	13	2
SCRS_30_08	7	1.7	66	580	110	<1	14	<1	27	1
SCRS_43_08	<5	<0.5	7	87	20	<1	2	<1	11	<1
SCRS_44_08	<5	<0.5	28	97	160	<1	6	<1	6	<1
SCRS_45_08	<5	<0.5	2	82	20	<1	<1	<1	25	<1
SCRS_46_08	<5	<0.5	2	61	20	<1	<1	<1	20	<1
SCRS_47_08	<5	<0.5	8	47	170	<1	2	<1	5	<1
SCRS_48_08	<5	<0.5	21	130	20	<1	2	<1	28	<1
*Rep SCRS_48_08	<5	<0.5	19	126	20	<1	2	<1	36	<1
SCRS_49_08	<5	0.7	127	54	20	<1	27	<1	38	<1
SCRS_51_08	<5	<0.5	4	57	40	<1	<1	<1	8	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	<5	<0.5	19	219	20	<1	4	<1	25	<1
SCRS_53_08	<5	<0.5	16	76	20	<1	3	<1	27	<1
SCRS_54_08	<5	<0.5	12	118	10	<1	2	<1	26	<1
*Std MMISRM16	55	<0.5	24	288	150	29	4	<1	378	<1
*Std MMISRM16	57	<0.5	24	292	150	31	4	<1	380	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	129	143	<1	3430	<1	32	<10	175	9	4.5
*Rep CHYS_545_08	119	155	<1	3420	<1	31	<10	156	11	4.3
SCRS_1_08	<5	2	<1	4210	<1	<1	<10	4.3	32	<0.5
SCRS_2_08	14	36	<1	3140	<1	6	<10	29.5	17	<0.5
SCRS_3_08	8	16	<1	3740	<1	3	<10	27.1	18	<0.5
SCRS_4_08	5	5	<1	2570	<1	<1	<10	3.4	27	<0.5
SCRS_5_08	<5	<1	<1	1850	<1	<1	<10	0.8	28	<0.5
SCRS_6_08	19	7	<1	1870	<1	1	<10	8.2	70	<0.5
SCRS_7_08	<5	5	<1	1740	<1	1	<10	2.6	7	<0.5
SCRS_8_08	29	26	<1	2800	<1	4	<10	14.7	11	<0.5
SCRS_9_08	<5	3	<1	2460	<1	1	<10	0.9	20	<0.5
SCRS_10_08	8	<1	<1	5360	<1	<1	<10	<0.5	17	<0.5
SCRS_11_08	8	6	<1	3460	<1	1	<10	5.5	60	0.6
SCRS_12_08	29	11	<1	510	<1	2	<10	16.5	749	<0.5
*Rep SCRS_12_08	28	8	<1	510	<1	2	<10	15.7	879	<0.5
SCRS_13_08	13	<1	<1	1130	<1	<1	<10	2.1	33	<0.5
SCRS_14_08	51	30	<1	230	<1	6	<10	81.6	2760	<0.5
SCRS_15_08	27	20	<1	370	<1	4	<10	31.6	1100	<0.5
SCRS_16_08	<5	8	<1	4170	<1	2	<10	3.5	11	<0.5
CRS_17_08	<5	2	<1	4000	<1	<1	<10	1.0	22	<0.5
CRS_18_08	31	8	<1	790	<1	2	<10	18.1	1110	<0.5
SCRS_19_08	9	11	<1	4740	<1	2	<10	2.1	11	0.6
SCRS_20_08	8	37	<1	3230	<1	8	<10	5.4	5	<0.5
SCRS_21_08	<5	7	<1	5130	<1	2	<10	3.9	13	<0.5
SCRS_22_08	5	8	<1	3230	<1	2	<10	4.2	29	<0.5
SCRS_23_08	<5	3	<1	2680	<1	<1	<10	0.8	21	<0.5
SCRS_24_08	8	22	<1	3530	<1	3	<10	22.8	46	<0.5
*Rep SCRS_24_08	6	18	<1	3490	<1	3	<10	16.1	36	<0.5
SCRS_25_08	10	15	<1	4290	<1	2	<10	13.4	41	<0.5
SCRS_26_08	7	7	<1	1790	<1	2	<10	6.0	37	<0.5
SCRS_27_08	<5	7	<1	2920	<1	1	<10	4.2	13	<0.5
SCRS_28_08	<5	2	<1	1740	<1	<1	<10	1.4	36	<0.5
SCRS_29_08	<5	8	<1	6860	<1	2	<10	6.8	12	<0.5
SCRS_30_08	14	18	<1	3850	<1	3	<10	16.7	57	0.6
SCRS_43_08	<5	2	<1	4240	<1	<1	<10	1.6	9	<0.5
SCRS_44_08	6	10	<1	3310	<1	3	<10	2.5	14	<0.5
SCRS_45_08	<5	1	<1	2710	<1	<1	<10	0.7	20	<0.5
SCRS_46_08	<5	<1	<1	2300	<1	<1	<10	<0.5	21	<0.5
SCRS_47_08	<5	2	<1	1660	<1	<1	<10	1.3	24	<0.5
SCRS_48_08	<5	10	<1	1420	<1	2	<10	3.9	7	<0.5
*Rep SCRS_48_08	<5	10	<1	1380	<1	2	<10	4.2	4	<0.5
SCRS_49_08	16	30	<1	4250	<1	5	<10	16.4	16	<0.5
SCRS_51_08	<5	1	<1	3130	<1	<1	<10	1.3	13	<0.5

Final : TO102352 Order:

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	<5	6	<1	1430	<1	1	<10	5.7	23	<0.5
SCRS_53_08	<5	4	<1	1410	<1	<1	<10	3.5	10	<0.5
SCRS_54_08	<5	3	<1	1520	<1	<1	<10	2.5	12	<0.5
*Std MMISRM16	16	7	<1	510	<1	<1	<10	34.1	6	<0.5
*Std MMISRM16	15	7	<1	520	<1	<1	<10	34.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Final : TO102352 Order:

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	71	<1	1160	87	440	216
*Rep CHYS_545_08	69	<1	1080	80	370	227
SCRS_1_08	6	<1	8	<1	30	<5
SCRS_2_08	9	<1	174	13	80	41
SCRS_3_08	20	1	82	7	40	43
SCRS_4_08	15	<1	39	3	1240	7
SCRS_5_08	4	<1	<5	<1	1740	<5
SCRS_6_08	6	<1	44	5	110	31
SCRS_7_08	5	<1	45	2	170	9
SCRS_8_08	11	<1	130	10	<20	29
SCRS_9_08	1	<1	44	4	1130	<5
SCRS_10_08	41	<1	6	<1	570	<5
SCRS_11_08	16	<1	54	4	100	8
SCRS_12_08	6	<1	47	4	160	26
*Rep SCRS_12_08	6	<1	36	4	140	26
SCRS_13_08	<1	<1	6	3	410	6
SCRS_14_08	13	1	115	10	780	130
SCRS_15_08	8	<1	102	7	190	108
SCRS_16_08	8	<1	92	5	550	<5
¬RS_17_08	2	<1	22	2	1830	<5
RS_18_08	8	<1	62	5	710	98
SCRS_19_08	8	<1	73	4	160	<5
SCRS_20_08	9	<1	260	12	200	13
SCRS_21_08	10	<1	54	3	60	5
SCRS_22_08	13	<1	67	4	200	6
SCRS_23_08	4	<1	35	2	300	<5
SCRS_24_08	9	<1	80	5	120	14
*Rep SCRS_24_08	8	<1	71	5	150	10
SCRS_25_08	9	<1	100	9	150	10
SCRS_26_08	12	<1	69	5	210	9
SCRS_27_08	5	<1	48	3	470	<5
SCRS_28_08	8	<1	16	2	290	13
SCRS_29_08	38	<1	56	3	100	7
SCRS_30_08	7	<1	119	11	220	13
SCRS_43_08	7	<1	16	<1	70	<5
SCRS_44_08	26	<1	139	8	170	8
SCRS_45_08	4	<1	21	1	1030	<5
SCRS_46_08	5	<1	8	<1	1210	<5
SCRS_47_08	10	<1	38	3	3970	5
SCRS_48_08	3	<1	60	3	120	<5
*Rep SCRS_48_08	3	<1	57	3	180	<5
SCRS_49_08	11	<1	182	11	40	33
SCRS_51_08	4	<1	13	<1	420	<5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_52_08	3	<1	48	3	470	<5
SCRS_53_08	7	<1	30	2	180	11
SCRS_54_08	3	<1	22	1	170	7
*Std MMISRM16	54	<1	14	<1	250	18
*Std MMISRM16	56	<1	15	1	250	18
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

SGS

Certificate of Analysis

Work Order: TO102354

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 23, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	81
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 81 Soils

Certified By : [signature]
Gavin McGill
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

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
SCRS_31_08	4	67	<10	0.1	340	<1	570	11	20	34
*Rep SCRS_31_08	3	71	<10	0.1	360	<1	560	9	15	22
SCRS_32_08	17	81	<10	0.2	600	<1	390	7	725	16
SCRS_33_08	10	34	<10	0.1	110	<1	390	11	<5	<5
SCRS_34_08	2	18	<10	<0.1	80	<1	340	12	<5	<5
SCRS_35_08	1	35	<10	<0.1	330	<1	590	6	75	78
SCRS_36_08	1	26	<10	0.1	150	<1	320	3	28	188
SCRS_37_08	22	2	<10	0.1	50	<1	650	7	<5	56
SCRS_38_08	<1	14	<10	0.1	140	<1	630	3	37	237
SCRS_39_08	<1	11	10	0.2	130	<1	670	1	48	545
SCRS_40_08	21	10	<10	0.2	160	<1	810	23	5	14
SCRS_41_08	1	8	<10	<0.1	60	<1	490	11	<5	<5
SCRS_42_08	1	40	<10	<0.1	50	<1	390	14	<5	<5
SCRS_80_08	4	57	<10	1.9	370	<1	370	22	176	721
*Rep SCRS_80_08	3	48	<10	1.6	380	<1	350	14	206	695
SCRS_81_08	40	10	<10	0.3	150	<1	510	12	11	72
SCRS_82_08	10	33	<10	0.2	380	<1	540	3	73	229
SCRS_83_08	6	103	<10	0.1	370	<1	520	10	93	163
SCRS_84_08	5	197	30	0.2	2100	<1	110	13	588	197
'RS_85_08	3	186	<10	0.1	970	<1	160	6	128	208
,RS_86_08	<1	248	<10	<0.1	590	<1	20	3	14	181
SCRS_87_08	2	267	<10	<0.1	340	<1	40	5	9	71
SCRS_88_08	4	17	<10	<0.1	190	<1	620	3	19	124
SCRS_89_08	3	122	<10	<0.1	620	<1	290	5	18	67
SCRS_90_08	1	5	<10	<0.1	150	<1	810	9	<5	<5
SCRS_91_08	4	70	<10	<0.1	60	<1	540	18	<5	<5
SCRS_92_08	1	49	<10	<0.1	190	<1	710	4	28	155
*Rep SCRS_92_08	1	51	<10	<0.1	220	<1	680	4	35	201
SCRS_93_08	2	48	<10	0.1	80	<1	680	16	<5	<5
SCRS_94_08	<1	48	<10	0.1	270	<1	640	1	49	422
SCRS_95_08	<1	22	<10	0.1	80	<1	580	5	9	52
SCRS_96_08	2	66	<10	0.2	180	<1	640	9	28	185
SCRS_97_08	16	136	10	0.5	1650	<1	160	10	85	317
SCRS_131_08	3	25	<10	<0.1	80	<1	390	19	<5	<5
SCRS_132_08	7	32	<10	<0.1	70	<1	450	17	<5	<5
SCRS_133_08	5	86	<10	0.1	140	<1	690	17	36	11
SCRS_134_08	15	165	<10	0.2	810	<1	420	12	145	29
SCRS_135_08	106	4	<10	0.2	130	<1	550	5	17	11
SCRS_136_08	10	124	<10	0.4	1160	<1	530	6	167	336
SCRS_137_08	12	27	<10	0.2	310	<1	780	9	26	67
*Rep SCRS_137_08	7	27	<10	0.1	260	<1	700	9	24	67
SCRS_138_08	1	>300	30	<0.1	530	<1	10	6	52	55
SCRS_139_08	3	129	30	0.4	2460	<1	30	2	46	200

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
SCRS_140_08	6	45	10	0.2	1180	<1	540	5	70	326
SCRS_141_08	2	61	<10	<0.1	430	<1	760	8	26	45
SCRS_142_08	<1	28	20	0.3	490	<1	580	5	15	93
SCRS_143_08	1	>300	<10	<0.1	520	<1	20	6	101	40
SCRS_144_08	<1	66	40	0.1	970	<1	180	1	38	193
SCRS_145_08	2	103	60	0.4	2830	<1	20	4	51	183
SCRS_146_08	8	264	<10	0.4	480	<1	<10	11	41	27
SCRS_147_08	1	167	<10	0.2	650	<1	20	1	6	12
SCRS_148_08	9	7	<10	0.4	410	<1	570	3	<5	34
SCRS_159_08	2	46	<10	<0.1	190	<1	770	12	<5	<5
*Rep SCRS_159_08	1	48	<10	<0.1	120	<1	640	13	<5	<5
SCRS_160_08	<1	269	<10	0.1	260	<1	90	8	6	41
SCRS_161_08	23	119	<10	0.3	1020	<1	790	18	107	116
SCRS_162_08	<1	106	<10	<0.1	290	<1	510	12	14	23
SCRS_163_08	<1	57	<10	<0.1	190	<1	620	42	19	73
SCRS_164_08	1	>300	<10	<0.1	380	<1	10	9	8	100
SCRS_165_08	<1	36	<10	<0.1	300	<1	640	12	5	10
SCRS_166_08	3	180	20	<0.1	1360	1	90	4	132	208
SCRS_167_08	4	199	<10	0.1	4880	<1	120	3	17	180
RS_168_08	9	128	10	0.6	1100	<1	20	3	6	26
RS_169_08	2	89	<10	0.1	1630	<1	50	3	16	60
SCRS_175_08	14	158	<10	0.3	580	<1	290	1	413	465
SCRS_176_08	7	41	<10	<0.1	160	<1	710	6	30	20
*Rep SCRS_176_08	6	40	<10	<0.1	130	<1	750	7	20	13
SCRS_177_08	15	22	<10	0.1	200	<1	630	3	6	65
SCRS_178_08	1	>300	<10	<0.1	410	<1	<10	1	12	72
SCRS_179_08	<1	253	40	<0.1	430	1	30	3	165	47
SCRS_180_08	1	282	20	<0.1	910	1	20	9	83	274
SCRS_181_08	<1	60	20	0.1	530	<1	430	3	23	352
SCRS_182_08	1	>300	<10	0.1	600	<1	20	11	16	150
SCRS_206_08	4	76	<10	0.1	2070	<1	210	4	9	156
SCRS_261_08	1	243	<10	<0.1	880	<1	340	137	45	245
SCRS_262_08	<1	90	<10	<0.1	430	<1	660	93	49	19
SCRS_263_08	<1	140	<10	<0.1	250	<1	430	51	28	27
SCRS_264_08	1	43	<10	<0.1	280	<1	580	17	12	64
SCRS_265_08	<1	76	<10	<0.1	210	<1	710	19	7	37
*Rep SCRS_265_08	<1	68	<10	<0.1	190	<1	660	28	6	46
SCRS_266_08	<1	24	<10	<0.1	290	<1	800	19	<5	23
SCRS_267_08	2	23	<10	<0.1	330	<1	740	60	<5	<5
SCRS_268_08	<1	7	<10	<0.1	90	<1	520	14	<5	11
SCRS_269_08	6	144	20	0.2	6980	<1	360	48	962	840
SCRS_270_08	18	130	<10	0.3	4570	<1	500	42	192	337
SCRS_967_08	2	10	20	0.3	210	<1	480	3	19	95

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
SCRS_968_08	4	53	<10	0.1	220	<1	710	5	20	141
SCRS_980_08	33	18	<10	0.4	160	<1	590	7	6	9
*Std MMISRM16	17	43	10	27.1	30	<1	280	3	10	51
*Std MMISRM16	16	47	20	25.8	50	<1	280	3	11	56
*Std MMISRM16	16	49	10	26.0	160	<1	280	3	14	55
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	2	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_31_08	<100	160	5	2.6	1.5	16	7	10	<5	2
*Rep SCRS_31_08	<100	110	4	2.5	1.4	13	7	9	<5	2
SCRS_32_08	<100	740	172	107	35.0	30	208	147	<5	5
SCRS_33_08	<100	100	1	1.2	<0.5	6	1	<1	<5	4
SCRS_34_08	<100	30	1	1.0	<0.5	4	<1	<1	<5	7
SCRS_35_08	<100	360	10	6.0	2.3	79	13	22	<5	4
SCRS_36_08	<100	350	3	1.8	1.2	104	6	11	<5	42
SCRS_37_08	<100	910	4	2.2	0.8	12	5	<1	<5	29
SCRS_38_08	<100	1920	8	5.3	1.9	95	9	14	<5	13
SCRS_39_08	<100	2190	8	4.8	2.1	90	11	15	<5	19
SCRS_40_08	<100	350	12	6.0	2.7	8	15	3	<5	10
SCRS_41_08	<100	10	2	1.7	<0.5	5	1	<1	<5	9
SCRS_42_08	<100	10	1	0.8	<0.5	7	<1	<1	<5	5
SCRS_80_08	<100	2450	16	8.4	4.5	201	20	35	<5	19
*Rep SCRS_80_08	<100	2800	16	9.1	4.8	234	22	40	<5	17
SCRS_81_08	<100	1540	6	3.4	1.3	9	8	3	<5	13
SCRS_82_08	<100	1230	15	8.4	4.1	95	21	28	<5	24
SCRS_83_08	<100	1210	24	12.8	5.3	116	28	44	<5	9
SCRS_84_08	<100	750	203	113	48.0	80	242	333	<5	6
RS_85_08	<100	1430	29	15.9	6.4	45	34	63	<5	18
RS_86_08	<100	1320	15	14.0	1.3	176	6	7	<5	4
SCRS_87_08	<100	830	10	7.5	1.0	114	4	4	<5	4
SCRS_88_08	<100	1030	3	1.8	0.8	58	4	8	<5	45
SCRS_89_08	<100	400	14	7.4	2.7	230	16	9	<5	13
SCRS_90_08	<100	60	1	0.7	<0.5	5	2	<1	<5	39
SCRS_91_08	<100	20	5	3.4	0.6	7	4	1	<5	6
SCRS_92_08	<100	550	3	2.2	0.9	42	5	10	<5	5
*Rep SCRS_92_08	<100	870	4	2.4	1.2	55	6	12	<5	5
SCRS_93_08	<100	10	3	1.8	<0.5	8	3	1	<5	5
SCRS_94_08	<100	1170	7	4.0	1.7	113	9	17	<5	11
SCRS_95_08	<100	660	3	1.6	0.5	55	3	4	<5	43
SCRS_96_08	<100	2020	8	5.2	1.8	57	8	12	<5	40
SCRS_97_08	<100	1820	44	29.3	7.5	265	38	44	<5	13
SCRS_131_08	<100	50	1	0.7	<0.5	5	<1	<1	<5	5
SCRS_132_08	<100	80	2	0.9	<0.5	6	1	<1	<5	4
SCRS_133_08	<100	140	17	10.2	3.0	14	16	11	<5	20
SCRS_134_08	<100	680	55	32.4	10.3	24	59	60	<5	17
SCRS_135_08	<100	500	6	2.5	1.6	7	10	6	<5	42
SCRS_136_08	<100	730	35	18.7	7.4	56	41	74	<5	18
SCRS_137_08	<100	380	4	2.1	1.2	28	5	7	<5	30
*Rep SCRS_137_08	<100	380	4	2.1	1.0	34	5	7	<5	30
SCRS_138_08	100	190	27	14.8	3.3	280	17	18	<5	2
SCRS_139_08	<100	3030	10	6.2	2.4	508	9	20	<5	6

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_140_08	<100	2770	8	4.7	2.5	138	12	25	<5	11
SCRS_141_08	<100	240	6	3.8	1.7	34	8	12	<5	5
SCRS_142_08	<100	2290	3	1.5	0.8	107	3	6	<5	21
SCRS_143_08	<100	110	12	5.0	3.7	64	16	40	<5	2
SCRS_144_08	<100	530	12	6.6	2.8	386	14	14	<5	65
SCRS_145_08	<100	3480	12	9.0	2.9	605	12	22	<5	7
SCRS_146_08	<100	290	25	13.0	3.5	72	17	15	<5	<1
SCRS_147_08	<100	160	1	0.9	<0.5	308	1	3	<5	1
SCRS_148_08	<100	480	1	0.9	<0.5	9	<1	<1	<5	44
SCRS_159_08	<100	30	<1	0.6	<0.5	7	1	1	<5	35
*Rep SCRS_159_08	<100	20	<1	<0.5	<0.5	6	<1	<1	<5	36
SCRS_160_08	<100	80	7	4.7	0.8	140	4	3	<5	13
SCRS_161_08	<100	1210	25	13.8	5.3	52	29	41	<5	20
SCRS_162_08	<100	70	5	2.8	1.0	38	5	6	<5	13
SCRS_163_08	<100	90	8	4.8	1.6	35	9	6	<5	16
SCRS_164_08	<100	210	14	9.3	1.3	203	6	3	<5	2
SCRS_165_08	<100	30	2	0.9	0.6	7	3	1	<5	79
SCRS_166_08	<100	240	28	8.9	10.4	76	54	52	<5	15
SCRS_167_08	<100	1260	5	3.8	1.6	380	3	8	<5	49
`RS_168_08	<100	4070	3	2.9	0.9	449	3	3	6	6
,RS_169_08	<100	420	2	2.2	0.9	482	2	8	8	14
SCRS_175_08	<100	1960	151	102	19.5	79	139	168	<5	166
SCRS_176_08	<100	120	13	6.2	3.7	12	21	14	<5	38
*Rep SCRS_176_08	<100	90	11	4.6	3.0	11	18	10	<5	34
SCRS_177_08	<100	290	3	1.7	1.1	8	5	3	<5	82
SCRS_178_08	<100	500	2	1.2	<0.5	217	2	6	<5	2
SCRS_179_08	<100	160	18	8.0	6.7	188	30	56	<5	3
SCRS_180_08	300	270	23	10.5	6.1	235	26	30	7	6
SCRS_181_08	<100	750	5	3.0	1.4	340	7	8	<5	72
SCRS_182_08	<100	130	22	12.9	2.0	126	12	6	<5	3
SCRS_206_08	<100	1550	3	2.1	0.8	500	2	4	<5	27
SCRS_261_08	<100	810	64	54.3	5.5	112	37	29	<5	34
SCRS_262_08	<100	90	15	9.9	2.5	16	15	13	<5	93
SCRS_263_08	<100	190	12	7.4	1.5	43	10	15	<5	39
SCRS_264_08	<100	500	2	1.0	0.7	66	3	5	<5	15
SCRS_265_08	<100	80	3	2.1	0.6	45	3	3	<5	17
*Rep SCRS_265_08	<100	90	3	2.1	<0.5	61	3	2	<5	17
SCRS_266_08	<100	40	3	1.4	0.5	9	3	2	<5	9
SCRS_267_08	<100	30	3	1.2	0.6	7	3	2	<5	168
SCRS_268_08	<100	50	<1	<0.5	<0.5	3	<1	<1	<5	21
SCRS_269_08	<100	1180	142	66.9	27.4	211	193	352	<5	76
SCRS_270_08	<100	1820	65	36.2	11.9	84	71	76	<5	139
SCRS_967_08	<100	3020	2	1.5	0.7	31	3	5	<5	22

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_968_08	<100	1160	3	2.2	1.0	43	4	10	<5	11
SCRS_980_08	<100	560	6	2.9	1.2	7	8	4	<5	4
*Std MMISRM16	<100	550	2	0.7	0.7	3	3	2	<5	41
*Std MMISRM16	<100	600	2	0.9	0.7	4	4	3	<5	39
*Std MMISRM16	<100	600	2	0.8	0.8	3	4	4	<5	41
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	3	<1	1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	2	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	<5	<0.5	19	84	30	<1	4	<1	23	<1
*Rep SCRS_31_08	<5	<0.5	19	73	30	<1	3	<1	23	<1
SCRS_32_08	<5	<0.5	460	635	150	<1	80	<1	25	<1
SCRS_33_08	<5	<0.5	1	175	<10	<1	<1	<1	8	<1
SCRS_34_08	<5	<0.5	<1	59	<10	<1	<1	<1	5	<1
SCRS_35_08	<5	1.0	40	73	30	<1	8	<1	10	<1
SCRS_36_08	9	0.9	17	196	120	<1	4	<1	26	2
SCRS_37_08	<5	<0.5	4	526	10	<1	<1	<1	5	<1
SCRS_38_08	9	<0.5	27	1220	110	<1	6	<1	5	1
SCRS_39_08	7	<0.5	30	1080	60	<1	6	<1	6	<1
SCRS_40_08	<5	<0.5	19	474	20	<1	2	<1	10	<1
SCRS_41_08	<5	<0.5	<1	69	20	<1	<1	<1	29	<1
SCRS_42_08	<5	<0.5	<1	62	<10	<1	<1	<1	6	<1
SCRS_80_08	<5	<0.5	64	601	50	<1	14	<1	21	<1
*Rep SCRS_80_08	<5	<0.5	69	547	60	<1	15	<1	20	<1
SCRS_81_08	<5	<0.5	12	305	<10	<1	2	<1	11	<1
SCRS_82_08	10	<0.5	53	418	20	<1	11	<1	7	<1
SCRS_83_08	<5	<0.5	69	388	190	<1	15	<1	26	<1
SCRS_84_08	<5	2.7	602	214	220	<1	125	<1	123	1
RS_85_08	<5	0.9	88	153	60	<1	19	<1	193	<1
RS_86_08	<5	0.9	10	65	200	<1	2	<1	64	<1
SCRS_87_08	<5	<0.5	6	81	140	<1	1	<1	67	<1
SCRS_88_08	5	<0.5	12	305	50	<1	3	<1	<5	<1
SCRS_89_08	<5	0.8	18	122	110	<1	3	<1	100	<1
SCRS_90_08	<5	<0.5	3	102	<10	<1	<1	<1	10	<1
SCRS_91_08	<5	<0.5	5	153	<10	<1	<1	<1	6	<1
SCRS_92_08	7	<0.5	16	207	<10	<1	4	<1	5	<1
*Rep SCRS_92_08	7	0.5	21	228	<10	<1	4	<1	<5	<1
SCRS_93_08	<5	<0.5	4	85	<10	<1	<1	<1	6	<1
SCRS_94_08	<5	0.7	29	301	10	<1	6	<1	8	<1
SCRS_95_08	<5	<0.5	6	204	60	<1	1	<1	<5	<1
SCRS_96_08	<5	<0.5	23	313	<10	<1	5	<1	6	<1
SCRS_97_08	<5	1.1	75	474	90	<1	15	<1	64	2
SCRS_131_08	<5	<0.5	1	96	10	<1	<1	<1	9	<1
SCRS_132_08	<5	<0.5	1	167	<10	<1	<1	<1	10	<1
SCRS_133_08	<5	<0.5	26	131	100	<1	4	<1	8	<1
SCRS_134_08	<5	<0.5	119	287	70	<1	23	<1	53	<1
SCRS_135_08	<5	<0.5	23	177	<10	<1	3	<1	18	<1
SCRS_136_08	<5	<0.5	116	256	40	<1	25	<1	32	<1
SCRS_137_08	<5	<0.5	14	397	10	<1	3	<1	13	<1
*Rep SCRS_137_08	<5	<0.5	13	359	20	<1	2	<1	11	<1
SCRS_138_08	<5	7.8	32	91	320	<1	7	<1	109	<1
SCRS_139_08	<5	1.6	26	325	20	<1	6	<1	73	2

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	<5	1.4	41	101	60	<1	9	<1	32	<1
SCRS_141_08	<5	<0.5	22	143	20	<1	4	<1	18	<1
SCRS_142_08	6	0.7	10	307	30	<1	2	<1	5	<1
SCRS_143_08	<5	2.3	60	51	370	<1	14	<1	264	<1
SCRS_144_08	13	1.0	29	234	70	<1	5	<1	19	1
SCRS_145_08	13	2.6	31	542	20	<1	7	<1	90	3
SCRS_146_08	<5	0.9	36	87	220	<1	7	<1	138	<1
SCRS_147_08	<5	1.2	3	96	<10	<1	<1	<1	105	<1
SCRS_148_08	<5	<0.5	<1	534	<10	<1	<1	<1	30	<1
SCRS_159_08	<5	<0.5	3	72	20	<1	<1	<1	8	<1
*Rep SCRS_159_08	<5	<0.5	1	59	20	<1	<1	<1	6	<1
SCRS_160_08	<5	1.2	5	82	330	<1	<1	<1	25	<1
SCRS_161_08	<5	<0.5	65	623	70	<1	13	<1	22	<1
SCRS_162_08	<5	<0.5	12	71	120	<1	2	<1	13	<1
SCRS_163_08	<5	<0.5	14	62	190	<1	3	<1	7	<1
SCRS_164_08	<5	3.0	8	112	270	<1	1	<1	97	<1
SCRS_165_08	<5	<0.5	3	174	40	<1	<1	<1	<5	<1
SCRS_166_08	<5	2.0	88	155	480	<1	17	<1	159	<1
SCRS_167_08	<5	<0.5	9	392	<10	<1	2	<1	67	<1
[illegible]RS_168_08	24	3.1	6	593	10	<1	1	<1	49	6
[illegible]RS_169_08	7	2.3	8	79	<10	<1	2	<1	12	<1
SCRS_175_08	<5	0.8	274	350	70	<1	54	<1	28	<1
SCRS_176_08	<5	<0.5	41	155	<10	<1	7	<1	46	<1
*Rep SCRS_176_08	<5	<0.5	34	141	<10	<1	5	<1	55	<1
SCRS_177_08	<5	<0.5	10	263	<10	<1	1	<1	14	<1
SCRS_178_08	<5	2.5	5	72	10	<1	1	<1	118	<1
SCRS_179_08	<5	7.0	98	65	380	<1	21	<1	241	<1
SCRS_180_08	<5	3.3	59	215	260	<1	12	<1	160	<1
SCRS_181_08	8	1.0	18	204	30	<1	3	<1	50	<1
SCRS_182_08	<5	1.6	13	108	240	<1	2	<1	114	<1
SCRS_206_08	<5	<0.5	5	1620	<10	<1	1	<1	27	<1
SCRS_261_08	<5	<0.5	62	117	4350	<1	12	<1	89	<1
SCRS_262_08	<5	<0.5	27	95	230	<1	5	<1	18	<1
SCRS_263_08	<5	<0.5	22	107	250	<1	5	<1	39	<1
SCRS_264_08	8	<0.5	8	341	30	<1	2	<1	<5	<1
SCRS_265_08	<5	<0.5	6	96	70	<1	1	<1	<5	<1
*Rep SCRS_265_08	<5	<0.5	4	73	80	<1	<1	<1	<5	<1
SCRS_266_08	<5	<0.5	4	84	40	<1	<1	<1	5	<1
SCRS_267_08	<5	<0.5	6	163	20	<1	<1	<1	23	<1
SCRS_268_08	<5	<0.5	<1	116	<10	<1	<1	<1	14	<1
SCRS_269_08	<5	1.4	558	625	150	<1	119	<1	66	1
SCRS_270_08	<5	<0.5	152	822	160	<1	30	<1	52	<1
SCRS_967_08	19	0.9	10	850	60	<1	2	<1	9	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	<5	0.6	16	220	10	<1	3	<1	14	<1
SCRS_980_08	<5	<0.5	13	137	<10	<1	2	<1	26	<1
*Std MMISRM16	38	<0.5	10	190	70	21	2	<1	318	<1
*Std MMISRM16	40	<0.5	11	212	80	20	2	<1	332	<1
*Std MMISRM16	40	<0.5	12	212	80	20	2	<1	325	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	5	5	<1	1200	<1	<1	<10	1.9	10	<0.5
*Rep SCRS_31_08	<5	5	<1	1200	<1	<1	<10	1.9	5	<0.5
SCRS_32_08	22	131	<1	1320	<1	29	<10	22.7	83	<0.5
SCRS_33_08	<5	<1	<1	1230	<1	<1	<10	<0.5	<3	<0.5
SCRS_34_08	<5	<1	<1	3250	<1	<1	<10	<0.5	<3	<0.5
SCRS_35_08	15	9	<1	3150	<1	2	<10	5.5	28	<0.5
SCRS_36_08	11	4	<1	1110	<1	<1	<10	16.2	193	<0.5
SCRS_37_08	<5	3	<1	2810	<1	<1	<10	4.7	<3	<0.5
SCRS_38_08	8	7	<1	3390	<1	1	<10	10.3	20	<0.5
SCRS_39_08	7	8	<1	3360	<1	2	<10	13.0	17	<0.5
SCRS_40_08	14	8	<1	4690	<1	2	<10	4.8	<3	<0.5
SCRS_41_08	<5	<1	<1	4160	<1	<1	<10	0.5	<3	<0.5
SCRS_42_08	<5	<1	<1	2830	<1	<1	<10	<0.5	<3	<0.5
SCRS_80_08	50	16	<1	1150	<1	3	<10	19.8	48	<0.5
*Rep SCRS_80_08	43	16	<1	1000	<1	3	<10	22.2	68	<0.5
SCRS_81_08	7	4	<1	1440	<1	1	<10	3.0	<3	<0.5
SCRS_82_08	17	14	<1	1320	<1	3	<10	14.4	17	<0.5
SCRS_83_08	43	19	<1	2320	<1	4	<10	15.8	61	<0.5
SCRS_84_08	356	161	<1	260	<1	37	<10	64.1	2330	0.5
RS_85_08	40	22	<1	330	<1	5	<10	12.0	1310	<0.5
RS_86_08	44	3	<1	110	<1	2	<10	10.9	708	<0.5
SCRS_87_08	23	2	<1	120	<1	1	<10	5.5	243	<0.5
SCRS_88_08	<5	3	<1	1690	<1	<1	<10	6.9	13	<0.5
SCRS_89_08	25	8	<1	1080	<1	3	<10	10.1	211	<0.5
SCRS_90_08	<5	<1	<1	2300	<1	<1	<10	0.6	10	<0.5
SCRS_91_08	<5	2	<1	1840	<1	<1	<10	1.2	6	<0.5
SCRS_92_08	<5	4	<1	2270	<1	<1	<10	2.9	27	<0.5
*Rep SCRS_92_08	6	4	<1	2230	<1	<1	<10	3.4	34	<0.5
SCRS_93_08	<5	2	<1	1710	<1	<1	<10	0.7	11	<0.5
SCRS_94_08	18	6	<1	2260	<1	1	<10	4.6	55	<0.5
SCRS_95_08	<5	2	<1	1350	<1	<1	<10	2.9	14	<0.5
SCRS_96_08	21	6	<1	690	<1	1	<10	3.8	29	<0.5
SCRS_97_08	151	23	<1	390	<1	7	<10	43.4	680	<0.5
SCRS_131_08	<5	<1	<1	1100	<1	<1	<10	<0.5	7	<0.5
SCRS_132_08	<5	<1	<1	1260	<1	<1	<10	<0.5	6	<0.5
SCRS_133_08	11	9	<1	1050	<1	3	<10	3.3	12	<0.5
SCRS_134_08	79	35	<1	630	<1	9	<10	12.0	42	<0.5
SCRS_135_08	16	7	<1	240	<1	1	<10	4.5	7	<0.5
SCRS_136_08	52	29	<1	1160	<1	6	<10	14.3	26	<0.5
SCRS_137_08	<5	4	<1	1230	<1	<1	<10	3.9	6	<0.5
*Rep SCRS_137_08	<5	3	<1	1160	<1	<1	<10	3.3	5	<0.5
SCRS_138_08	75	11	<1	70	<1	4	<10	61.8	2900	<0.5
SCRS_139_08	49	6	<1	250	<1	1	<10	31.2	477	0.7

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	31	9	<1	650	<1	2	<10	17.0	176	<0.5
SCRS_141_08	9	5	<1	820	<1	1	<10	2.4	16	<0.5
SCRS_142_08	11	3	<1	360	<1	<1	<10	2.9	63	<0.5
SCRS_143_08	23	13	<1	60	<1	2	<10	14.3	1350	<0.5
SCRS_144_08	47	10	<1	610	<1	2	<10	10.8	330	<0.5
SCRS_145_08	63	8	<1	260	<1	2	<10	29.0	721	<0.5
SCRS_146_08	46	11	<1	10	<1	4	<10	18.2	325	<0.5
SCRS_147_08	17	<1	<1	120	<1	<1	<10	9.7	364	<0.5
SCRS_148_08	<5	<1	<1	4710	<1	<1	<10	<0.5	4	<0.5
SCRS_159_08	<5	<1	<1	1110	<1	<1	<10	1.1	7	<0.5
*Rep SCRS_159_08	<5	<1	<1	940	<1	<1	<10	0.6	6	<0.5
SCRS_160_08	15	2	<1	280	<1	<1	<10	6.9	305	<0.5
SCRS_161_08	59	18	<1	780	<1	4	<10	9.9	18	<0.5
SCRS_162_08	13	3	<1	380	<1	<1	<10	2.6	88	<0.5
SCRS_163_08	7	5	<1	390	<1	1	<10	1.9	34	<0.5
SCRS_164_08	33	3	<1	60	<1	2	<10	15.1	944	<0.5
SCRS_165_08	<5	1	<1	3970	<1	<1	<10	<0.5	3	<0.5
SCRS_166_08	31	36	<1	210	<1	7	<10	41.5	1330	<0.5
SCRS_167_08	40	2	<1	1350	<1	<1	<10	18.7	97	<0.5
RS_168_08	19	2	<1	430	<1	<1	<10	5.1	894	2.1
RS_169_08	28	2	<1	430	<1	<1	<10	8.2	919	<0.5
SCRS_175_08	1060	79	<1	270	<1	24	<10	24.7	1420	<0.5
SCRS_176_08	18	15	<1	370	<1	3	<10	10.5	37	<0.5
*Rep SCRS_176_08	<5	12	<1	360	<1	2	<10	9.7	32	<0.5
SCRS_177_08	<5	3	<1	290	<1	<1	<10	1.8	13	<0.5
SCRS_178_08	18	<1	<1	70	<1	<1	<10	13.2	1340	<0.5
SCRS_179_08	50	24	<1	70	<1	4	<10	31.1	4350	<0.5
SCRS_180_08	82	18	<1	110	<1	4	<10	25.9	1470	<0.5
SCRS_181_08	30	5	<1	610	<1	1	<10	9.7	263	<0.5
SCRS_182_08	30	6	<1	90	<1	3	<10	19.6	651	<0.5
SCRS_206_08	30	1	<1	990	<1	<1	<10	7.6	131	<0.5
SCRS_261_08	118	19	<1	390	<1	8	<10	24.7	167	<0.5
SCRS_262_08	13	9	<1	510	<1	2	<10	2.6	30	<0.5
SCRS_263_08	30	6	<1	250	<1	2	<10	9.5	117	<0.5
SCRS_264_08	9	2	<1	3250	<1	<1	<10	1.7	29	<0.5
SCRS_265_08	8	2	<1	1260	<1	<1	<10	1.0	35	<0.5
*Rep SCRS_265_08	9	1	<1	1120	<1	<1	<10	0.9	60	<0.5
SCRS_266_08	<5	1	<1	760	<1	<1	<10	<0.5	11	<0.5
SCRS_267_08	<5	2	<1	610	<1	<1	<10	1.4	4	<0.5
SCRS_268_08	<5	<1	<1	680	<1	<1	<10	<0.5	4	<0.5
SCRS_269_08	159	134	<1	1280	<1	28	<10	45.8	412	<0.5
SCRS_270_08	116	45	<1	1090	<1	11	<10	14.0	50	<0.5
SCRS_967_08	<5	2	<1	3950	<1	<1	<10	5.8	18	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	5	4	<1	2710	<1	<1	<10	2.5	22	<0.5
SCRS_980_08	8	5	<1	1550	<1	1	<10	2.5	5	<0.5
*Std MMISRM16	9	3	<1	520	<1	<1	<10	19.7	<3	<0.5
*Std MMISRM16	10	3	<1	530	<1	<1	<10	22.6	<3	<0.5
*Std MMISRM16	10	3	<1	540	<1	<1	<10	22.2	3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_31_08	6	<1	37	2	90	<5
*Rep SCRS_31_08	6	<1	37	2	70	<5
SCRS_32_08	18	2	2100	80	130	67
SCRS_33_08	2	<1	13	<1	100	<5
SCRS_34_08	2	<1	10	<1	510	<5
SCRS_35_08	5	<1	90	6	30	14
SCRS_36_08	7	<1	24	2	480	24
SCRS_37_08	5	<1	37	2	70	<5
SCRS_38_08	10	<1	71	6	370	<5
SCRS_39_08	4	<1	75	5	140	<5
SCRS_40_08	2	<1	104	5	260	<5
SCRS_41_08	3	<1	18	2	280	<5
SCRS_42_08	8	<1	11	1	1110	<5
SCRS_80_08	22	<1	95	8	320	26
*Rep SCRS_80_08	21	<1	96	9	230	27
SCRS_81_08	7	<1	52	3	60	<5
SCRS_82_08	6	<1	122	9	50	10
SCRS_83_08	97	<1	166	12	80	17
SCRS_84_08	13	3	1680	95	350	119
RS_85_08	5	<1	207	12	210	41
RS_86_08	2	<1	107	14	670	31
SCRS_87_08	2	<1	60	7	60	17
SCRS_88_08	7	<1	26	2	140	<5
SCRS_89_08	10	<1	90	5	190	40
SCRS_90_08	1	<1	13	<1	880	<5
SCRS_91_08	3	<1	46	3	130	<5
SCRS_92_08	8	<1	31	2	310	<5
*Rep SCRS_92_08	9	<1	39	3	330	5
SCRS_93_08	7	<1	28	2	2030	<5
SCRS_94_08	24	<1	59	4	30	10
SCRS_95_08	4	<1	23	2	750	<5
SCRS_96_08	7	<1	71	5	130	10
SCRS_97_08	31	<1	344	26	250	117
SCRS_131_08	2	<1	9	<1	420	<5
SCRS_132_08	1	<1	13	<1	80	<5
SCRS_133_08	21	<1	150	8	150	10
SCRS_134_08	10	<1	469	26	200	26
SCRS_135_08	1	<1	48	2	120	5
SCRS_136_08	12	<1	267	16	<20	30
SCRS_137_08	11	<1	34	2	50	<5
*Rep SCRS_137_08	11	<1	32	2	60	<5
SCRS_138_08	9	1	131	10	190	170
SCRS_139_08	25	<1	59	5	100	85

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_140_08	21	<1	56	5	150	41
SCRS_141_08	8	<1	56	3	<20	7
SCRS_142_08	9	<1	23	2	140	6
SCRS_143_08	3	<1	72	4	180	92
SCRS_144_08	58	<1	76	6	110	35
SCRS_145_08	24	<1	78	8	110	111
SCRS_146_08	23	<1	168	10	90	59
SCRS_147_08	8	<1	9	<1	<20	42
SCRS_148_08	2	<1	9	<1	150	<5
SCRS_159_08	3	<1	8	<1	110	<5
*Rep SCRS_159_08	2	<1	6	<1	130	<5
SCRS_160_08	2	<1	51	4	2550	20
SCRS_161_08	10	<1	222	12	70	45
SCRS_162_08	5	<1	41	2	620	15
SCRS_163_08	6	<1	64	4	2010	8
SCRS_164_08	4	<1	91	7	1130	46
SCRS_165_08	1	<1	14	<1	640	<5
SCRS_166_08	7	<1	141	7	930	89
SCRS_167_08	15	<1	29	3	110	27
`RS_168_08	72	<1	23	4	180	46
ˏRS_169_08	11	<1	17	4	100	43
SCRS_175_08	14	2	1100	104	290	61
SCRS_176_08	10	<1	100	5	40	13
*Rep SCRS_176_08	10	<1	79	3	60	13
SCRS_177_08	4	<1	29	1	180	<5
SCRS_178_08	5	<1	11	1	140	91
SCRS_179_08	7	<1	105	7	220	116
SCRS_180_08	12	<1	144	9	750	108
SCRS_181_08	39	<1	39	3	50	22
SCRS_182_08	5	<1	132	8	470	48
SCRS_206_08	15	<1	20	2	110	33
SCRS_261_08	25	<1	588	45	1100	43
SCRS_262_08	6	<1	136	8	3790	9
SCRS_263_08	7	<1	118	6	990	40
SCRS_264_08	4	<1	20	1	860	6
SCRS_265_08	25	<1	34	2	320	6
*Rep SCRS_265_08	20	<1	26	1	280	5
SCRS_266_08	2	<1	23	1	1930	<5
SCRS_267_08	8	<1	25	1	2040	<5
SCRS_268_08	7	<1	<5	<1	790	<5
SCRS_269_08	52	2	1050	47	1490	116
SCRS_270_08	117	<1	499	30	660	64
SCRS_967_08	17	<1	21	2	30	<5

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Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_968_08	8	<1	34	2	30	8
SCRS_980_08	2	<1	53	3	70	7
*Std MMISRM16	38	<1	8	<1	270	12
*Std MMISRM16	41	<1	11	<1	210	14
*Std MMISRM16	41	<1	11	<1	200	14
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

SGS

Certificate of Analysis

Work Order: TO102355

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 15, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	84
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 84 Soils

Certified By :

Gavin McGill
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

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
555_1_08	16	13	<10	0.2	4280	<1	770	8	<5	220
*Rep 555_1_08	13	15	<10	0.1	4000	<1	710	9	<5	216
555_2_08	8	194	10	<0.1	830	1	60	16	651	139
555_3_08	35	155	40	2.9	1180	19	90	6	2630	26
555_4_08	2	271	<10	0.3	280	<1	<10	5	59	151
555_5_08	5	103	<10	0.5	30	<1	90	7	328	109
555_6_08	24	201	10	0.7	850	<1	30	5	737	22
555_7_08	6	120	<10	0.3	140	<1	190	6	55	6
555_8_08	2	272	<10	<0.1	460	<1	20	4	62	45
555_91_08	12	7	<10	0.1	11400	<1	890	6	<5	142
SCRS_110_08	<1	28	<10	<0.1	270	<1	380	18	21	110
SCRS_111_08	4	74	<10	0.2	930	<1	400	29	53	46
SCRS_112_08	1	72	<10	<0.1	450	<1	270	19	33	147
SCRS_113_08	12	3	<10	0.3	100	<1	390	3	9	71
*Rep SCRS_113_08	12	3	<10	0.3	100	<1	380	4	9	117
SCRS_149_08	26	9	<10	0.7	1690	<1	600	15	7	201
SCRS_150_08	<1	20	<10	<0.1	350	<1	540	21	<5	15
SCRS_151_08	4	16	<10	0.7	2640	<1	640	3	200	140
SCRS_152_08	1	118	20	<0.1	890	<1	310	39	157	378
CRS_153_08	9	37	<10	0.2	1790	<1	490	7	46	186
CRS_154_08	3	239	10	0.1	2260	<1	100	4	96	172
SCRS_155_08	91	12	<10	0.5	520	<1	350	8	16	66
SCRS_156_08	<1	21	<10	<0.1	180	<1	450	5	<5	39
SCRS_157_08	11	40	<10	0.1	490	<1	560	10	<5	43
SCRS_158_08	1	38	<10	0.2	750	<1	480	9	44	99
SCRS_170_08	2	126	60	3.8	2210	3	70	3	232	81
SCRS_171_08	<1	6	<10	<0.1	500	<1	510	26	<5	23
*Rep SCRS_171_08	<1	7	<10	<0.1	420	<1	510	20	<5	17
SCRS_172_08	<1	18	<10	<0.1	740	<1	550	35	19	21
SCRS_173_08	12	21	<10	0.7	570	<1	470	6	51	297
SCRS_174_08	4	76	<10	0.4	1450	<1	300	6	248	672
SCRS_183_08	<1	274	<10	<0.1	650	<1	40	2	<5	30
SCRS_184_08	<1	200	<10	<0.1	1130	<1	20	2	23	126
SCRS_185_08	9	136	10	0.2	3360	<1	60	37	40	460
SCRS_186_08	<1	239	<10	<0.1	340	<1	<10	8	24	19
SCRS_187_08	3	22	<10	<0.1	3200	<1	600	12	35	43
SCRS_188_08	<1	91	<10	<0.1	1940	<1	130	190	23	493
SCRS_189_08	12	236	20	0.4	4100	<1	30	62	105	202
SCRS_199_08	2	>300	10	<0.1	560	<1	<10	8	22	42
SCRS_200_08	<1	239	<10	<0.1	560	2	<10	14	21	83
*Rep SCRS_200_08	<1	259	<10	<0.1	440	1	<10	11	21	69
SCRS_201_08	<1	167	<10	<0.1	460	<1	<10	5	15	96
SCRS_202_08	<1	241	10	<0.1	1310	<1	<10	13	68	240

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
SCRS_203_08	4	274	20	0.1	1530	<1	<10	15	89	88
SCRS_204_08	3	196	10	<0.1	3110	<1	10	80	15	101
SCRS_205_08	<1	47	<10	<0.1	3630	<1	340	16	30	124
SCRS_211_08	<1	201	<10	<0.1	2600	<1	40	20	68	55
SCRS_212_08	1	43	<10	<0.1	300	<1	450	13	7	<5
SCRS_213_08	21	24	<10	0.3	480	<1	510	20	16	19
SCRS_214_08	4	67	<10	0.3	870	<1	360	68	29	94
SCRS_215_08	<1	196	<10	<0.1	360	<1	<10	2	19	57
SCRS_216_08	1	112	<10	<0.1	1500	<1	210	339	128	124
SCRS_217_08	<1	14	10	0.1	1090	<1	410	123	13	199
*Rep SCRS_217_08	<1	10	20	<0.1	1120	<1	410	83	12	149
SCRS_218_08	20	232	<10	<0.1	4140	<1	20	16	<5	110
SCRS_219_08	<1	>300	<10	<0.1	2740	<1	30	2	<5	28
SCRS_220_08	4	176	10	<0.1	5940	<1	220	20	503	170
SCRS_221_08	2	297	<10	<0.1	760	<1	<10	17	13	98
SCRS_222_08	26	50	<10	0.1	3280	<1	600	53	129	33
SCRS_229_08	2	266	20	<0.1	500	<1	10	11	40	99
SCRS_230_08	<1	183	<10	<0.1	300	1	<10	5	13	41
SCRS_231_08	<1	172	<10	<0.1	540	<1	50	2	25	72
SCRS_232_08	<1	265	<10	<0.1	610	<1	10	2	<5	21
SCRS_233_08	1	>300	<10	<0.1	1960	<1	120	14	21	111
SCRS_234_08	<1	22	30	0.3	920	<1	380	36	55	230
SCRS_235_08	5	58	<10	0.6	1450	<1	430	26	127	307
*Rep SCRS_235_08	2	57	<10	0.5	1240	<1	390	26	63	281
SCRS_236_08	26	43	<10	0.4	1650	<1	680	65	131	129
SCRS_237_08	9	45	<10	0.3	2250	<1	480	56	127	171
SCRS_238_08	<1	59	<10	<0.1	1490	<1	260	25	<5	60
SCRS_239_08	3	23	100	0.4	9570	<1	200	18	1130	264
SCRS_244_08	19	72	<10	<0.1	6830	<1	590	30	2650	77
SCRS_245_08	<1	75	<10	0.1	2860	<1	220	7	72	123
SCRS_246_08	5	203	10	0.2	1140	<1	10	26	155	49
SCRS_247_08	7	208	10	<0.1	1560	<1	40	5	24	346
SCRS_248_08	11	111	20	1.0	4180	1	230	16	127	420
SCRS_249_08	2	105	<10	0.2	2670	<1	260	9	373	274
SCRS_250_08	4	41	<10	0.1	1670	<1	520	27	74	56
SCRS_251_08	3	30	10	0.3	800	<1	570	10	161	314
*Rep SCRS_251_08	6	35	<10	0.4	810	<1	570	14	108	229
SCRS_252_08	12	44	<10	0.4	1960	<1	520	79	79	87
SCRS_253_08	2	44	20	0.3	1060	<1	530	36	39	107
SCRS_254_08	25	35	<10	0.3	5250	<1	410	592	543	218
SCRS_255_08	1	156	30	0.1	1500	<1	<10	1	90	98
SCRS_277_08	<1	79	<10	<0.1	440	<1	380	33	20	11
SCRS_278_08	3	45	<10	<0.1	510	<1	490	34	5	<5

Final : TO102355 Order

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
SCRS_279_08	1	49	<10	<0.1	1170	<1	410	29	11	8
SCRS_280_08	2	39	<10	<0.1	1230	<1	520	38	19	6
SCRS_281_08	<1	34	30	0.1	890	<1	410	11	28	136
SCRS_282_08	90	17	<10	0.5	3050	<1	770	72	43	186
SCRS_283_08	<1	88	30	0.3	4420	<1	100	6	74	265
*Std MMISRM16	19	50	20	31.5	70	<1	200	4	23	68
*Std MMISRM16	20	51	20	30.8	70	<1	200	4	24	66
*Std MMISRM16	21	52	20	34.9	70	<1	200	5	22	67
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
555_1_08	<100	2840	3	2.8	<0.5	18	2	<1	<5	6
*Rep 555_1_08	<100	2930	3	2.6	<0.5	19	3	<1	<5	6
555_2_08	<100	290	41	17.0	14.4	83	64	354	<5	7
555_3_08	<100	1010	597	237	324	23	1480	11600	<5	19
555_4_08	<100	460	19	10.9	3.2	23	14	26	<5	<1
555_5_08	<100	1430	119	63.1	46.1	21	219	366	<5	18
555_6_08	<100	1720	185	88.9	53.6	23	257	412	<5	<1
555_7_08	100	680	49	31.5	9.5	9	53	36	<5	6
555_8_08	<100	1530	59	40.2	6.9	34	35	24	<5	3
555_91_08	<100	890	1	1.1	<0.5	9	<1	<1	6	9
SCRS_110_08	<100	320	3	1.9	0.7	28	3	8	<5	6
SCRS_111_08	<100	2190	13	7.9	2.4	125	12	22	<5	6
SCRS_112_08	<100	1240	7	4.2	1.3	194	6	11	<5	4
SCRS_113_08	<100	530	2	1.0	<0.5	11	3	2	<5	14
*Rep SCRS_113_08	<100	540	3	1.2	<0.5	11	3	2	<5	14
SCRS_149_08	<100	970	9	5.2	1.7	13	11	<1	<5	20
SCRS_150_08	<100	30	2	1.3	<0.5	8	2	<1	<5	36
SCRS_151_08	<100	3270	25	12.0	8.0	46	40	68	<5	23
SCRS_152_08	<100	1240	42	22.6	8.7	164	46	56	<5	159
CRS_153_08	<100	690	7	3.3	1.6	27	9	10	<5	33
RS_154_08	<100	570	18	9.0	4.1	89	18	37	<5	7
SCRS_155_08	<100	390	9	4.0	1.9	5	13	5	<5	37
SCRS_156_08	<100	40	1	0.8	<0.5	11	2	1	<5	46
SCRS_157_08	<100	790	3	1.5	0.6	12	3	1	<5	25
SCRS_158_08	<100	1120	6	3.2	1.5	73	8	16	<5	17
SCRS_170_08	200	4430	45	20.9	10.2	173	57	139	<5	9
SCRS_171_08	<100	40	5	5.0	0.6	12	3	1	<5	12
*Rep SCRS_171_08	<100	30	5	4.0	0.5	10	3	2	<5	10
SCRS_172_08	<100	40	9	5.4	1.6	16	10	7	<5	25
SCRS_173_08	<100	7000	11	5.8	2.9	64	14	19	<5	55
SCRS_174_08	<100	3160	174	99.0	32.7	25	168	210	<5	119
SCRS_183_08	<100	<10	<1	<0.5	<0.5	114	<1	<1	<5	7
SCRS_184_08	<100	50	5	6.0	0.9	189	4	12	7	4
SCRS_185_08	<100	960	12	8.6	2.0	369	9	17	<5	18
SCRS_186_08	<100	70	4	2.6	0.7	149	3	13	<5	1
SCRS_187_08	<100	140	4	1.4	2.1	15	8	15	<5	28
SCRS_188_08	<100	380	30	31.4	3.8	120	20	8	<5	47
SCRS_189_08	<100	2130	88	41.0	10.3	180	56	38	<5	7
SCRS_199_08	<100	110	9	4.9	1.5	89	6	8	<5	1
SCRS_200_08	<100	100	4	3.2	0.6	128	3	11	<5	1
*Rep SCRS_200_08	<100	100	3	3.2	0.6	121	2	12	<5	1
SCRS_201_08	<100	30	7	5.8	1.1	140	6	7	<5	3
SCRS_202_08	<100	180	26	12.3	4.8	150	25	25	<5	3

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_203_08	<100	390	27	15.0	4.7	159	21	39	<5	1
SCRS_204_08	<100	210	7	10.3	1.1	204	6	8	<5	5
SCRS_205_08	<100	1170	4	1.7	1.5	191	5	12	<5	82
SCRS_211_08	<100	60	35	20.5	6.8	121	38	26	<5	8
SCRS_212_08	<100	20	3	1.8	0.7	5	4	2	<5	35
SCRS_213_08	<100	570	11	4.7	3.4	13	19	11	<5	91
SCRS_214_08	<100	800	13	7.1	2.6	29	13	14	<5	53
SCRS_215_08	<100	60	7	4.9	1.0	170	6	8	<5	3
SCRS_216_08	<100	700	25	13.2	7.7	93	28	72	<5	12
SCRS_217_08	<100	1580	2	1.2	0.8	45	3	5	<5	96
*Rep SCRS_217_08	<100	1320	1	0.8	0.6	45	3	5	<5	93
SCRS_218_08	<100	830	8	15.0	<0.5	246	3	2	<5	5
SCRS_219_08	<100	40	<1	1.6	<0.5	100	<1	<1	<5	5
SCRS_220_08	<100	290	60	23.6	20.1	70	87	207	<5	49
SCRS_221_08	<100	80	4	3.1	<0.5	125	2	6	7	6
SCRS_222_08	<100	850	35	16.1	11.0	56	48	64	<5	87
SCRS_229_08	<100	210	15	6.3	3.7	174	19	13	<5	3
SCRS_230_08	<100	60	3	2.0	0.5	171	3	7	<5	3
SCRS_231_08	<100	180	3	1.9	0.7	206	3	10	<5	6
CRS_232_08	<100	20	<1	0.6	<0.5	120	<1	<1	<5	2
CRS_233_08	<100	120	9	4.9	1.5	70	7	7	<5	24
SCRS_234_08	<100	3120	10	5.6	2.8	103	13	20	<5	61
SCRS_235_08	<100	2000	31	14.5	8.1	118	39	47	12	47
*Rep SCRS_235_08	<100	2340	19	9.1	4.2	162	22	23	11	42
SCRS_236_08	<100	3650	37	20.5	6.4	75	36	44	<5	32
SCRS_237_08	<100	2760	27	14.2	6.1	230	31	47	<5	31
SCRS_238_08	<100	1450	1	0.9	<0.5	149	<1	2	<5	67
SCRS_239_08	<100	5600	142	77.0	40.4	393	192	451	<5	78
SCRS_244_08	<100	520	77	24.2	50.7	27	176	496	<5	23
SCRS_245_08	<100	1200	18	9.6	4.6	205	17	39	<5	29
SCRS_246_08	<100	290	25	11.2	7.5	34	31	62	<5	<1
SCRS_247_08	<100	560	5	3.7	0.7	287	3	8	<5	22
SCRS_248_08	300	1920	47	18.9	11.3	145	54	50	<5	33
SCRS_249_08	<100	570	72	28.7	25.2	110	109	191	<5	10
SCRS_250_08	<100	1100	15	6.4	5.1	58	23	34	5	32
SCRS_251_08	<100	2350	21	11.4	5.6	118	29	59	<5	20
*Rep SCRS_251_08	<100	2650	15	7.8	3.9	100	21	38	<5	20
SCRS_252_08	<100	3470	15	7.6	3.6	81	20	32	<5	66
SCRS_253_08	<100	4430	6	3.7	1.7	93	8	17	<5	24
SCRS_254_08	100	4010	106	52.6	27.7	40	148	207	<5	198
SCRS_255_08	<100	1080	11	5.7	2.4	375	11	41	<5	2
SCRS_277_08	<100	30	7	4.0	1.1	12	6	11	<5	4
SCRS_278_08	<100	30	2	1.2	0.7	6	3	3	<5	4

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_279_08	<100	20	8	3.8	1.8	11	10	9	<5	137
SCRS_280_08	<100	70	9	4.9	2.0	13	12	8	<5	55
SCRS_281_08	<100	1390	4	2.6	1.0	132	5	10	<5	37
SCRS_282_08	<100	2650	10	4.7	3.1	22	15	5	7	62
SCRS_283_08	<100	1380	13	7.9	2.2	449	13	32	<5	46
*Std MMISRM16	<100	690	3	1.0	1.3	3	6	6	<5	40
*Std MMISRM16	<100	690	3	0.9	1.2	3	5	6	<5	41
*Std MMISRM16	<100	700	3	1.2	1.3	3	6	5	<5	40
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	100	<10	<1	<0.5	<0.5	2	<1	<1	<5	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	8	<0.5	<1	1060	20	<1	<1	<1	8	1
*Rep 555_1_08	8	<0.5	<1	1130	20	<1	<1	<1	11	1
555_2_08	5	3.5	301	174	730	2	80	<1	178	4
555_3_08	<5	0.7	9090	114	370	2	2480	<1	109	<1
555_4_08	<5	1.0	44	207	60	<1	9	<1	91	<1
555_5_08	<5	0.7	820	553	50	1	160	<1	159	<1
555_6_08	<5	1.4	827	52	140	<1	167	<1	144	1
555_7_08	<5	1.2	115	103	40	<1	20	<1	72	<1
555_8_08	<5	2.9	62	96	140	<1	12	<1	129	1
555_91_08	6	<0.5	<1	228	<10	<1	<1	<1	<5	1
SCRS_110_08	<5	<0.5	11	249	30	<1	2	<1	8	<1
SCRS_111_08	<5	0.7	37	460	370	<1	8	<1	15	2
SCRS_112_08	<5	<0.5	19	405	50	<1	4	<1	20	1
SCRS_113_08	<5	<0.5	4	792	<10	<1	<1	<1	11	<1
*Rep SCRS_113_08	<5	<0.5	5	837	<10	<1	<1	<1	10	<1
SCRS_149_08	<5	<0.5	8	241	20	<1	<1	<1	7	<1
SCRS_150_08	<5	<0.5	3	56	50	<1	<1	<1	11	<1
SCRS_151_08	<5	0.5	142	254	10	<1	28	<1	7	3
SCRS_152_08	<5	0.9	107	356	80	<1	22	<1	91	<1
SCRS_153_08	<5	<0.5	22	119	<10	<1	4	<1	15	<1
SCRS_154_08	<5	2.2	50	83	110	<1	11	<1	103	<1
SCRS_155_08	<5	<0.5	23	405	<10	<1	3	<1	16	<1
SCRS_156_08	<5	<0.5	3	48	50	<1	<1	<1	<5	<1
SCRS_157_08	<5	<0.5	6	192	<10	<1	<1	<1	10	<1
SCRS_158_08	<5	0.6	28	352	90	<1	6	<1	8	2
SCRS_170_08	5	17.2	186	107	220	<1	40	<1	54	3
SCRS_171_08	<5	<0.5	4	53	50	<1	<1	<1	51	<1
*Rep SCRS_171_08	<5	<0.5	4	57	40	<1	<1	<1	57	<1
SCRS_172_08	<5	<0.5	18	134	50	<1	3	<1	18	<1
SCRS_173_08	7	0.6	39	464	10	<1	8	<1	13	<1
SCRS_174_08	<5	<0.5	407	247	20	<1	79	<1	24	<1
SCRS_183_08	<5	1.1	<1	46	<10	<1	<1	<1	8	<1
SCRS_184_08	<5	2.4	12	76	30	<1	3	<1	33	<1
SCRS_185_08	<5	1.8	26	422	60	<1	5	<1	119	2
SCRS_186_08	<5	7.3	10	27	160	<1	3	<1	40	<1
SCRS_187_08	6	<0.5	27	795	30	<1	5	<1	11	1
SCRS_188_08	6	<0.5	27	175	60	<1	5	<1	<5	1
SCRS_189_08	8	2.0	85	449	300	<1	16	<1	124	3
SCRS_199_08	<5	2.4	16	58	470	<1	3	<1	251	<1
SCRS_200_08	<5	7.2	9	67	200	<1	2	<1	39	<1
*Rep SCRS_200_08	<5	6.8	8	51	200	<1	2	<1	53	<1
SCRS_201_08	<5	1.3	11	53	30	<1	2	<1	26	<1
SCRS_202_08	<5	3.7	45	84	190	<1	9	<1	99	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	<5	3.8	57	174	130	<1	12	<1	179	1
SCRS_204_08	7	3.5	12	173	50	<1	2	<1	29	3
SCRS_205_08	13	1.0	21	1090	20	<1	4	<1	<5	<1
SCRS_211_08	<5	3.6	55	110	130	<1	11	<1	21	<1
SCRS_212_08	<5	<0.5	5	128	<10	<1	<1	<1	20	<1
SCRS_213_08	<5	<0.5	32	237	40	<1	5	<1	21	<1
SCRS_214_08	<5	<0.5	30	184	70	<1	6	<1	28	<1
SCRS_215_08	<5	2.1	12	45	50	<1	3	<1	54	<1
SCRS_216_08	<5	<0.5	103	495	20	<1	23	<1	43	<1
SCRS_217_08	36	<0.5	10	1420	20	<1	2	<1	<5	7
*Rep SCRS_217_08	31	<0.5	9	1170	20	<1	2	<1	<5	6
SCRS_218_08	<5	<0.5	4	419	30	<1	<1	<1	100	2
SCRS_219_08	<5	<0.5	<1	62	<10	<1	<1	<1	100	<1
SCRS_220_08	<5	1.2	292	425	130	<1	63	<1	132	<1
SCRS_221_08	<5	2.0	6	125	50	<1	1	<1	28	<1
SCRS_222_08	<5	<0.5	117	595	150	<1	23	<1	15	1
SCRS_229_08	<5	3.0	28	152	170	<1	5	<1	182	<1
SCRS_230_08	<5	3.0	6	36	110	<1	2	<1	44	<1
SCRS_231_08	<5	1.4	13	65	<10	<1	3	<1	27	<1
SCRS_232_08	<5	<0.5	<1	29	<10	<1	<1	<1	7	<1
SCRS_233_08	<5	2.3	16	131	280	<1	3	<1	38	<1
SCRS_234_08	79	0.9	41	2190	20	<1	8	<1	8	2
SCRS_235_08	<5	0.6	102	568	130	<1	20	<1	15	1
*Rep SCRS_235_08	<5	0.7	51	506	120	<1	11	<1	12	1
SCRS_236_08	<5	0.6	86	1420	580	<1	18	<1	10	3
SCRS_237_08	<5	0.6	85	784	180	<1	18	<1	7	2
SCRS_238_08	15	<0.5	2	287	20	<1	<1	<1	<5	1
SCRS_239_08	8	2.1	717	617	70	1	154	<1	18	7
SCRS_244_08	<5	0.8	753	687	70	<1	160	<1	32	<1
SCRS_245_08	31	1.5	55	750	20	<1	12	<1	23	4
SCRS_246_08	<5	1.2	103	49	150	<1	22	<1	165	2
SCRS_247_08	<5	3.7	10	200	30	<1	2	<1	119	1
SCRS_248_08	11	0.6	96	512	240	<1	19	<1	100	3
SCRS_249_08	<5	0.8	310	229	70	<1	66	<1	171	<1
SCRS_250_08	<5	<0.5	63	1000	180	<1	12	<1	26	1
SCRS_251_08	6	0.7	105	464	50	<1	22	<1	13	2
*Rep SCRS_251_08	6	1.0	75	450	50	<1	15	<1	10	2
SCRS_252_08	12	0.6	56	1100	160	<1	11	<1	10	4
SCRS_253_08	10	1.0	27	732	150	<1	6	<1	7	2
SCRS_254_08	10	<0.5	411	2730	180	<1	81	<1	18	1
SCRS_255_08	<5	3.1	39	119	20	1	10	<1	211	2
SCRS_277_08	<5	<0.5	18	47	40	<1	4	<1	17	<1
SCRS_278_08	<5	<0.5	7	61	10	<1	1	<1	21	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	<5	<0.5	23	186	30	<1	4	<1	27	<1
SCRS_280_08	<5	<0.5	21	241	30	<1	4	<1	9	<1
SCRS_281_08	20	1.0	17	571	100	<1	4	<1	8	4
SCRS_282_08	12	<0.5	28	1160	20	<1	4	<1	10	2
SCRS_283_08	8	2.3	41	444	20	<1	9	<1	85	2
*Std MMISRM16	56	<0.5	20	271	120	29	3	<1	367	<1
*Std MMISRM16	56	<0.5	19	237	110	27	3	<1	385	<1
*Std MMISRM16	57	<0.5	19	261	120	29	3	<1	366	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	6	<1	<1	3560	<1	<1	<10	4.0	<3	1.1
*Rep 555_1_08	<5	<1	<1	3320	<1	<1	<10	3.7	<3	0.9
555_2_08	54	61	<1	130	<1	9	<10	173	735	2.1
555_3_08	235	1650	<1	240	<1	161	<10	524	160	0.9
555_4_08	27	13	<1	30	<1	3	<10	23.4	435	1.0
555_5_08	132	208	<1	430	<1	25	<10	40.7	212	0.7
555_6_08	124	217	<1	30	<1	36	<10	35.7	811	1.1
555_7_08	19	39	<1	120	<1	8	<10	6.8	215	<0.5
555_8_08	60	22	<1	40	<1	7	<10	23.3	1500	0.6
555_91_08	<5	<1	<1	4500	<1	<1	<10	0.9	<3	<0.5
SCRS_110_08	7	3	<1	1280	<1	<1	<10	1.2	13	0.5
SCRS_111_08	28	10	<1	1090	<1	2	<10	5.2	61	<0.5
SCRS_112_08	26	5	<1	1000	<1	1	<10	4.0	60	<0.5
SCRS_113_08	10	2	<1	640	<1	<1	<10	1.7	11	<0.5
*Rep SCRS_113_08	12	2	<1	640	<1	<1	<10	1.7	6	<0.5
SCRS_149_08	14	6	<1	2670	<1	2	<10	4.0	5	<0.5
SCRS_150_08	10	1	<1	2290	<1	<1	<10	0.9	13	<0.5
SCRS_151_08	23	37	<1	2030	<1	5	<10	31.6	8	<0.5
SCRS_152_08	129	33	<1	580	<1	7	<10	27.1	204	<0.5
CRS_153_08	19	7	<1	390	<1	1	<10	6.9	11	<0.5
RS_154_08	28	14	<1	230	<1	3	<10	17.6	1520	<0.5
SCRS_155_08	11	9	<1	430	<1	2	<10	2.3	4	<0.5
SCRS_156_08	6	1	<1	700	<1	<1	<10	1.4	9	<0.5
SCRS_157_08	11	2	<1	390	<1	<1	<10	1.1	7	<0.5
SCRS_158_08	21	7	<1	1280	<1	1	<10	4.3	53	<0.5
SCRS_170_08	51	47	2	260	<1	9	40	41.7	3990	0.8
SCRS_171_08	12	2	<1	2980	<1	<1	<10	0.9	20	<0.5
*Rep SCRS_171_08	21	2	<1	3020	<1	<1	<10	0.8	35	<0.5
SCRS_172_08	14	7	<1	1160	<1	2	<10	5.4	56	<0.5
SCRS_173_08	29	11	<1	490	<1	2	<10	5.7	21	<0.5
SCRS_174_08	296	118	<1	510	<1	27	<10	11.2	174	<0.5
SCRS_183_08	7	<1	<1	460	<1	<1	<10	2.4	275	<0.5
SCRS_184_08	11	4	<1	270	<1	<1	<10	8.1	563	<0.5
SCRS_185_08	46	8	<1	520	<1	2	<10	40.4	374	<0.5
SCRS_186_08	12	2	<1	60	<1	<1	<10	11.7	2010	<0.5
SCRS_187_08	<5	7	<1	2220	<1	<1	<10	1.6	9	<0.5
SCRS_188_08	22	11	<1	1020	<1	4	<10	3.8	62	<0.5
SCRS_189_08	81	33	<1	390	<1	13	<10	40.3	412	1.0
SCRS_199_08	15	4	<1	70	<1	1	<10	9.8	1030	0.6
SCRS_200_08	22	2	<1	60	<1	<1	<10	17.9	1560	<0.5
*Rep SCRS_200_08	19	2	<1	50	<1	<1	<10	16.8	1540	<0.5
SCRS_201_08	16	4	<1	90	<1	<1	<10	8.7	572	<0.5
SCRS_202_08	39	16	<1	100	<1	4	<10	30.2	1020	0.6

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	33	16	<1	90	<1	4	<10	33.5	957	0.8
SCRS_204_08	40	4	<1	290	<1	<1	<10	10.7	573	0.5
SCRS_205_08	25	5	<1	2330	<1	<1	<10	3.0	85	<0.5
SCRS_211_08	18	23	<1	350	<1	6	<10	11.8	902	<0.5
SCRS_212_08	<5	2	<1	430	<1	<1	<10	0.9	4	<0.5
SCRS_213_08	<5	13	<1	430	<1	2	<10	4.1	<3	<0.5
SCRS_214_08	18	9	<1	360	<1	2	<10	1.1	5	<0.5
SCRS_215_08	6	4	<1	90	<1	1	<10	8.9	433	<0.5
SCRS_216_08	109	24	<1	810	<1	4	<10	13.1	51	<0.5
SCRS_217_08	10	2	<1	1860	<1	<1	<10	0.9	18	<0.5
*Rep SCRS_217_08	5	2	<1	1800	<1	<1	<10	0.8	36	<0.5
SCRS_218_08	18	2	<1	430	<1	<1	<10	4.6	60	1.2
SCRS_219_08	20	<1	<1	440	<1	<1	<10	2.6	11	1.0
SCRS_220_08	52	74	<1	1240	<1	12	<10	30.3	476	0.5
SCRS_221_08	12	2	<1	130	<1	<1	<10	8.3	520	<0.5
SCRS_222_08	23	36	<1	1800	<1	7	<10	9.7	4	<0.5
SCRS_229_08	19	13	<1	50	<1	3	<10	25.3	1010	<0.5
SCRS_230_08	10	2	<1	60	<1	<1	<10	9.9	1080	<0.5
SCRS_231_08	<5	3	<1	290	<1	<1	<10	5.8	392	<0.5
SCRS_232_08	<5	<1	<1	240	<1	<1	<10	1.9	159	0.6
SCRS_233_08	5	5	<1	1290	<1	1	<10	14.9	992	<0.5
SCRS_234_08	17	11	<1	1490	<1	2	<10	12.6	79	<0.5
SCRS_235_08	51	31	<1	1650	<1	6	<10	11.9	70	<0.5
*Rep SCRS_235_08	51	16	<1	1510	<1	3	<10	9.8	108	<0.5
SCRS_236_08	52	25	<1	2210	<1	6	<10	17.2	11	<0.5
SCRS_237_08	57	24	<1	1760	<1	5	<10	14.4	99	<0.5
SCRS_238_08	7	<1	<1	860	<1	<1	<10	1.1	71	<0.5
SCRS_239_08	157	168	<1	1090	<1	27	<10	45.4	415	<0.5
SCRS_244_08	10	166	<1	2540	<1	20	<10	6.1	5	<0.5
SCRS_245_08	12	14	<1	2710	<1	3	<10	4.3	88	1.2
SCRS_246_08	34	26	<1	50	<1	5	<10	21.3	516	0.8
SCRS_247_08	14	3	<1	310	<1	<1	<10	15.7	1150	<0.5
SCRS_248_08	108	37	<1	910	<1	9	<10	41.0	116	2.2
SCRS_249_08	103	88	<1	800	<1	15	<10	22.0	125	0.6
SCRS_250_08	19	18	<1	1820	<1	3	<10	5.6	14	<0.5
SCRS_251_08	39	26	<1	2420	<1	4	<10	19.5	44	<0.5
*Rep SCRS_251_08	34	18	<1	2400	<1	3	<10	13.3	45	<0.5
SCRS_252_08	21	15	<1	1110	<1	3	<10	5.8	38	<0.5
SCRS_253_08	14	7	<1	910	<1	1	<10	3.1	72	<0.5
SCRS_254_08	55	116	<1	870	<1	20	<10	39.9	20	<0.5
SCRS_255_08	20	10	<1	40	<1	2	<10	25.4	1280	0.6
SCRS_277_08	<5	5	<1	1980	<1	<1	<10	2.0	21	<0.5
SCRS_278_08	<5	2	<1	2190	<1	<1	<10	1.0	8	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	5	7	<1	480	<1	1	<10	1.6	17	<0.5
SCRS_280_08	<5	8	<1	650	<1	2	<10	1.5	14	<0.5
SCRS_281_08	13	4	<1	510	<1	<1	<10	3.5	102	0.8
SCRS_282_08	12	11	<1	2160	<1	2	<10	6.8	9	<0.5
SCRS_283_08	40	11	<1	860	<1	2	<10	21.6	512	<0.5
*Std MMISRM16	19	6	<1	560	<1	<1	<10	25.9	9	<0.5
*Std MMISRM16	9	6	<1	580	<1	<1	<10	27.4	3	<0.5
*Std MMISRM16	14	6	<1	550	<1	<1	<10	25.4	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Final : TO102355 Order

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
555_1_08	8	<1	22	3	30	<5
*Rep 555_1_08	9	<1	21	3	40	<5
555_2_08	45	1	170	13	510	176
555_3_08	77	1	3020	169	180	280
555_4_08	6	<1	88	8	250	39
555_5_08	14	<1	691	56	160	67
555_6_08	19	2	988	74	90	93
555_7_08	7	<1	293	27	260	27
555_8_08	8	<1	321	33	340	68
555_91_08	3	2	8	1	90	<5
SCRS_110_08	7	<1	21	2	380	<5
SCRS_111_08	51	<1	96	7	220	17
SCRS_112_08	14	<1	48	4	160	18
SCRS_113_08	1	<1	16	<1	50	<5
*Rep SCRS_113_08	2	<1	18	1	60	<5
SCRS_149_08	4	<1	59	4	40	9
SCRS_150_08	7	<1	14	1	280	<5
SCRS_151_08	14	<1	156	11	30	43
SCRS_152_08	28	<1	240	20	120	62
SCRS_153_08	3	<1	35	3	130	9
;RS_154_08	6	<1	89	6	130	64
SCRS_155_08	2	<1	54	3	70	<5
SCRS_156_08	2	<1	9	<1	130	<5
SCRS_157_08	3	<1	19	1	80	<5
SCRS_158_08	11	<1	39	3	210	9
SCRS_170_08	5	<1	246	13	320	81
SCRS_171_08	3	<1	40	4	670	<5
*Rep SCRS_171_08	3	<1	38	3	470	<5
SCRS_172_08	3	<1	54	4	250	13
SCRS_173_08	5	<1	72	5	80	8
SCRS_174_08	14	<1	1020	77	140	46
SCRS_183_08	2	<1	<5	1	40	16
SCRS_184_08	6	<1	26	6	120	28
SCRS_185_08	22	<1	65	7	630	108
SCRS_186_08	7	<1	18	2	430	130
SCRS_187_08	11	<1	21	<1	70	<5
SCRS_188_08	35	<1	253	32	2050	13
SCRS_189_08	37	<1	475	25	880	119
SCRS_199_08	3	<1	45	4	200	59
SCRS_200_08	6	1	19	3	330	116
*Rep SCRS_200_08	5	<1	18	4	360	114
SCRS_201_08	2	<1	32	7	140	30
SCRS_202_08	11	<1	109	9	440	85

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_203_08	22	<1	129	11	140	127
SCRS_204_08	42	<1	41	17	630	61
SCRS_205_08	7	<1	21	1	170	19
SCRS_211_08	6	<1	190	17	700	92
SCRS_212_08	3	<1	23	1	350	<5
SCRS_213_08	5	<1	67	3	1110	5
SCRS_214_08	20	<1	98	6	250	10
SCRS_215_08	5	<1	33	5	130	57
SCRS_216_08	43	<1	146	11	160	47
SCRS_217_08	32	<1	15	1	2920	<5
*Rep SCRS_217_08	25	<1	11	<1	2910	<5
SCRS_218_08	13	<1	47	25	1020	30
SCRS_219_08	4	<1	<5	4	60	11
SCRS_220_08	11	<1	292	16	530	71
SCRS_221_08	4	<1	19	3	300	29
SCRS_222_08	28	<1	194	12	600	22
SCRS_229_08	8	<1	55	5	560	72
SCRS_230_08	4	<1	12	2	220	48
SCRS_231_08	3	<1	11	2	<20	26
SCRS_232_08	5	<1	<5	<1	<20	12
RS_233_08	6	<1	48	4	490	71
SCRS_234_08	123	<1	68	5	710	17
SCRS_235_08	32	<1	191	11	420	22
*Rep SCRS_235_08	30	<1	117	8	420	20
SCRS_236_08	98	<1	228	16	390	30
SCRS_237_08	22	<1	173	11	820	40
SCRS_238_08	13	<1	10	<1	430	18
SCRS_239_08	60	2	895	65	400	188
SCRS_244_08	19	<1	350	16	270	39
SCRS_245_08	57	<1	97	7	160	28
SCRS_246_08	15	<1	118	8	370	93
SCRS_247_08	4	<1	24	3	240	55
SCRS_248_08	34	<1	236	11	890	85
SCRS_249_08	18	<1	374	19	270	61
SCRS_250_08	12	<1	97	5	400	17
SCRS_251_08	18	<1	139	9	130	24
*Rep SCRS_251_08	19	<1	106	7	110	22
SCRS_252_08	89	<1	114	7	120	22
SCRS_253_08	38	<1	45	3	260	15
SCRS_254_08	163	<1	697	39	6730	75
SCRS_255_08	19	<1	45	5	70	127
SCRS_277_08	3	<1	54	3	180	13
SCRS_278_08	3	<1	16	<1	370	9

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	6	<1	53	3	80	9
SCRS_280_08	11	<1	68	4	240	8
SCRS_281_08	10	<1	30	2	900	15
SCRS_282_08	12	<1	64	4	90	15
SCRS_283_08	17	<1	68	7	70	74
*Std MMISRM16	46	<1	11	<1	250	14
*Std MMISRM16	45	<1	11	<1	250	15
*Std MMISRM16	44	<1	11	<1	270	20
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	6
*Blk BLANK	<1	<1	<5	<1	<20	6

SGS

Certificate of Analysis

Work Order: TO102356

To: Logan Resources Ltd.
Attn: Rita Chow
Suite 1640-1066 West Hasting St.
Oceanic Plaza, Box 12543
VANCOUVER
BC V6E 3X1

Date: Sep 16, 2008

P.O. No. :	Shell Creek
Project No. :	DEFAULT
No. Of Samples	78
Date Submitted	Aug 11, 2008
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 78 Soils

Certified By :
Gavin McGill
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

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
5552_1_08	<1	34	<10	<0.1	3660	<1	750	5	30	199
*Rep 5552_1_08	<1	37	<10	<0.1	2980	<1	660	6	23	151
5552_2_08	6	174	<10	0.1	430	<1	30	4	775	7
5552_3_08	3	258	<10	<0.1	520	<1	10	4	61	91
5552_4_08	10	254	20	1.0	210	<1	20	4	169	39
5552_5_08	<1	158	<10	0.3	100	<1	220	17	63	42
5552_6_08	2	212	<10	<0.1	720	<1	110	9	88	137
5552_7_08	<1	191	<10	<0.1	480	<1	70	13	42	117
5552_8_08	3	278	<10	<0.1	380	<1	30	7	38	90
SCRS_50_08	<1	31	<10	<0.1	600	<1	560	7	5	45
SCRS_67_08	5	130	10	0.4	1020	<1	40	4	26	303
SCRS_107_08	13	210	10	<0.1	1910	<1	70	6	29	65
SCRS_108_08	19	100	20	0.3	2090	<1	260	22	117	188
SCRS_109_08	33	57	<10	0.3	1470	<1	420	52	65	420
*Rep SCRS_109_08	28	58	<10	0.3	1460	<1	390	32	54	525
SCRS_190_08	13	3	<10	0.2	390	<1	590	9	18	39
SCRS_191_08	<1	90	50	<0.1	800	<1	120	<1	22	228
SCRS_192_08	2	>300	10	<0.1	620	<1	10	18	16	221
SCRS_193_08	<1	19	<10	<0.1	400	<1	590	13	5	15
RS_194_08	<1	154	10	<0.1	460	1	30	1	14	100
RS_195_08	7	275	<10	<0.1	600	<1	<10	2	20	76
SCRS_196_08	2	298	20	<0.1	1780	<1	30	4	215	326
SCRS_197_08	106	6	<10	1.1	130	<1	440	5	18	39
SCRS_198_08	<1	58	<10	<0.1	420	<1	540	14	13	6
SCRS_207_08	3	28	<10	<0.1	790	<1	510	28	39	61
SCRS_208_08	6	137	40	0.1	2120	2	20	1	82	161
SCRS_209_08	2	256	<10	<0.1	180	<1	<10	<1	20	25
*Rep SCRS_209_08	3	273	<10	<0.1	180	<1	<10	2	28	38
SCRS_210_08	3	252	70	<0.1	2140	2	40	11	110	475
SCRS_223_08	<1	40	<10	<0.1	430	<1	590	21	11	11
SCRS_224_08	4	163	50	0.1	2550	2	20	5	63	163
SCRS_225_08	7	218	<10	<0.1	1220	<1	110	18	31	428
SCRS_226_08	2	109	<10	<0.1	1470	<1	160	9	17	451
SCRS_227_08	<1	95	20	<0.1	970	<1	120	4	22	321
SCRS_228_08	3	217	<10	<0.1	1050	<1	100	14	49	457
SCRS_236_08	5	82	20	<0.1	1720	<1	70	27	69	631
SCRS_240_08	2	25	<10	<0.1	1700	<1	610	7	50	115
SCRS_241_08	<1	73	<10	<0.1	720	<1	350	36	15	91
SCRS_242_08	2	113	70	0.3	3850	1	200	7	266	331
SCRS_243_08	2	129	50	<0.1	2050	2	130	4	92	996
*Rep SCRS_243_08	<1	126	30	<0.1	1560	1	110	4	62	1020
SCRS_257_08	<1	67	<10	<0.1	3200	<1	420	81	50	50
SCRS_258_08	5	114	<10	<0.1	4000	<1	360	19	73	313

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
SCRS_259_08	16	94	<10	0.3	3050	<1	560	164	80	133
SCRS_260_08	<1	125	10	<0.1	1470	2	100	8	46	276
SCRS_271_08	<1	83	<10	<0.1	740	<1	630	102	26	21
SCRS_272_08	<1	77	<10	<0.1	1490	<1	590	57	36	36
SCRS_273_08	<1	126	<10	<0.1	1450	<1	390	70	42	41
SCRS_274_08	3	204	<10	<0.1	2200	<1	220	121	47	273
SCRS_275_08	<1	128	<10	<0.1	850	2	250	5	9	533
SCRS_276_08	3	278	<10	0.1	650	<1	30	2	10	89
SCRS_284_08	<1	53	<10	<0.1	680	<1	230	3	11	186
SCRS_285_08	20	17	<10	<0.1	440	<1	690	10	<5	13
*Rep SCRS_285_08	23	13	<10	<0.1	470	<1	700	7	<5	5
SCRS_286_08	16	74	<10	<0.1	580	<1	390	24	30	17
SCRS_287_08	7	53	<10	<0.1	1800	<1	590	9	39	61
SCRS_288_08	<1	3	<10	<0.1	280	<1	600	8	<5	5
SCRS_289_08	45	41	<10	0.5	1480	<1	550	15	87	16
SCRS_290_08	1	142	<10	0.1	640	<1	90	10	51	559
SCRS_291_08	40	8	<10	0.4	2280	<1	550	10	39	163
SCRS_292_08	<1	39	50	0.5	3740	<1	440	6	237	291
SCRS_293_08	1	66	<10	<0.1	610	<1	520	17	11	77
CRS_294_08	<1	7	50	<0.1	1070	<1	450	3	66	199
RS_295_08	265	8	<10	1.3	930	<1	700	8	<5	<5
SCRS_296_08	26	32	<10	0.2	1100	<1	880	64	<5	<5
SCRS_297_08	2	13	<10	0.3	440	<1	680	6	70	266
*Rep SCRS_297_08	5	12	<10	0.4	460	<1	680	5	84	291
SCRS_298_08	2	55	<10	<0.1	1380	<1	560	6	400	250
SCRS_299_08	38	51	<10	0.3	1230	<1	820	65	24	15
SCRS_300_08	17	44	<10	0.3	5700	<1	890	51	101	51
SCRS_301_08	2	68	<10	0.1	3000	<1	510	2	53	307
SCRS_302_08	6	106	<10	0.1	3980	<1	590	26	98	283
SCRS_303_08	20	4	<10	<0.1	400	<1	580	189	<5	91
SCRS_304_08	44	39	<10	0.2	720	<1	870	23	8	<5
SCRS_305_08	25	22	<10	0.5	1020	<1	830	4	123	120
SCRS_306_08	26	53	<10	0.5	2410	<1	530	12	177	30
SCRS_307_08	27	74	<10	0.5	1180	<1	410	13	140	196
SCRS_308_08	2	26	30	0.2	490	<1	630	4	19	237
SCRS_309_08	<1	37	<10	<0.1	1300	<1	710	3	33	190
*Rep SCRS_309_08	1	42	<10	0.1	1490	<1	670	6	41	154
SCRS_310_08	2	122	<10	0.1	3790	<1	150	6	39	698
SCRS_311_08	2	27	<10	0.1	1770	<1	870	8	<5	52
SCRS_312_08	17	4	<10	<0.1	220	<1	430	6	<5	35
SCRS_313_08	<1	85	<10	<0.1	4870	<1	320	9	22	414
SCRS_9211_08	<1	160	20	<0.1	2550	1	40	3	36	66
*Std MMISRM16	18	57	20	29.5	80	<1	240	4	26	67

Final : TO102356 Order:

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	59	20	32.2	60	<1	240	4	20	75
*Std MMISRM16	20	62	20	32.2	60	<1	250	4	21	80
*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	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
5552_1_08	<100	1740	3	1.9	0.7	62	4	15	<5	14
*Rep 5552_1_08	<100	1420	2	1.6	0.6	42	3	11	<5	13
5552_2_08	<100	160	65	26.2	29.8	16	123	577	<5	<1
5552_3_08	<100	300	60	37.1	7.2	48	37	34	<5	3
5552_4_08	<100	12300	92	50.0	19.6	21	91	114	<5	1
5552_5_08	<100	2290	62	45.0	10.0	43	58	41	<5	23
5552_6_08	<100	1190	25	15.9	4.1	74	21	25	<5	6
5552_7_08	<100	780	15	12.3	1.6	98	8	9	<5	9
5552_8_08	<100	1050	30	20.2	3.4	28	17	15	<5	3
SCRS_50_08	<100	290	<1	0.6	<0.5	15	1	2	<5	18
SCRS_67_08	<100	3770	10	8.5	1.2	155	6	9	<5	4
SCRS_107_08	<100	380	4	2.6	0.7	249	4	15	<5	46
SCRS_108_08	<100	1390	28	12.4	7.2	183	36	45	<5	70
SCRS_109_08	<100	640	19	10.1	3.8	68	21	24	7	103
*Rep SCRS_109_08	<100	670	12	6.4	2.7	49	14	18	8	99
SCRS_190_08	<100	370	6	2.5	1.8	9	9	6	5	17
SCRS_191_08	<100	520	4	2.3	0.7	403	3	8	7	16
SCRS_192_08	<100	250	15	9.7	1.2	79	7	6	14	2
SCRS_193_08	<100	20	3	2.1	<0.5	12	3	3	5	40
˜RS_194_08	<100	190	4	3.8	0.8	309	4	6	10	6
RS_195_08	<100	340	6	4.6	1.0	71	4	8	7	<1
SCRS_196_08	<100	220	38	12.4	12.7	84	60	61	7	5
SCRS_197_08	<100	210	3	1.7	0.9	8	5	3	<5	69
SCRS_198_08	<100	20	7	3.5	1.3	12	8	7	<5	38
SCRS_207_08	<100	800	8	4.9	1.8	141	9	14	<5	14
SCRS_208_08	<100	960	16	8.5	4.5	491	21	37	<5	3
SCRS_209_08	<100	490	4	2.4	0.8	54	4	9	6	<1
*Rep SCRS_209_08	<100	350	12	6.5	1.6	42	8	11	6	<1
SCRS_210_08	<100	630	67	34.2	11.7	133	63	39	5	8
SCRS_223_08	<100	40	5	3.0	1.0	10	5	4	<5	32
SCRS_224_08	100	930	15	8.8	3.6	351	18	27	<5	5
SCRS_225_08	<100	1030	15	12.4	1.4	161	8	12	<5	16
SCRS_226_08	<100	2340	15	13.3	1.0	163	7	7	<5	20
SCRS_227_08	<100	1600	7	4.9	0.9	299	5	10	<5	20
SCRS_228_08	<100	430	34	23.7	2.8	80	22	18	<5	19
SCRS_236_08	<100	110	9	8.7	2.2	297	11	32	<5	18
SCRS_240_08	<100	1460	4	1.4	1.9	21	7	19	<5	168
SCRS_241_08	<100	370	12	9.9	1.6	40	10	7	<5	26
SCRS_242_08	<100	2160	93	50.9	21.6	231	118	102	<5	52
SCRS_243_08	100	1010	20	8.3	6.4	175	33	26	5	32
*Rep SCRS_243_08	100	1060	16	6.6	4.7	181	24	18	5	29
SCRS_257_08	<100	580	20	12.2	3.7	28	20	17	<5	38
SCRS_258_08	<100	320	16	7.4	5.4	79	24	34	8	68

SGS

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
SCRS_259_08	<100	4940	28	14.3	5.4	123	28	33	<5	70
SCRS_260_08	<100	780	7	5.0	1.0	323	6	17	<5	21
SCRS_271_08	<100	140	13	8.2	2.2	24	13	17	<5	18
SCRS_272_08	<100	160	22	13.3	3.7	17	22	20	<5	67
SCRS_273_08	<100	330	51	40.3	4.6	85	28	18	<5	78
SCRS_274_08	<100	250	21	12.0	2.8	72	15	16	<5	47
SCRS_275_08	<100	130	4	8.3	<0.5	132	3	5	7	10
SCRS_276_08	<100	220	2	1.4	<0.5	119	1	4	<5	3
SCRS_284_08	<100	130	2	1.6	<0.5	174	2	5	<5	10
SCRS_285_08	<100	720	7	3.8	1.1	9	7	<1	<5	7
*Rep SCRS_285_08	<100	640	5	2.4	0.9	7	5	<1	<5	7
SCRS_286_08	<100	290	10	4.9	3.1	13	16	26	<5	13
SCRS_287_08	<100	390	5	2.5	1.6	65	7	22	<5	14
SCRS_288_08	<100	<10	1	0.5	<0.5	3	1	<1	<5	32
SCRS_289_08	<100	260	72	30.4	22.3	25	119	75	<5	30
SCRS_290_08	<100	440	15	5.9	3.0	119	17	14	<5	22
SCRS_291_08	<100	2020	7	3.5	2.0	19	10	15	<5	198
SCRS_292_08	<100	3460	37	21.1	8.6	338	43	89	<5	128
SCRS_293_08	<100	370	2	1.0	<0.5	31	2	5	<5	49
~RS_294_08	<100	210	9	5.9	2.5	97	12	25	<5	74
,RS_295_08	<100	1340	7	3.3	1.2	7	8	<1	<5	9
SCRS_296_08	<100	150	4	2.0	1.1	11	6	6	<5	5
SCRS_297_08	<100	1070	11	5.5	2.7	93	15	23	<5	30
*Rep SCRS_297_08	<100	1290	12	6.8	3.1	105	17	30	<5	28
SCRS_298_08	<100	790	26	15.5	8.0	122	38	141	<5	9
SCRS_299_08	<100	190	15	7.4	3.9	22	22	19	<5	96
SCRS_300_08	<100	4050	30	16.4	6.7	38	37	38	<5	98
SCRS_301_08	<100	3860	14	9.2	2.9	113	14	29	<5	18
SCRS_302_08	<100	1320	20	11.7	4.2	46	22	39	<5	44
SCRS_303_08	<100	1080	21	9.2	5.1	7	34	<1	<5	3
SCRS_304_08	<100	460	8	3.5	2.0	16	11	7	<5	10
SCRS_305_08	<100	810	16	7.0	6.1	47	29	47	<5	16
SCRS_306_08	<100	260	130	49.3	44.1	27	220	147	<5	48
SCRS_307_08	<100	780	12	6.6	3.7	116	18	63	<5	11
SCRS_308_08	<100	2070	4	2.3	0.9	110	6	8	<5	18
SCRS_309_08	<100	1000	4	2.4	1.0	71	5	11	<5	28
*Rep SCRS_309_08	<100	1550	5	3.1	1.2	85	6	13	<5	28
SCRS_310_08	<100	3010	18	13.8	2.6	247	13	15	<5	11
SCRS_311_08	<100	1000	6	3.6	1.0	14	5	1	<5	53
SCRS_312_08	<100	670	1	0.7	<0.5	14	1	<1	12	60
SCRS_313_08	<100	2110	9	6.5	1.4	191	7	9	<5	28
SCRS_9211_08	<100	300	16	8.8	2.8	266	15	15	<5	13
*Std MMISRM16	<100	670	3	1.0	1.2	3	6	6	<5	39

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
*Std MMISRM16	<100	710	2	1.0	1.1	3	5	5	<5	40
*Std MMISRM16	<100	720	3	1.1	1.1	3	5	5	<5	43
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	23	0.6	18	1340	30	<1	4	<1	8	<1
*Rep 5552_1_08	21	0.6	14	915	30	<1	3	<1	8	<1
5552_2_08	<5	1.4	687	22	1320	<1	188	<1	152	<1
5552_3_08	<5	1.5	67	135	160	<1	13	<1	103	<1
5552_4_08	5	0.7	239	131	50	<1	51	<1	79	<1
5552_5_08	<5	0.7	115	368	20	<1	22	<1	63	<1
5552_6_08	5	1.9	45	214	130	<1	9	<1	159	<1
5552_7_08	<5	2.3	16	71	190	<1	3	<1	42	<1
5552_8_08	<5	0.8	31	109	240	<1	6	<1	111	<1
SCRS_50_08	<5	0.6	3	65	20	<1	<1	<1	17	<1
SCRS_67_08	<5	0.6	14	104	50	<1	3	<1	94	<1
SCRS_107_08	<5	1.3	13	248	10	<1	3	<1	65	<1
SCRS_108_08	<5	1.6	82	612	360	<1	18	<1	65	2
SCRS_109_08	<5	<0.5	45	4520	40	<1	10	<1	19	1
*Rep SCRS_109_08	<5	<0.5	34	3340	40	<1	7	<1	18	<1
SCRS_190_08	<5	<0.5	18	205	20	<1	3	<1	14	<1
SCRS_191_08	5	1.6	10	247	30	<1	2	<1	48	<1
SCRS_192_08	<5	1.3	10	86	240	<1	2	<1	195	<1
SCRS_193_08	<5	<0.5	6	53	30	<1	1	<1	19	<1
CRS_194_08	<5	2.4	10	72	<10	<1	2	<1	56	<1
RS_195_08	<5	1.0	10	123	190	<1	2	<1	90	<1
SCRS_196_08	<5	3.1	95	294	170	<1	20	<1	272	<1
SCRS_197_08	<5	<0.5	10	170	20	<1	2	<1	15	<1
SCRS_198_08	<5	<0.5	16	40	30	<1	3	<1	27	<1
SCRS_207_08	<5	<0.5	25	441	60	<1	5	<1	11	<1
SCRS_208_08	7	5.1	47	209	30	<1	11	<1	109	2
SCRS_209_08	<5	1.0	10	126	60	<1	2	<1	102	<1
*Rep SCRS_209_08	<5	1.0	16	120	220	<1	4	<1	108	<1
SCRS_210_08	<5	3.9	89	239	270	<1	17	<1	143	1
SCRS_223_08	<5	<0.5	9	88	50	<1	2	<1	6	<1
SCRS_224_08	9	4.8	38	195	40	<1	9	<1	130	2
SCRS_225_08	<5	1.9	17	144	190	<1	4	<1	57	<1
SCRS_226_08	<5	<0.5	13	136	120	<1	3	<1	39	<1
SCRS_227_08	<5	2.8	13	87	20	<1	3	<1	167	<1
SCRS_228_08	<5	1.3	36	189	80	<1	7	<1	80	<1
SCRS_236_08	23	1.6	36	230	20	<1	9	<1	38	1
SCRS_240_08	18	1.2	31	791	20	<1	7	<1	21	<1
SCRS_241_08	<5	<0.5	15	71	110	<1	3	<1	<5	<1
SCRS_242_08	15	3.0	228	221	110	<1	46	<1	125	5
SCRS_243_08	6	4.1	59	210	60	<1	12	<1	155	1
*Rep SCRS_243_08	6	2.7	41	239	40	<1	8	<1	167	<1
SCRS_257_08	5	<0.5	38	1180	250	<1	7	<1	<5	2
SCRS_258_08	<5	1.9	67	336	80	<1	14	<1	98	<1

SGS

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	10	0.7	58	3060	580	<1	12	<1	26	3
SCRS_260_08	<5	1.7	19	166	80	<1	5	<1	36	<1
SCRS_271_08	<5	<0.5	28	82	500	<1	6	<1	11	<1
SCRS_272_08	<5	<0.5	39	74	410	<1	8	<1	20	<1
SCRS_273_08	<5	<0.5	41	101	550	<1	8	<1	35	<1
SCRS_274_08	<5	1.0	28	166	4100	<1	6	<1	128	<1
SCRS_275_08	<5	<0.5	8	37	40	<1	2	<1	42	<1
SCRS_276_08	<5	1.0	4	50	<10	<1	1	<1	390	<1
SCRS_284_08	<5	1.0	6	54	20	<1	1	<1	13	<1
SCRS_285_08	<5	<0.5	2	92	30	<1	<1	<1	25	<1
*Rep SCRS_285_08	<5	<0.5	2	67	20	<1	<1	<1	36	<1
SCRS_286_08	<5	<0.5	55	96	680	<1	11	<1	106	<1
SCRS_287_08	<5	<0.5	30	72	50	<1	7	<1	36	<1
SCRS_288_08	<5	<0.5	1	30	30	<1	<1	<1	9	<1
SCRS_289_08	<5	<0.5	288	91	30	<1	50	<1	62	<1
SCRS_290_08	<5	<0.5	35	181	70	<1	7	<1	229	<1
SCRS_291_08	5	<0.5	32	1140	<10	<1	6	<1	12	<1
SCRS_292_08	9	1.5	148	696	30	<1	34	<1	14	3
SCRS_293_08	<5	<0.5	7	96	20	<1	2	<1	29	<1
SCRS_294_08	56	0.7	45	1230	20	<1	10	<1	6	2
SCRS_295_08	<5	<0.5	1	179	10	<1	<1	<1	17	<1
SCRS_296_08	<5	<0.5	15	245	10	<1	3	<1	13	<1
SCRS_297_08	<5	<0.5	56	665	30	<1	12	<1	10	<1
*Rep SCRS_297_08	<5	<0.5	66	773	40	<1	14	<1	16	<1
SCRS_298_08	<5	0.5	189	127	40	<1	46	<1	37	<1
SCRS_299_08	<5	<0.5	48	436	40	<1	9	<1	17	<1
SCRS_300_08	<5	<0.5	79	1530	80	<1	16	<1	15	<1
SCRS_301_08	<5	<0.5	42	175	<10	<1	10	<1	49	<1
SCRS_302_08	<5	<0.5	64	588	30	<1	14	<1	36	<1
SCRS_303_08	<5	<0.5	6	599	40	<1	<1	<1	47	<1
SCRS_304_08	<5	<0.5	25	303	20	<1	5	<1	18	<1
SCRS_305_08	<5	0.5	122	261	10	<1	25	<1	16	<1
SCRS_306_08	<5	<0.5	577	195	70	<1	101	<1	56	<1
SCRS_307_08	<5	<0.5	79	100	30	<1	19	<1	32	<1
SCRS_308_08	32	0.5	16	1310	40	<1	3	<1	16	4
SCRS_309_08	<5	0.8	18	179	<10	<1	4	<1	17	<1
*Rep SCRS_309_08	<5	1.1	21	183	10	<1	5	<1	13	<1
SCRS_310_08	<5	0.8	25	458	20	<1	5	<1	61	<1
SCRS_311_08	<5	<0.5	5	360	<10	<1	<1	<1	44	<1
SCRS_312_08	6	<0.5	2	1070	10	<1	<1	<1	76	<1
SCRS_313_08	<5	0.6	16	482	20	<1	3	<1	40	<1
SCRS_9211_08	<5	1.1	22	115	20	<1	5	<1	50	<1
*Std MMISRM16	48	<0.5	20	246	120	29	4	<1	354	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	53	<0.5	16	290	120	29	3	<1	343	<1
*Std MMISRM16	53	<0.5	16	300	130	28	3	<1	347	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	<5	3	<1	2850	<1	<1	<10	2.4	14	<0.5
*Rep 5552_1_08	<5	3	<1	2460	<1	<1	<10	1.6	14	<0.5
5552_2_08	60	131	<1	20	<1	16	<10	124	590	0.8
5552_3_08	73	23	<1	70	<1	8	<10	27.8	727	<0.5
5552_4_08	115	76	<1	30	<1	16	<10	35.7	367	<0.5
5552_5_08	61	39	<1	430	<1	10	<10	25.5	187	<0.5
5552_6_08	70	14	<1	400	<1	4	<10	30.0	936	0.7
5552_7_08	57	5	<1	140	<1	2	<10	27.7	1070	<0.5
5552_8_08	28	11	<1	80	<1	4	<10	12.9	377	<0.5
SCRS_50_08	<5	<1	<1	2540	<1	<1	<10	1.1	22	<0.5
SCRS_67_08	77	4	<1	190	<1	1	<10	13.3	565	1.0
SCRS_107_08	17	3	<1	460	<1	<1	<10	14.3	581	<0.5
SCRS_108_08	32	26	<1	1050	<1	6	<10	33.8	348	<0.5
SCRS_109_08	26	14	<1	930	<1	4	<10	7.2	14	<0.5
*Rep SCRS_109_08	17	10	<1	870	<1	2	<10	6.7	13	<0.5
SCRS_190_08	<5	6	<1	1030	<1	1	<10	5.6	7	<0.5
SCRS_191_08	14	3	<1	360	<1	<1	<10	11.3	586	<0.5
SCRS_192_08	22	4	<1	130	<1	2	<10	12.0	501	<0.5
SCRS_193_08	<5	2	<1	220	<1	<1	<10	1.6	30	<0.5
SCRS_194_08	24	3	<1	170	<1	<1	<10	12.5	711	<0.5
SCRS_195_08	23	3	<1	10	<1	<1	<10	18.6	440	0.5
SCRS_196_08	38	45	<1	120	<1	9	<10	68.1	1370	1.0
SCRS_197_08	<5	3	<1	170	<1	<1	<10	1.8	29	<0.5
SCRS_198_08	<5	5	<1	260	<1	1	<10	1.7	18	<0.5
SCRS_207_08	20	7	<1	1280	<1	1	<10	4.8	44	<0.5
SCRS_208_08	41	17	<1	120	<1	3	<10	52.7	2000	0.5
SCRS_209_08	14	3	<1	20	<1	<1	<10	16.7	369	<0.5
*Rep SCRS_209_08	22	5	<1	10	<1	2	<10	20.0	344	<0.5
SCRS_210_08	96	40	<1	180	<1	11	<10	77.0	2190	<0.5
SCRS_223_08	<5	3	<1	1280	<1	<1	<10	1.7	13	<0.5
SCRS_224_08	75	14	<1	180	<1	3	<10	50.3	2010	0.8
SCRS_225_08	94	5	<1	250	<1	2	<10	14.8	1280	<0.5
SCRS_226_08	101	4	<1	340	<1	2	<10	6.3	139	0.6
SCRS_227_08	114	4	<1	190	<1	<1	<10	17.4	1690	<0.5
SCRS_228_08	118	12	<1	170	<1	5	<10	12.0	1190	<0.5
SCRS_236_08	33	8	<1	410	<1	2	<10	8.3	433	1.6
SCRS_240_08	<5	7	<1	2680	<1	<1	<10	2.3	21	<0.5
SCRS_241_08	14	6	<1	410	<1	2	<10	2.4	64	<0.5
SCRS_242_08	185	79	<1	590	<1	18	<10	38.3	1530	0.9
SCRS_243_08	44	24	<1	410	<1	5	<10	36.5	1920	0.6
*Rep SCRS_243_08	40	17	<1	400	<1	3	<10	27.0	1080	0.5
SCRS_257_08	12	12	<1	670	<1	3	<10	1.7	32	<0.5
SCRS_258_08	21	19	<1	1480	<1	3	<10	11.0	125	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	65	18	<1	560	<1	5	<10	8.1	89	<0.5
SCRS_260_08	33	5	<1	230	<1	<1	<10	15.5	648	<0.5
SCRS_271_08	19	9	<1	460	<1	2	<10	5.1	34	<0.5
SCRS_272_08	13	13	<1	640	<1	4	<10	2.6	21	<0.5
SCRS_273_08	72	16	<1	430	<1	6	<10	12.8	41	<0.5
SCRS_274_08	62	10	<1	550	<1	3	<10	18.5	433	<0.5
SCRS_275_08	37	2	<1	330	<1	<1	<10	6.8	85	<0.5
SCRS_276_08	6	<1	<1	250	<1	<1	<10	6.8	327	1.5
SCRS_284_08	18	1	<1	260	<1	<1	<10	4.7	309	<0.5
SCRS_285_08	6	3	<1	3980	<1	1	<10	2.9	<3	<0.5
*Rep SCRS_285_08	5	2	<1	3540	<1	<1	<10	1.8	<3	<0.5
SCRS_286_08	<5	14	<1	360	<1	2	<10	7.2	30	0.6
SCRS_287_08	9	6	<1	620	<1	1	<10	3.4	11	0.6
SCRS_288_08	<5	<1	<1	640	<1	<1	<10	<0.5	<3	<0.5
SCRS_289_08	75	94	<1	1420	<1	16	<10	22.8	10	<0.5
SCRS_290_08	38	13	<1	350	<1	3	<10	12.5	151	0.7
SCRS_291_08	11	9	<1	370	<1	1	<10	6.3	4	<0.5
SCRS_292_08	98	36	<1	740	<1	7	<10	29.9	173	<0.5
SCRS_293_08	<5	2	<1	430	<1	<1	<10	1.0	13	<0.5
˜RS_294_08	16	11	<1	1010	<1	2	<10	9.0	40	<0.5
RS_295_08	<5	3	<1	3190	<1	1	<10	1.5	<3	<0.5
SCRS_296_08	<5	5	<1	4880	<1	<1	<10	1.7	<3	<0.5
SCRS_297_08	13	15	<1	1720	<1	2	<10	15.2	8	<0.5
*Rep SCRS_297_08	16	16	<1	1660	<1	2	<10	16.9	12	<0.5
SCRS_298_08	65	36	<1	3370	<1	5	<10	22.2	30	<0.5
SCRS_299_08	8	16	<1	1900	<1	3	<10	3.1	4	<0.5
SCRS_300_08	35	25	<1	1070	<1	6	<10	5.3	4	<0.5
SCRS_301_08	107	11	<1	900	<1	2	<10	4.1	27	<0.5
SCRS_302_08	45	17	<1	790	<1	4	<10	5.3	19	<0.5
SCRS_303_08	8	14	<1	1730	<1	4	<10	3.4	<3	1.0
SCRS_304_08	<5	8	<1	3320	<1	2	<10	4.0	<3	<0.5
SCRS_305_08	15	30	<1	3180	<1	4	<10	9.6	21	<0.5
SCRS_306_08	66	192	<1	1270	<1	29	<10	40.6	8	<0.5
SCRS_307_08	40	16	<1	520	<1	3	<10	7.4	34	<0.5
SCRS_308_08	16	5	<1	650	<1	<1	<10	3.4	33	<0.5
SCRS_309_08	18	4	<1	1260	<1	<1	<10	2.9	43	<0.5
*Rep SCRS_309_08	26	5	<1	1250	<1	<1	<10	3.2	61	<0.5
SCRS_310_08	193	8	<1	410	<1	3	<10	11.9	233	0.6
SCRS_311_08	29	2	<1	920	<1	<1	<10	2.1	6	<0.5
SCRS_312_08	<5	<1	<1	410	<1	<1	<10	0.8	7	7.5
SCRS_313_08	81	5	<1	500	<1	1	<10	3.6	153	<0.5
SCRS_9211_08	54	10	<1	310	<1	3	<10	23.2	377	<0.5
*Std MMISRM16	12	6	<1	500	<1	<1	<10	30.1	4	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	12	5	<1	480	<1	<1	<10	24.4	<3	<0.5
*Std MMISRM16	12	5	<1	480	<1	<1	<10	24.7	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
5552_1_08	26	<1	23	2	30	<5
*Rep 5552_1_08	34	<1	19	2	40	<5
5552_2_08	25	<1	309	18	70	141
5552_3_08	12	<1	331	28	260	57
5552_4_08	16	<1	424	40	110	56
5552_5_08	6	<1	370	42	430	33
5552_6_08	8	<1	143	13	210	58
5552_7_08	6	<1	86	12	200	45
5552_8_08	4	<1	163	16	170	29
SCRS_50_08	14	<1	7	<1	1120	<5
SCRS_67_08	17	<1	60	8	140	53
SCRS_107_08	5	<1	20	2	230	41
SCRS_108_08	23	<1	148	8	170	42
SCRS_109_08	91	<1	136	8	290	20
*Rep SCRS_109_08	43	<1	78	5	230	17
SCRS_190_08	4	<1	38	2	180	<5
SCRS_191_08	8	<1	19	2	100	50
SCRS_192_08	4	<1	83	7	760	62
SCRS_193_08	2	<1	21	2	720	6
·RS_194_08	4	<1	23	5	410	28
,RS_195_08	7	<1	28	4	270	48
SCRS_196_08	15	1	124	8	640	133
SCRS_197_08	2	<1	24	1	340	<5
SCRS_198_08	6	<1	46	2	530	8
SCRS_207_08	15	<1	61	4	520	11
SCRS_208_08	15	1	71	7	260	143
SCRS_209_08	6	<1	14	2	400	38
*Rep SCRS_209_08	8	<1	48	4	580	48
SCRS_210_08	22	1	320	23	950	149
SCRS_223_08	8	<1	38	2	2050	<5
SCRS_224_08	25	1	66	7	3220	151
SCRS_225_08	8	<1	97	13	2670	62
SCRS_226_08	11	<1	108	12	570	13
SCRS_227_08	11	2	39	5	990	81
SCRS_228_08	5	<1	200	18	2950	38
SCRS_236_08	38	<1	62	10	1000	47
SCRS_240_08	5	<1	20	<1	280	<5
SCRS_241_08	6	<1	102	9	4700	8
SCRS_242_08	91	1	500	42	1020	161
SCRS_243_08	16	1	87	6	1510	94
*Rep SCRS_243_08	16	<1	68	5	2530	76
SCRS_257_08	20	<1	154	9	470	7
SCRS_258_08	14	<1	79	5	970	40

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_259_08	62	<1	189	11	240	25
SCRS_260_08	20	<1	34	5	110	38
SCRS_271_08	11	<1	101	6	270	17
SCRS_272_08	8	<1	166	10	690	7
SCRS_273_08	14	<1	387	32	360	19
SCRS_274_08	5	<1	103	9	4210	33
SCRS_275_08	6	<1	26	31	20	19
SCRS_276_08	3	<1	7	1	<20	26
SCRS_284_08	7	<1	13	1	60	21
SCRS_285_08	4	<1	42	3	90	<5
*Rep SCRS_285_08	4	<1	31	2	50	<5
SCRS_286_08	4	<1	57	4	710	12
SCRS_287_08	8	<1	33	2	40	9
SCRS_288_08	2	<1	7	<1	610	<5
SCRS_289_08	8	<1	448	21	80	18
SCRS_290_08	5	<1	67	4	210	33
SCRS_291_08	4	<1	46	3	30	8
SCRS_292_08	24	<1	241	20	100	77
SCRS_293_08	4	<1	14	<1	230	5
SCRS_294_08	33	<1	66	6	130	15
SCRS_295_08	2	<1	43	2	80	7
SCRS_296_08	12	<1	32	1	<20	<5
SCRS_297_08	9	<1	77	5	130	<5
*Rep SCRS_297_08	10	<1	92	6	130	6
SCRS_298_08	9	<1	205	14	70	41
SCRS_299_08	29	<1	113	5	100	9
SCRS_300_08	17	<1	232	13	240	8
SCRS_301_08	9	<1	108	8	30	18
SCRS_302_08	13	<1	148	10	210	16
SCRS_303_08	3	<1	165	6	280	<5
SCRS_304_08	8	<1	57	3	140	<5
SCRS_305_08	4	<1	108	6	50	10
SCRS_306_08	16	<1	709	31	130	18
SCRS_307_08	20	<1	90	6	30	25
SCRS_308_08	47	<1	31	2	520	5
SCRS_309_08	9	<1	30	2	30	7
*Rep SCRS_309_08	12	<1	38	3	40	8
SCRS_310_08	10	<1	137	14	<20	55
SCRS_311_08	6	<1	37	3	<20	6
SCRS_312_08	12	<1	9	<1	230	<5
SCRS_313_08	6	<1	68	7	170	12
SCRS_9211_08	14	<1	73	6	610	27
*Std MMISRM16	48	<1	12	<1	250	15

SGS

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM16	47	<1	11	<1	220	12
*Std MMISRM16	48	<1	11	<1	230	12
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

APPENDIX 2

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	18	186	10	<0.1	1160	<1	690	18	829	334	<100	260
DUP-CHYS_545_08	17	174	10	<0.1	1110	<1	700	17	958	283	<100	230
SCRS_12_08	1	110	10	<0.1	1220	<1	80	6	70	355	<100	1020
DUP-SCRS_12_08	<1	102	10	<0.1	1160	1	80	4	57	286	<100	1190
SCRS_24_08	9	19	20	0.2	960	<1	750	6	122	136	<100	3170
DUP-SCRS_24_08	9	17	10	0.2	750	<1	750	7	103	110	<100	2320
SCRS_48_08	45	12	<10	1.2	720	<1	490	10	<5	21	<100	240
DUP-SCRS_48_08	44	13	<10	1.3	710	<1	470	12	<5	41	<100	250
SCRS_55_08	8	19	<10	0.1	580	<1	580	11	73	73	<100	350
DUP-SCRS_55_08	8	20	<10	<0.1	610	<1	550	12	110	93	<100	580
SCRS_68_08	18	29	<10	0.2	290	<1	570	13	<5	<5	<100	330
DUP-SCRS_68_08	15	38	<10	0.2	310	<1	650	15	5	<5	<100	240
SCRS_98_08	6	53	<10	0.1	610	<1	350	7	29	16	<100	230
DUP-SCRS_98_08	7	63	<10	<0.1	550	<1	320	8	41	14	<100	180
SCRS_117_08	3	154	<10	<0.1	640	<1	10	1	73	63	<100	200
DUP-SCRS_117_08	4	162	10	<0.1	720	<1	20	8	101	67	<100	250
SCRS_129_08	3	11	<10	<0.1	2640	<1	640	50	25	25	<100	90
DUP-SCRS_129_08	2	10	<10	<0.1	2480	<1	600	64	26	36	<100	60
SCRS_31_08	4	67	<10	0.1	340	<1	570	11	20	34	<100	160
DUP-SCRS_31_08	3	71	<10	0.1	360	<1	560	9	15	22	<100	110
SCRS_80_08	4	57	<10	1.9	370	<1	370	22	176	721	<100	2450
DUP-SCRS_80_08	3	48	<10	1.6	380	<1	350	14	206	695	<100	2800
SCRS_92_08	1	49	<10	<0.1	190	<1	710	4	28	155	<100	550
DUP-SCRS_92_08	1	51	<10	<0.1	220	<1	680	4	35	201	<100	870
SCRS_137_08	12	27	<10	0.2	310	<1	780	9	26	67	<100	380
DUP-SCRS_137_08	7	27	<10	0.1	260	<1	700	9	24	67	<100	380
SCRS_159_08	2	46	<10	<0.1	190	<1	770	12	<5	<5	<100	30
DUP-SCRS_159_08	1	48	<10	<0.1	120	<1	640	13	<5	<5	<100	20
SCRS_176_08	7	41	<10	<0.1	160	<1	710	6	30	20	<100	120
DUP-SCRS_176_08	6	40	<10	<0.1	130	<1	750	7	20	13	<100	90
SCRS_265_08	<1	76	<10	<0.1	210	<1	710	19	7	37	<100	80
DUP-SCRS_265_08	<1	68	<10	<0.1	190	<1	660	28	6	46	<100	90
555_1_08	16	13	<10	0.2	4280	<1	770	8	<5	220	<100	2840
DUP-555_1_08	13	15	<10	0.1	4000	<1	710	9	<5	216	<100	2930
SCRS_113_08	12	3	<10	0.3	100	<1	390	3	9	71	<100	530
DUP-SCRS_113_08	12	3	<10	0.3	100	<1	380	4	9	117	<100	540
SCRS_171_08	<1	6	<10	<0.1	500	<1	510	26	<5	23	<100	40
DUP-SCRS_171_08	<1	7	<10	<0.1	420	<1	510	20	<5	17	<100	30
SCRS_200_08	<1	239	<10	<0.1	560	2	<10	14	21	83	<100	100

DUP-SCRS_2[illegible]_08	<1	259	<10	<0.1	440	1	<10	11	21	69	<100	[illegible]00
SCRS_217_08	<1	14	10	0.1	1090	<1	410	123	13	199	<100	1580
DUP-SCRS_217_08	<1	10	20	<0.1	1120	<1	410	83	12	149	<100	1320
SCRS_235_08	5	58	<10	0.6	1450	<1	430	26	127	307	<100	2000
DUP-SCRS_235_08	2	57	<10	0.5	1240	<1	390	26	63	281	<100	2340
SCRS_251_08	3	30	10	0.3	800	<1	570	10	161	314	<100	2350
DUP-SCRS_251_08	6	35	<10	0.4	810	<1	570	14	108	229	<100	2650
5552_1_08	<1	34	<10	<0.1	3660	<1	750	5	30	199	<100	1740
DUP-5552_1_08	<1	37	<10	<0.1	2980	<1	660	6	23	151	<100	1420
SCRS_109_08	33	57	<10	0.3	1470	<1	420	52	65	420	<100	640
DUP-SCRS_109_08	28	58	<10	0.3	1460	<1	390	32	54	525	<100	670
SCRS_209_08	2	256	<10	<0.1	180	<1	<10	<1	20	25	<100	490
DUP-SCRS_209_08	3	273	<10	<0.1	180	<1	<10	2	28	38	<100	350
SCRS_243_08	2	129	50	<0.1	2050	2	130	4	92	996	100	1010
DUP-SCRS_243_08	<1	126	30	<0.1	1560	1	110	4	62	1020	100	1060
SCRS_285_08	20	17	<10	<0.1	440	<1	690	10	<5	13	<100	720
DUP-SCRS_285_08	23	13	<10	<0.1	470	<1	700	7	<5	5	<100	640
SCRS_297_08	2	13	<10	0.3	440	<1	680	6	70	266	<100	1070
DUP-SCRS_297_08	5	12	<10	0.4	460	<1	680	5	84	291	<100	1290
SCRS_309_08	<1	37	<10	<0.1	1300	<1	710	3	33	190	<100	1000
DUP-SCRS_309_08	1	42	<10	0.1	1490	<1	670	6	41	154	<100	1550

Replicate Analyses of MMI Standard MMISRM16

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
MMISRM16	18	57	20	29.5	80	<1	240	4	26	67	<100	670
MMISRM16	20	59	20	32.2	60	<1	240	4	20	75	<100	710
MMISRM16	20	62	20	32.2	60	<1	250	4	21	80	<100	720
MMISRM16	19	50	20	31.5	70	<1	200	4	23	68	<100	690
MMISRM16	20	51	20	30.8	70	<1	200	4	24	66	<100	690
MMISRM16	21	52	20	34.9	70	<1	200	5	22	67	<100	700
MMISRM16	17	43	10	27.1	30	<1	280	3	10	51	<100	550
MMISRM16	16	47	20	25.8	50	<1	280	3	11	56	<100	600
MMISRM16	16	49	10	26	160	<1	280	3	14	55	<100	600
MMISRM16	19	41	10	27.1	30	<1	210	4	16	52	<100	540
MMISRM16	19	43	10	28	40	<1	200	4	16	52	<100	550
MMISRM16	17	63	20	28.2	90	<1	250	5	27	77	<100	700
MMISRM16	17	59	20	28.4	90	<1	240	5	27	77	<100	730

Recommended Values For The MMI Standard MMISRM16												
ANALYTE	**Ag**	**Al**	**As**	**Au**	**Ba**	**Bi**	**Ca**	**Cd**	**Ce**	**Co**	**Cr**	**Cu**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**1**	**10**	**0.1**	**10**	**1**	**10**	**1**	**5**	**5**	**100**	**10**
UNITS	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	17	45	10	31.9	65	<1	209	4	13	58	<100	629
Replicate Analyses of the Analytical Blank												
ANALYTE	**Ag**	**Al**	**As**	**Au**	**Ba**	**Bi**	**Ca**	**Cd**	**Ce**	**Co**	**Cr**	**Cu**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**1**	**10**	**0.1**	**10**	**1**	**10**	**1**	**5**	**5**	**100**	**10**
UNITS	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	2	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	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	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
UNITS	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB
CHYS_545_08	187	115	38.7	44	191	391	7	92	<5	<0.5	576	3400
DUP-CHYS_545_08	177	107	39.8	36	195	438	7	90	<5	<0.5	615	3130
SCRS_12_08	12	5.9	2.8	437	12	41	<5	12	<5	2.3	49	722
DUP-SCRS_12_08	9	5	2.1	441	10	31	<5	13	<5	2.8	37	591
SCRS_24_08	15	6.6	5.3	43	23	43	<5	16	14	1.4	88	580
DUP-SCRS_24_08	12	5.8	4.6	40	19	36	<5	15	9	1.1	76	438
SCRS_48_08	10	4.1	2.7	6	16	2	<5	17	<5	<0.5	21	130
DUP-SCRS_48_08	10	4.1	2.5	5	15	2	<5	17	<5	<0.5	19	126
SCRS_55_08	12	7.4	3.1	18	15	15	<5	10	<5	<0.5	38	216
DUP-SCRS_55_08	14	8.1	3.8	28	18	24	<5	9	<5	<0.5	54	214
SCRS_68_08	4	1.9	1.1	8	5	3	<5	2	<5	<0.5	11	139
DUP-SCRS_68_08	4	2.1	1.1	8	5	4	<5	3	<5	<0.5	12	161
SCRS_98_08	18	7.2	6	17	24	21	<5	3	<5	<0.5	50	59
DUP-SCRS_98_08	24	10.8	7.9	22	31	29	<5	3	<5	<0.5	67	70
SCRS_117_08	9	6.4	2	315	9	29	<5	1	<5	2.5	31	119
DUP-SCRS_117_08	21	15.6	3.2	315	13	40	<5	1	<5	3	44	160
SCRS_129_08	10	5.1	2.6	13	12	10	<5	48	<5	<0.5	24	284
DUP-SCRS_129_08	12	6.4	2.7	11	13	9	<5	55	<5	<0.5	21	240
SCRS_31_08	5	2.6	1.5	16	7	10	<5	2	<5	<0.5	19	84
DUP-SCRS_31_08	4	2.5	1.4	13	7	9	<5	2	<5	<0.5	19	73
SCRS_80_08	16	8.4	4.5	201	20	35	<5	19	<5	<0.5	64	601
DUP-SCRS_80_08	16	9.1	4.8	234	22	40	<5	17	<5	<0.5	69	547
SCRS_92_08	3	2.2	0.9	42	5	10	<5	5	7	<0.5	16	207
DUP-SCRS_92_08	4	2.4	1.2	55	6	12	<5	5	7	0.5	21	228
SCRS_137_08	4	2.1	1.2	28	5	7	<5	30	<5	<0.5	14	397
DUP-SCRS_137_08	4	2.1	1	34	5	7	<5	30	<5	<0.5	13	359
SCRS_159_08	<1	0.6	<0.5	7	1	1	<5	35	<5	<0.5	3	72
DUP-SCRS_159_08	<1	<0.5	<0.5	6	<1	<1	<5	36	<5	<0.5	1	59
SCRS_176_08	13	6.2	3.7	12	21	14	<5	38	<5	<0.5	41	155
DUP-SCRS_176_08	11	4.6	3	11	18	10	<5	34	<5	<0.5	34	141
SCRS_265_08	3	2.1	0.6	45	3	3	<5	17	<5	<0.5	6	96
DUP-SCRS_265_08	3	2.1	<0.5	61	3	2	<5	17	<5	<0.5	4	73
555_1_08	3	2.8	<0.5	18	2	<1	<5	6	8	<0.5	<1	1060
DUP-555_1_08	3	2.6	<0.5	19	3	<1	<5	6	8	<0.5	<1	1130
SCRS_113_08	2	1	<0.5	11	3	2	<5	14	<5	<0.5	4	792
DUP-SCRS_113_08	3	1.2	<0.5	11	3	2	<5	14	<5	<0.5	5	837
SCRS_171_08	5	5	0.6	12	3	1	<5	12	<5	<0.5	4	53
DUP-SCRS_171_08	5	4	0.5	10	3	2	<5	10	<5	<0.5	4	57
SCRS_200_08	4	3.2	0.6	128	3	11	<5	1	<5	7.2	9	67

DUP-SCRS_2[illegible]_08	3	3.2	0.6	121	2	12	<5	1	<5	6.8	8	51
SCRS_217_08	2	1.2	0.8	45	3	5	<5	96	36	<0.5	10	1420
DUP-SCRS_217_08	1	0.8	0.6	45	3	5	<5	93	31	<0.5	9	1170
SCRS_235_08	31	14.5	8.1	118	39	47	12	47	<5	0.6	102	568
DUP-SCRS_235_08	19	9.1	4.2	162	22	23	11	42	<5	0.7	51	506
SCRS_251_08	21	11.4	5.6	118	29	59	<5	20	6	0.7	105	464
DUP-SCRS_251_08	15	7.8	3.9	100	21	38	<5	20	6	1	75	450
5552_1_08	3	1.9	0.7	62	4	15	<5	14	23	0.6	18	1340
DUP-5552_1_08	2	1.6	0.6	42	3	11	<5	13	21	0.6	14	915
SCRS_109_08	19	10.1	3.8	68	21	24	7	103	<5	<0.5	45	4520
DUP-SCRS_109_08	12	6.4	2.7	49	14	18	8	99	<5	<0.5	34	3340
SCRS_209_08	4	2.4	0.8	54	4	9	6	<1	<5	1	10	126
DUP-SCRS_209_08	12	6.5	1.6	42	8	11	6	<1	<5	1	16	120
SCRS_243_08	20	8.3	6.4	175	33	26	5	32	6	4.1	59	210
DUP-SCRS_243_08	16	6.6	4.7	181	24	18	5	29	6	2.7	41	239
SCRS_285_08	7	3.8	1.1	9	7	<1	<5	7	<5	<0.5	2	92
DUP-SCRS_285_08	5	2.4	0.9	7	5	<1	<5	7	<5	<0.5	2	67
SCRS_297_08	11	5.5	2.7	93	15	23	<5	30	<5	<0.5	56	665
DUP-SCRS_297_08	12	6.8	3.1	105	17	30	<5	28	<5	<0.5	66	773
SCRS_309_08	4	2.4	1	71	5	11	<5	28	<5	0.8	18	179
DUP-SCRS_309_08	5	3.1	1.2	85	6	13	<5	28	<5	1.1	21	183
Replicate Analyses o												
ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	3	1	1.2	3	6	6	<5	39	48	<0.5	20	246
MMISRM16	2	1	1.1	3	5	5	<5	40	53	<0.5	16	290
MMISRM16	3	1.1	1.1	3	5	5	<5	43	53	<0.5	16	300
MMISRM16	3	1	1.3	3	6	6	<5	40	56	<0.5	20	271
MMISRM16	3	0.9	1.2	3	5	6	<5	41	56	<0.5	19	237
MMISRM16	3	1.2	1.3	3	6	5	<5	40	57	<0.5	19	261
MMISRM16	2	0.7	0.7	3	3	2	<5	41	38	<0.5	10	190
MMISRM16	2	0.9	0.7	4	4	3	<5	39	40	<0.5	11	212
MMISRM16	2	0.8	0.8	3	4	4	<5	41	40	<0.5	12	212
MMISRM16	2	0.9	1	2	5	4	<5	33	55	<0.5	14	178
MMISRM16	2	0.8	1.1	2	4	4	<5	33	54	<0.5	14	188
MMISRM16	4	1.3	1.6	4	7	7	<5	39	55	<0.5	24	288
MMISRM16	4	1.4	1.7	4	7	8	<5	39	57	<0.5	24	292

Recommended Value												
ANALYTE	**Dy**	**Er**	**Eu**	**Fe**	**Gd**	**La**	**Li**	**Mg**	**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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	2.7	1	1.5	2	<1	6	2	36	51	<0.5	17	250
Replicate Analyses of												
ANALYTE	**Dy**	**Er**	**Eu**	**Fe**	**Gd**	**La**	**Li**	**Mg**	**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**	**MMI-M5**	**MMI-M5**
DETECTION	**1**	**0.5**	**0.5**	**1**	**1**	**1**	**5**	**1**	**5**	**0.5**	**1**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPM**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<1	<0.5	<0.5	<1	<1	<1	5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	1	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	3	<1	1	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	<1	<1	2	<5	<1	<5	<0.5	1	<5
BLANK	<1	<0.5	<0.5	1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	2	<1	<1	<5	<1	<5	<0.5	<1	5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	1	5	1	5	1	1	10	1	1
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	630	<1	132	<1	167	<1	129	143	<1	3430	<1	32
DUP-CHYS_545_08	560	<1	142	<1	162	<1	119	155	<1	3420	<1	31
SCRS_12_08	30	<1	12	<1	41	<1	29	11	<1	510	<1	2
DUP-SCRS_12_08	30	<1	9	<1	44	<1	28	8	<1	510	<1	2
SCRS_24_08	90	<1	19	<1	11	2	8	22	<1	3530	<1	3
DUP-SCRS_24_08	60	<1	16	<1	9	1	6	18	<1	3490	<1	3
SCRS_48_08	20	<1	2	<1	28	<1	<5	10	<1	1420	<1	2
DUP-SCRS_48_08	20	<1	2	<1	36	<1	<5	10	<1	1380	<1	2
SCRS_55_08	20	<1	7	<1	63	<1	13	11	<1	3550	<1	2
DUP-SCRS_55_08	20	<1	10	<1	50	<1	14	14	<1	3480	<1	2
SCRS_68_08	10	<1	2	<1	10	<1	<5	4	<1	990	<1	<1
DUP-SCRS_68_08	<10	<1	2	<1	12	<1	<5	4	<1	1160	<1	<1
SCRS_98_08	30	<1	9	<1	51	<1	10	18	<1	2110	<1	3
DUP-SCRS_98_08	50	<1	13	<1	56	<1	15	23	<1	1570	<1	4
SCRS_117_08	20	<1	7	<1	101	<1	29	7	<1	120	<1	1
DUP-SCRS_117_08	50	<1	11	<1	83	<1	42	11	<1	140	<1	3
SCRS_129_08	80	<1	4	<1	17	<1	12	8	<1	1460	<1	2
DUP-SCRS_129_08	100	<1	4	<1	22	<1	12	8	<1	1430	<1	2
SCRS_31_08	30	<1	4	<1	23	<1	5	5	<1	1200	<1	<1
DUP-SCRS_31_08	30	<1	3	<1	23	<1	<5	5	<1	1200	<1	<1
SCRS_80_08	50	<1	14	<1	21	<1	50	16	<1	1150	<1	3
DUP-SCRS_80_08	60	<1	15	<1	20	<1	43	16	<1	1000	<1	3
SCRS_92_08	<10	<1	4	<1	5	<1	<5	4	<1	2270	<1	<1
DUP-SCRS_92_08	<10	<1	4	<1	<5	<1	6	4	<1	2230	<1	<1
SCRS_137_08	10	<1	3	<1	13	<1	<5	4	<1	1230	<1	<1
DUP-SCRS_137_08	20	<1	2	<1	11	<1	<5	3	<1	1160	<1	<1
SCRS_159_08	20	<1	<1	<1	8	<1	<5	<1	<1	1110	<1	<1
DUP-SCRS_159_08	20	<1	<1	<1	6	<1	<5	<1	<1	940	<1	<1
SCRS_176_08	<10	<1	7	<1	46	<1	18	15	<1	370	<1	3
DUP-SCRS_176_08	<10	<1	5	<1	55	<1	<5	12	<1	360	<1	2
SCRS_265_08	70	<1	1	<1	<5	<1	8	2	<1	1260	<1	<1
DUP-SCRS_265_08	80	<1	<1	<1	<5	<1	9	1	<1	1120	<1	<1
555_1_08	20	<1	<1	<1	8	1	6	<1	<1	3560	<1	<1
DUP-555_1_08	20	<1	<1	<1	11	1	<5	<1	<1	3320	<1	<1
SCRS_113_08	<10	<1	<1	<1	11	<1	10	2	<1	640	<1	<1
DUP-SCRS_113_08	<10	<1	<1	<1	10	<1	12	2	<1	640	<1	<1
SCRS_171_08	50	<1	<1	<1	51	<1	12	2	<1	2980	<1	<1
DUP-SCRS_171_08	40	<1	<1	<1	57	<1	21	2	<1	3020	<1	<1
SCRS_200_08	200	<1	2	<1	39	<1	22	2	<1	60	<1	<1

DUP-SCRS_2 _08	200	<1	2	<1	53	<1	19	2	<1	50	<1	<1
SCRS_217_08	20	<1	2	<1	<5	7	10	2	<1	1860	<1	<1
DUP-SCRS_217_08	20	<1	2	<1	<5	6	5	2	<1	1800	<1	<1
SCRS_235_08	130	<1	20	<1	15	1	51	31	<1	1650	<1	6
DUP-SCRS_235_08	120	<1	11	<1	12	1	51	16	<1	1510	<1	3
SCRS_251_08	50	<1	22	<1	13	2	39	26	<1	2420	<1	4
DUP-SCRS_251_08	50	<1	15	<1	10	2	34	18	<1	2400	<1	3
5552_1_08	30	<1	4	<1	8	<1	<5	3	<1	2850	<1	<1
DUP-5552_1_08	30	<1	3	<1	8	<1	<5	3	<1	2460	<1	<1
SCRS_109_08	40	<1	10	<1	19	1	26	14	<1	930	<1	4
DUP-SCRS_109_08	40	<1	7	<1	18	<1	17	10	<1	870	<1	2
SCRS_209_08	60	<1	2	<1	102	<1	14	3	<1	20	<1	<1
DUP-SCRS_209_08	220	<1	4	<1	108	<1	22	5	<1	10	<1	2
SCRS_243_08	60	<1	12	<1	155	1	44	24	<1	410	<1	5
DUP-SCRS_243_08	40	<1	8	<1	167	<1	40	17	<1	400	<1	3
SCRS_285_08	30	<1	<1	<1	25	<1	6	3	<1	3980	<1	1
DUP-SCRS_285_08	20	<1	<1	<1	36	<1	5	2	<1	3540	<1	<1
SCRS_297_08	30	<1	12	<1	10	<1	13	15	<1	1720	<1	2
DUP-SCRS_297_08	40	<1	14	<1	16	<1	16	16	<1	1660	<1	2
SCRS_309_08	<10	<1	4	<1	17	<1	18	4	<1	1260	<1	<1
DUP-SCRS_309_08	10	<1	5	<1	13	<1	26	5	<1	1250	<1	<1

Replicate Analyses o

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	1	5	1	5	1	1	10	1	1
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
MMISRM16	120	29	4	<1	354	<1	12	6	<1	500	<1	<1
MMISRM16	120	29	3	<1	343	<1	12	5	<1	480	<1	<1
MMISRM16	130	28	3	<1	347	<1	12	5	<1	480	<1	<1
MMISRM16	120	29	3	<1	367	<1	19	6	<1	560	<1	<1
MMISRM16	110	27	3	<1	385	<1	9	6	<1	580	<1	<1
MMISRM16	120	29	3	<1	366	<1	14	6	<1	550	<1	<1
MMISRM16	70	21	2	<1	318	<1	9	3	<1	520	<1	<1
MMISRM16	80	20	2	<1	332	<1	10	3	<1	530	<1	<1
MMISRM16	80	20	2	<1	325	<1	10	3	<1	540	<1	<1
MMISRM16	100	25	2	<1	312	<1	12	4	<1	470	<1	<1
MMISRM16	100	26	2	<1	311	<1	12	4	<1	450	<1	<1
MMISRM16	150	29	4	<1	378	<1	16	7	<1	510	<1	<1
MMISRM16	150	31	4	<1	380	<1	15	7	<1	520	<1	<1

Recommended Value												
ANALYTE	**Pb**	**Pd**	**Pr**	**Pt**	**Rb**	**Sb**	**Sc**	**Sm**	**Sn**	**Sr**	**Ta**	**Tb**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**1**	**1**	**1**	**5**	**1**	**5**	**1**	**1**	**10**	**1**	**1**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	100	26	3	300	<1	13	5	1.7	503	<1	<1	<10
Replicate Analyses o												
ANALYTE	**Pb**	**Pd**	**Pr**	**Pt**	**Rb**	**Sb**	**Sc**	**Sm**	**Sn**	**Sr**	**Ta**	**Tb**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**1**	**1**	**1**	**5**	**1**	**5**	**1**	**1**	**10**	**1**	**1**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1
BLANK	<10	<1	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1

ANALYTE	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	0.5	3	0.5	1	1	5	1	20	5
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
CHYS_545_08	<10	175	9	4.5	71	<1	1160	87	440	216
DUP-CHYS_545_08	<10	156	11	4.3	69	<1	1080	80	370	227
SCRS_12_08	<10	16.5	749	<0.5	6	<1	47	4	160	26
DUP-SCRS_12_08	<10	15.7	879	<0.5	6	<1	36	4	140	26
SCRS_24_08	<10	22.8	46	<0.5	9	<1	80	5	120	14
DUP-SCRS_24_08	<10	16.1	36	<0.5	8	<1	71	5	150	10
SCRS_48_08	<10	3.9	7	<0.5	3	<1	60	3	120	<5
DUP-SCRS_48_08	<10	4.2	4	<0.5	3	<1	57	3	180	<5
SCRS_55_08	<10	10.9	8	<0.5	8	<1	79	6	60	14
DUP-SCRS_55_08	<10	10.8	13	<0.5	8	<1	89	7	90	13
SCRS_68_08	<10	2.8	3	<0.5	2	<1	23	1	110	<5
DUP-SCRS_68_08	<10	2.7	4	<0.5	2	<1	24	2	180	<5
SCRS_98_08	<10	11.1	11	<0.5	10	<1	77	5	70	14
DUP-SCRS_98_08	<10	13	33	<0.5	12	<1	108	7	140	18
SCRS_117_08	<10	49.9	630	<0.5	5	<1	42	6	180	56
DUP-SCRS_117_08	<10	64.4	745	<0.5	6	<1	104	13	290	69
SCRS_129_08	<10	16.8	8	<0.5	8	<1	54	4	100	5
DUP-SCRS_129_08	<10	15.9	6	<0.5	5	<1	60	4	100	6
SCRS_31_08	<10	1.9	10	<0.5	6	<1	37	2	90	<5
DUP-SCRS_31_08	<10	1.9	5	<0.5	6	<1	37	2	70	<5
SCRS_80_08	<10	19.8	48	<0.5	22	<1	95	8	320	26
DUP-SCRS_80_08	<10	22.2	68	<0.5	21	<1	96	9	230	27
SCRS_92_08	<10	2.9	27	<0.5	8	<1	31	2	310	<5
DUP-SCRS_92_08	<10	3.4	34	<0.5	9	<1	39	3	330	5
SCRS_137_08	<10	3.9	6	<0.5	11	<1	34	2	50	<5
DUP-SCRS_137_08	<10	3.3	5	<0.5	11	<1	32	2	60	<5
SCRS_159_08	<10	1.1	7	<0.5	3	<1	8	<1	110	<5
DUP-SCRS_159_08	<10	0.6	6	<0.5	2	<1	6	<1	130	<5
SCRS_176_08	<10	10.5	37	<0.5	10	<1	100	5	40	13
DUP-SCRS_176_08	<10	9.7	32	<0.5	10	<1	79	3	60	13
SCRS_265_08	<10	1	35	<0.5	25	<1	34	2	320	6
DUP-SCRS_265_08	<10	0.9	60	<0.5	20	<1	26	1	280	5
555_1_08	<10	4	<3	1.1	8	<1	22	3	30	<5
DUP-555_1_08	<10	3.7	<3	0.9	9	<1	21	3	40	<5
SCRS_113_08	<10	1.7	11	<0.5	1	<1	16	<1	50	<5
DUP-SCRS_113_08	<10	1.7	6	<0.5	2	<1	18	1	60	<5
SCRS_171_08	<10	0.9	20	<0.5	3	<1	40	4	670	<5
DUP-SCRS_171_08	<10	0.8	35	<0.5	3	<1	38	3	470	<5
SCRS_200_08	<10	17.9	1560	<0.5	6	1	19	3	330	116

DUP-SCRS_2[illegible]_08	<10	16.8	1540	<0.5	5	<1	18	4	360	114
SCRS_217_08	<10	0.9	18	<0.5	32	<1	15	1	2920	<5
DUP-SCRS_217_08	<10	0.8	36	<0.5	25	<1	11	<1	2910	<5
SCRS_235_08	<10	11.9	70	<0.5	32	<1	191	11	420	22
DUP-SCRS_235_08	<10	9.8	108	<0.5	30	<1	117	8	420	20
SCRS_251_08	<10	19.5	44	<0.5	18	<1	139	9	130	24
DUP-SCRS_251_08	<10	13.3	45	<0.5	19	<1	106	7	110	22
5552_1_08	<10	2.4	14	<0.5	26	<1	23	2	30	<5
DUP-5552_1_08	<10	1.6	14	<0.5	34	<1	19	2	40	<5
SCRS_109_08	<10	7.2	14	<0.5	91	<1	136	8	290	20
DUP-SCRS_109_08	<10	6.7	13	<0.5	43	<1	78	5	230	17
SCRS_209_08	<10	16.7	369	<0.5	6	<1	14	2	400	38
DUP-SCRS_209_08	<10	20	344	<0.5	8	<1	48	4	580	48
SCRS_243_08	<10	36.5	1920	0.6	16	1	87	6	1510	94
DUP-SCRS_243_08	<10	27	1080	0.5	16	<1	68	5	2530	76
SCRS_285_08	<10	2.9	<3	<0.5	4	<1	42	3	90	<5
DUP-SCRS_285_08	<10	1.8	<3	<0.5	4	<1	31	2	50	<5
SCRS_297_08	<10	15.2	8	<0.5	9	<1	77	5	130	<5
DUP-SCRS_297_08	<10	16.9	12	<0.5	10	<1	92	6	130	6
SCRS_309_08	<10	2.9	43	<0.5	9	<1	30	2	30	7
DUP-SCRS_309_08	<10	3.2	61	<0.5	12	<1	38	3	40	8
Replicate Analyses of										
ANALYTE	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	0.5	3	0.5	1	1	5	1	20	5
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
MMISRM16	<10	30.1	4	<0.5	48	<1	12	<1	250	15
MMISRM16	<10	24.4	<3	<0.5	47	<1	11	<1	220	12
MMISRM16	<10	24.7	4	<0.5	48	<1	11	<1	230	12
MMISRM16	<10	25.9	9	<0.5	46	<1	11	<1	250	14
MMISRM16	<10	27.4	3	<0.5	45	<1	11	<1	250	15
MMISRM16	<10	25.4	<3	<0.5	44	<1	11	<1	270	20
MMISRM16	<10	19.7	<3	<0.5	38	<1	8	<1	270	12
MMISRM16	<10	22.6	<3	<0.5	41	<1	11	<1	210	14
MMISRM16	<10	22.2	3	<0.5	41	<1	11	<1	200	14
MMISRM16	<10	31.2	3	<0.5	45	<1	9	<1	180	13
MMISRM16	<10	32.3	3	<0.5	45	<1	9	<1	180	13
MMISRM16	<10	34.1	6	<0.5	54	<1	14	<1	250	18
MMISRM16	<10	34.5	5	<0.5	56	<1	15	1	250	18

Recommended Value										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
MMISRM16	22	7	<0.5	45	<1	10	<1	306	15	
Replicate Analyses o										
ANALYTE	**Te**	**Th**	**Ti**	**Tl**	**U**	**W**	**Y**	**Yb**	**Zn**	**Zr**
METHOD	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**	**MMI-M5**
DETECTION	**10**	**0.5**	**3**	**0.5**	**1**	**1**	**5**	**1**	**20**	**5**
UNITS	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**	**PPB**
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	5	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	6
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	6
BLANK	<10	<0.5	4	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5

		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
	Mean	8.082	6.816	0.182	0.622	948.272	122.207	465.791
	Min	0.500	0.500	0.050	0.500	0.500	0.500	10.000
	Maximum	265.000	100.000	3.800	19.000	12300.000	4350.000	6730.000
	Std Dev	19.337	13.983	0.325	1.047	1265.254	348.741	760.024
Percentile	25	**0.500**	**0.500**	**0.050**	**0.500**	**160.000**	**20.000**	**105.000**

	Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Background Value (Avg of <= 1st quartile)	0.5	0.5	0.05	0.5	70.011236	11.436937	57.02381

Shell Creek - A Horizon

		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Percentile	**Mean**	4.040	3.420	0.083	0.550	367.510	161.565	786.300
	Min	0.500	0.500	0.050	0.500	0.500	0.500	10.000
	Maximum	106.000	70.000	1.100	2.000	4070.000	4350.000	4700.000
	Std Dev	14.002	8.973	0.129	0.260	617.068	590.185	988.817
	25	**0.500**	**0.500**	**0.050**	**0.500**	**30.000**	**20.000**	**177.500**

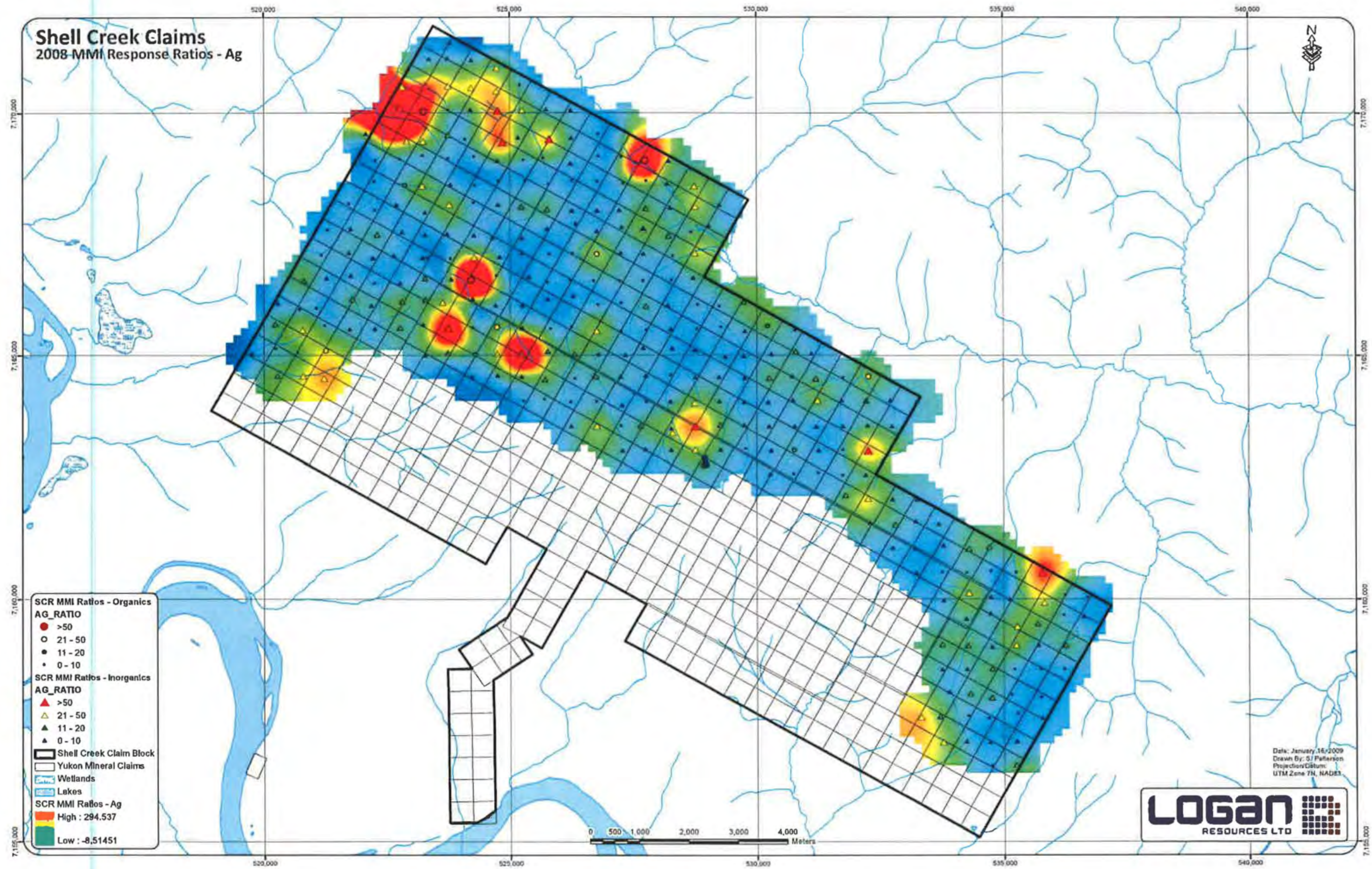
Background Value (Avg of <= 1st quartile)	0.5	0.5	0.05	0.5	23	10.828125	106.8

Shell Creek - B Horizon

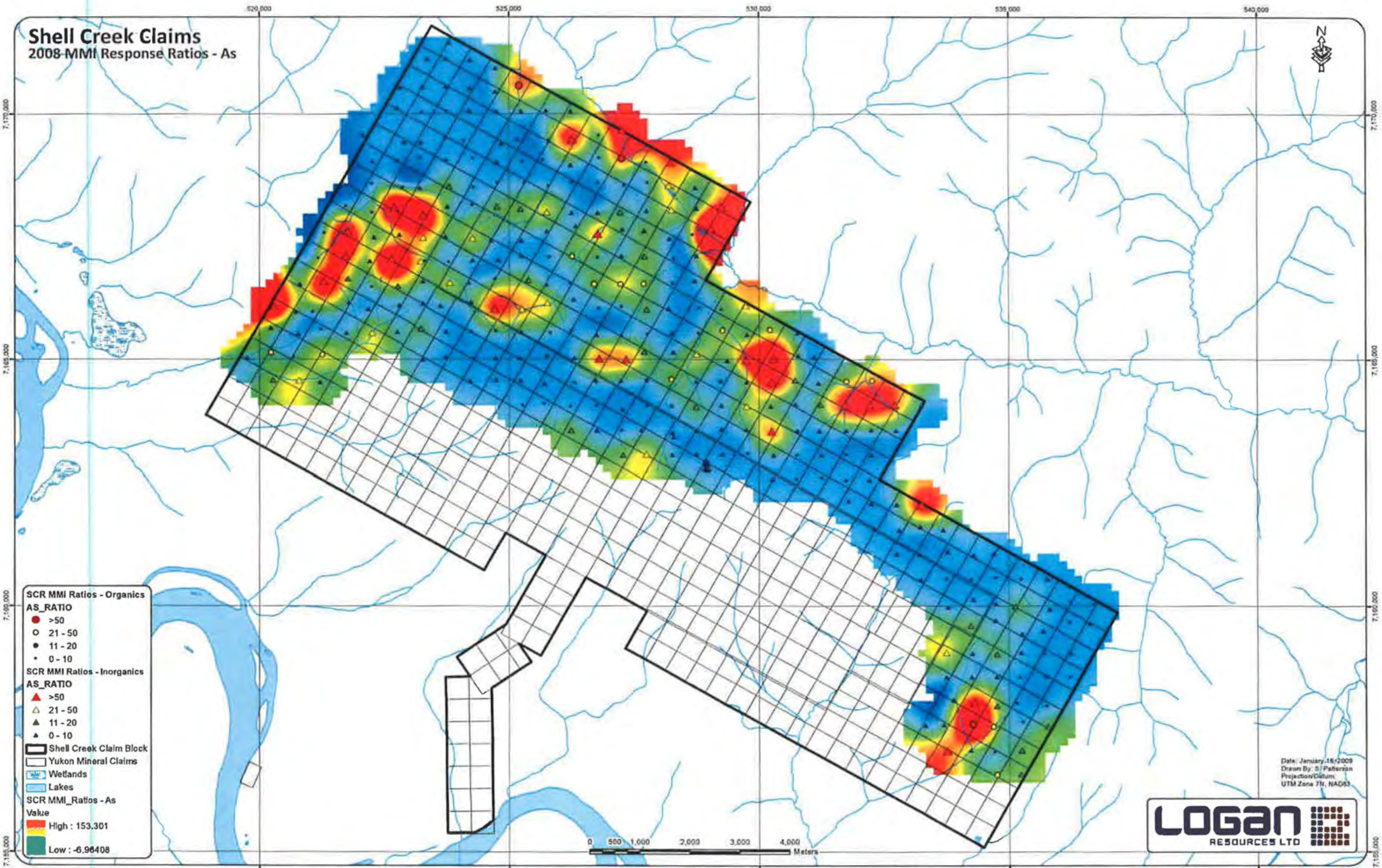
		Ag_ppb	As_ppb	Au_ppb	Bi_ppb	Cu_ppb	Pb_ppb	Zn_ppb
Percentile	Mean	9.802	8.262	0.223	0.653	1195.404	105.460	329.404
	Min	0.500	0.500	0.050	0.500	20.000	0.500	10.000
	Maximum	265.000	100.000	3.800	19.000	12300.000	1320.000	6730.000
	Std Dev	20.969	15.409	0.371	1.237	1384.001	155.609	587.415
	25	**1.500**	**0.500**	**0.050**	**0.500**	**290.000**	**20.000**	**80.000**

Background Value (Avg of <= 1st quartile)	0.6695	0.5000	0.0500	0.5000	166.7213	11.6835	47.3333

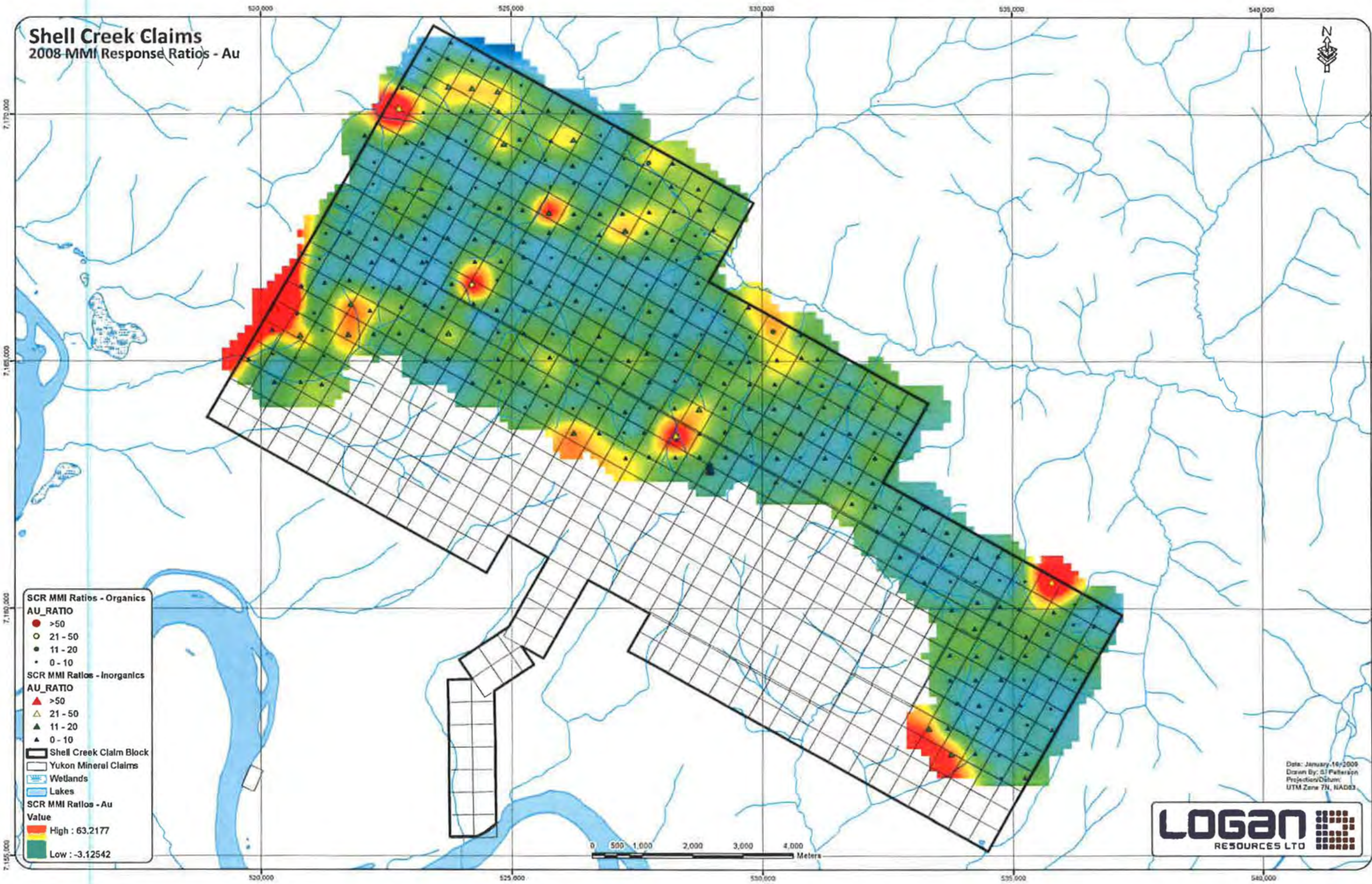
APPENDIX 3



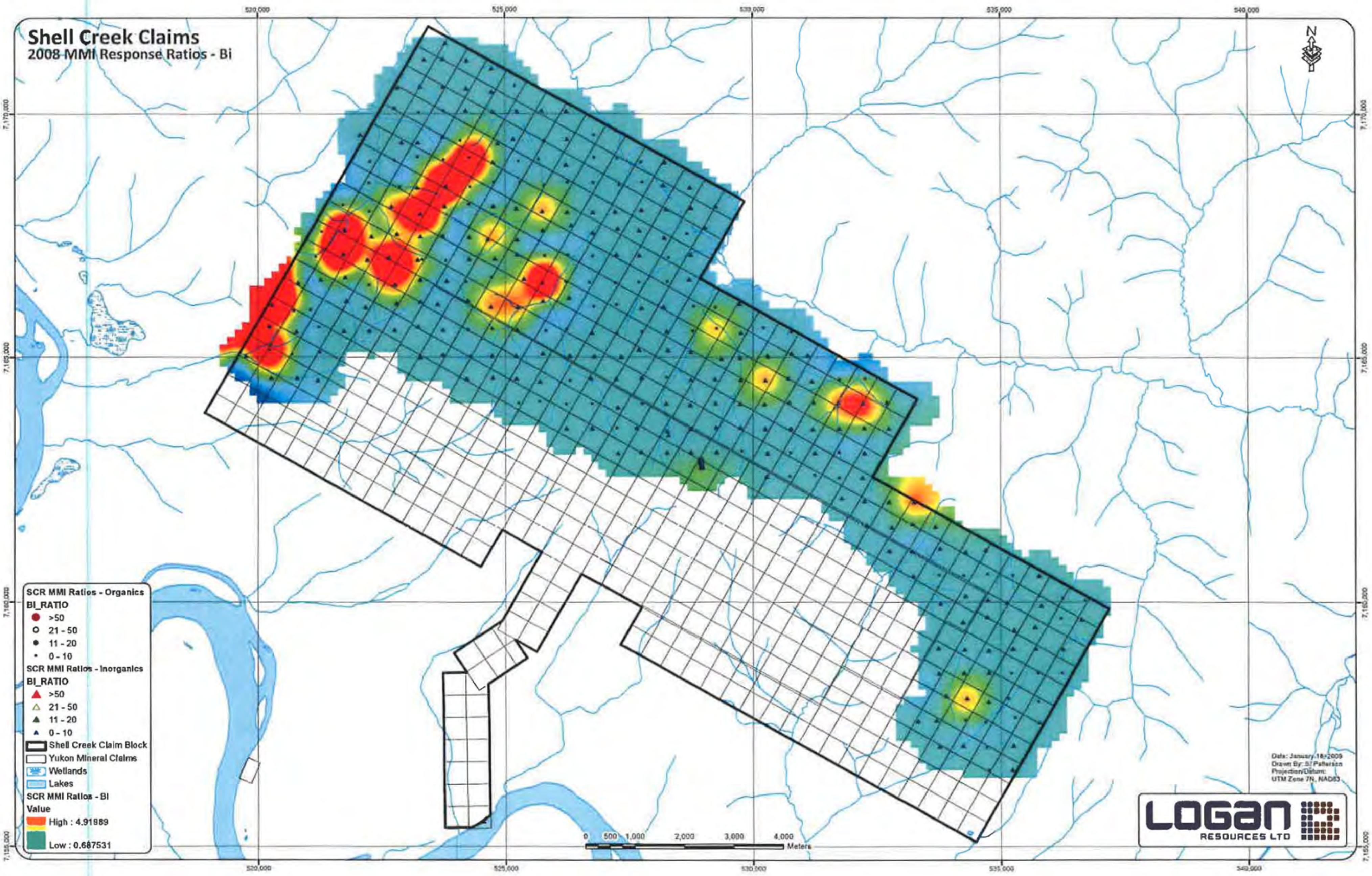
Shell Creek Claims
2008 MMI Response Ratios - Ag
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
AG_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AG_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Ag
High : 294.537
Low : -8.51451
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



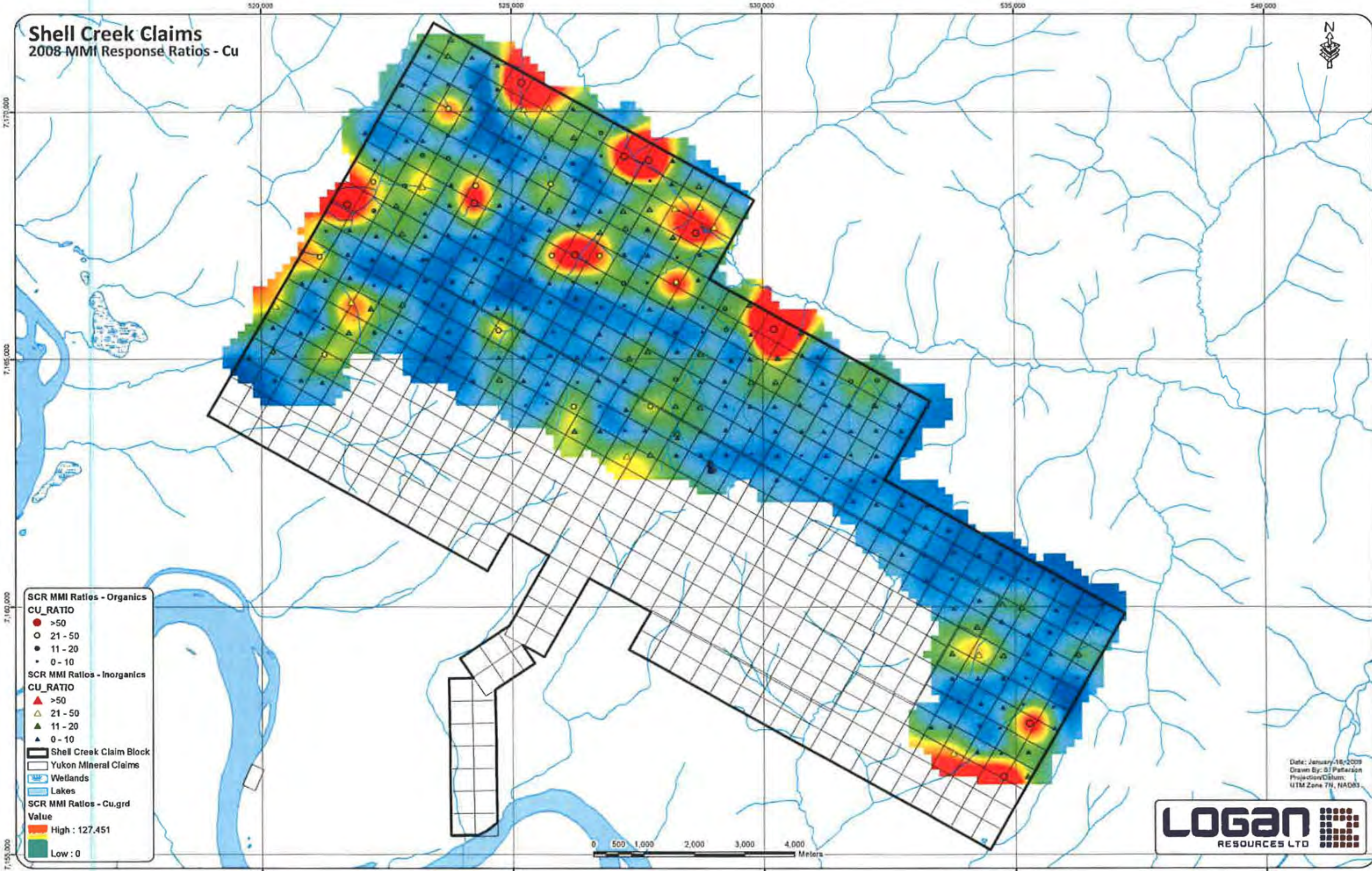
Shell Creek Claims
2008 MMI Response Ratios - As
SCR MMI Ratios - Organics
AS_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AS_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI_Ratios - As
Value
High : 153.301
Low : -6.96408
0 500 1,000 2,000 3,000 4,000 Meters
Date: January 15 2009
Drawn By: S Patterson
Projection/Datum:
UTM Zone 7N, NAD83
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
N

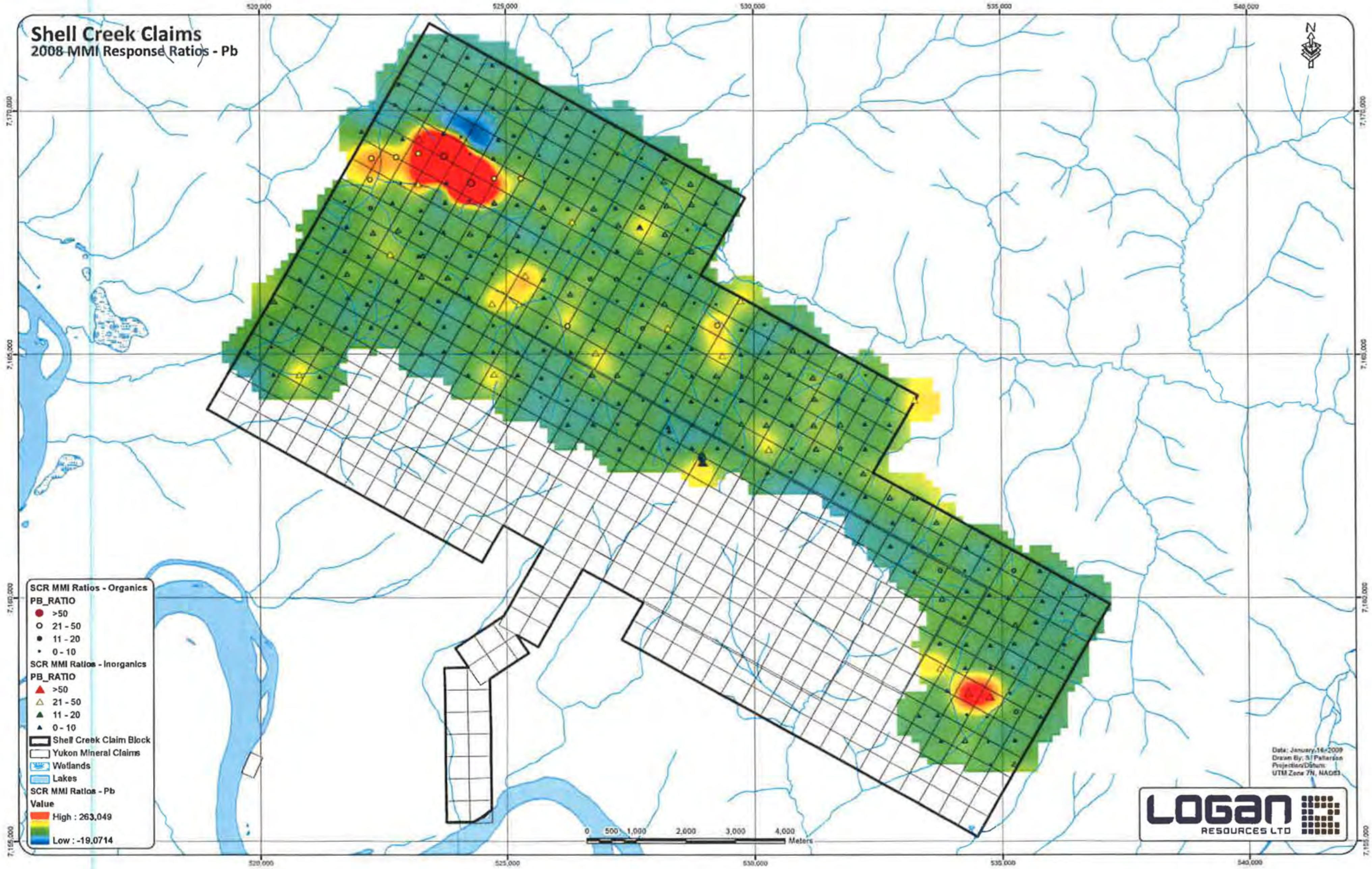


Shell Creek Claims
2008 MMI Response Ratios - Au
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
AU_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
AU_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Au
Value
High : 63.2177
Low : -3.12542
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

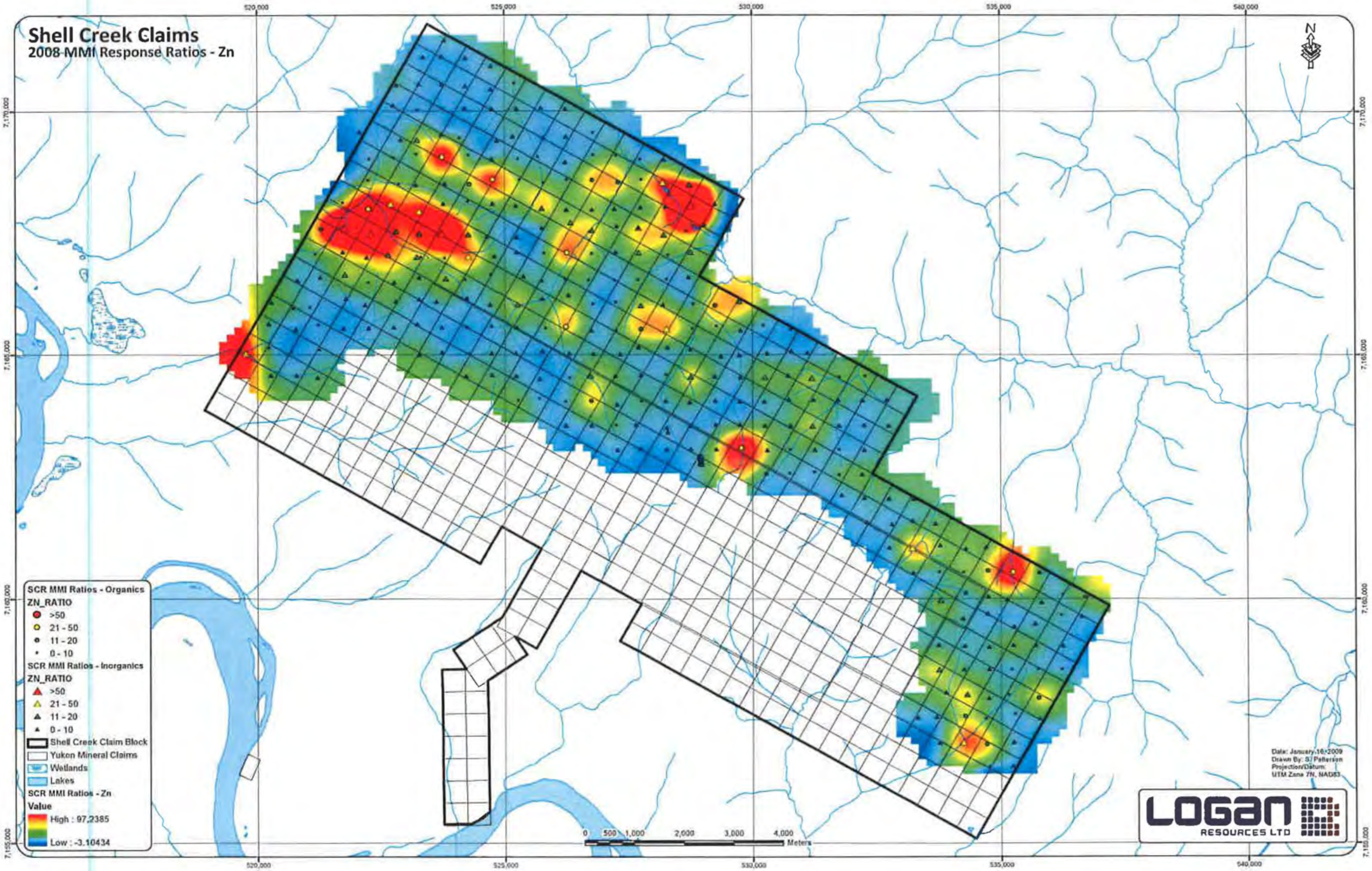


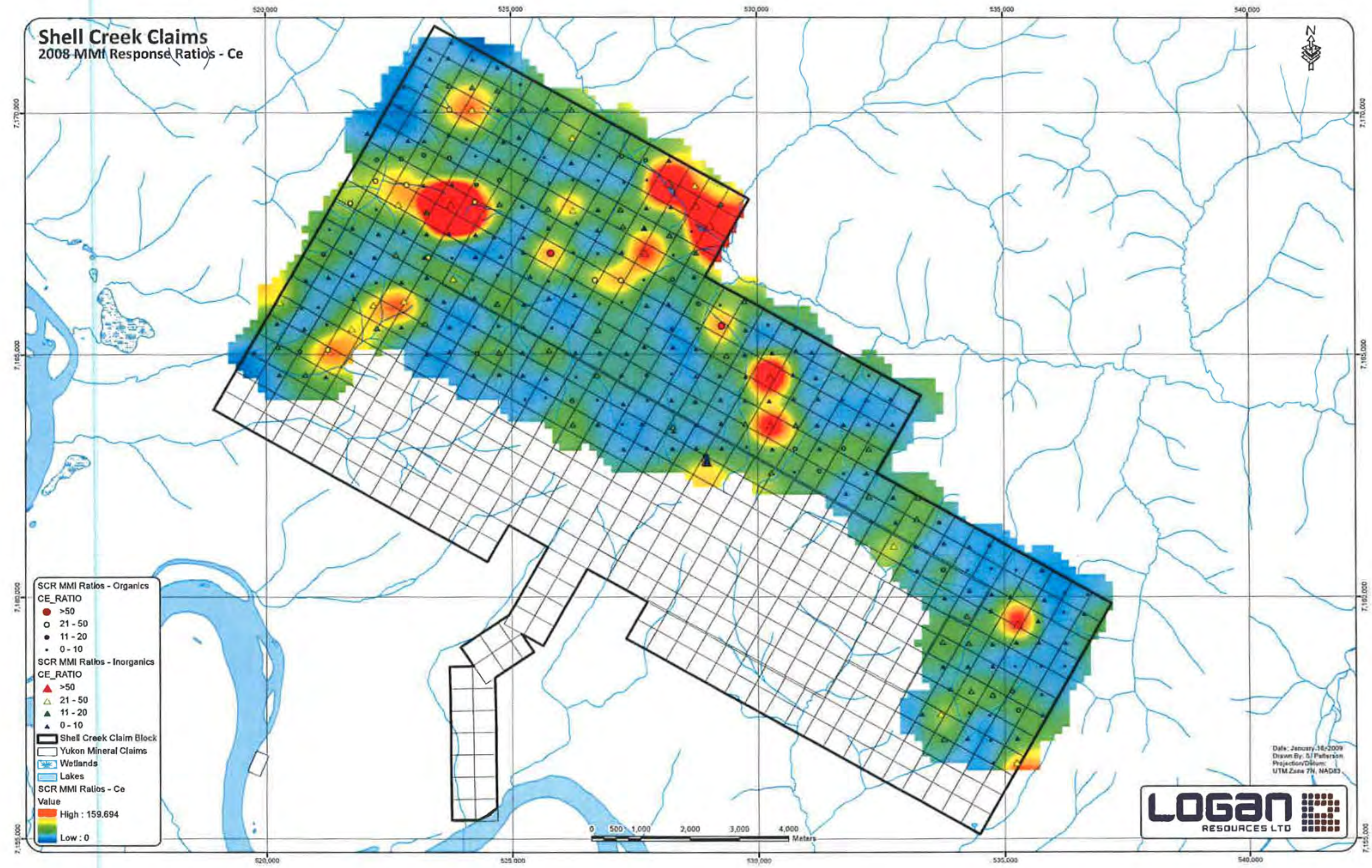
Shell Creek Claims
2008 MMI Response Ratios - Bi
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
BI_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
BI_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Bi
Value
High : 4.91889
Low : 0.687531
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD

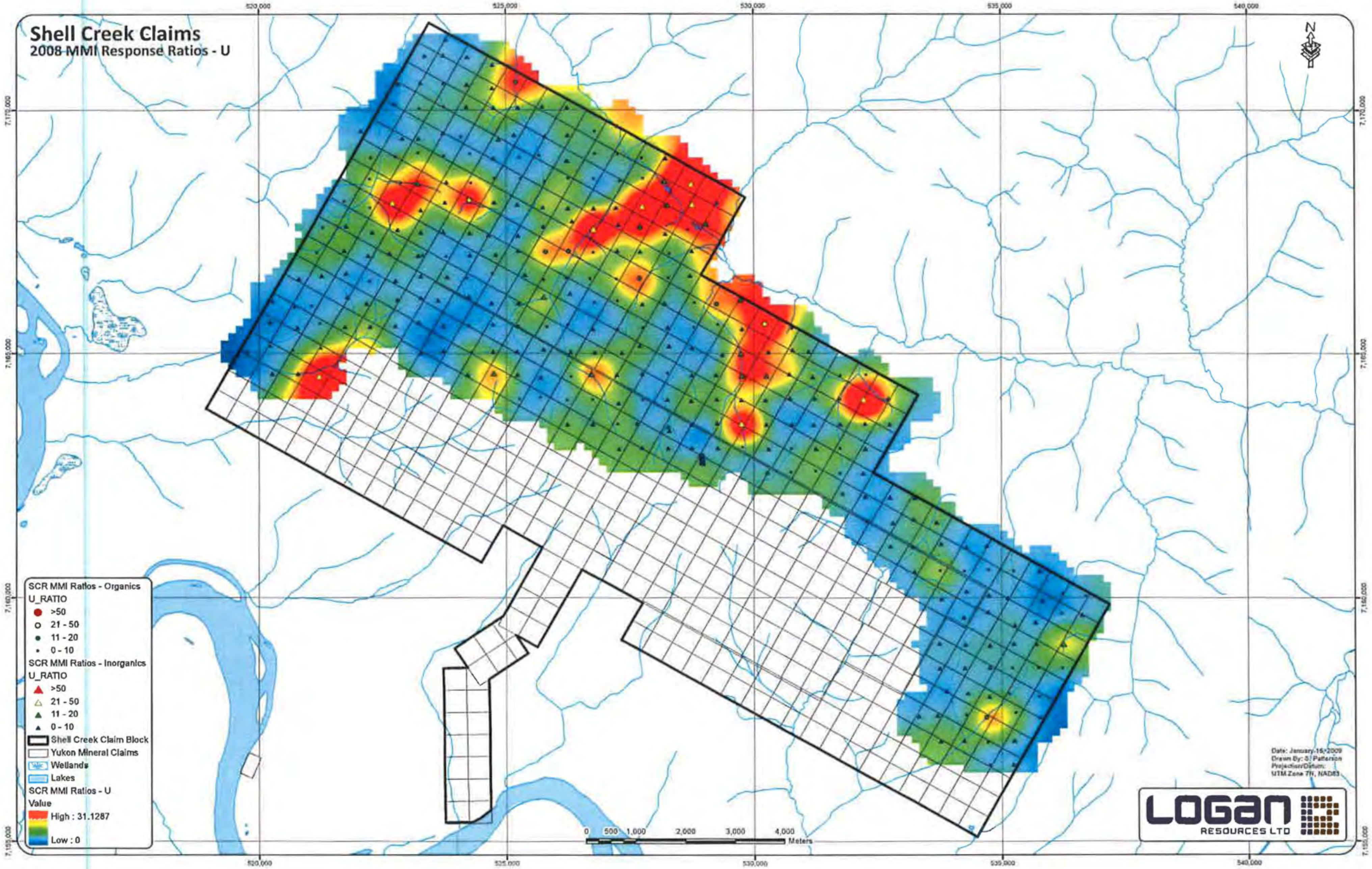

Shell Creek Claims
2008 MMI Response Ratios - Cu
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
CU_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
CU_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Cu.grd
Value
High : 127.451
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: S Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



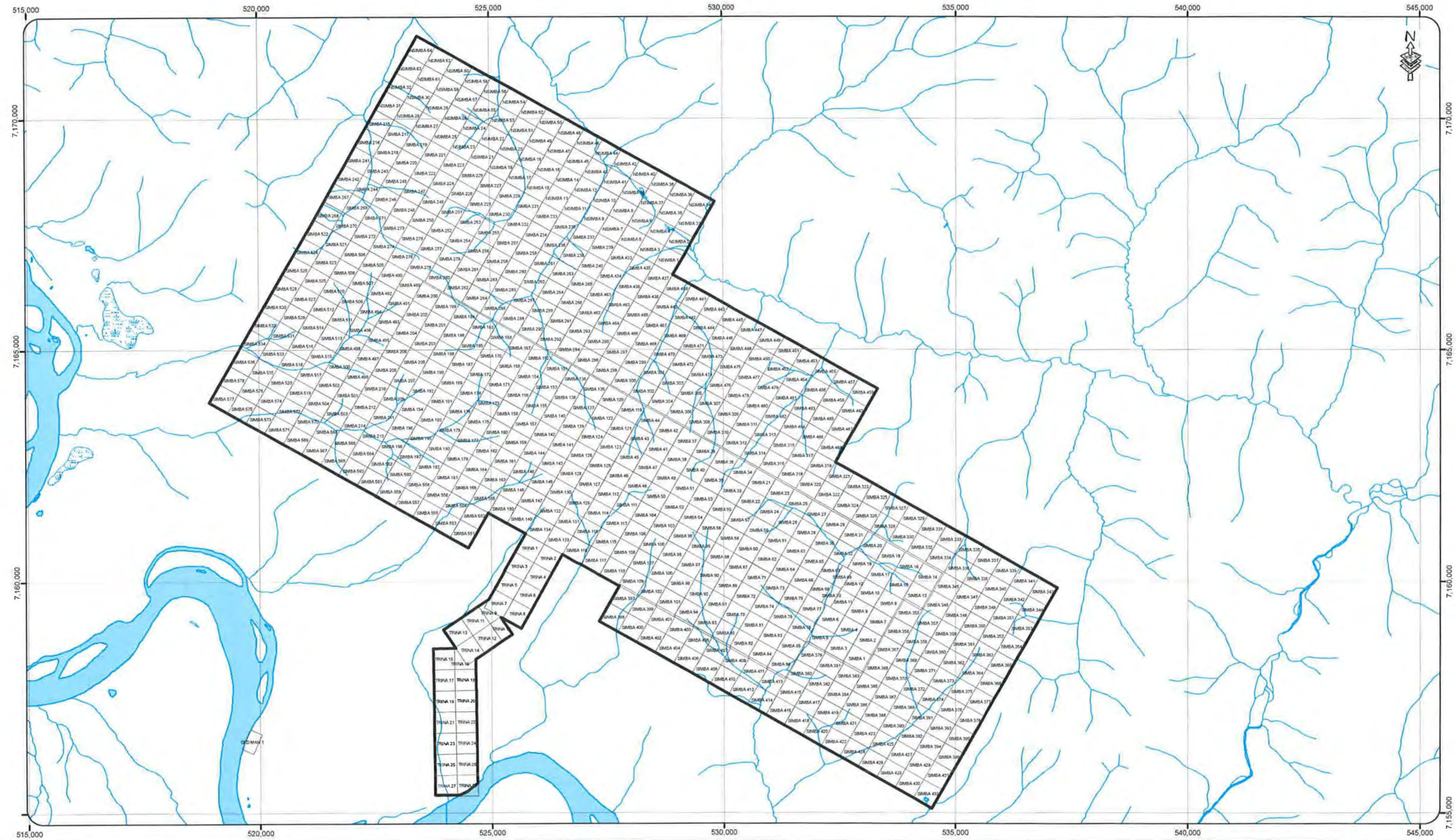
Shell Creek Claims
2008 MMI Response Ratios - Pb
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
N
SCR MMI Ratios - Organics
PB_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
PB_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Pb
Value
High : 263,049
Low : -19,0714
0 500 1,000 2,000 3,000 4,000 Meters
Date: January 16 2009
Drawn By: S Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN RESOURCES LTD


Shell Creek Claims
2008 MMI Response Ratios - Zn
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
ZN_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
ZN_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Zn
Value
High : 97.2385
Low : -3.10434
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD


Shell Creek Claims
2008 MMI Response Ratios - Ce
N
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
SCR MMI Ratios - Organics
CE_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
CE_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - Ce
Value
High : 159.694
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 16, 2009
Drawn By: SJ Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



Shell Creek Claims
2008 MMI Response Ratios - U
520,000
525,000
530,000
535,000
540,000
7,170,000
7,165,000
7,160,000
7,155,000
N
SCR MMI Ratios - Organics
U_RATIO
>50
21 - 50
11 - 20
0 - 10
SCR MMI Ratios - Inorganics
U_RATIO
>50
21 - 50
11 - 20
0 - 10
Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes
SCR MMI Ratios - U
Value
High : 31.1287
Low : 0
0 500 1,000 2,000 3,000 4,000
Meters
Date: January 15, 2009
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83
LOGAN
RESOURCES LTD



Shell Creek Claims

2008 Claim Map

LOGAN RESOURCES LTD

Shell Creek Claim Block
Yukon Mineral Claims
Wetlands
Lakes

0 500 1,000 2,000 3,000 4,000 Meters

Date: July 30, 2008
Drawn By: S. Patterson
Projection/Datum:
UTM Zone 7N, NAD83

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
SCRS_279_08	5	7	<1	480	<1	1	<10	1.6	17	<0.5
SCRS_280_08	<5	8	<1	650	<1	2	<10	1.5	14	<0.5
SCRS_281_08	13	4	<1	510	<1	<1	<10	3.5	102	0.8
SCRS_282_08	12	11	<1	2160	<1	2	<10	6.8	9	<0.5
SCRS_283_08	40	11	<1	860	<1	2	<10	21.6	512	<0.5
*Std MMISRM16	19	6	<1	560	<1	<1	<10	25.9	9	<0.5
*Std MMISRM16	9	6	<1	580	<1	<1	<10	27.4	3	<0.5
*Std MMISRM16	14	6	<1	550	<1	<1	<10	25.4	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5