

**LAKE SHORE**  
GOLD CORP.

2.32406

**2003/2004 Exploration Program**

**Thunder Creek Project**

**Bristol Township**

**TIMMINS, ONTARIO**

**NTS 42A/5**



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November 2004

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## SUMMARY

The Thunder Creek project is located 20 kilometers west of Timmins, Ontario. The property under option from Band-Ore Resources Corp. since 2003, consists of 33 un-patented, and 3 patented mining claims (54 claim units, covering 864 ha).

In 2004, Lake Shore Gold Corp. carried-out an exploration program consisting of bedrock mapping, stripping, lithogeochemical sampling, and Mobile-Metal-Ion (MMI) soil sampling. The main objective of the program was to delineate auriferous zones along the steeply dipping southwest trending volcanic-sedimentary contact and associated alkalic igneous complex (AIC), similar to the Timmins Gold Project adjoining the Thunder Creek claim group to the northeast. A multi-phase diamond drilling program was also initiated by Lake Shore Gold Corp. in November 2003 and was carried-out intermittently until May 2005. The objectives and results of the drilling program are provided in a separate report (Samson 2005).

An initial drill program was conducted by Bradley Brothers Ltd. between October 2003 and January 2004. Seven holes totaling 1950m of drilling were completed.

The 2004 exploration program consisted of bedrock mapping, stripping, lithogeochemical sampling, Mobile-Metal-Ion (MMI) soil sampling, and 3250m of diamond drilling. The main objective of the program was to delineate auriferous zones along the steeply dipping southwest trending volcanic-sedimentary contact and associated alkalic igneous complex (AIC), similar to the Timmins Gold Project adjoining the Thunder Creek claim group to the northeast.

The Thunder Creek property is situated in the Porcupine Mining Division in the western portion of the Abitibi greenstone belt of the Archean Superior Province. The property is underlain by mafic volcanic rocks of the Tisdale Assemblage (~2708-2705 Ma), which are overlain unconformably by clastic turbiditic metasedimentary rocks of the Porcupine Assemblage (~2695 – pre-2680 Ma). A late Archean (2687 ± 3 Ma) poly-phase alkalic intrusive complex (AIC) lies in the volcanic-sedimentary contact. A large quartz-feldspar porphyritic monzonite intrusion and numerous smaller related dykes have intruded the metasedimentary sequence in the southeast portion of the property. The AIC intrusion is the same age as with the Timmins Camp porphyry suite intrusions (e.g. Pearl Lake).

The most significant style of mineralization is located at the footwall and hanging contacts of the AIC. Gold is observed in areas of increased deformation, and veining, with associated iron-carbonate alteration, and disseminated pyrite. Anomalous gold mineralization has also been observed in quartz-stockwork veins containing galena within the monzonite intrusion.

Gold mineralization is coincident with the intersection of the AIC contacts and southwest trending structures, as well as the dextral deflection of the southwest trending structure; further testing of this intersection is required down plunge.

# LAKE SHORE GOLD CORP.

## 2004 Mapping and Soil Sampling Program

### Thunder Creek Project

Bristol Township

TIMMINS, ONTARIO

42A/5

#### 1.0 Introduction

Lake Shore Gold Corp. is a British Columbia public company incorporated in 1987, and listed on the TSX Venture Exchange under the trading symbol LSG. Lake Shore's head office is located in Vancouver BC, field offices are maintained in Sudbury and Timmins, Ontario.

The Thunder Creek Property consists of 36 mining claims (54 units) situated in Bristol Township in the Porcupine Mining district.

In 2003 seven drill holes were completed consisting of 1945 meters of drilling. In 2004 a multidisciplinary exploration program was conducted which included; surface bedrock mapping, a Mobile Metal Ion (MMI) geochemical soil survey, stripping, channel sampling, and 3250m of diamond drilling which extended into 2005. This report summarizes the work carried-out in 2004, and details relating to the diamond drilling program are being provided in a separate report (Samson 2005).

#### 1.1 Location

The Thunder Creek project is located approximately 25 kilometers west of Timmins at the junction of Highways 101 and 144. The claims are located in Bristol Township, District of Cochrane, in the Porcupine Mining Division at approximately Longitude 81°33' E and Latitude 48° 23' N, and at UTM Northing 5, 358, 400 N and Easting 458, 200 E (NAD 83 Zone 17U) (Figure 1). Gravel roads provide access from both Highway 101 and 144 (Figure 2). The property has an existing grid (cut in 1996) and numerous drill trails allowing adequate access to most areas on the property.



## 1.2 Climate

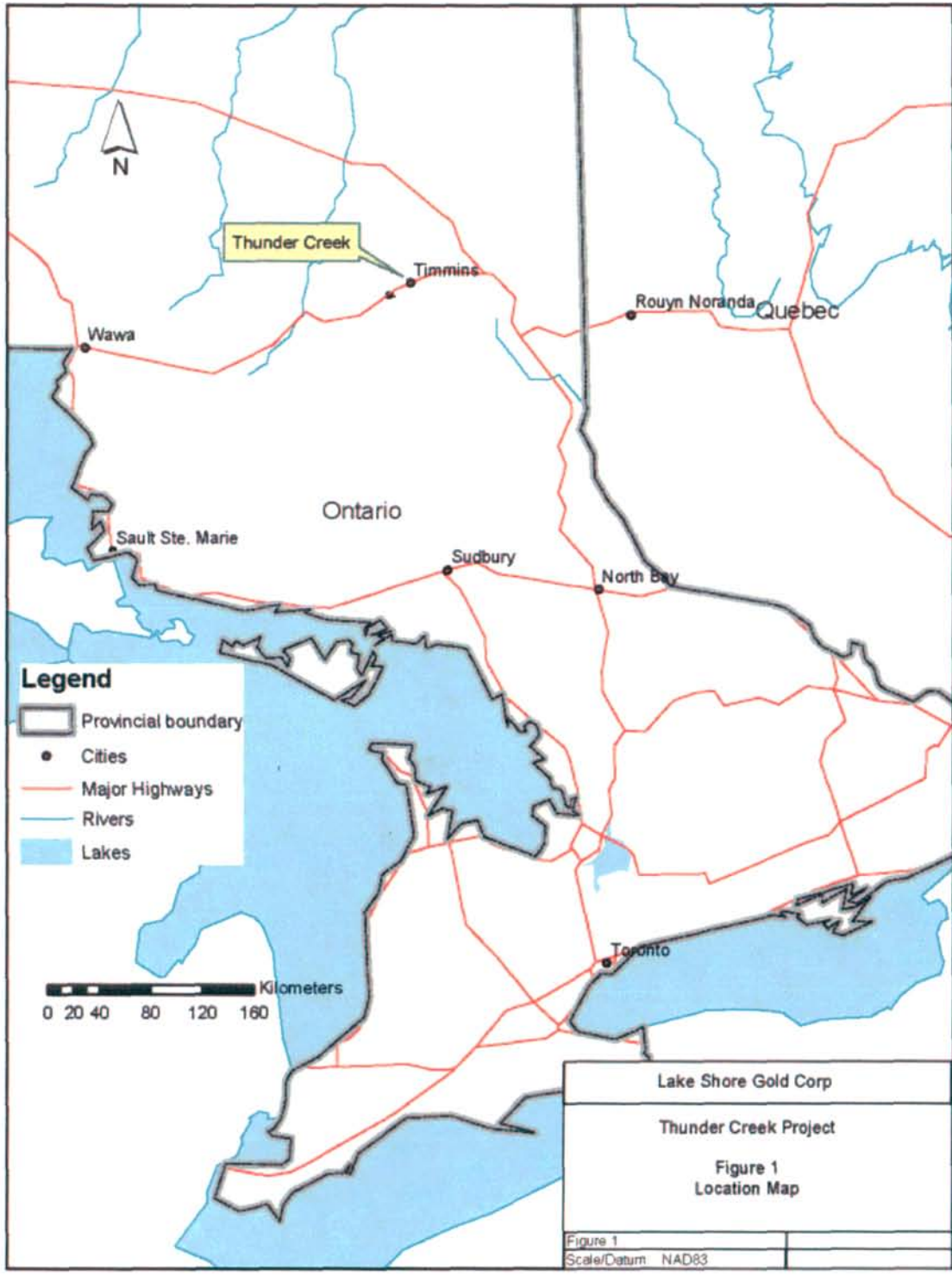
The Timmins area is considered to have a cold, continental type climate with an average temperature range between 35°C and -40°C. The ground is generally snow covered from mid-November to the end of April, with snow accumulations to over 2 m.

## 1.3 Local Resources and Infrastructure

The project is within the limits of the City of Timmins. The local economy is based on mining, smelting, and logging as well as having numerous government facilities. All services required to support an exploration program and any future mining operations are readily available in Timmins. A major power line follows highway 101, crossing the north end of the property (Figure 2).

## 1.4 Physiography

The topography of the property is one of moderate relief. Areas of lower relief are underlain by a mixture of glacial fluvial sand and glacial till. The average elevation of the area is 300 m above sea level with relief generally in the order of 10 m to 20 m. Thunder Creek flows to the east immediately north of the project area and then to the southeast where it joins with the Tatachikapika River, located east of the property, which flows into the Mattagami River. Areas of high relief are predominantly covered in a mixed jackpine and poplar forest. Areas of lower relief and swamp are mainly forested with spruce, balsam and alders. There is approximately 5% bedrock exposure.



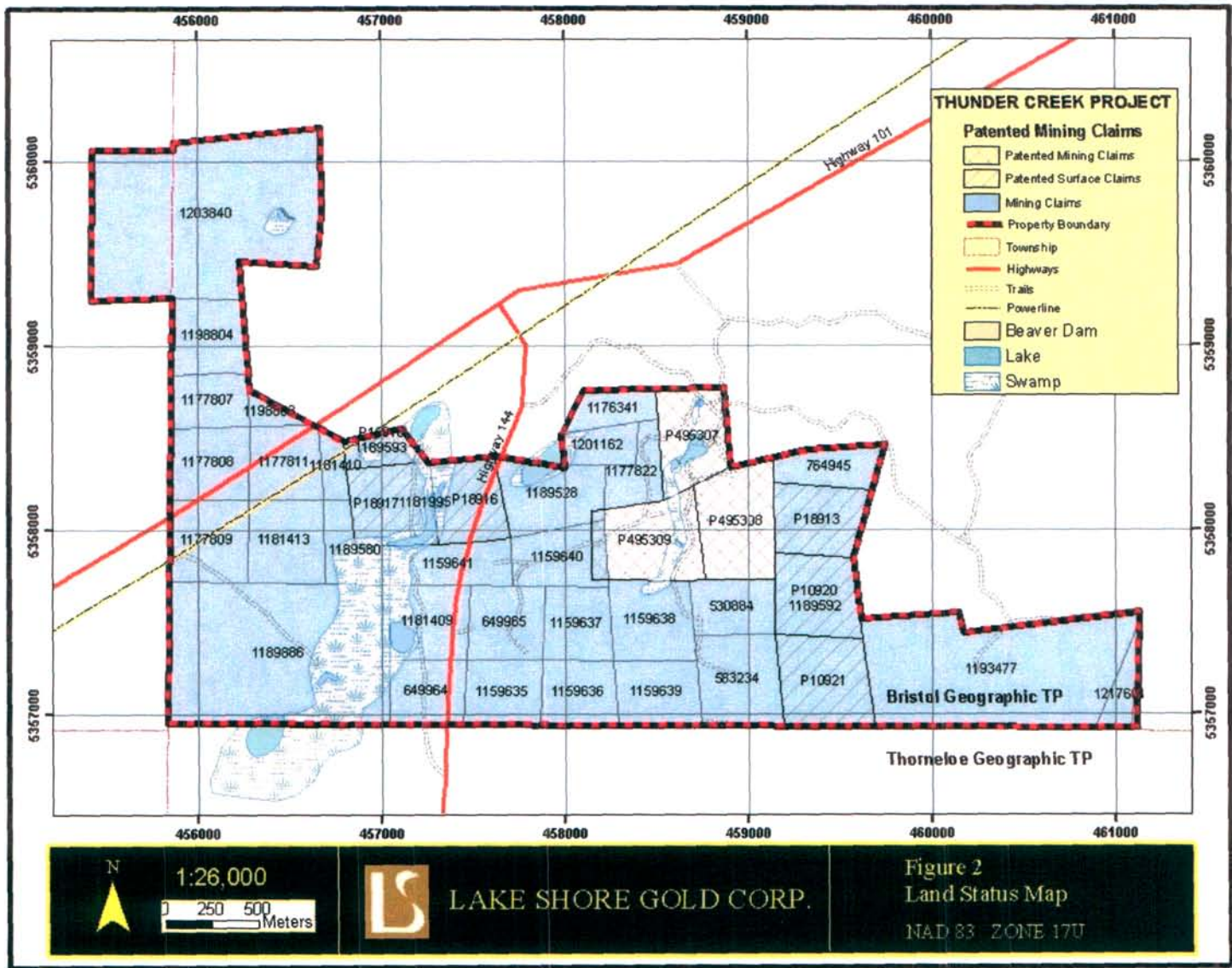
## 2.0 Property Status

The Thunder Creek property consists of 33-unpatented and 3-patented contiguous mining claims (54 claim units, covering more than 864 ha) (Figure1, Table1). The claim group was optioned from Band-Ore Resources Corp. in 2003. Exploration work has been carried out on the claims listed in Table 1.

### Bristol Township:

1159635, 1159636, 1159637, 1159638, 1159639, 1159640, 1159641, 1176341, 1177807, 1177808, 1177809, 1177811, 1177822, 1181409, 1181410, 1181413, 1181995, 1189528, 1189580, 1189592, 1189593, 1189886, 1193477, 1198803, 1198804, 1201162, 1203840, 1217601, 530884, 583234, 649964, 649965, 764945, P495307, P495308, P495309.

Band-Ore Resources Corp. is the owner of all claims, except for P495307, P495308, P495309, which are registered to James Earnest Croxall and have been optioned to Band-Ore Resources. Comprehensive claim information is located in Table 1.



### 3.0 Previous work

A total of thirteen assessment files have been submitted with relevant information on work completed on or in the vicinity of the Thunder Creek project.

Rusk Porcupine Mines Ltd.	1941-57
Hollinger Cons Gold Mines Ltd. (T-542)	1958-60
Sylvanite Gold Mines	1940
Hollinger Cons. Gold Mines Ltd.(T-556)	
Mill Hill Mines Ltd.	1973
Thomas Herbert	1975
Texas Gulf Canada Ltd.	1979-85
Preussag Canada Ltd.	1981
Noranda Exploration Co. Ltd.	1984
Gowest Amalgamated Resources Ltd.	1984-94
Mintek resources Ltd.	1989
Noranda Exploration Company, Limited	1994
Battle Mountain Canada Ltd.	1996

After Calhoun, R. 1997

Significant historic work has been well summarized by Lebaron, P. 1985

*1942: Rusk Porcupine Mines: several pits and trenches were sunk; 18 diamond drill holes completed (total of 6500 ft.). Main showing trench on present claim 495309 assayed 0.24 opt Au/3.0' to 0.71/4.0'.*

1958: Hollinger Gold Mines: 7 diamond drill holes in the northern part of the property intersected "carbonatized, feldspathized, and silicified" rock between pyroxenite and sediments; no assays available.

1981: Preussag Canada Limited: Magnetometer, VLF-Em, HLEM, and limited I.P. over a large area in Bristol and Thorneloe Twps. Including the Croxall Option property; 10 diamond drill holes completed totaling 2,014 ft; adjacent holes 210ft. apart intersected 0.075 opt Au/8.0 ft. and 0.13 opt Au/15.0 ft. in the area of the Rusk showing.

Additional work:

1980: Falconbridge Nickel Mines Limited: Conducted a metallurgical study of rock samples with elevated rare earth elements (REE) from the Thunder Creek property. Analysis of the garnet porphyritic syenite revealed elevated cerium and titanium, however values were deemed uneconomic at 1980 REE prices. A summary of REE content and metal prices is located in Appendix VI.

1984: Noranda Exploration Co. Limited: A program of geological mapping, reverse circulation overburden drilling, humus geochemical sampling, trenching, stripping, and diamond drilling. Sampling of "pyritic" material and quartz veins within the stripped and trenched areas returned assay values of 2.86 g/t Au to 5.54 g/t Au. The three diamond drill holes did not intersect anomalous gold values. Till sampled by reverse circular drilling contained non-pristine gold grains, typical of background values in the Timmins area. Humus sampling did not reveal any significant gold values.

1994: Noranda Exploration Company, Limited: A program of line cutting, bedrock mapping, magnetometer and induced polarization surveys, and a single diamond drill hole was conducted.

1996: Battle Mountain Canada Limited: A program entailing grid extension followed by induced polarization, magnetometer, and geological surveys was conducted. A diamond drill campaign, involving nine-diamond drill holes totaling 1959m, was designed to test geophysical targets and stratigraphy.

## 4.0 Geological Setting

### 4.1 Regional Geology

The Abitibi greenstone belt is the largest, best exposed, and least deformed Archean greenstone belt in the World. The Abitibi is a subprovince of the Superior Province (Canadian Shield), and consists of east-west striking supracrustal strata and massive unfoliated intrusives. In the Timmins area of the belt, the volcanic rock formations can be subdivided into the Deloro (2730 to 2724Ma) and the overlying Tisdale (2710 Ma to 2703 Ma) Assemblages. The contact between the two Assemblages is marked by the Destor-Porcupine Fault Zone (DPFZ) in the Deloro and Tisdale Townships. The DPFZ is a multi-phase, east to east-northeast trending, crustal-scale, ductile shear zone that can be traced from west of Timmins into Quebec (Reddick, J. 2004). The DPFZ system passes approximately 3 km to the south of the property. The volcanic formations are succeeded, unconformably, by the narrow, east west trending, Porcupine Assemblage. The turbiditic sediments of the Porcupine Assemblage are unconformably overlain by coarse, clastic, continental type metasediments of the Timiskaming Group (Table 2).

The Deloro Assemblage comprises mafic to felsic calc-alkaline volcanics and an upper formation of iron-oxide chemical sediments. The contact is unconformable with the lower Pacaud assemblage and has an approximate thickness of 5 km. Geochemically the assemblage shows a highly fractionated LREE pattern (5-50 x Chondrite) with Nb and Ta depletions. Zircon xenocrysts of 2740 Ma and 2750 Ma from the underlying Pacaud Assemblage were inherited during volcanism and provide strong evidence for autochthonous development. The Deloro Assemblage is believed to have formed in a deep submarine volcanic environment from a deep mantle source (Ayers J. 2002).

The Tisdale Assemblage formed between 2710 Ma and 2703 Ma. It consists of a thick, lower division of komatiitic flows, a middle division of tholeiitic basalts, intermediate to felsic calc-alkaline volcanics and iron formation (Jackson et al., 1994). There is a 15-million-year gap between the underlying Deloro Assemblage and the Tisdale Assemblage, and a conformable upper contact with the Kinojevis Assemblage (2702 to 2701 Ma). 2725 Ma and 2722 Ma zircon xenocrysts from the underlying Deloro, and 2730 Ma and 2740 Ma zircon xenocrysts from the Pacaud have been found in basal calc-alkaline rocks. The assemblage is up to 5 km in thick (in the Shining tree area). Geochemically the komatiites are AUK (Aluminum

Undepleted Komatiites) with higher than average La/Sm and Th/Nb, indicating contamination with crustal rocks and a shallower depth of partial melting, the tholeiitic basalts have depleted LREE and unfractionated HREE, indicated by a La/Yb ratio of 0.6-1.5. Tholeiites have a depleted  $\epsilon$  Nd value of 2.2 to 3.4 (Ayer et al. 2002).

The overlying Porcupine Assemblage has an estimated age of between 2696 Ma to 2692 Ma from detrital zircon grains (Ayer et al. 2002). It is one of the two Abitibi sedimentary assemblages and is dominantly comprised of wackes, siltstone, and mudstone, with minor iron formation and conglomerate present. The basal segment of the Porcupine Assemblage also contains the calc-alkaline Krist-Fragmental. The matrix of the Krist Fragmental has the same chemical composition as the Timmins porphyry suite (2691 Ma to 2688Ma) and has been postulated to be a pyroclastic equivalent to the porphyries (Ayer, J. et al. 2003). The porphyry suite is spatially associated with gold deposits in the Timmins camp, however it is 10 Ma younger than the mineralizing event (Reddick, J. 2004).

The DPFZ and Cadillac-Larder Lake Fault are the most important regional structures for gold mineralization in the Abitibi. These east west first order structures are associated with the sedimentary basins and spatially associated with major gold deposits (e.g. Dome, Pamour). The sedimentary sequences are younger than the first order structures and gold mineralization postdates sedimentation. The DPFZ often occurs at assemblage boundaries, however it is not always a terrane boundary, as it crosscuts assemblages (Reddick, J. 2003).

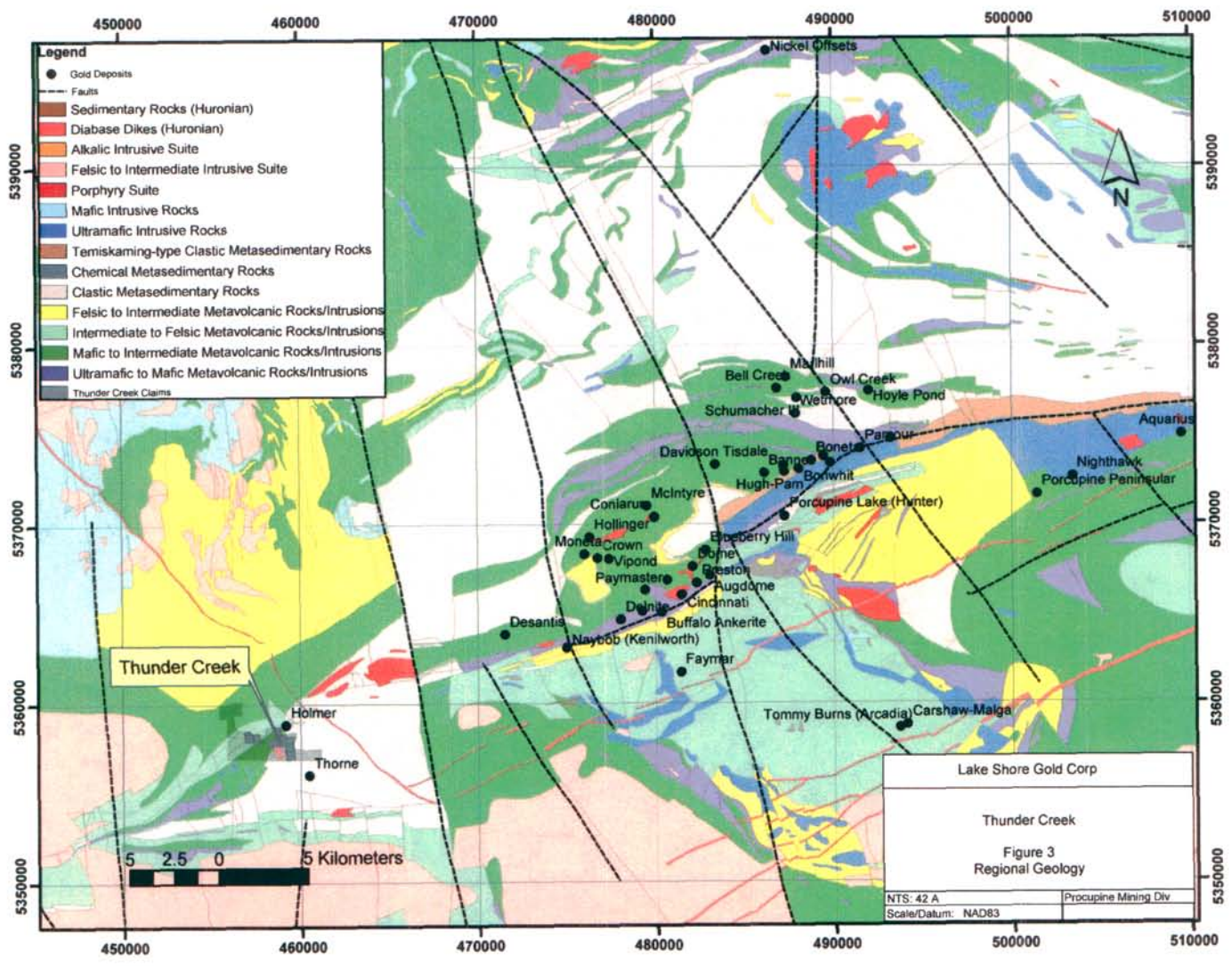
Penetrative structures of the Timmins area are constrained between 2700 Ma and 2670 Ma, and are characterized by pre-metamorphic folds (D1) to a sequence of syn-metamorphic folding events (D2 and D3) which overprint D1 folds (Rhys, D. 2003). The DPFZ accounts for two stages of deformation: 1) an episode of syn-Timiskaming (2680 to 2677 Ma) brittle faulting which truncates D1 folds and created the basins for Timiskaming sedimentation, and 2) a phase of syn-metamorphic D2-D3 shear zone development, which is represented by a band, generally several hundred meters wide, of highly strained rocks. The displacement of the DPFZ in the Timmins area is sinistral (Rhys, D. 2003).

The D1 event is multiphase, recorded by truncation of folds at the unconformable base of the Krist-Porcupine sequence (Rhys, D. 2003). The syn-metamorphic D2-D3 events are often characterized by west-northwest trending foliations, steeply dipping stretching and intersection lineations, and shear zones.



Pre-Timiskaming folds and fabrics confirm that a regional deformation occurred in the interval between sedimentation of the Porcupine and Timiskaming Groups. This deformation must have affected previously established volcanic-tectonic uplifts and depressions such as the central Tisdale anticline and Porcupine syncline, which may be parts of a syn-volcanic gravity deformation that was confined to the area of the Timmins volcanic centre (Beavon, 1997). The stratigraphy of the area is summarized in Table 2.

Gold-bearing quartz veins in the Timmins camp cut a granodiorite porphyry intrusive dated at 2691 Ma and 2688 Ma and also a lamprophyre dyke dated at 2673 Ma (Fyon, 1991). These dates indicate that the gold mineralization in the area was emplaced after deposition of the Porcupine Assemblage sediments. This is also the time interval during which the penetrative structures were developed.



## 4.2 Property Geology

The Thunder Creek Project is located within Bristol Township approximately 20km west of the City of Timmins within the Abitibi Greenstone Belt (Figure 1).

The core area of the Thunder Creek property covers a steeply dipping contact between mafic volcanic rocks, of the Tisdale Assemblage (~2708-2705 Ma) to the west, and stratigraphically overlain by the Porcupine Assemblage (~2695 – pre-2680 Ma) clastic turbiditic meta-sedimentary rocks, to the southeast. The Timmins Gold project, formally known as the Holmer Gold Mines project, is located at a left-handed deflection on the same northeast trending structure approximately 500m northeast of the Thunder Creek Project.

A late Archean,  $2687 \pm 3$ Ma (Barrie, C., 1992), poly-phase alkalic intrusive complex (AIC) lies in the volcanic-sedimentary contact zone and is contemporaneous with the Timmins Porphyry suite (Pearl Lake 2689 Ma, Millerton 2691 Ma, Crown 2688 Ma, Paymaster 2690 Ma). A large quartz-feldspar porphyritic monzonite intrusive body and numerous smaller related dykes have intruded the metasedimentary sequence in the southeast portion of the property. Recent radiometric age dating of the Bristol Lake quartz-feldspar porphyry ( $2687 \pm 1.4$  Ma) on the eastern side of Bristol Township indicates that this intrusive is contemporaneous with the 2691-2688 Ma porphyries (e.g. Pearl Lake) in the Timmins area, as well as the alkalic igneous complex (Ayer, J.A., et al. 2003). No data is available to show a genetic link between the Bristol Lake porphyry and the monzonite porphyry on the Thunder Creek property.

The volcanic-sedimentary contact has a northeast trend with volcanic rocks to the northwest and sediments dominantly to the southeast. In the Project area, an east-west shear zone (EWSZ) has created a deflection of the north-south trending contact creating an S-shaped pattern, highlighted by the trace of the magnetic AIC igneous complex in magnetometer survey images. The alkalic intrusive complex (AIC) is exposed at surface along the volcanic sedimentary contact. The northeast trending footwall contact between the AIC and the Porcupine group sediments displays increased deformation, which is associated with moderate to strong iron-carbonate alteration, quartz veining, and disseminated pyrite.

The Thunder Creek project is located between two significant gold occurrences on the same northeast trending volcanic-sedimentary contact, and ultramafic body of rock. The Timmins Gold property, formerly known as the Holmer Gold project, has a resource of 1,369,000 tonnes

with an average, uncut, grade of 16.45 g/t for an indicated resource of 724,000 ounces of gold. An additional 200,000 tonnes with an average, uncut, grade of 12.3 g/t accounts for an additional inferred resource of 80,000 ounces of gold (Neczkar et al. 2004). The Timmins Gold property is located 1.2 km from the Rusk showing on the Thunder Creek Project. The Gowest property, held by Richmond Mines, in Denton Township, is located 6.4 km southwest of the Rusk showing. Previous work led to 5 drill intersections with an average of 9.60 g/t Au over 1.55m (Lebaron S. 1985).

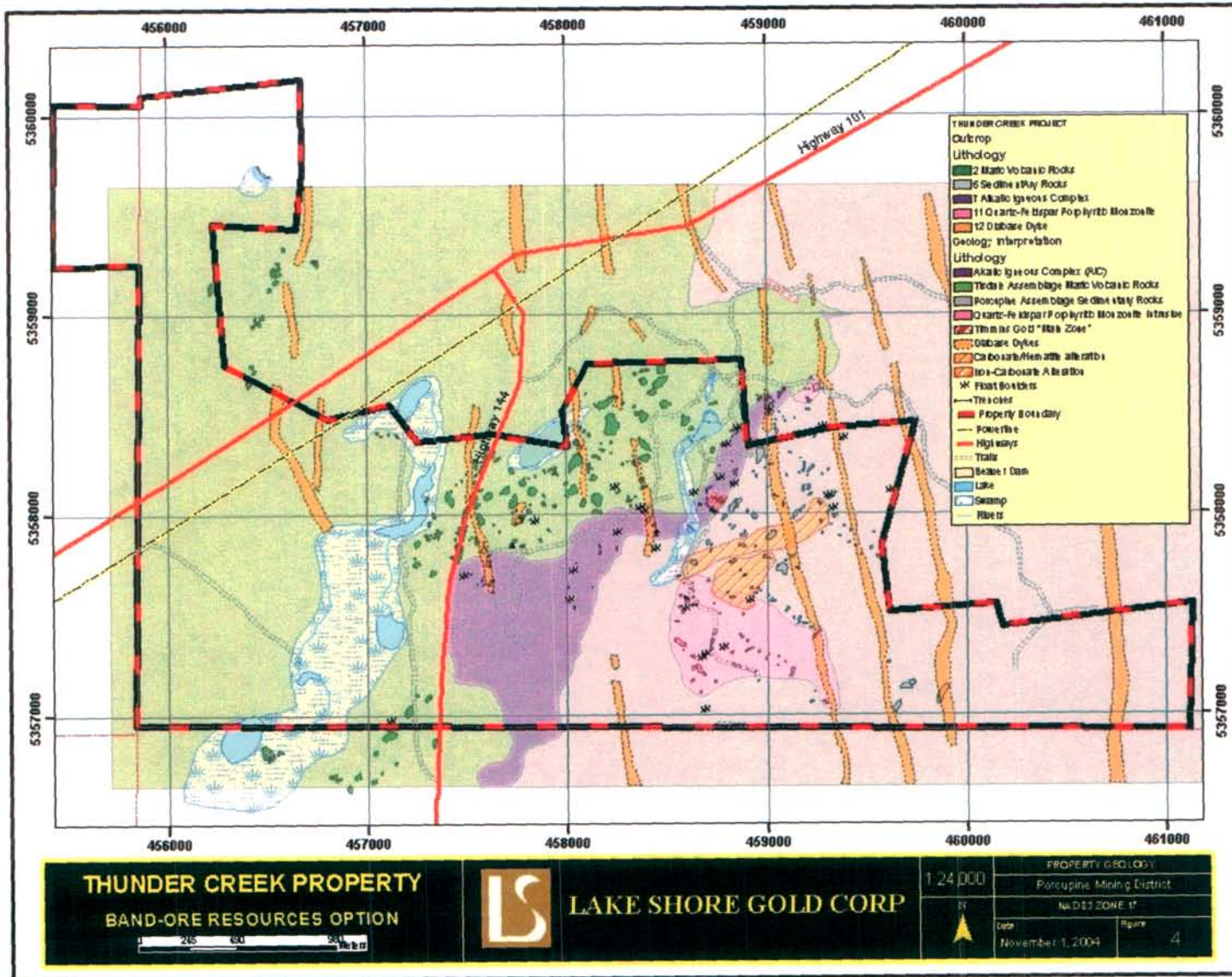
#### 4.3 Lithology Distribution

- 1) *Mafic volcanic rocks*: The mafic volcanic rocks are fine-grained, green, and predominantly observed as large, well-preserved, un-deformed, pillows. The rocks are mostly soft green chlorite with variable calcite. Magnetite is locally present particularly proximal to the alkalic complex where they become darker, and assume a sugary texture, likely as a result of contact metamorphism during the emplacement of the alkalic igneous complex. Minor discrete zones of pillow/flow top breccias are recognized in the northern portion of the property. A narrow, sub meter, northeast trending, ductile shear zone can be traced through the undeformed mafic volcanic rocks.
- 2) *Clastic sedimentary rocks*: The sedimentary sequence consists chiefly of massive, poorly bedded, fine- to medium-grained, pale gray quartz and feldspar lithic greywacke units. In the southeast portion of the property grey, fine-grained, siltstone units are observed. Near the alkalic intrusive complex, the sedimentary rocks appear massive, green, and fine-grained, making clear identification difficult. Adjacent to the AIC, within the east-west structural zone (EWSZ), the sediments are strongly sheared into a quartz-sericite-carbonate-hematite schist, which locally display crenulation fabrics.
- 3) Alkalic Intrusive Complex (AIC): The alkalic suite has been subdivided into three texturally and mineralogically distinct units; i) Fine- to coarse- grained pyroxenite ii) Biotite pyroxenite iii) Porphyritic garnet syenite.
  - i) The pyroxenite is generally observed as a strongly magnetic, fine-grained, dark green to black rock with a sugary texture. Petrographic study has determined a mineralogy of greater than 85% pyroxene with variable amounts of accessory biotite + magnetite and rutile + apatite (Miller, A. 2004). The Rusk showing stripping area displays pegmatitic primary layering with cumulate like

textures consisting of pyroxene, biotite, magnetite, and apatite in a fine-grained pyroxenite. Interstitial carbonate (calcite) is variable within the suite. Increased pyrite content, ± gold, is associated with strong iron carbonate alteration and shearing at the Rusk Showing and Stripped Area one.

- ii) The biotite-pyroxenite is a fine-grained, dark green to black, sugary textured, rock with variable magnetite content. It is distinguished from the massive fine-grained pyroxenite by coarse poikilitic textured biotite. The northern margin of the Rusk Showing displays pegmatitic phases of biotite grading into massive phases of fine-grained pyroxenite, displaying a distinct genetic link between the two rock types, which has been confirmed by petrographic work (Miller, A. 2004). The pegmatitic layering and coarse biotite within the fine-grained pyroxenite suggest crystallization under hydrous conditions (Miller, A. 2004).
  - iii) The porphyritic garnet syenite is a fine- to coarse- grained rock consisting of 40-70% dark brown to black euhedral garnets in a fine-grained, leucocratic matrix. Petrographic work on similar rocks on the Timmins Gold project reveal the garnets to be of melanite composition hosted by a fine-grained matrix of plagioclase + orthoclase + biotite + carbonate + apatite + titanite (Miller, A. 2004). Contact relationships are limited by exposure, at the Rusk Showing the garnet porphyritic syenite occurs within the massive pyroxenite suite as a distinct unit with sharp yet irregular contacts. Dykes with a leucocratic matrix and porphyritic garnets on the margins also cut the massive pyroxenite. Field and chemical observation indicate there is a genetic link between the garnet syenite and the pyroxenite suite, with compositional affinity to ultramafic lamprophyres (Miller, A. 2004).
- 4) *Quartz-feldspar porphyritic monzonite*: The porphyry is a roughly circular intrusion approximately 650m x 450m in size creating a distinct topographic high. The rock has a variable composition of an estimated 10-40% quartz eyes, and 10-20% euhedral, tabular, leucocratic feldspars in a fine-grained pink matrix. A stockwork of narrow (1-10cm), steeply dipping, brittle, milky white quartz veins crosscut the intrusive at random orientations. Salmon pink colored, fine-grained, felsic dykes are located within the east-west trending shear zone hosted by the sedimentary rocks. Field relationships and observations made in drill core indicate the dykes are related to the monzonite porphyry and have intruded east-west brittle structure.

- 5) *Intermediate Dykes*: Light brown to pink, fine- to medium- grained, intermediate dykes crosscut the AIC, volcanic rocks, and penetrative fabrics in Stripped Area One (Figure 6) and Two (Figure 7). The dykes are approximately 0.5 to 1m in width, steeply dipping and appear to be controlled by late brittle structures. They are composed of a fine-grained equigranular matrix of predominantly feldspar with disseminated medium grained mafic minerals and magnetite.
  
- 6) *Diabase Dykes*: Numerous N-S trending diabase dykes crosscut the Thunder Creek property. The dykes are fine to medium grained, massive, magnetic, and locally plagioclase porphyritic. The dykes cut, and are unaffected by, any of the penetrative fabrics. The dykes have previously been correlated with Proterozoic Matachewan group dyke swarm (Ferguson, S. 1957)



#### 4.4 Alteration and Mineralization

Significant alteration and mineralization on the property is associated with the major southwest (SWSZ) and east-west (EWSZ) trending shear zones. Where the SWSZ and AIC intersect, near the AIC footwall contact, is a zone of increased deformation, quartz-carbonate veining, moderate to intense iron-carbonate alteration, disseminated pyrite, and gold mineralization. This area is exposed on surface at the Rusk Showing (Figure 4 and 6), Stripped Area One (Figure 7), and Stripped Area Two (Figure 8). Grab samples from the historic Rusk Showing and associated blast rubble returned values of up to 2.98 g/t gold. Numerous pink syenitic dykes cut the mafic volcanic and AIC rocks near the hanging wall contact at Stripped Area Two. Samples of the dykes with 2-3% combined pyrite and chalcopyrite yielded assay values of 2.35 g/t gold. A single float sample of a syenite dyke from an existing pit near Stripped Area Two returned an assay value of 71.9 g/t gold. Channel sampling of the SWSZ at Stripped Area One and Two returned assay values of up to 4.19g/t gold; a summary of channel sampling is located in section 7.3.

The EWSZ is recorded within the sedimentary sequence as a zone of east-west trending, steeply north dipping, brittle shearing that has created a conduit and allowed the intrusion of fine-grained, salmon pink dykes interpreted to be related to the monzonite intrusive body. This 100m wide zone of shearing and dyke emplacement is associated with moderate to strong iron-carbonate and hematite alteration, up to 2% disseminated pyrite, and rare galena. The area is highlighted by anomalous soil samples with values of up to 0.51ppb Au (Figure 10). Rock sampling of the altered host rock and felsic dykes returned anomalous values of up to 0.157 g/t Au (Figure 6 and 9).

The monzonite intrusion contains a stockwork of narrow (1-10cm), steeply dipping, brittle, milky white quartz veins. The veins contain variable sulphide concentrations up to 5% galena and 0.5% sphalerite. Grab samples yielded up to 4.02 g/t Au.

Within the mafic volcanic unit is a southwest trending, sub-meter, ductile shear zone with minor quartz veins. Sampling of veins returned anomalous assay values of up to 267 ppb Au. Pods of pyrite in pyrite contained by pillow selvages and interpreted to be of syn-genetic origin has returned assay values of up to 0.483 Au g/t.



## 5.0 Metamorphism

Petrographic study of the same alkalic igneous complex on the adjacent Timmins Gold project has revealed that the rocks have reached upper greenschist to lower amphibolite facies metamorphism (Miller, A. 2004). The mineral assemblages of the supracrustal rocks include chlorite, sericite, carbonate, albite, quartz, and iron oxides; which is consistent with an upper greenschist to lower amphibolite metamorphic grade.

## 6.0 Structural Geology

The dominant tectonic fabric of the property is a southwest trending, moderately northeast dipping foliation ( $220^{\circ}/65^{\circ}$ ). The mafic volcanic rocks northeast of the contact are virtually undeformed with the exception of two discrete southwest trending ductile shear zones that cut the rocks.

The two most significant structural features are the southwest (SWSZ) and east-west (EWSZ) shear zones. The SWSZ occurs at the footwall and hanging wall contacts of the AIC. The SWSZ has been observed in drill core and outcrop and is generally recognized as 1-5m zones of southwest trending, northwest dipping foliations ( $220^{\circ}/65^{\circ}$  to  $80^{\circ}$ ). North of the EWSZ, where the SWSZ cuts the AIC there is moderate to strong iron-carbonate alteration, disseminated pyrite mineralization, and anomalous gold values. The sedimentary rocks display a progressive foliation intensity increasing proximal to the SWSZ. The northern end of the SWSZ and AIC displays progressive northeast to northeast-east foliation progression, reflected in a dextral displacement of the alkalic igneous complex magnetic signature on geophysical images.

The EWSZ occurs in the central portion of the property, magnetic geophysical images indicate that the EWSZ has created an approximate 300m east-west dextral displacement of the AIC and SWSZ. Bedrock exposure in the vicinity is limited. A unit of strongly deformed felsic hematite-carbonate-sericite schist is exposed east of the dextral deflection. The zone appears to be strongly sheared sediments that have been intruded by salmon pink, aphanitic felsic dykes, likely related to the nearby monzonite intrusion. The schist displays a strong southwest to west ( $240^{\circ}$  to  $270^{\circ}$ ) trend, with a moderate to steep ( $60^{\circ}$  to  $80^{\circ}$ ) dip to the north. Stretching lineations on the dominant foliation plane exhibit a moderate plunge to the

northwest ( $60^{\circ} \rightarrow 284^{\circ}$ ). The lineation may reflect the plunge of the AIC within the east-west deflection.

The east-west structural zone (EWSZ) can be traced from the AIC through the unaltered sedimentary unit to the east as a discrete shear zone. The one to five meter wide shear zones display moderate iron-carbonate and hematite alteration, and an increased pyrite content of up to 2%. Soil sampling and rock sampling highlights the area as being anomalous in gold (Figure 5). A complete summary of structural measurements and interpretation is located in Appendix VI and Figure 5.



## 7.0 Work performed

In 2003 work was limited to an initial 1945m drilling program. In 2004 a multidisciplinary exploration program was conducted which included: surface bedrock mapping, litho-geochemical and whole rock sampling, stripping, mobile metal ion (MMI) soil sampling, and additional diamond drilling.

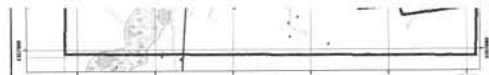
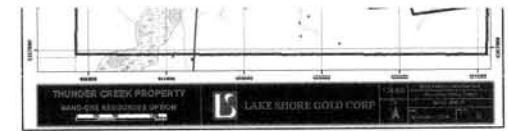
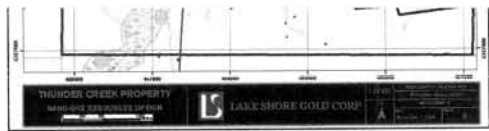
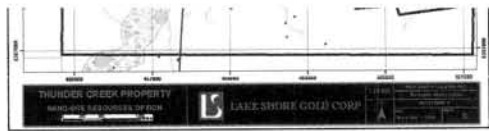
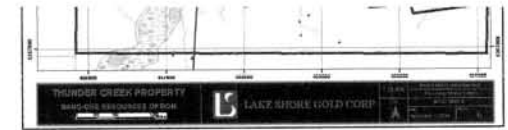
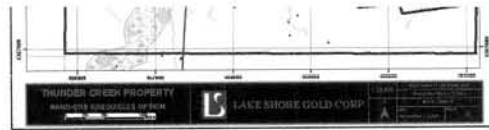
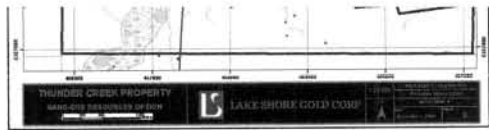
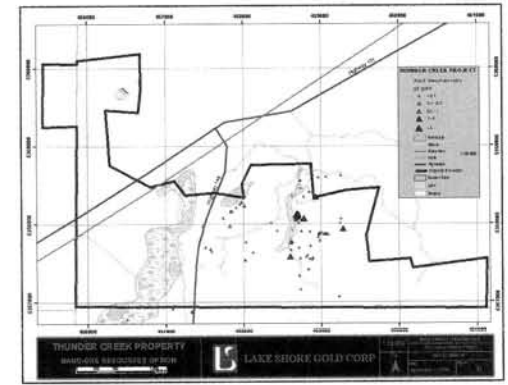
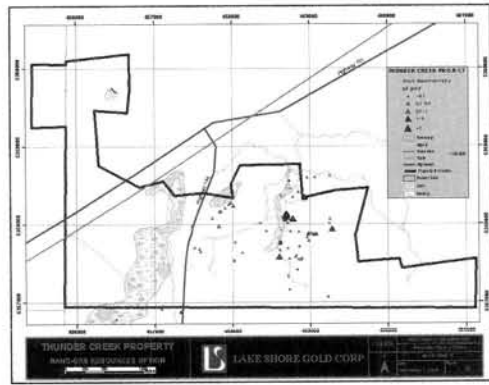
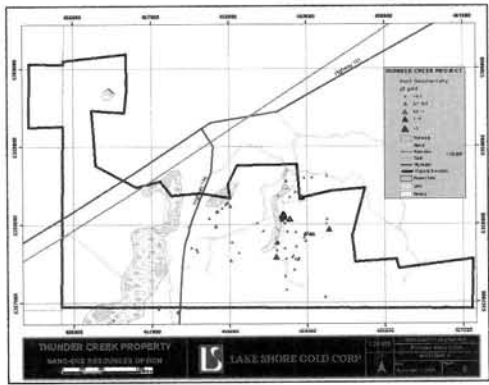
### 7.1 Diamond Drilling

The diamond drilling program was carried-out intermittently between November 2003 and May 2005. Twenty five holes were completed for a total of 8399 metres drilled. The work was filed for assessment in a separate report (Samson 2005).

### 7.2 Bedrock Mapping and Litho-geochemical Sampling

Surface geological mapping was carried out between June and August 2004 (Figure 4). The main area of focus is located between Hwy 144 and the eastern property boundary; 1:2500 scale mapping was conducted in this area. In the peripheral areas 1:5000 scale mapping was completed. In conjunction with mapping, 102 surface samples and 3 whole-rock samples were collected. The historic Rusk Showing and associated blast rubble returned the most significant assay values of up to 2.98 g/t Au. A single float sample from an existing pit in the Rusk Showing area returned an assay value of 71.9 g/t Au. Base metal bearing, undeformed, quartz veins in the quartz-feldspar porphyritic monzonite intrusion returned assay values of up to 4.02 g/t Au. Litho-geochemistry samples were submitted for gold assay and ICP-MS multi-element analysis. Samples of the alkalic intrusive complex were submitted for whole-rock analysis to test for economic concentrations of rare-earth elements. Both litho-geochemical and whole-rock samples were submitted to ALS Chemex in Toronto, Ontario. A complete sample database is located in Appendix I; ALS Chemex laboratory certificates are located in Appendix 2.

Grab and chip sample locations are plotted on Figure 6; channel sample locations are plotted on Figures 7,8, and 9.



### 7.3 Trenching, stripping, and Litho-geochemical Sampling

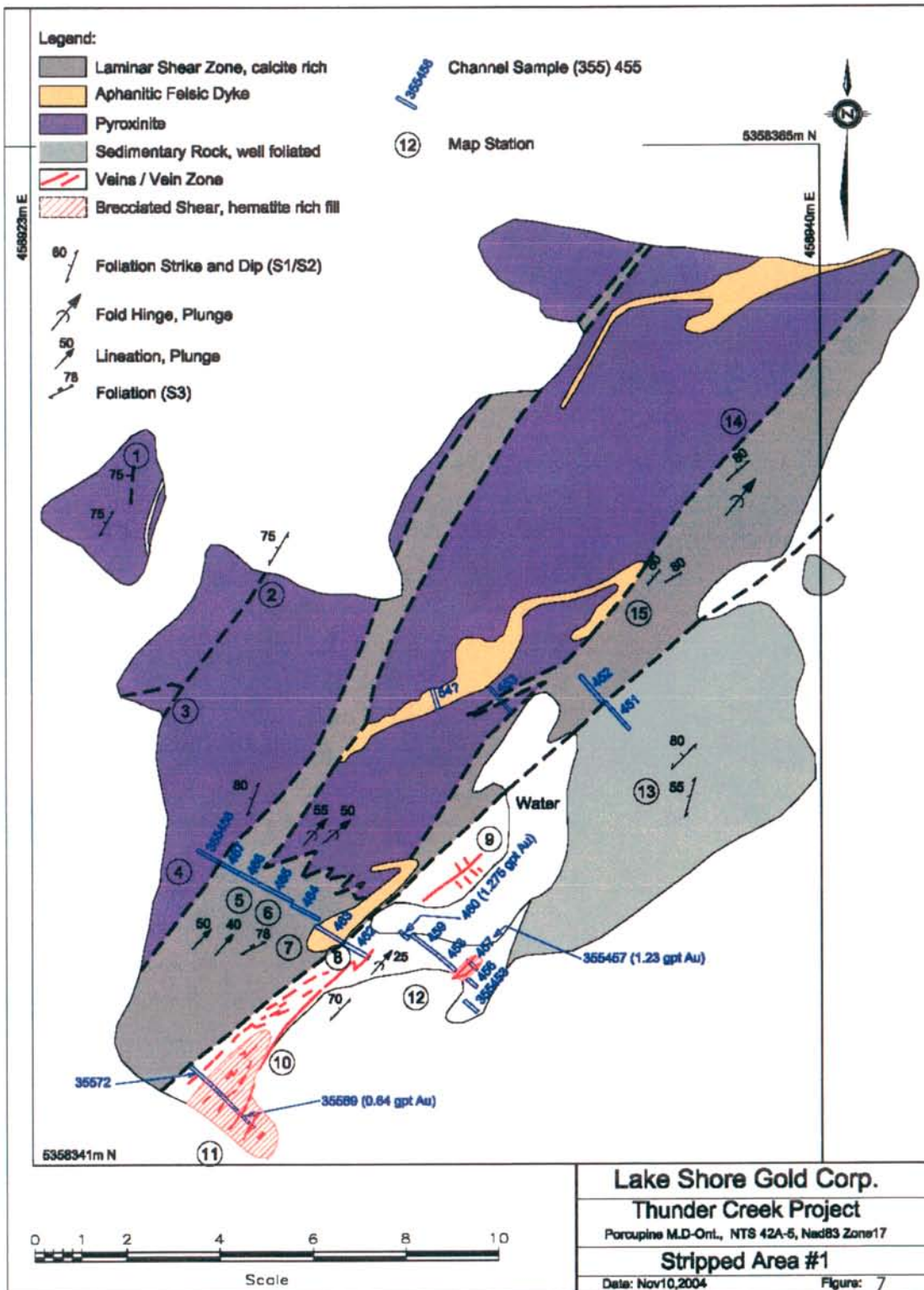
A program of stripping, outcrop washing, channel sampling, and litho-geochemical sampling was conducted in the fall of 2004 by Total Exploration of Timmins, ON. Work was completed utilizing a backhoe attachment mounted on a muskeg-tracked vehicle and wajax pumps. Detailed 1:100 geological mapping was conducted in each stripped area. Detailed maps of the stripped areas are located on Figure 7, 8, and 9; a complete sample database is located in Appendix I.

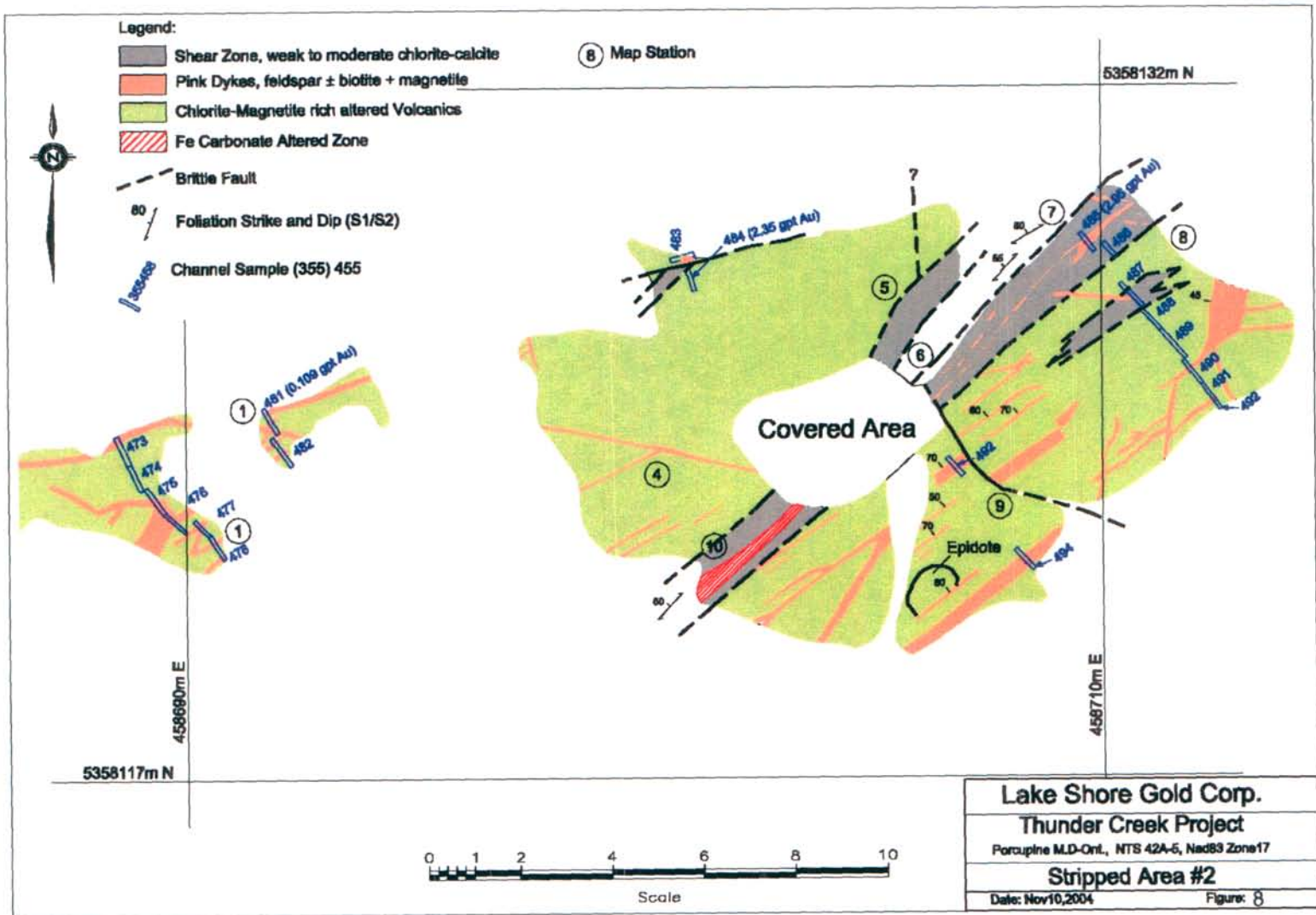
#### 7.3.1 Stripped area one

Stripped Area One covers approximately 400m<sup>2</sup> of the AIC footwall contact (Figure 7). The contact between the AIC and greywacke is a broad 2-6m wide zone of high sheared, strongly calcite to iron-carbonate altered rocks. Contained within the pyroxenite are irregular shaped magnetite bearing, intermediate, aphanitic dykes. The shear zone has an overall orientation of 220°/80° with a northwest side down (045°→230) left lateral oblique slip sense of movement, and is a surface expression of the SWS7. Within the shear zone are discrete zones of hematite rich breccia and quartz-ankerite vein stockworks. Sampling of the quartz-ankerite stockwork with up to 2% pyrite returned assay values of up to 0.63 g/t and 1.23 g/t gold.

#### 7.3.2 Stripped area two

Stripped Area Two covers approximately 180m<sup>2</sup> of mafic volcanic rocks near the hanging wall contact of the AIC (Figure 8). The rocks are fine- to medium-grained, dark green to black, strongly magnetic, and display a sugary texture. They are interpreted to have undergone chlorite-magnetite alteration during the emplacement of the AIC. The rocks are cut by the SWSZ, which is represented by 1-4 m chlorite-calcite altered shear zone with a southwest orientation (~230°/65°). Numerous fine-grained, pink, feldspar ± biotite ± magnetite "syenitic" dykes cut the outcrop. The dykes occasionally contain dark brown to black garnets on their margins, indicating they are genetically related to the AIC. The dykes have an overall southwest trending orientation and appear to be segmented within the shear zone. Sampling of the dykes containing up to 2-3% pyrite and 0.5% chalcopyrite returned assays of up to 2.35 g/t gold. A single float sample of pyritic syenite dyke taken near Stripped Area Two returned an assay value of 71.9 g/t gold. A sample of altered mafic volcanics and syenite dyke, with minor pyrite and chalcopyrite, from the shear zone returned an assay value of 2.95 g/t gold.

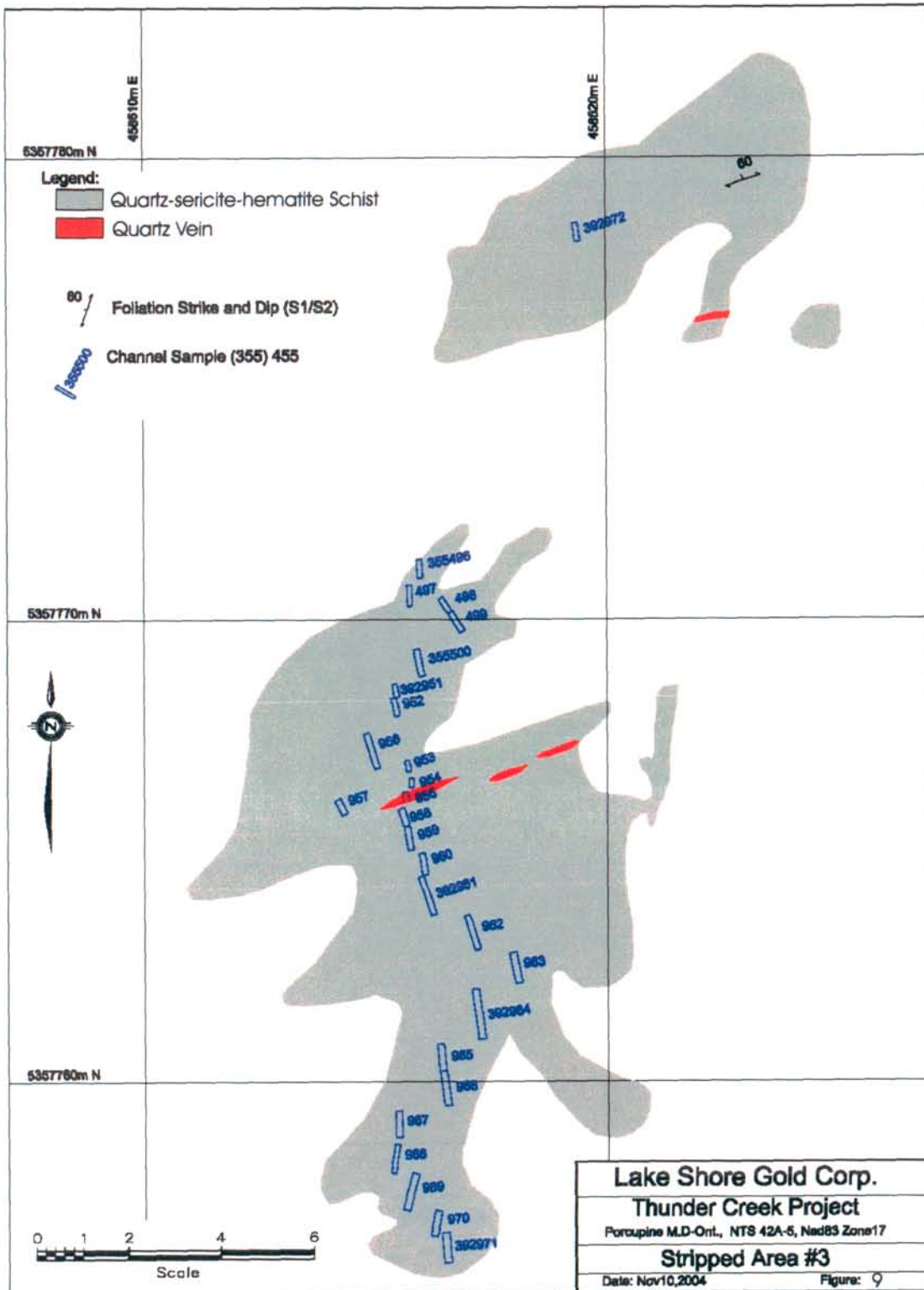






### 7.3.3 Stripped area three

Stripped Area Three covers approximately 200m<sup>2</sup> of quartz-sericite-hematite schist within the EWSZ (Figure 9). The zone appears to be strongly sheared sediments that have been intruded by salmon pink, aphanitic felsic dykes, likely related to the nearby monzonite intrusion. The schist displays a strong southwest to west (240° to 270°) trend, with a moderate to steep (60° to 80°) dip to the north. Stretching lineations on the dominant foliation plane exhibit a moderate plunge to the northwest (60° → 284°). Narrow quartz veins and quartz-calcite veinlets are located within the shear planes, contain up to 1% disseminated pyrite and display strong hematite alterations on the vein margins. Two samples of schist wall rock with minor pyrite yielded anomalous values gold values of 139 and 169 ppb.



#### 7.4 Mobile Metal Ion (MMI) soil sampling

An extensive Mobile Metal Ion (MMI) soil sample survey was conducted on the property. A complete sample database, and laboratory certificates are located in Appendix III and Appendix IV: An explanation of MMI technology is located in Appendix V.

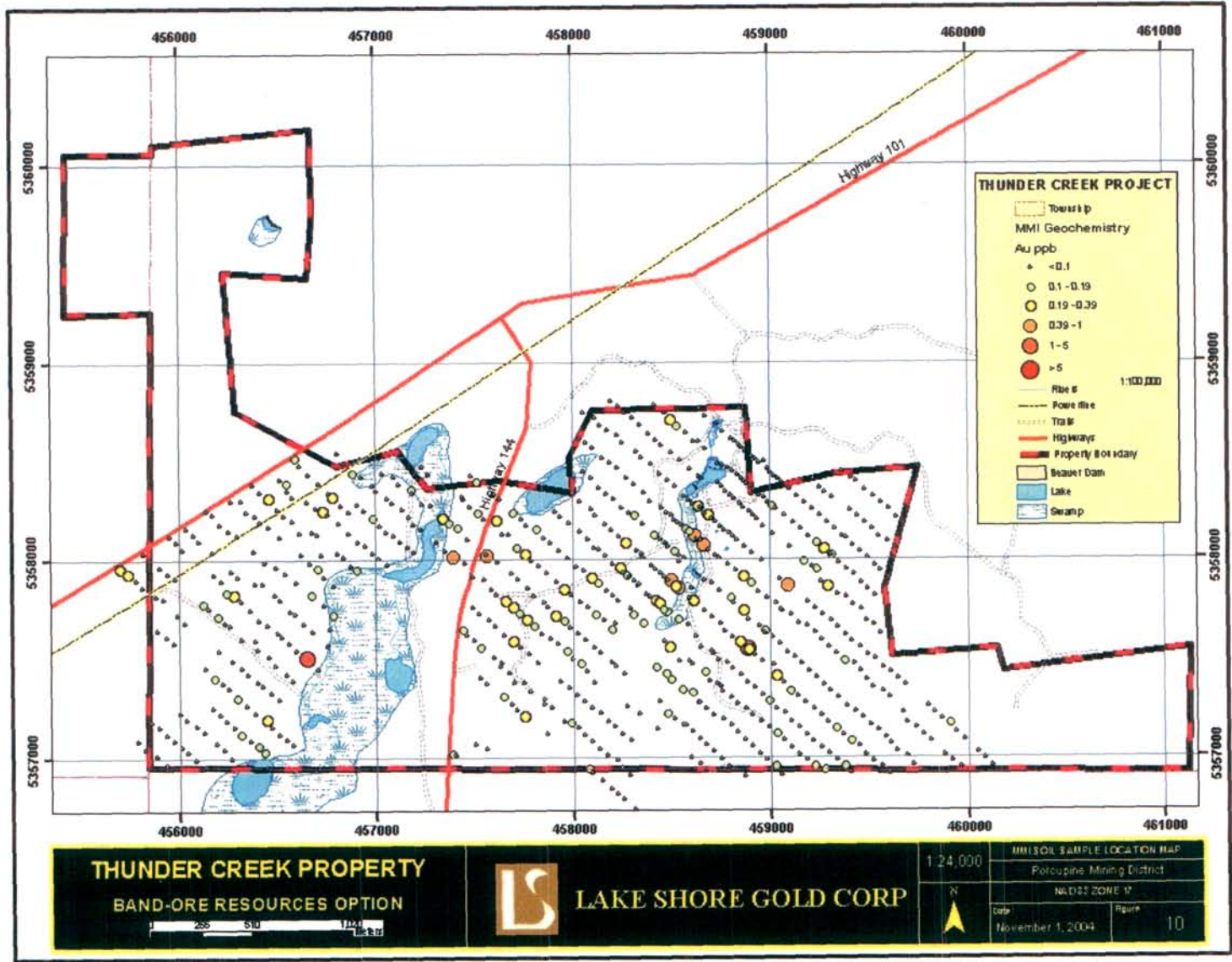
Twenty-seven lines, ranging between 250m and 2800m, accounting for 830 samples of B-Horizon soil were collected at a 50m-sample spacing. An existing grid cut by Battle Mountain Canada Ltd. was used for sample collection. Gridlines are spaced 125m apart, and have a northwest-southeast orientation (310°-130°).

Lines were run with a hip chain and compass, each sample site recorded using a hand held GPS. Sample sites are marked with flagging and the sample number inscribed on an aluminum tag. Sampling was both performed by Lake Shore Gold employees and contracted out to Vision Exploration. Sampling was started in early July and completed in late August. Each sample was collected with a soil auger. The samples are collected 10 cm below the base of the organic "humus" layer. Approximately 250-400 grams of soil are collected and placed in a labeled plastic bags sealed with plastic ties. The samples were then bagged and shipped SGS Analytical labs in Toronto where they were analyzed for Au, Ag, Pt, Co and Ni using the MMI-B analytical package.

Statistical analysis of soil samples collected on the Thunder Creek property indicate mean plus one standard deviation of 0.186 ppb Au and strongly anomalous values as twice that value, 0.39 ppb Au. Sample locations and data are included as Appendix III.

Sample results are plotted at 1:5,000 in Figure 5. Several anomalous samples with > 0.19 ppb Au highlight a NE trending structural zone, confirmed in drilling, near the interpreted mafic volcanic-alkalic intrusive complex contact. Similarly, the trace of an east-west trending shear zone in the central area of the property was highlighted by samples of >0.19ppb Au, and two samples of >0.39ppb Au.

Anomalous MMI samples correlate well with know areas of mineralization. The Rusk showing and margins of the alkalic igneous complex have show to have anomalous gold values through surface rock sampling and drilling. Soil sampling was able to highlight the Rusk Showing area with values of 0.45 and 0.49 ppb Au.



## 8.0 Conclusions

In 2004 a multidisciplinary exploration program was conducted on the Thunder Creek property. The effort revealed the presence of:

- i) A southwest trending structural (SWSZ) and alteration zone at cuts and occurs at the AIC contacts.
- ii) An east-west trending shear zone (EWSZ) causing dextral deflection of the southwest trending mafic volcanic-AIC-sedimentary contact and SWSZ.
- iii) Extension of the EWSZ into the metasedimentary rocks and associated alteration and mineralization.
- iv) Extension of the SWSZ/EWSZ near the AIC hanging wall contact south of the EWSZ, which was highlighted by MMI soil sampling and confirmed by drilling.
- v) A narrow southwest trending shear zone within the mafic volcanic rocks in the northeast portion of the property.

Syn-metamorphic auriferous vein systems are often focused in areas where shear zones cross-earlier folds of interlayered mafic and ultramafic sequences indicating the SWSZ and EWSZ have economic significance (Rhys, D. 2003). Mapping and magnetometer survey interpretation indicates the SWSZ is a minimum of 900m in length, and likely extends a similar distance south of the EWSZ displacement. The structural zone occurs near the footwall contact of the AIC and is associated with moderate to strong iron-carbonate alteration. The most significant assay values from drilling and lithogeochemical sampling occur within this structural and alteration corridor.

The EWSZ has created an approximately 300m dextral displacement of the SWSZ and is associated with anomalous soil samples, surface rock sampling, and up to 5.25 g/t gold over 1m in drilling (Samson 2005).

## 9.0 Recommendations

Based on the results of the 2003 and 2004 surface exploration and drilling programs (up to November 2004) an additional two 600m + drill holes are suggested to:

1. Test the down plunge extension of gold mineralization in TC03-06, which intersected 4.74 g/t gold over 2.9m, including 9.0 g/t gold over 0.8m and 8.42 g/t gold over 0.55m (Samson 2005). The zone represents an intersection between the footwall contact and the southwest trending structure. It is observed as strongly sheared mélange of ultramafic and sedimentary rocks with siliceous fragments selectively altered by sericite, iron-carbonate, and hematite. Mineralization occurs as 1% pyrite +/- chalcopyrite along the margins of quartz-albite-hematite +/- ankerite veinlets.
2. Test the down plunge extension of gold mineralization in TC04-12, which intersected 5.25 g/t gold over 1m (Samson 2005). Gold values are associated with a zone of volcanic rocks which display moderate to strong shearing, weak calcite to iron carbonate alteration, quartz-calcite stringer and red aphyric felsic dykes with associated hematite alteration. Sulfides are rare. The zone is located within the east-west shear (EWSZ) zone that causes a dextral deflection of the SWSZ and AIC structural zone. Lineations in the sheared sediments within the EWSZ indicate a probable plunge of  $60^{\circ} \rightarrow 284^{\circ}$ .

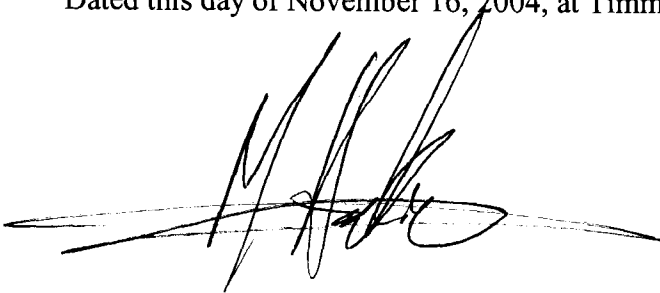
Further investigation into the geometry of the SWSZ and EWSZ intersection may assist following gold mineralization down plunge.

3. Further whole rock lithochemical sampling and analysis of the AIC and monzonite porphyry to identify any possible genetic link between the intrusives.
4. Whole rock and petrographic sampling of the mafic volcanic rocks near the hanging wall contact with the AIC to clearly distinguish the contact zone.

I, Michael Hocking of Deep River, Ontario do hereby certify that:

- 1) I hold a Bachelors of Science (Honours) Degree in Geology (2003) from Laurentian University in Sudbury, Ontario.
- 2) I have been practising my profession in Ontario, Quebec, and Newfoundland since 2001.
- 3) I have worked for Aurora Platinum Corp., Superior Diamonds Corp., and am presently employed by Lake Shore Gold Corp.
- 4) The information in this report and accompanying maps is based on my personal observations and direct supervision of the field work, published data, and assessment data contained in the files of the Resident Geologist's Office, Timmins, Ontario.
- 5) I do not have directly or indirectly, nor do I expect to receive, any interest in the subject property.

Dated this day of November 16, 2004, at Timmins, Ontario.

A handwritten signature in black ink, appearing to read 'M. Hocking', written over a horizontal line.

Michael W. A. Hocking, BSc (Geology)  
Geologist

## 11.0 References

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**TABLES AND FIGURES**

**Thunder Creek Project**

**Table 1 Thunder Creek Land Status**

**Table 2**

**Radiometric Ages and Stratigraphy in the Timmins Area.**

<b>Assemblage Name (Age in Ma)</b>	<b>Basal Contact Relationships</b>	<b>Dominant Rock Types</b>	<b>Volcanic Chemical Affinity</b>
<b>Timiskaming (2680 to 2674)</b>	Unconformable	Conglomerate, sandstone, mafic to intermediate volcanic rocks, and iron formation	Alkalic to Shoshonitic
<b>Porcupine (2690 to 2680)</b>	Unconformable	Turbidite, felsic to intermediate volcanic, conglomeratic, and iron formation	Calc-alkaline to shoshonitic
Thunder Creek Alkalic Igneous Complex (2687 ± 3 Ma)	Intrusive	Pyroxenite, Biotite- pyroxenite, Garnet Porphyritic Syenite	Ultramafic alkalic suite, lamprophyre affinity
Timmins Felsic Porphyry Suite  (e.g. Pearl Lake, Paymaster etc.)  (2691 to 2688 Ma)	Intrusive	Quartz-Feldspar Porphyry	Calc-alkaline
<b>Tisdale Assemblage (2710 to 2703)</b>	Conformable to Disconformable	Ultramafic, mafic, intermediate to felsic volcanic and iron formation	Komatiitic, tholeiitic, and calc-alkaline
<b>Deloro (2730 to 2724)</b>	Disconformable	Mafic, intermediate and felsic volcanic and iron formation.	Komatiitic, tholeiitic and calc-alkaline

After Ayer, J. et al. 2002

## **Appendix 1**

### **Lithogeochemical Rock Sample Descriptions and Locations**









Whole Rock Geochemistry

Sample	Zone	Easting	Northing	Date	Property	NTS	Sampler	Type	Analysis	Description	Lithology	SiO2%	Al2O3%	Fe2O3%	CaO%	MgO%	Na2O%	K2O%	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Th	Tm	U	Y	Yb
												%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
168145	17	457593.174	5357649.1	10-Jul-04	Thunder Creek	42 A/5	HMMH	grab	WR	Coarse grained garnetiferous ultramafic pegmatite, 45% melanites in apatite matrix, w/ finer zones of lamprophyre	Garnetiferous Ultramafic Pegmatite	39.1	7.48	17.57	20.76	4.43	1.39	0.49	<0.01	2.95	0.39	0.83	0.14	0.11	2.5	98.15	1185	60.7	23.8	40.3	130	8.5	432	2.1	716	135.5	176	14.8	43	2.3	7.9	297	16
168146	17	457579.39	5357681.9	10-Jul-04	Thunder Creek	42 A/5	HMMH	grab	WR	Coarse grained garnetiferous ultramafic pegmatite, 55% melanites in apatite matrix, w/ finer zones of lamprophyre	Garnetiferous Ultramafic Pegmatite	38	6.89	16.73	25.39	2.46	1.36	0.31	<0.01	3.38	0.42	1.08	0.13	0.03	1.96	98.14	1370	107.5	40.2	60.5	194	15.4	431	3.5	952	166	257	21.7	43	4.6	6.8	798	29
168147	17	457519.893	5357701.79	10-Jul-04	Thunder Creek	42 A/5	HMMH	grab	WR	Garnetiferous ultramafic pegmatite, smaller melanites than samples 169145/168146, hematitic banding, 0.5% sulfide	Garnetiferous Ultramafic Pegmatite	39.92	8.2	16.66	20.38	4.29	0.57	2.15	0.01	2.04	0.41	0.69	0.14	0.07	2.65	98.17	803	38.7	16.9	24.7	81	5.9	323	1.5	448	88	105.5	9.5	27	1.6	5.3	187	11.4

## **Appendix 2**

### **ALS CHEMEX Laboratory Certificates**



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

LAKE SHORE GOLD CORP.  
1650-701 W GEORGIA ST  
VANCOUVER BC V7Y 1C6

Page: 1  
D. 25-JUN-2004  
Account: LAKGOL

## CERTIFICATE T004037555

Project: L93200

P.O. No.:

This report is for 39 Rock samples submitted to our lab in Toronto, ON, Canada on 18-JUN-2004.

The following have access to data associated with this certificate:

H. MARSDEN

JACQUES SAMSON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM

To: LAKE SHORE GOLD CORP.  
ATTN: H. MARSDEN  
UNIT G, 1988 KINGSWAY ST  
SUDBURY ON P3B 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: \_\_\_\_\_



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

LAKE SHORE GOLD CORP.

1650-701 W GEORGIA ST

VANCOUVER BC V7Y 1C6

Page: 2 - A

To: Pages: 2 (A)

Date: 25-JUN-2004

Account: LAKGOL

Project: L93200

## CERTIFICATE OF ANALYSIS TO04037555

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	Au-GRA22
		Recvd Wt. kg 0.02	Au ppm 0.005	Au ppm 0.05
168101		2.29	0.877	
168102		2.16	0.154	
168103		1.96	0.888	
168104		1.73	0.016	
168105		2.26	2.98	
168106		2.05	0.019	
168107		1.25	0.061	
168108		1.53	<0.005	
168109		0.53	0.069	
168110		1.64	0.011	
168111		0.87	<0.005	
168112		0.87	<0.005	
168113		2.28	<0.005	
168114		1.74	0.008	
168115		2.41	0.011	
168116		1.17	0.007	
168117		1.17	0.267	
168118		2.47	<0.005	
168119		1.54	0.053	
168120		1.25	0.060	
168121		0.84	0.013	
168122		1.41	<0.005	
168123		2.14	0.010	
168124		1.51	0.008	
255401		0.70	0.006	
255401 R		<0.02	<0.005	
255402		1.55	<0.005	
255403		1.84	<0.005	
255404		0.82	0.043	
255405		2.07	0.010	
255406		1.32	0.465	
255407		0.88	2.23	
255408		0.87	0.019	
255409		1.33	0.039	
255410		0.51	1.500	
255411		0.56	0.012	
255412		0.70	>10.0	71.9
255413		1.48	0.169	
255414		1.09	0.483	



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Page: 1

L 29-JUN-2004

Account: LAKGOL

## CERTIFICATE TO04038013

Project: L93200

P.O. No.:

This report is for 4 Rock samples submitted to our lab in Toronto, ON, Canada on 22-JUN-2004.

The following have access to data associated with this certificate:

H. MARSDEN

JACQUES SAMSON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

To: LAKE SHORE GOLD CORP.  
ATTN: H. MARSDEN  
UNIT G, 1988 KINGSWAY ST  
SUDBURY ON P3B 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page: 2 - A  
# Pages: 2 (A)  
Date: 29-JUN-2004  
Account: LAKGOL

Project: L93200

**CERTIFICATE OF ANALYSIS TO04038013**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24
		Recvd Wt. kg	Au ppm
		0.02	0.005
168125		1.96	0.024
168126		1.14	0.037
168127		1.90	<0.005
168128		0.78	0.021



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Page: 1  
Finalized 30-JUL-2004  
Account: LAKGOL

## CERTIFICATE TO04043197

Project: L93200 / *L94000*  
P.O. No.: *Rock*  
This report is for 39 ~~Drill Core~~ samples submitted to our lab in Toronto, ON, Canada on 13-JUL-2004.  
The following have access to data associated with this certificate:

H. MARSDEN	JACQUES SAMSON
------------	----------------

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	27 element four acid ICP-AES	ICP-AES
Au-AA24	Au 50g FA AA finish	AAS

To: LAKE SHORE GOLD CORP.  
ATTN: H. MARSDEN  
UNIT G, 1988 KINGSWAY ST  
SUDBURY ON P3B 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



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Total ges: 2 (A - B)  
Finalized Date: 30-JUL-2004  
Account: LAKGOL

Project: L93200

## CERTIFICATE OF ANALYSIS TO04043197

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	Au-GRA22	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
040701R		1.85	<0.005		<0.5	7.34	<5	630	1.9	<2	0.73	<0.5	9	12	28	2.80
040702R		2.06	>10.0	62.2	13.4	0.63	<5	60	<0.5	3	0.10	<0.5	15	24	180	3.55
040703R		1.75	0.020		<0.5	5.72	<5	540	1.8	<2	2.40	<0.5	9	8	10	3.13
040704R		1.46	0.068		<0.5	3.70	<5	290	1.0	<2	0.61	<0.5	7	12	10	1.65
040705R		1.42	0.186		<0.5	6.56	<5	560	1.6	<2	0.50	<0.5	8	10	5	2.60
040706R		1.23	0.009		<0.5	5.59	<5	370	1.9	<2	0.66	<0.5	1	6	5	2.52
040707R		1.76	0.498		1.8	1.59	6	140	0.5	<2	1.90	<0.5	11	16	221	2.62
040709R		1.87	<0.005		<0.5	6.61	<5	480	1.4	<2	0.65	<0.5	6	11	6	2.43
040710R		1.71	0.284		<0.5	6.95	<5	440	1.4	2	0.61	<0.5	7	14	5	2.35
040711R		1.39	<0.005		<0.5	7.36	<5	600	1.6	<2	0.59	<0.5	7	8	5	2.52
040712R		1.77	<0.005		<0.5	6.65	<5	480	1.4	<2	0.82	<0.5	7	10	5	2.51
040713R		1.47	0.009		<0.5	7.17	<5	530	1.4	<2	1.62	<0.5	9	7	10	2.82
040714R		1.44	<0.005		<0.5	7.00	<5	610	2.3	<2	1.80	<0.5	7	8	3	2.74
040715R		1.71	0.006		<0.5	5.60	<5	350	1.4	<2	1.70	<0.5	7	10	5	2.19
040716R		2.24	0.020		<0.5	5.83	<5	240	1.0	<2	1.70	<0.5	7	10	5	1.86
040717R		2.11	<0.005		<0.5	7.14	<5	630	2.2	<2	1.61	<0.5	7	8	5	2.52
040718R		1.74	<0.005		<0.5	6.53	<5	550	1.9	<2	1.22	<0.5	6	11	3	2.50
040719R		1.22	0.032		<0.5	5.46	<5	390	1.7	<2	0.92	<0.5	9	12	34	2.27
040720R		2.47	0.010		<0.5	5.74	<5	330	1.4	<2	1.78	<0.5	6	12	4	2.34
040721R		2.04	0.022		1.7	0.78	<5	70	<0.5	<2	1.30	<0.5	6	18	282	1.77
040722R		1.90	0.010		0.7	3.02	<5	230	0.8	<2	3.36	<0.5	14	13	121	4.88
040723R		1.02	<0.005		<0.5	5.99	<5	440	1.1	<2	0.52	0.5	8	13	59	2.00
168129		1.60	0.010													
168130		1.41	0.013													
168131		1.06	0.009													
168131 R		<0.02	0.006													
168132		1.47	<0.005													
168133		1.95	0.006		<0.5	5.83	7	2890	1.4	<2	0.75	<0.5	18	96	38	2.80
168134		0.97	0.013		<0.5	2.66	<5	320	0.6	<2	0.55	<0.5	11	50	38	1.57
168135		1.71	0.011		1.0	2.70	<5	920	0.7	<2	0.08	<0.5	1	19	10	0.59
168136		1.43	0.006		<0.5	7.16	<5	1380	1.6	<2	1.26	<0.5	6	56	45	2.10
168137		1.80	0.005		<0.5	5.85	<5	1610	1.4	<2	0.53	<0.5	6	47	19	1.66
168138		2.08	0.085		<0.5	1.11	<5	750	<0.5	<2	0.05	<0.5	1	32	4	0.46
168139		2.24	0.010		<0.5	2.84	<5	2460	0.8	<2	0.04	<0.5	1	21	6	0.55
168140		2.09	0.011		<0.5	4.81	<5	1150	0.6	<2	0.19	<0.5	3	21	19	1.28
168141		1.84	0.082		<0.5	3.46	<5	1240	0.7	<2	0.30	<0.5	4	22	10	1.01
168142		3.23	4.02	3.36	23.4	0.34	<5	220	<0.5	39	0.01	6.7	2	22	10	0.20
168143		3.09	2.14		19.5	0.31	<5	220	<0.5	38	0.01	<0.5	3	23	63	0.38
168144		1.88	0.066		0.5	6.81	<5	560	1.5	<2	3.32	0.6	12	87	46	2.74





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Page: 2 - B  
 Total ges: 2 (A - B)  
 Finalized Date: 30-JUL-2004  
 Account: LAKGOL

Project: L93200

**CERTIFICATE OF ANALYSIS TO04043197**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		K % 0.01	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Ti % 0.01	V ppm 1	W ppm 10	Zn ppm 2
040701R		3.06	0.48	286	<1	1.19	58	300	4	0.03	<5	25	0.17	45	<10	32
040702R		0.21	0.04	40	<1	0.19	30	50	5360	3.44	<5	6	0.02	5	<10	42
040703R		2.92	0.75	570	<1	0.21	15	260	22	0.01	<5	31	0.15	36	10	57
040704R		1.02	0.26	158	<1	1.32	41	170	141	0.26	<5	40	0.08	22	<10	19
040705R		1.98	0.20	292	1	2.06	7	240	18	0.23	<5	43	0.12	39	<10	31
040706R		1.29	0.53	548	<1	2.55	6	30	6	0.01	5	71	0.09	1	<10	88
040707R		0.82	0.47	617	<1	0.05	18	150	10	0.35	<5	26	0.05	20	<10	35
040709R		1.58	0.37	261	<1	2.97	11	270	6	0.02	<5	64	0.13	38	10	29
040710R		1.47	0.25	211	<1	3.34	10	320	7	0.02	<5	59	0.14	40	<10	27
040711R		1.95	0.33	201	1	2.99	12	320	12	0.02	<5	64	0.15	43	<10	31
040712R		1.56	0.38	234	1	2.98	9	280	14	0.06	<5	69	0.14	37	10	70
040713R		2.28	0.74	279	<1	2.32	32	320	8	0.15	<5	68	0.18	40	<10	23
040714R		3.25	0.64	383	<1	0.72	9	300	4	0.01	<5	34	0.17	43	<10	46
040715R		1.26	0.67	267	<1	2.64	19	240	10	0.14	<5	106	0.11	30	<10	28
040716R		0.85	0.57	263	<1	3.52	10	260	11	0.08	<5	101	0.17	28	10	24
040717R		2.24	0.75	263	1	2.22	20	290	16	0.12	<5	94	0.17	43	<10	36
040718R		2.14	0.60	224	2	1.95	13	280	13	0.09	<5	76	0.16	42	<10	26
040719R		1.49	0.50	206	1	2.02	9	200	32	0.30	<5	69	0.13	32	<10	31
040720R		1.26	0.63	280	<1	2.65	12	350	9	0.15	<5	94	0.12	28	<10	25
040721R		0.38	0.06	556	1	0.03	8	80	4	0.03	<5	5	0.03	9	<10	16
040722R		1.48	1.00	1555	1	0.07	17	310	9	0.03	<5	34	0.13	30	<10	44
040723R		1.24	0.30	284	2	2.85	12	230	35	0.13	<5	83	0.17	32	<10	115
168129																
168130																
168131																
168131 R																
168132																
168133		3.26	0.53	307	2	1.42	63	380	18	0.52	<5	177	0.18	88	<10	50
168134		2.13	0.26	180	3	0.49	48	160	9	0.28	<5	123	0.07	32	<10	20
168135		1.39	0.01	69	<1	1.19	5	130	54	0.09	<5	149	0.03	8	<10	8
168136		4.45	0.48	465	<1	2.67	30	350	17	0.09	<5	337	0.10	45	10	39
168137		3.49	0.30	252	1	2.35	25	310	16	0.20	5	307	0.07	36	10	30
168138		0.98	0.01	65	6	0.27	5	70	33	0.07	<5	259	0.01	4	<10	13
168139		2.32	0.01	62	1	0.75	4	150	18	0.07	<5	208	0.02	10	10	16
168140		5.27	0.02	274	<1	0.64	10	380	15	0.03	<5	153	0.07	31	10	20
168141		2.37	0.02	240	3	1.17	19	190	16	0.17	<5	158	0.03	15	10	8
168142		0.21	<0.01	12	<1	0.12	4	10	6650	0.17	<5	346	0.01	5	<10	974
168143		0.22	<0.01	13	<1	0.09	4	10	4990	0.11	<5	515	0.01	4	<10	52
168144		4.31	0.98	661	3	3.09	54	550	140	0.34	<5	297	0.17	145	30	103



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Finalized

Page: 1

: 2-AUG-2004

Account: LAKGOL

## CERTIFICATE TO04044640

Project: L93200

P.O. No.:

This report is for 11 ~~Drill Core~~ <sup>rock</sup> samples submitted to our lab in Toronto, ON, Canada on 14-JUL-2004.

The following have access to data associated with this certificate:

H. MARSDEN

JACQUES SAMSON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	27 element four acid ICP-AES	ICP-AES
Au-AA24	Au 50g FA AA finish	AAS

To: LAKE SHORE GOLD CORP.  
ATTN: H. MARSDEN  
UNIT G, 1988 KINGSWAY ST  
SUDBURY ON P3B 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page: 2 - A

Total # ,es: 2 (A - B)

Finalized Date: 2-AUG-2004

Account: LAKGOL

Project: L93200

## CERTIFICATE OF ANALYSIS TO04044640

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
		0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	0.01
040751R		3.35	0.017	0.5	6.41	149	160	0.6	<2	4.91	<0.5	44	51	450	19.05	0.54
040752R		2.80	0.007	<0.5	7.34	7	460	1.4	<2	7.01	<0.5	39	79	110	7.32	0.71
040753R		2.52	<0.005	<0.5	8.54	17	220	<0.5	<2	7.28	<0.5	50	86	93	8.80	0.36
040754R		2.09	<0.005	<0.5	8.27	<5	20	0.5	<2	6.90	<0.5	49	63	56	9.52	0.19
040755R		2.62	<0.005	2.1	2.78	9	250	1.3	5	21.9	2.1	23	38	131	4.29	0.20
040756R		2.27	0.012	<0.5	6.42	<5	30	0.9	<2	10.80	<0.5	53	92	151	10.90	0.10
040757R		0.06	1.385	<0.5	6.92	1160	650	5.9	<2	0.02	<0.5	4	192	39	3.59	2.74
040758R		0.50	<0.005	<0.5	6.55	7	220	1.1	<2	4.55	<0.5	46	8	223	11.25	0.41
168148		1.52	0.006	<0.5	7.46	<5	80	1.1	<2	6.14	0.5	40	27	92	10.90	0.23
168149		1.57	0.006	<0.5	7.23	<5	70	0.7	<2	4.95	<0.5	48	23	90	10.15	0.15
165150		2.60	0.006	<0.5	7.30	6	670	1.4	<2	6.34	<0.5	34	71	99	6.59	0.93



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Total Tests: 2 (A - B)

Finalized Date: 2-AUG-2004

Account: LAKGOL

Project: L93200

## CERTIFICATE OF ANALYSIS TO04044640

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte Units LOR	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2
040751R		2.50	1770	2	0.96	82	450	21	9.03	<5	647	0.73	277	<10	144
040752R		3.23	1710	1	3.15	68	1310	5	0.73	<5	624	0.60	246	<10	126
040753R		3.74	1455	<1	1.70	108	420	<2	0.21	<5	323	0.63	257	<10	91
040754R		2.77	2070	<1	2.74	81	500	3	0.23	<5	317	0.78	298	<10	108
040755R		2.29	2370	1	0.71	33	3500	150	0.63	<5	2580	0.29	166	<10	362
040756R		3.45	1955	1	1.41	44	410	10	3.45	<5	556	0.58	261	<10	95
040757R		0.35	89	2	0.11	18	300	23	0.02	106	90	0.26	86	10	41
040758R		2.28	2700	<1	2.90	32	1060	11	0.20	<5	394	1.10	416	<10	112
168148		3.28	1790	<1	2.64	26	610	6	0.34	<5	447	0.93	355	<10	125
168149		3.41	1845	1	3.36	21	540	7	0.53	<5	404	0.86	340	<10	113
165150		2.85	1655	<1	3.35	54	1160	11	0.80	<5	549	0.54	211	<10	121



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Page: 1  
 Finalized Date: 29-SEP-2004  
 Account: LAKGOL

**CERTIFICATE TO04064083**

Project: TIMMINS GOLD  
 P.O. No.: L93200  
 This report is for 61 Rock samples submitted to our lab in Toronto, ON, Canada on 21-SEP-2004.

The following have access to data associated with this certificate:

H. MARSDEN

JACQUES SAMSON

**SAMPLE PREPARATION**

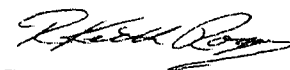
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
DRY-21	High Temperature Drying
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
As-AA45	Trace As-Aqua regia digestion	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM

To: LAKE SHORE GOLD CORP.  
 ATTN: H. MARSDEN  
 UNIT G, 1988 KINGSWAY ST  
 SUDBURY ON P3B 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



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ALS Canada Ltd.

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North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

LAKE SHORE GOLD CORP.

1650-701 W GEORGIA ST

VANCOUVER BC V7Y 1C6

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Total # Pages: 3 (A)

Finalized Date: 29-SEP-2004

Account: LAKGOL

Project: TIMMINS GOLD

## CERTIFICATE OF ANALYSIS TO04064083

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	Au-GRA22	As-AA45
		Recvd Wt. kg 0.02	Au ppm 0.005	Au ppm 0.05	As ppm 1
355451		9.76	0.052		<1
355452		10.85	0.068		<1
355453		8.92	<0.005		<1
355454		5.23	<0.005		<1
355455		4.04	0.029		<1
355456		4.10	0.031		<1
355457		5.20	1.230		1
355458		4.98	0.172		<1
355459		10.01	0.020		<1
355460		0.05	1.275		1255
355461		3.55	0.102		<1
355462		8.92	0.017		1
355463		8.15	0.031		<1
355464		13.70	<0.005		2
355465		15.16	0.005		<1
355466		11.16	0.008		2
355467		12.85	<0.005		4
355468		9.00	<0.005		11
355469		5.97	0.638		<1
355471		7.06	0.032		1
355472		8.88	0.041		<1
355473		5.58	0.016		<1
355474		4.91	0.015		<1
355475		5.50	4.14	3.77	<1
355476		7.06	0.741		<1
355476 R		<0.02	0.798		<1
355477		7.44	0.157		<1
355478		7.76	0.110		<1
355479		5.65	0.024		<1
355480		0.08	1.290		1205
355481		7.05	0.109		<1
355482		9.45	0.196		<1
355483		4.34	<0.005		3
355484		5.15	2.35		<1
355485		6.89	3.40	2.95	<1
355486		5.73	0.096		<1
355487		8.01	0.048		<1
355488		6.02	0.009		<1
355489		9.14	0.005		<1
355490		4.31	<0.005		<1



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Total Pages: 3 (A)

Finalized Date: 29-SEP-2004

Account: LAKGOL

Project: TIMMINS GOLD

## CERTIFICATE OF ANALYSIS TO04064083

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	Au-GRA22	As-AA45
		Recvd Wt. kg 0.02	Au ppm 0.005	Au ppm 0.05	As ppm 1
355491		6.37	<0.005		<1
355492		7.32	0.013		<1
355493		5.20	<0.005		<1
355494		2.60	<0.005		<1
355495		0.09	4.27	4.17	8
355496		5.28	0.014		3
355497		6.10	0.084		6
355498		5.08	0.009		6
355499		5.05	0.012		3
355500		5.83	0.014		7
392963		6.00	0.012		6
392963R		<0.02	0.020		5
392964		9.72	0.012		12
392965		8.35	0.006		5
392966		8.19	0.020		7
392967		7.28	0.005		2
392968		6.54	0.018		3
392969		7.08	<0.005		6
392970		6.49	0.033		9
392971		7.35	<0.005		10
392972		7.15	0.053		<1



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Page: 1  
Finalized L : 27-JUL-2004  
Account: LAKGOL

## CERTIFICATE TO04043196

Project: L93200  
 P.O. No.: *whole rock*  
 This report is for 3 ~~Drill Core~~ samples submitted to our lab in Toronto, ON, Canada on 13-JUL-2004.  
 The following have access to data associated with this certificate:  
 H. MARSDEN                      JACQUES SAMSON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF06	Whole Rock Package - XRF	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM
ME-MS82	Complete rare earth package	ICP-MS

To: LAKE SHORE GOLD CORP.  
ATTN: H. MARSDEN  
UNIT G, 1988 KINGSWAY ST  
SUDBURY ON P3B 4J8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 





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 Total Pages: 2 (A - C)  
 Finalized Date: 27-JUL-2004  
 Account: LAKGOL

Project: L93200

**CERTIFICATE OF ANALYSIS TO04043196**

Sample Description	Method	WEI-21	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06	ME-XRF06
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units LOR	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
168145		2.15	39.10	7.48	17.57	20.76	4.43	1.39	0.49	<0.01	2.95	0.39	0.83	0.14	0.11	2.50
168146		3.24	38.00	6.89	16.73	25.39	2.46	1.36	0.31	<0.01	3.38	0.42	1.08	0.13	0.03	1.96
168147		2.86	39.92	8.20	16.66	20.38	4.29	0.57	2.15	0.01	2.04	0.41	0.69	0.14	0.07	2.65



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 Total: 2 (A - C)  
 Finalized Date: 27-JUL-2004  
 Account: LAKGOL

Project: L93200

**CERTIFICATE OF ANALYSIS TO04043196**

Sample Description	Method	ME-XRF06	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82
	Analyte Units LOR	Total %	Ce ppm	Dy ppm	Er ppm	Eu ppm	Gd ppm	Ho ppm	La ppm	Lu ppm	Nd ppm	Pr ppm	Sm ppm	Tb ppm	Th ppm	Tm ppm
		0.01	0.5	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.5	0.1	0.1	0.1	1	0.1
168145		98.15	1185	60.7	23.8	40.3	130.0	8.5	432	2.1	716	135.5	176.0	14.8	43	2.3
168146		98.14	1370	107.5	40.2	60.5	194.0	15.4	431	3.5	952	168.0	257	21.7	43	4.6
168147		98.17	803	38.7	16.9	24.7	81.0	5.9	323	1.5	448	88.0	105.5	9.5	27	1.6



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Total: Pages: 2 (A - C)

Finalized Date: 27-JUL-2004

Account: LAKGOL

Project: L93200

## CERTIFICATE OF ANALYSIS TO04043196

Sample Description	Method Analyte Units LOR	ME-MS82	ME-MS82	ME-MS82
		U ppm	Y ppm	Yb ppm
		0.5	0.5	0.1
168145		7.9	297	16.0
168146		6.8	798	29.0
168147		5.3	187.0	11.4

## **Appendix 3**

### **Mobile Metal Ion (MMI) Sample Locations and Descriptions**

Soil Geochemistry

	Sample	Zone	Eastings	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
1	40001	17U	458439	5357776.76	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy grey/light brown, under deep organics.	0.25	3	8	0.05	4.43
2	40002	17U	458455	5357749.262	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b, older cut area	0.11	10	1.5	0.05	2.98
3	40003	17U	458479	5357730.799	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark grey sandy, 10m away from beaver swamp	0.13	10	32	0.05	4.24
4	40004	17U	458535	5357694.469	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy, 15m away from beaver pond, 80m from last sample.	0.15	24	9	0.05	2.23
5	40005	17U	458586	5357667.745	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	49	92	0.05	0.91
6	40006	17U	458620	5357616.327	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy, on oc.	0.05	11	51	0.05	1.59
7	40007	17U	457632	5358303.284	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b w/ pebbles (boulders)	0.05	7	14	0.05	1.4
8	40008	17U	457699	5358235.778	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	light grey coarse sand, under 0.5m of organics	0.11	12	76	0.05	1.59
9	40009	17U	457742	5358203.268	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	grey coarse sand on oc.	0.05	31	32	0.05	0.41
10	40010	17U	457767	5358169.753	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	brown sandy on oc.	0.05	17	14	0.05	0.33
11	40011	17U	457815	5358153.578	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy brown (boulders)	0.19	21	36	0.11	6.53
	40012	17U	457857	5358106.88	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	tillish a+b, soil at 50m may have been disturbed, sample taken at 53m (cut area)	0.05	17	29	0.05	0.54
12																
13	40013	17U	457889	5358082.465	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	brn sandy (boulders) near cut area.	0.05	22	57	0.17	1.38
14	40014	17U	457930	5358043.103	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	10	0.05	2.28
15	40015	17U	457976	5358005.037	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	8	48	0.05	3.38
16	40016	17U	458021	5357963.581	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	67	0.05	3.26
17	40017	17U	458056	5357940.957	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	dark clayish, some organics.	0.05	90	127	0.05	2.58
18	40018	17U	458097	5357902.821	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	grey sandy under organics	0.25	2	31	0.05	2.46
19	40019	17U	458125	5357879.334	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy brn, older cut area	0.14	46	61	0.05	4.53
20	40020	17U	458171	5357841.274	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	6	43	0.05	9.44
21	40021	17U	458206	5357813.61	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	15	140	0.18	49.2
22	40022	17U	458232	5357793.288	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	drk brn sandy	0.05	9	95	0.11	2.44
23	40023	17U	458290	5357750.265	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy grey under organics, older cut area	0.05	5	67	0.05	2.55
24	40024	17U	458306	5357720.824	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy light brn, older cut area	0.15	43	54	0.05	3.21
25	40025	17U	458356	5357680.242	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy light brn, may be old cut area	0.11	15	19	0.05	2.89
26	40026	17U	458466	5357588	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	drk grey clay under organics, 100m from last sample	0.05	42	101	0.05	0.59
27	40027	17U	458490	5357558.509	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	drk brn coarse sand	0.21	20	42	0.19	1.77
28	40028	17U	458543	5357487.192	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	grey silty w/ pebbles (boulders)	0.05	4	5	0.05	0.26
29	40029	17U	458593	5357487.778	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	8	26	0.05	0.82
30	40030	17U	458607	5357471.325	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	15	39	0.05	1.96
31	40031	17U	458666	5357428.816	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.13	21	44	0.11	3.16
32	40032	17U	458696	5357384.579	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	8	26	0.05	1.53
33	40033	17U	458747	5357357.222	10-Jul-04	91+25E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	3	25	0.05	2.35
34	40034	17U	458651	5357556.185	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b (boulders)	0.05	5	23	0.05	1.5
35	40035	17U	458706	5357540.167	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	17	0.05	4.39
36	40036	17U	458715	5357527.045	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy light brn	0.05	20	28	0.05	1.29
37	40037	17U	458737	5357494.886	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	5	23	0.05	2.11
38	40038	17U	458779	5357481.152	10-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	12	21	0.05	1.16
39	40039	17U	457614	5358197.019	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	grey sandy under wet organics	0.25	11	38	0.05	3.72
40	40040	17U	457678	5358129.509	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	98	55	0.1	2.39

**Soil Geochemistry**

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
41	40041	17U	457644	5358127.354	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	7	0.05	1.2
42	40042	17U	457718	5358057.367	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	drk brn sandy on oc	0.11	15	23	0.05	1.06
43	40043	17U	457758	5358026.132	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy brn	0.2	16	41	0.05	3.96
44	40044	17U	457791	5357992.516	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy brn (boulders)	0.05	13	19	0.1	2.03
45	40045	17U	457827	5357966.06	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b (older cut area)	0.05	9	22	0.05	1.57
46	40046	17U	457868	5357932.081	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy (boulders)	0.05	29	83	0.05	6.51
47	40047	17U	457916	5357886.653	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	9	43	0.05	4.79
48	40048	17U	457954	5357848.674	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	drk grey under organics, older cut area, 5m from old road	0.34	8	98	0.05	4.33
49	40049	17U	457997	5357821.755	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	17	0.05	0.78
50	40050	17U	458038	5357785.746	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	30	0.05	4.39
51	40051	17U	458076	5357758.29	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	29	46	0.05	3.29
52	40052	17U	458114	5357722.351	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	drk clay silty under 0.5m organics	0.12	33	276	0.05	11.3
53	40053	17U	458157	5357697.302	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b (boulders)	0.05	6	31	0.1	2.14
54	40054	17U	458196	5357643.983	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy light brn under 0.5m organics	0.12	5	33	0.05	5.58
55	40055	17U	458218	5357677.118	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	4	13	0.05	0.53
56	40056	17U	458218	5357677.118	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy light brn	0.05	4	9	0.05	3.09
57	40057	17U	458420	5357457.063	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	drk brn/grey under 0.5m organics, 210m from last sample	0.13	32	34	0.05	4.29
58	40058	17U	458470	5357424.871	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	drk grey/brn under organics	0.14	11	14	0.05	1.93
59	40059	17U	458497	5357393.594	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	bren sandy w/ pebbles, on oc	0.12	19	37	0.21	1.34
60	40060	17U	458556	5357339.4	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy drk brn on oc	0.18	6	13	0.05	0.49
61	40061	17U	458606	5357326.769	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	light brn, still on oc, 80m from last sample	0.12	7	15	0.05	1.35
62	40062	17U	458639	5357274.603	12-Jul-04	90+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	21	0.05	2.52
63	40063	17U	458558	5357163.248	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	grey sandy/silty, 0.5m organics	0.05	21	145	0.05	0.82
64	40064	17U	458516	5357195.849	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	grey silty under 75cm organics (75m from last sample, swamp)	0.05	55	146	0.05	1.71
65	40065	17U	458475	5357222.199	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	grey sandy under 1m organics, some organics in sample	0.18	4	62	0.1	1.13
66	40066	17U	458439	5357284.159	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	grey sandy under 1m organics, some organics in sample	0.05	12	31	0.05	1.12
67	40067	17U	458259	5357424.642	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	grey sandy 0.5m organics, 220m from last sample(swamp)	0.05	104	122	0.05	1.83
68	40068	17U	458215	5357464.17	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	3	10	0.05	0.81
69	40069	17U	458196	5357477.447	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	4	12	0.05	4.31
70	40070	17U	458141	5357528.334	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	12	48	0.11	3.11
71	40071	17U	458111	5357554.596	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy (pebbles)	0.05	8	22	0.05	2.12
72	40072	17U	458063	5357594.055	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	3	30	0.05	2.4
73	40073	17U	458026	5357622.697	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	sandy b (pebbles)	0.05	7	60	0.05	6.94
74	40074	17U	457987	5357658.803	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy, (boulders), older cut area	0.05	22	86	0.13	5.22
75	40075	17U	457959	5357690.058	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	light brn silty clay under org (older cut area)	0.15	22	65	0.05	4.95
76	40076	17U	457914	5357713.07	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy under 1m of org (some org in sample)	0.24	6	10	0.05	3.49
77	40077	17U	457875	5357760.322	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy under 25cm of org	0.05	20	45	0.05	6.76
78	40078	17U	457853	5357786.629	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	9	11	0.05	2.2
79	40079	17U	457806	5357818.622	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy (older cut area)	0.05	14	176	0.05	7.66
80	40080	17U	457770	5357854.181	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	6	9	0.05	0.7
81	40081	17U	457719	5357895.558	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	sandy a+b (70m from last sample, oc)	0.05	5	19	0.05	9.73

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
82	40082	17U	457687	5357929.015	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	8	0.05	5.72
83	40083	17U	457618	5357988.532	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	sandy a+b (70m from last sample, oc)	0.05	10	28	0.05	2.13
84	40084	17U	457569	5358017.447	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.64	37	78	0.3	10.3
85	40085	17U	457562	5358024.021	13-Jul-04	88+75E	Bristol	42A05	JY/RD	MMI-B	sandy a+b (25m from hwy 144)	0.05	4	11	0.05	0.83
86	40086	17U	457491	5357914.219	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	5	13	0.05	0.63
87	40087	17U	457552	5357900.288	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	16	0.05	3
88	40088	17U	457591	5357849.015	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	18	29	0.05	1.99
89	40089	17U	457616	5357825.377	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	dark brn sandy	0.05	6	20	0.05	2.32
90	40090	17U	457657	5357788.807	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.22	6	38	0.05	9.35
91	40091	17U	457696	5357760.708	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	light brn silty	0.24	34	96	0.05	5.02
92	40092	17U	457730	5357730.039	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	clayish silt under org, near old road	0.12	24	68	0.05	6.56
93	40093	17U	457768	5357694.043	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	clayish silt under org, near old road	0.26	11	38	0.05	5.35
94	40094	17U	457804	5357662.194	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy under 1m of org (close to old road)	0.14	11	29	0.05	3.51
95	40095	17U	457842	5357628.836	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	light brn silty under org, near old road	0.05	3	37	0.05	2.81
96	40096	17U	457884	5357601.067	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	grey clayish under org, near old road	0.05	49	105	0.05	7.94
97	40097	17U	457922	5357572.552	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	dark grey silty under org, swamp	0.05	24	78	0.05	4.66
98	40098	17U	457966	5357535.684	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy, 0.5m org, swamp	0.12	15	123	0.16	9.07
99	40099	17U	457999	5357496.528	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	sandy b, pebbles	0.05	16	41	0.11	1.5
100	40100	17U	458040	5357474.093	14-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.16	34	91	0.05	2.86
101	40101	17U	457529	5357402.812	11-Jul-04	N/A	Bristol	42A05	HM	MMI	Swamp Good sandy B grey	0.05	8	114	0.19	0.67
102	40102	17U	457566	5357371.09	11-Jul-04	N/A	Bristol	42A05	HM	MMI	40 cm to sandy, pebbly B	0.05	37	53	0.12	0.72
103	40103	17U	457647	5357305.54	11-Jul-04	N/A	Bristol	42A05	HM	MMI	20 cm to sandy B	0.17	8	32	0.05	3.34
104	40104	17U	457689	5357269.404	11-Jul-04	N/A	Bristol	42A05	HM	MMI	20 cm to sandy B	0.05	31	43	0.05	0.49
105	40105	17U	457717	5357238.135	11-Jul-04	N/A	Bristol	42A05	HM	MMI	1.0m to fine sand clay pale yellow B	0.05	10	21	0.05	0.78
106	40106	17U	457753	5357207.503	11-Jul-04	N/A	Bristol	42A05	HM	MMI	30 cm to yellow fine sandy B	0.2	39	32	0.05	1.87
107	40107	17U	457870	5357121.082	11-Jul-04	N/A	Bristol	42A05	HM	MMI	Oxidized sandy B	0.05	15	128	0.05	0.52
108	40108	17U	458077	5356938.062	11-Jul-04	N/A	Bristol	42A05	HM	MMI	Oxidized sandy B	0.17	3	5	0.05	0.6
109	40109	17U	458097	5356922.256	11-Jul-04	N/A	Bristol	42A05	HM	MMI	Shallow sand fine sandy B	0.05	0.5	6	0.05	0.11
110	40151	17U	458073	5357435.6	14-Jul-04	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	12	1.5	0.05	5.69
111	40152	17U	458110	5357381.304	14-Jul-04	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	32	51	0.05	2.66
112	40153	17U	458273	5357257.992	14-Jul-04	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty(205m from last sample/swamp/deep org	0.05	49	80	0.05	0.9
113	40154	17U	458335	5357216.82	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty, 1.5m of org, (75m from last sample, swamp)	0.05	4	45	0.05	0.62
114	40155	17U	458766	5358650.645	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy A + B	0.05	3	35	0.05	3.11
115	40156	17U	458729	5358689.081	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Grey sandy (10m from creek/open area)	0.05	46	53	0.26	1.09
116	40157	17U	458675	5358723.283	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	3	30	0.05	2.04
117	40158	17U	458649	5358759.579	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy brown (5m from drill road)	0.05	9	39	0.05	1.33
118	40159	17U	458677	5358557.079	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	9	57	0.14	2.26
119	40160	17U	458642	5358595.402	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	2	10	0.05	3.24
120	40161	17U	458617	5358596.623	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	3	19	0.12	1.35
121	40162	17U	458580	5358640.034	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	2	24	0.05	7.69
122	40163	17U	458526	5358672.648	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.12	18	63	0.05	1.37

## Soil Geochemistry

Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb	
123	40164	17U	458499	5358708.16	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Light brown sandy (very close to oc.)	0.31	6	27	0.05	2.29
124	40165	17U	458468	5358744.966	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (on outcrop)	0.05	4	8	0.05	0.19
125	40167	17U	458598	5358456.309	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (on outcrop)	0.05	27	129	0.05	0.23
126	40168	17U	458545	5358502.724	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (pebbles), very close to oc.	0.05	28	78	0.05	1.01
127	40169	17U	458503	5358539.059	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy A + B (on outcrop)	0.05	11	23	0.05	0.87
128	40170	17U	458455	5358579.62	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (pebbles), very close to oc., some organics	0.05	30	56	0.16	1.08
129	40171	17U	458428	5358606.897	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (pebbles), very close to oc.	0.05	19	53	0.05	1.5
130	40172	17U	458387	5358636.025	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy with pebbles, on oc., some org mixed in sample	0.05	5	12	0.05	0.19
131	40173	17U	458341	5358678.643	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Light brown sandy (close to oc.)	0.05	12	53	0.05	1.98
132	40174	17U	458308	5358717.405	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown coarse sand disseminated rocks, pebbles	0.05	6	43	0.05	1.95
133	40175	17U	458267	5358740.749	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy brown	0.05	20	76	0.05	1.67
134	40179	17U	458113	5358720.084	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy with pebbles, "coarse sandy"	0.05	18	42	0.05	1.91
135	40180	17U	458140	5358682.389	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown clayish "boulders too"	0.05	17	20	0.05	0.36
136	40181	17U	458177	5358656.715	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown very coarse sandy	0.05	14	36	0.05	2.45
137	40182	17U	458227	5358632.308	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	14	30	0.05	1.01
138	40183	17U	458256	5358589.071	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	15	62	0.11	1.71
139	40184	17U	458324	5358548.205	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy B with pebbles	0.05	4	18	0.05	1.67
140	40185	17U	458350	5358517.721	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy "bouldery"	0.05	16	17	0.05	0.88
141	40186	17U	458401	5358483.423	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy Brown plus A	0.05	15	18	0.05	1.68
142	40187	17U	458446	5358431.622	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Grey coarse with pebbles	0.05	7	90	0.05	7.77
143	40188	17U	458486	5358400.677	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Grey sandy pebbles, open area, may have been disturbed	0.05	31	98	0.11	3.69
144	40189	17U	458521	5358372.366	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Clayish-brown, may be disturbed, 30m from swamp	0.05	13	147	0.05	5.76
145	40190	17U	458450	5358260.88	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown Sandy, open area, could potentially be disturbed	0.05	14	97	0.22	2.34
146	40191	17U	458398	5358291.807	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Light brown + dark brown sandy	0.05	47	186	0.05	1.85
147	40192	17U	458364	5358336.749	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy pebbles, boulders	0.05	45	109	0.12	1.26
148	40193	17U	458315	5358384.031	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown coarse sand with pebbles	0.05	7	57	0.05	2.47
149	40194	17U	458278	5358411.864	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown coarse sandy	0.05	13	39	0.05	0.8
150	40195	17U	458229	5358464.314	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy with pebbles	0.05	6	23	0.05	0.94
151	40196	17U	458192	5358486.932	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A inbetween oc.	0.05	5	25	0.05	2.13
152	40197	17U	458156	5358514.303	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B pebbles	0.05	16	63	0.05	1.3
153	40198	17U	458106	5358562.662	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	3	24	0.05	3.14
154	40199	17U	458069	5358590.896	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark brown coarse with pebbles	0.05	33	61	0.14	0.94
155	40200	17U	458039	5358607.728	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B mixed with dark organic soil on oc.	0.05	10	60	0.05	1.53
156	40251	17U	456590	5358513.356	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Light grey coarse sand	0.16	13	71	0.05	2.71
157	40252	17U	456617	5358480.329	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Grey sandy with org,	0.05	25	83	0.05	1.14
158	40253	17U	456663	5358432.118	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy with pebbles	0.05	4	27	0.05	0.45
159	40254	17U	456712	5358385.864	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	8	18	0.05	0.67
160	40255	17U	456762	5358339.609	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark brown sandy	0.05	3	16	0.05	0.4
161	40256	17U	456782	5358318.985	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.33	9	18	0.05	4.15
162	40257	17U	456827	5358276.241	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	12	9	0.05	0.32
163	40258	17U	456864	5358244.196	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Light brown sandy	0.05	20	30	0.05	2.3



## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
164	40259	17U	456910	5358278.862	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	7	35	0.05	1.32
165	40260	17U	456941	5358248.164	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	11	40	0.05	0.59
166	40261	17U	456984	5358212.994	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.12	5	4	0.05	0.51
167	40262	17U	457021	5358175.409	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	3	16	0.05	0.56
168	40263	17U	457054	5358142.017	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark brown sandy (possibly disseminated boulders in sample)	0.05	19	105	0.05	6.68
169	40264	17U	457095	5358121.219	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	8	23	0.05	1.27
170	40265	17U	457125	5358091.389	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	9	24	0.05	1.24
171	40266	17U	457163	5358062.251	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	2	23	0.05	1.44
172	40267	17U	457195	5358035.723	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (edge of creek)	0.05	4	13	0.05	0.66
173	40268	17U	457231	5358153.558	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	3	14	0.05	0.64
174	40269	17U	457196	5358179.567	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark brown sandy	0.05	6	83	0.05	4.43
175	40270	17U	457169	5358218.567	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.1	11	42	0.05	1.89
176	40271	17U	457137	5358253.698	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	7	86	0.05	2.19
177	40272	17U	457086	5358286.126	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B (older cut area)	0.05	4	24	0.05	1.08
178	40273	17U	457060	5358313.39	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy (older cut area)	0.05	0.5	13	0.05	0.97
179	40274	17U	457007	5358351.433	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Brown sandy	0.05	11	20	0.05	0.42
180	40275	17U	456988	5358377.817	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark brown sandy with org.	0.05	2	10	0.05	0.35
181	40276	17U	456925	5358419.564	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark grey sandy	0.05	23	52	0.05	1.47
182	40277	17U	456885	5358441.254	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Dark brown sandy (edge of powerline)	0.16	5	36	0.05	0.94
183	40278	17U	456841	5358486.821	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	Sandy A + B	0.05	4	56	0.05	0.7
184	40280	17U	456519	5358407.085	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	55	0.05	0.21
185	40281	17U	456548	5358384.75	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ pebbles	0.17	39	46	0.05	2.13
186	40282	17U	456555	5358351.932	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	48	57	0.05	0.49
187	40283	17U	456578	5358320.986	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	1	7	0.05	0.31
188	40284	17U	456655	5358292.159	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	drk grey/brn w/ organics	0.05	1	6	0.05	0.26
189	40285	17U	456699	5358264.298	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	17	0.05	0.48
190	40286	17U	456732	5358249.928	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn clay	0.25	2	4	0.05	6.5
191	40287	17U	456757	5358226.907	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	15	0.05	0.53
192	40288	17U	456815	5358185.084	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	0.5	10	0.05	0.26
193	40289	17U	456865	5358134.833	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	11	71	0.05	1.55
194	40290	17U	456911	5358091.868	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	8	54	0.05	1.28
195	40291	17U	456946	5358070.895	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	15	54	0.05	1.2
196	40292	17U	456983	5358033.427	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	9	31	0.05	0.84
197	40293	17U	457017	5358010.069	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	19	38	0.05	0.92
198	40294	17U	457058	5357975.195	N/A	85+00E	Bristol	42A05	JY/RD	MMI-B	drk grey/brn sandy, edge of swamp	0.05	18	45	0.05	1.42
199	40295	17U	456377	5358382.933	N/A	83+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	11	36	0.05	2.03
200	40296	17U	456412	5358342.115	N/A	83+75E	Bristol	42A05	JY/RD	MMI-B	drk brn sandy	0.05	2	15	0.05	0.14
201	40297	17U	456456	5358310.784	N/A	83+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy w/ pebbles + organics	0.25	22	41	0.05	3.66
202	40298	17U	456503	5358256.945	N/A	83+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	9	30	0.05	0.42
203	40299	17U	456532	5358220.018	N/A	83+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ pebbles	0.05	9	53	0.05	1.93
204	40300	17U	456579	5358194.68	N/A	83+75E	Bristol	42A05	JY/RD	MMI-B	drk brn coarse sand	0.05	0.5	5	0.05	0.67

Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
205	40301	17U	458429	5357142.921	15-Jul-04	87+50E	Bristol	42A05	JY/RD	MMI-B	grey silty, some org in sample, under 1m of org, 125m away from last sample	0.05	16	60	0.05	1.15
206	40302	17U	458290	5357089.331	15-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	150m from tl, grey sandy under 1m of org, some org in sample	0.05	3	20	0.05	0.47
207	40303	17U	458248	5357119.666	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn sandy, some org in sample	0.05	5	19	0.05	0.43
208	40304	17U	458209	5357153.86	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey sandy, 75m from last sample	0.05	5	29	0.05	3.43
209	40305	17U	458176	5357184.46	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk grey silty	0.05	4	51	0.05	1.43
210	40306	17U	458141	5357222.583	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	18	49	0.05	1.15
211	40307	17U	458096	5357250.931	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	12	29	0.05	4.17
212	40308	17U	458056	5357281.328	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	35	61	0.05	1.82
213	40309	17U	458020	5357316.948	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	37	69	0.05	1.4
214	40310	17U	457983	5357351.537	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	6	13	0.05	0.47
215	40311	17U	457936	5357381.514	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	9	0.05	0.46
216	40312	17U	457825	5357482.428	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	dm brn silty, some org in sample, 150m from last sample	0.05	83	151	0.05	2.58
217	40313	17U	457776	5357524.683	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	10	40	0.05	0.59
218	40314	17U	457737	5357556.957	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	6	24	0.05	1.96
219	40315	17U	457695	5357586.362	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ pebbles	0.21	34	49	0.05	8.2
220	40316	17U	457651	5357618.338	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	25	0.05	2.81
221	40317	17U	457610	5357663.131	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	6	21	0.05	23.3
222	40318	17U	457573	5357697.282	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	22	0.05	12.2
223	40319	17U	457526	5357729.467	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	24	0.05	6.1
224	40320	17U	457491	5357758.447	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	30	0.05	1.46
225	40322	17U	458247	5356948.92	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	9	0.05	0.48
226	40323	17U	458225	5356985.409	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	8	0.05	0.46
227	40324	17U	458172	5357007.188	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	16	0.05	0.46
228	40325	17U	458131	5357044.502	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	13	0.05	0.36
229	40326	17U	458098	5357077.452	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty, under 1m org, some org in sample	0.05	9	37	0.05	1.85
230	40327	17U	458058	5357112.176	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn sandy, some org in sample	0.05	3	23	0.13	0.62
231	40328	17U	458027	5357149.208	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty under 1.2m of org, some org in sample	0.05	4	27	0.25	3.24
232	40329	17U	457988	5357172.724	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.15	1	4	0.05	0.25
233	40330	17U	457956	5357184.126	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	4	11	0.05	0.4
234	40331	17U	457893	5357252.224	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	2	5	0.05	0.44
235	40332	17U	457853	5357270.946	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	2	12	0.05	0.63
236	40333	17U	457854	5357295.209	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	20	0.05	2.95
237	40334	17U	457784	5357337.375	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	6	14	0.05	2.46
238	40335	17U	457755	5357376.763	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	8	25	0.05	1.17
239	40336	17U	457705	5357381.259	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	22	102	0.05	2.66
240	40337	17U	457677	5357432.398	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	coarse brn sandy	0.05	7	32	0.05	1.89
241	40338	17U	457638	5357482.392	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	13	67	0.05	3.44
242	40339	17U	457635	5357458.111	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	24	50	0.33	2.24
243	40340	17U	457601	5357506.347	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	17	22	0.18	1.43
244	40341	17U	457530	5357558.492	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn sandy	0.12	7	39	0.05	4.88

Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
245	40342	17U	457501	5357593.798	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	8	29	0.39	10.1
246	40343	17U	457462	5357617.787	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	17	52	0.13	3.24
247	40344	17U	457441	5357644	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.13	31	100	0.28	4.67
248	40345	17U	457563	5357042.47	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey sandy under 1m of org, some org in sample	0.05	2	15	0.05	1.45
249	40346	17U	457504	5357066.663	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.05	7	28	0.05	1.65
250	40347	17U	457384	5357017.131	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.13	3	25	0.05	2.57
251	40348	17U	457406	5357008.209	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn sandy	0.05	26	50	0.05	0.75
252	40349	17U	458354	5358177.912	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	on oc, pebbles, sand, mixed w/ roots, several shallow holes	0.05	4	19	0.05	0.45
253	40350	17U	458313	5358221.097	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	coarse brn sand w/ pebbles (old cut area)	0.12	36	570	0.05	7.43
254	40351	17U	458284	5358235.326	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn sandy w/pebbles	0.05	73	272	0.05	0.95
255	40352	17U	458248	5358264.195	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	33	0.05	4.88
256	40353	17U	458211	5358304.857	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	39	41	0.1	2.01
257	40354	17U	458173	5358330.928	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	15	22	0.05	1.83
258	40355	17U	458133	5358364.839	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	7	68	0.05	0.98
259	40356	17U	458095	5358413.389	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy b w/ pebbles	0.05	6	19	0.05	1.83
260	40357	17U	458057	5358443.287	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b (several shallow holes on oc)	0.05	2	6	0.05	1.1
261	40358	17U	458002	5358339.855	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ pebbles, edge of lake	0.05	76	76	0.12	1.12
262	40359	17U	458042	5358293.339	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn sandy w/ pebbles, some org, on oc	0.05	27	22	0.05	0.11
263	40360	17U	458095	5358256.533	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	5	16	0.05	1.76
264	40361	17U	458113	5358222.4	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	5	12	0.05	0.69
265	40362	17U	458164	5358178.031	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	10	24	0.05	1.15
266	40363	17U	458200	5358148.427	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ pebbles (swampy)	0.05	22	67	0.05	0.29
267	40364	17U	458237	5358112.394	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey sandy (off oc)	0.05	6	8	0.05	0.12
268	40365	17U	458270	5358084.886	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.33	2	1.5	0.05	9.02
269	40366	17U	458201	5357974.929	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy (swamp)	0.05	11	213	0.05	2.09
270	40367	17U	458167	5358018.746	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	14	0.05	1.85
271	40368	17U	458136	5358051.056	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	29	0.05	2.33
272	40369	17U	458108	5358057.115	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a	0.05	5	23	0.05	0.9
273	40370	17U	458074	5358100.917	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	8	16	0.05	0.63
274	40371	17U	458038	5358142.392	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy b, on oc	0.05	2	8	0.05	0.6
275	40372	17U	457984	5358188.233	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	32	0.05	1.98
276	40373	17U	457938	5358216.034	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	4	11	0.05	0.82
277	40374	17U	457912	5358244.784	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	grey sandy, close to lake	0.05	27	76	0.05	1.18
278	40375	17U	457034	5358440.113	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b w/ pebbles	0.05	7	23	0.12	0.34
279	40376	17U	457093	5358421.223	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b w/ pebbles (boulders)	0.05	10	51	0.05	0.66
280	40377	17U	457121	5358381.765	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ pebbles	0.1	10	48	0.05	1.25
281	40378	17U	457182	5358355.879	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy brn w/ pebbles, shallow hole, org in sample, poor sample	0.13	8	134	0.05	4.51
282	40379	17U	457188	5358336.571	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	5	18	0.17	1.45
283	40380	17U	457238	5358282.93	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	1	25	0.05	5.11
284	40381	17U	457286	5358274.99	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	2	18	0.05	2.49
285	40382	17U	457343	5358211.786	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy brn w/ pebbles, 85m from last sample	0.2	21	26	0.05	1.12

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
286	40383	17U	457369	5358185.352	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy under org	0.17	12	34	0.05	3.28
287	40384	17U	457418	5358158.148	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	coarse brn sandy	0.18	66	67	0.05	8.07
288	40385	17U	457469	5358102.524	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	12	32	0.05	4
289	40386	17U	457548	5358203.943	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	23	75	0.26	0.98
290	40387	17U	457517	5358238.018	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.16	9	32	0.05	4.84
291	40388	17U	457482	5358266.27	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	drk brn, some org in sample, on oc	0.05	3	10	0.05	0.38
292	40389	17U	457446	5358308.399	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	6	35	0.05	2.98
293	40390	17U	457440	5358316.097	N/A	N/A	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.05	5	25	0.05	0.39
294	40401	17U	456614	5358130.678			Bristol	42A05	JY/RD	MMI-B		0.05	2	14	0.05	1.19
295	40402	17U	456678	5358137.553			Bristol	42A05	JY/RD	MMI-B		0.05	1	4	0.05	0.88
296	40403	17U	456707	5358130.352			Bristol	42A05	JY/RD	MMI-B		0.05	5	15	0.05	1.89
297	40404	17U	456727	5358025.77			Bristol	42A05	JY/RD	MMI-B		0.05	7	20	0.05	0.27
298	40405	17U	456810	5358031.737			Bristol	42A05	JY/RD	MMI-B		0.05	3	46	0.05	0.98
299	40406	17U	456840	5358014.045			Bristol	42A05	JY/RD	MMI-B		0.05	3	36	0.05	2.47
300	40407	17U	456875	5357969.851			Bristol	42A05	JY/RD	MMI-B		0.05	14	21	0.05	0.48
301	40408	17U	456901	5357948.854			Bristol	42A05	JY/RD	MMI-B		0.12	7	125	0.05	12.6
302	40409	17U	456786	5357869.501			Bristol	42A05	JY/RD	MMI-B		0.1	13	78	0.05	4.58
303	40410	17U	456738	5357912.588			Bristol	42A05	JY/RD	MMI-B		0.05	4	31	0.05	1.4
304	40411	17U	456706	5357958.091			Bristol	42A05	JY/RD	MMI-B		0.15	7	51	0.05	1.86
305	40412	17U	456669	5357979.37			Bristol	42A05	JY/RD	MMI-B		0.05	9	12	0.05	0.42
306	40413	17U	456624	5358029.023			Bristol	42A05	JY/RD	MMI-B		0.05	4	20	0.05	0.51
307	40414	17U	456512	5358118.03			Bristol	42A05	JY/RD	MMI-B		0.05	10	36	0.05	0.5
308	40415	17U	456459	5358163.143			Bristol	42A05	JY/RD	MMI-B		0.05	3	17	0.05	0.45
309	40416	17U	456415	5358193.956			Bristol	42A05	JY/RD	MMI-B		0.05	2	19	0.05	0.89
310	40417	17U	456389	5358219.572			Bristol	42A05	JY/RD	MMI-B		0.05	5	16	0.05	2.15
311	40418	17U	456345	5358244.826			Bristol	42A05	JY/RD	MMI-B		0.05	3	41	0.05	4.04
312	40419	17U	456316	5358299.201			Bristol	42A05	JY/RD	MMI-B		0.05	3	16	0.05	2.89
313	40420	17U	456269	5358301.942			Bristol	42A05	JY/RD	MMI-B		0.05	2	16	0.05	1.27
314	40421	17U	456141	5358247.866			Bristol	42A05	JY/RD	MMI-B		0.05	8	30	0.05	1.03
315	40422	17U	456174	5358226.872			Bristol	42A05	JY/RD	MMI-B		0.05	3	34	0.05	1.9
316	40423	17U	456210	5358175.838			Bristol	42A05	JY/RD	MMI-B		0.05	0.5	12	0.05	1.09
317	40424	17U	456257	5358149.306			Bristol	42A05	JY/RD	MMI-B		0.05	7	33	0.05	1.23
318	40425	17U	456297	5358120.998			Bristol	42A05	JY/RD	MMI-B		0.05	6	19	0.05	0.55
319	40426	17U	456380	5358045.497			Bristol	42A05	JY/RD	MMI-B		0.05	2	20	0.05	1.11
320	40427	17U	456439	5357987.255			Bristol	42A05	JY/RD	MMI-B		0.05	1	13	0.05	2.03
321	40428	17U	456499	5357962.052			Bristol	42A05	JY/RD	MMI-B		0.05	13	37	0.05	1
322	40429	17U	456543	5357932.041			Bristol	42A05	JY/RD	MMI-B		0.05	14	34	0.05	2.52
323	40430	17U	456595	5357885.026			Bristol	42A05	JY/RD	MMI-B		0.05	9	82	0.12	1.63
324	40431	17U	456676	5357820.874			Bristol	42A05	JY/RD	MMI-B		0.13	30	52	0.05	0.64
325	40432	17U	456739	5357771.493			Bristol	42A05	JY/RD	MMI-B		0.05	33	45	0.14	0.65
326	40433	17U	456784	5357719.738			Bristol	42A05	JY/RD	MMI-B		0.13	8	126	0.11	1.09

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	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
327	40434	17U	456760	5357571.996			Bristol	42A05	JY/RD	MMI-B		0.05	21	56	0.05	0.16
328	40435	17U	456768	5357651.114			Bristol	42A05	JY/RD	MMI-B		0.05	30	52	0.05	1.09
329	40436	17U	456683	5357639.913			Bristol	42A05	JY/RD	MMI-B		0.05	8	18	0.05	0.55
330	40437	17U	456639	5357676.041			Bristol	42A05	JY/RD	MMI-B		0.1	5	12	0.05	0.83
331	40438	17U	456594	5357724.873			Bristol	42A05	JY/RD	MMI-B		0.05	4	25	0.05	0.46
332	40439	17U	456568	5357742.751			Bristol	42A05	JY/RD	MMI-B		0.05	3	50	0.05	0.37
333	40440	17U	456518	5357799.187			Bristol	42A05	JY/RD	MMI-B		0.05	2	51	0.05	1.25
334	40441	17U	456489	5357825.645			Bristol	42A05	JY/RD	MMI-B		0.05	2	35	0.05	1.6
335	40442	17U	456038	5358161.579			Bristol	42A05	JY/RD	MMI-B		0.05	6	29	0.05	0.82
336	40443	17U	456077	5358129.524			Bristol	42A05	JY/RD	MMI-B		0.05	6	40	0.05	0.54
337	40444	17U	456106	5358096.908			Bristol	42A05	JY/RD	MMI-B		0.05	2	19	0.05	0.64
338	40445	17U	456170	5358039.699			Bristol	42A05	JY/RD	MMI-B		0.05	20	35	0.05	0.62
339	40446	17U	456264	5357940.85			Bristol	42A05	JY/RD	MMI-B		0.05	25	36	0.05	0.59
340	40447	17U	456299	5357915.164			Bristol	42A05	JY/RD	MMI-B		0.05	5	16	0.05	0.64
341	40448	17U	456388	5357880.955			Bristol	42A05	JY/RD	MMI-B		0.05	2	10	0.05	1.21
342	40449	17U	456426	5357879.601			Bristol	42A05	JY/RD	MMI-B		0.05	1	10	0.05	0.99
343	40450	17U	456708	5357450.99			Bristol	42A05	JY/RD	MMI-B		0.05	49	53	0.05	0.22
344	40451	17U	456658	5357507.181	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy w/ org	1.64	6	28	0.05	1.27
345	40452	17U	456596	5357542.75	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	154	127	0.05	1.81
346	40453	17U	456562	5357579.57	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	2	20	0.05	0.56
347	40454	17U	456522	5357613.469	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	3	18	0.05	3.29
348	40455	17U	456501	5357632.916	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	sandy a+b w/ org	0.05	2	10	0.05	2.74
349	40456	17U	456450	5357672.78	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	5	16	0.05	0.81
350	40457	17U	456408	5357694.4	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	3	7	0.05	0.75
351	40458	17U	456362	5357748.785	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	2	7	0.05	1.42
352	40459	17U	456320	5357794.479	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	2	17	0.05	2.18
353	40460	17U	456281	5357820.364	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	light brn sandy	0.3	13	31	0.05	8.98
354	40461	17U	456243	5357835.981	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.18	6	63	0.05	6.1
355	40462	17U	456219	5357895.489	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	0.5	14	0.05	0.63
356	40463	17U	456176	5357923.48	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy clayish w/ org	0.05	28	133	0.05	7.23
357	40464	17U	456020	5358052.275	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn/grey sandy w/org	0.05	28	24	0.05	0.87
358	40465	17U	455989	5358089.346	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	grey coarse sand w/ org (poor)	0.05	22	33	0.05	0.62
359	40466	17U	455956	5358120.74	N/A	78+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy w/org	0.05	10	57	0.05	1.08
360	40468	17U	455857	5358007.387	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	3	8	0.05	1.17
361	40469	17U	455905	5357962.877	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	coarse sandy b w/pebbles	0.05	7	19	0.05	0.48
362	40470	17U	455946	5357933.791	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	2	12	0.05	0.76
363	40471	17U	455984	5357906.735	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	brn/grey coarse sand w/pebbles	0.05	13	58	0.05	0.49
364	40472	17U	456121	5357781.103	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	grey clayish silty w/org	0.11	12	40	0.05	5.92
365	40473	17U	456154	5357756.048	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	13	28	0.05	3.92
366	40474	17U	456199	5357713.264	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.11	17	38	0.05	5.66
367	40475	17U	456237	5357683.293	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	10	0.05	0.15

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
368	40476	17U	456264	5357669.165	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	light brn silty	0.05	2	14	0.05	0.66
369	40477	17U	456322	5357600.646	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	brn silty	0.05	11	60	0.05	2.45
370	40478	17U	456386	5357594.486	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	0.5	11	0.05	0.35
371	40479	17U	456400	5357547.354	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	4	28	0.05	2.42
372	40480	17U	456461	5357508.78	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	5	23	0.05	0.36
373	40481	17U	456492	5357467.239	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	0.5	16	0.05	0.62
374	40482	17U	456547	5357422.01	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	24	0.05	0.37
375	40483	17U	456578	5357387.52	N/A	77+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy w/org	0.05	13	41	0.05	0.89
376	40484	17U	456508	5357292.83	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	brn sandy w/org	0.05	30	43	0.05	1.05
377	40485	17U	456472	5357329.691	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	14	0.05	0.64
378	40486	17U	456424	5357363.021	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	1	12	0.05	0.19
379	40487	17U	456403	5357382.47	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	grey clayish silty	0.05	67	61	0.05	0.96
380	40488	17U	456349	5357423.959	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	light brn clayish silty	0.05	16	70	0.05	1.56
381	40489	17U	456318	5357456.984	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	sand w/org	0.05	13	41	0.05	0.53
382	40490	17U	456276	5357491.263	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	8	37	0.05	0.33
383	40491	17U	456203	5357546.019	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	11	36	0.05	2.64
384	40492	17U	456036	5357684.714	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	grey clayish w/org	0.05	14	30	0.05	3.23
385	40493	17U	455997	5357723.225	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	grey sandy w/org	0.05	38	86	0.05	2.36
386	40494	17U	455926	5357800.649	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	brn coarse sand w/pebbles	0.05	3	29	0.05	0.49
387	40495	17U	455884	5357814.705	N/A	76+25E	Bristol	42A05	JY/RD	MMI-B	sand w/org	0.05	6	95	0.05	4.34
388	40500	17U	455892	5357646.224	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	18	48	0.05	1.01
389	40501	17U	455937	5357613.601	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org (poor)	0.05	16	93	0.05	0.82
390	40502	17U	455977	5357578.703	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	15	45	0.05	2.14
391	40503	17U	456136	5357452.654	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	10	37	0.05	1.75
392	40504	17U	456176	5357403.83	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.12	16	42	0.05	4.08
393	40505	17U	456223	5357377.493	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	38	75	0.05	1.13
394	40506	17U	456257	5357349.59	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	5	42	0.05	3.15
395	40507	17U	456295	5357305.4	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.18	21	55	0.05	5.26
396	40508	17U	456346	5357262.319	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	32	78	0.05	1.05
397	40509	17U	456388	5357226.466	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey silty w/org	0.05	26	44	0.05	0.98
398	40510	17U	456443	5357195.654	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	grey/brn silty w/org	0.2	89	111	0.05	6.01
399	40511	17U	456472	5357157.457	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	27	31	0.05	1.96
400	40512	17U	456511	5357117.974	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	16	18	0.05	0.91
401	40513	17U	456544	5357090.805	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	9	60	0.05	1.23
402	40514	17U	456581	5357065.894	N/A	75+00E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	89	54	0.05	0.61
403	40515	17U	456176	5357252.392	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.05	18	56	0.05	1.81
404	40516	17U	456210	5357216.525	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	26	73	0.05	1.45
405	40517	17U	456245	5357185.176	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.05	12	60	0.05	3.06
406	40518	17U	456284	5357154.27	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	brn/grey silty clayish	0.05	11	57	0.05	3.23
407	40519	17U	456313	5357115.712	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.13	8	37	0.05	3.48
408	40520	17U	456362	5357087.852	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.05	111	56	0.12	0.85

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
409	40521	17U	456402	5357057.768	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.19	2	19	0.05	5.88
410	40522	17U	456433	5357025.72	N/A	73+75E	Bristol	42A05	JY/RD	MMI-B	brn/grey sandy	0.17	58	88	0.05	5.62
411	40523	17U	456265	5356999.245	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.05	16	36	0.05	1.17
412	40524	17U	456233	5357038.552	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey silty	0.05	44	78	0.05	0.63
413	40525	17U	456192	5357072.339	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.05	23	51	0.05	1.49
414	40526	17U	456129	5357128.008	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	41	120	0.05	1.41
415	40527	17U	456090	5357161.233	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	31	63	0.05	0.28
416	40528	17U	456041	5357192.118	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	35	82	0.34	1.13
417	40529	17U	456004	5357225.172	N/A	72+50E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	27	67	0.22	0.71
418	40530	17U	455859	5357184.493	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	grey coarse sand w/ org (poor)	0.05	24	105	0.17	1.63
419	40531	17U	455899	5357154.292	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	drk brn coarse sand	0.05	5	22	0.11	0.48
420	40532	17U	455936	5357120.788	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	drk brn coarse sand w/org	0.05	46	77	0.12	0.81
421	40533	17U	455974	5357088.131	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	grey sandy w/org	0.05	30	72	0.41	0.78
422	40534	17U	456011	5357055.329	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.1	34	44	0.14	0.55
423	40535	17U	456048	5357025.66	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	grey silty clayish	0.05	41	69	0.05	0.36
424	40536	17U	456086	5356988.988	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	grey sandy w/org	0.05	44	74	0.05	0.49
425	40537	17U	456131	5356952.881	N/A	71+25E	Bristol	42A05	JY/RD	MMI-B	grey sandy	0.05	15	61	0.05	0.45
426	40538	17U	455940	5356967.721	N/A	70+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	7	0.05	0.84
427	40539	17U	455890	5357006.563	N/A	70+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	49	0.05	0.25
428	40540	17U	455830	5357044.664	N/A	70+00E	Bristol	42A05	JY/RD	MMI-B	coarse sandy a+b	0.05	8	28	0.05	0.31
429	40542	17U	457594	5358324.103	N/A	91+25E	Bristol	42A05	JY/RD	MMI-B	brn sandy on o/c w/org, pebbles	0.05	15	80	0.05	3.72
430	40543	17U	457516	5358394.438	N/A	91+25E	Bristol	42A05	JY/RD	MMI-B	brn sandy	0.12	28	59	0.05	3.91
431	40545	17U	457456	5357980.552	N/A	87+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	27	45	0.05	13.9
432	40546	17U	457400	5358010.601	N/A	87+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy w/org, pebbles	0.51	21	131	0.25	2.85
433	40547	17U	457353	5358045.64	N/A	87+50E	Bristol	42A05	JY/RD	MMI-B	brn sandy mixed w/org (poor)	0.05	29	456	0.05	1.97
434	40548	17U	457306	5358088.467	N/A	87+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b w/org	0.05	6	45	0.05	0.95
435	40601	17U	459366	5358444.014		10375E	Bristol	42A05	vision	MMI-B	Black soil and sand	0.05	2	62	0.05	3.2
436	40602	17U	459408	5358415.202		10375E	Bristol	42A05	vision	MMI-B	White sand, fine	0.05	2	16	0.05	3.18
437	40603	17U	459438	5358392.789		10375E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	8	12	0.05	4.34
438	40604	17U	459480	5358350.01		10375E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	5	42	0.05	5.54
439	40605	17U	459523	5358317.937		10375E	Bristol	42A05	vision	MMI-B	Fine brown sand	0.05	4	19	0.05	4.71
440	40606	17U	459566	5358284.219		10375E	Bristol	42A05	vision	MMI-B	Fine brown sand	0.05	5	45	0.05	5.25
441	40607	17U	459602	5358254.67		10375E	Bristol	42A05	vision	MMI-B	Black soil	0.05	0.5	17	0.05	0.99
442	40608	17U	459642	5358211.614		10375E	Bristol	42A05	vision	MMI-B	Brown sand, gritty	0.05	10	52	0.05	3.33
443	40609	17U	459677	5358180.644		10375E	Bristol	42A05	vision	MMI-B	Black soil	0.05	0.5	48	0.05	1.05
444	40610	17U	459634	5358056.017		10250E	Bristol	42A05	vision	MMI-B	Sand and black soil	0.05	3	47	0.05	3.56
445	40611	17U	459217	5358406.109		10250E	Bristol	42A05	vision	MMI-B	Brown and grey sand	0.05	4	15	0.05	0.86
446	40612	17U	459251	5358364.646		10250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	18	37	0.05	1.61
447	40613	17U	459278	5358334.581		10250E	Bristol	42A05	vision	MMI-B	Black soil	0.05	10	7	0.1	0.05
448	40614	17U	459319	5358309.029		10250E	Bristol	42A05	vision	MMI-B	Black soil	0.05	10	69	0.05	1.81
449	40616	17U	459403	5358248.153		10250E	Bristol	42A05	vision	MMI-B	Light sand	0.05	16	59	0.05	4.3

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
450	40617	17U	459446	5358215.731		10250E	Bristol	42A05	vision	MMI-B	sand, gritty with pebbles	0.05	3	38	0.05	7.73
451	40618	17U	459479	5358184.997		10250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	2	40	0.05	4.4
452	40619	17U	459522	5358155.522		10250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	2	46	0.05	5.23
453	40620	17U	459554	5358117.428		10250E	Bristol	42A05	vision	MMI-B	Light brown sand	0.05	3	38	0.05	5.23
454	40621	17U	459595	5358087.906		10250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	4	45	0.05	5.57
455	40622	17U	459599	5357906.938		10125E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	7	58	0.05	4.7
456	40623	17U	459556	5357940.757		10125E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	4	11	0.05	1.21
457	40624	17U	459532	5357969.198		10125E	Bristol	42A05	vision	MMI-B	Light sand	0.05	63	52	0.05	3.94
458	40625	17U	459491	5358005.002		10125E	Bristol	42A05	vision	MMI-B	Light brown	0.05	5	20	0.05	7.01
459	40626	17U	459456	5358041.764		10125E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	3	31	0.05	4.74
460	40627	17U	459416	5358072.439		10125E	Bristol	42A05	vision	MMI-B	Black soil and sand	0.05	2	73	0.05	3.4
461	40628	17U	459384	5358105.83		10125E	Bristol	42A05	vision	MMI-B	Grey and brown sand	0.05	3	22	0.05	3.04
462	40629	17U	459307	5358017.964		10000E	Bristol	42A05	vision	MMI-B	Light brown sand	0.12	5	23	0.05	0.67
463	40630	17U	459345	5357983.242		10000E	Bristol	42A05	vision	MMI-B	Gritty sand and gravel, black soil	0.05	2	10	0.05	0.4
464	40631	17U	459385	5357949.107		10000E	Bristol	42A05	vision	MMI-B	Grey and brown sand, black soil	0.05	2	15	0.05	2
465	40632	17U	459422	5357922.439		10000E	Bristol	42A05	vision	MMI-B	Light brown and grey sand	0.05	2	21	0.05	4.42
466	40633	17U	459465	5357880.579		10000E	Bristol	42A05	vision	MMI-B	Grey sand	0.05	15	15	0.05	0.88
467	40634	17U	459495	5357850.191		10000E	Bristol	42A05	vision	MMI-B	Light brown sand	0.05	2	18	0.05	4.2
468	40635	17U	459533	5357815.843		10000E	Bristol	42A05	vision	MMI-B	Light brown and grey sand	0.05	4	13	0.05	4.58
469	40636	17U	459060	5357740.929		9625E	Bristol	42A05	vision	MMI-B	Mud and clay	0.05	32	22	0.05	1.11
470	40637	17U	459105	5357719.432		9625E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	2	10	0.05	1.82
471	40638	17U	459143	5357680.451		9625E	Bristol	42A05	vision	MMI-B	Brown mud/dirt	0.05	8	8	0.05	0.34
472	40639	17U	459189	5357664.626		9625E	Bristol	42A05	vision	MMI-B	Brown gritty sand	0.05	7	20	0.05	3.74
473	40640	17U	459228	5357633.152		9625E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	4	18	0.05	10.1
474	40641	17U	459262	5357594.111		9625E	Bristol	42A05	vision	MMI-B	Light brown sand	0.05	3	43	0.05	8.23
475	40642	17U	459296	5357553.728		9625E	Bristol	42A05	vision	MMI-B	Light brown sand	0.05	56	114	0.05	4.86
476	40643	17U	459332	5357521.706		9625E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	7	52	0.05	14.6
477	40644	17U	459370	5357485.125		9625E	Bristol	42A05	vision	MMI-B	Brown sand	0.19	13	59	0.05	6.25
478	40645	17U	459422	5357472.893		9625E	Bristol	42A05	vision	MMI-B	Light brown sand	0.05	26	53	0.05	4.07
479	40646	17U	459456	5357436.034		9625E	Bristol	42A05	vision	MMI-B	Black soil and sand	0.05	102	58	0.05	1.28
480	40647	17U	459487	5357390.653		9625E	Bristol	42A05	vision	MMI-B	Black soil, gritty sand	0.05	10	35	0.05	0.59
481	40648	17U	459521	5357356.453		9625E	Bristol	42A05	vision	MMI-B	Brown gritty sand	0.05	35	76	0.05	2.21
482	40649	17U	459567	5357333.258		9625E	Bristol	42A05	vision	MMI-B	Dark brown and black coarse sand and gravel	0.05	54	50	0.05	2.25
483	40650	17U	459605	5357301.945		9625E	Bristol	42A05	vision	MMI-B	Clay	0.05	18	115	0.05	1.35
484	40651	17U	459671	5357223.337		9625E	Bristol	42A05	vision	MMI-B	Black soil	0.05	2	16	0.05	0.42
485	40652	17U	459692	5357178.14		9625E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	11	13	0.05	2.06
486	40653	17U	459736	5357147.823		9625E	Bristol	42A05	vision	MMI-B	Grey and rust sand	0.05	3	10	0.05	1.32
487	40654	17U	459774	5357113.061		9625E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	5	16	0.05	3.28
488	40655	17U	459811	5357081.689		9625E	Bristol	42A05	vision	MMI-B	Gritty sand with pebbles	0.05	4	5	0.05	0.14
489	40656	17U	459879	5357012		9625E	Bristol	42A05	vision	MMI-B	Brown soil	0.05	14	7	0.05	0.14
490	40657	17U	459879	5357012.493		9625E	Bristol	42A05	vision	MMI-B	Rusty brown sand	0.05	4	41	0.05	7.22



## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
491	40658	17U	459921	5356980.629		9625E	Bristol	42A05	vision	MMI-B	Fine sand	0.05	2	6	0.05	4.74
492	40659	17U	459962	5356946.027		9625E	Bristol	42A05	vision	MMI-B	Fine sand	0.05	1	3	0.05	1.05
493	40660	17U	459762	5356926.733		9500E	Bristol	42A05	vision	MMI-B	Fine sand	0.1	14	41	0.05	4.74
494	40661	17U	459723	5356961.901		9500E	Bristol	42A05	vision	MMI-B	Grey and brown sand	0.05	2	10	0.05	1.39
495	40662	17U	459690	5357002.95		9500E	Bristol	42A05	vision	MMI-B	Grey/brown dirt/sand	0.05	4	6	0.05	1.28
496	40663	17U	459641	5357026.345		9500E	Bristol	42A05	vision	MMI-B	Grey brown sand	0.05	22	32	0.05	3.79
497	40664	17U	459611	5357066.142		9500E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	5	31	0.05	2.21
498	40665	17U	459582	5357097.931		9500E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	45	63	0.05	2.16
499	40666	17U	459544	5357137.883		9500E	Bristol	42A05	vision	MMI-B	Dry clay	0.1	5	31	0.05	3
500	40667	17U	459506	5357165.246		9500E	Bristol	42A05	vision	MMI-B	humrus	0.05	0.5	103	0.05	3.72
501	40668	17U	459467	5357199.208		9500E	Bristol	42A05	vision	MMI-B	Gritty sand with pebbles	0.05	106	133	0.05	1.17
502	40669	17U	459432	5357233.208		9500E	Bristol	42A05	vision	MMI-B	humrus	0.05	3	26	0.05	0.26
503	40670	17U	459386	5357256.932		9500E	Bristol	42A05	vision	MMI-B	humrus	0.05	2	95	0.05	7.02
504	40671	17U	458890	5357546.067		9375E	Bristol	42A05	vision	MMI-B	humrus	0.34	9	8	0.05	0.36
505	40672	17U	458924	5357518.323		9375E	Bristol	42A05	vision	MMI-B	Dry gritty clay	0.05	4	4	0.05	0.43
506	40673	17U	458962	5357485.4		9375E	Bristol	42A05	vision	MMI-B	Dry clay and sand	0.05	9	18	0.05	0.85
507	40674	17U	459015	5357468.077		9375E	Bristol	42A05	vision	MMI-B	Clay sand	0.05	10	72	0.05	1.39
508	40675	17U	459031	5357410.539		9375E	Bristol	42A05	vision	MMI-B	Clay sand	0.21	29	231	0.05	8.62
509	40676	17U	459069	5357376.772		9375E	Bristol	42A05	vision	MMI-B	Clay sand	0.05	3	12	0.05	5.84
510	40677	17U	459099	5357337.414		9375E	Bristol	42A05	vision	MMI-B	Clay sand, gritty	0.14	28	41	0.05	0.63
511	40678	17U	459138	5357307.136		9375E	Bristol	42A05	vision	MMI-B	Light brown sand	0.05	3	11	0.05	5.79
512	40679	17U	459178	5357277.201		9375E	Bristol	42A05	vision	MMI-B	Gritty clay	0.05	10	18	0.05	1
513	40680	17U	459218	5357247.456		9375E	Bristol	42A05	vision	MMI-B	Dry gritty clay	0.05	19	18	0.05	1.08
514	40681	17U	459255	5357213.104		9375E	Bristol	42A05	vision	MMI-B	Gritty clay and sand	0.05	6	14	0.05	0.75
515	40682	17U	459290	5357176.774		9375E	Bristol	42A05	vision	MMI-B	Gritty clay	0.05	7	24	0.05	2.63
516	40683	17U	459328	5357142.689		9375E	Bristol	42A05	vision	MMI-B	Black soil	0.11	7	46	0.05	1.71
517	40684	17U	459364	5357109.205		9375E	Bristol	42A05	vision	MMI-B	Sand	0.05	4	146	0.05	7.95
518	40685	17U	459405	5357080.922		9375E	Bristol	42A05	vision	MMI-B	Sand	0.16	1	57	0.05	3.17
519	40686	17U	459450	5357052.33		9375E	Bristol	42A05	vision	MMI-B	Sand	0.05	8	50	0.05	2.69
520	40687	17U	459479	5357011.456		9375E	Bristol	42A05	vision	MMI-B	Sand	0.05	2	5	0.05	0.45
521	40688	17U	459518	5356980.58		9375E	Bristol	42A05	vision	MMI-B	Sand	0.05	27	38	0.05	1.44
522	40689	17U	459564	5356951.26		9375E	Bristol	42A05	vision	MMI-B	Clay	0.05	7	122	0.05	6.59
523	40690	17U	459601	5356915.62		9375E	Bristol	42A05	vision	MMI-B	Fine sand	0.05	3	27	0.05	1.07
524	40691	17U	459344	5357300.602		9500E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	4	43	0.05	6.57
525	40692	17U	459303	5357332.157		9500E	Bristol	42A05	vision	MMI-B	Fine sand	0.05	6	54	0.05	3.18
526	40693	17U	459268	5357366.673		9500E	Bristol	42A05	vision	MMI-B	Fine sand	0.05	5	52	0.05	9.8
527	40694	17U	459234	5357401.214		9500E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	21	9	0.05	0.69
528	40695	17U	459194	5357435.713		9500E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	3	29	0.05	5.08
529	40696	17U	459159	5357472.016		9500E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	8	22	0.05	6.8
530	40697	17U	459124	5357503.424		9500E	Bristol	42A05	vision	MMI-B	humrus	0.05	9	36	0.05	1.18
531	40698	17U	459086	5357534.286		9500E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	4	8	0.05	0.93

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
532	40699	17U	459047	5357574.029		9500E	Bristol	42A05	vision	MMI-B	Gritty sand and clay	0.05	15	23	0.05	0.94
533	40700	17U	459011	5357605.442		9500E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	6	23	0.05	1.81
534	40851	17U	458973	5357637.414		9500E	Bristol	42A05	vision	MMI-B	Clay	0.11	13	82	0.05	1.6
535	40852	17U	458728	5357370.162		9125E	Bristol	42A05	vision	MMI-B	Brown sand on oc.	0.05	4	7	0.05	0.48
536	40853	17U	458757	5357334.417		9125E	Bristol	42A05	vision	MMI-B	Brown and grey soil	0.05	6	19	0.05	4.61
537	40854	17U	458800	5357304.887		9125E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	6	10	0.15	0.43
538	40855	17U	458835	5357272.038		9125E	Bristol	42A05	vision	MMI-B	humus	0.05	4	6	0.05	0.05
539	40856	17U	458881	5357247.747		9125E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	11	18	0.1	3.86
540	40857	17U	458909	5357213.489		9125E	Bristol	42A05	vision	MMI-B	Brown sand, dry clay	0.05	2	24	0.11	2.43
541	40858	17U	458952	5357181.199		9125E	Bristol	42A05	vision	MMI-B	Clay	0.05	50	153	0.17	0.42
542	40859	17U	458993	5357150.355		9125E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	4	23	0.05	7.12
543	40860	17U	459028	5357116.463		9125E	Bristol	42A05	vision	MMI-B	Clay	0.11	8	70	0.11	4.85
544	40861	17U	459069	5357085.739		9125E	Bristol	42A05	vision	MMI-B	Sand	0.05	0.5	25	0.05	8.17
545	40862	17U	459106	5357050.222		9125E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	3	26	0.05	4.2
546	40863	17U	459142	5357012.902		9125E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	14	23	0.05	2.31
547	40864	17U	459183	5356985.553		9125E	Bristol	42A05	vision	MMI-B	Grey and brown sand	0.05	5	15	0.05	2.33
548	40865	17U	459222	5356953.855		9125E	Bristol	42A05	vision	MMI-B	humus	0.17	2	75	0.13	10.5
549	40866	17U	459269	5356932.343		9125E	Bristol	42A05	vision	MMI-B	Black soil	0.12	18	294	0.14	3.4
550	40867	17U	459403	5356923.037		9250E	Bristol	42A05	vision	MMI-B	Fine sand	0.05	21	41	0.1	2.86
551	40868	17U	459373	5356951.356		9250E	Bristol	42A05	vision	MMI-B	humus	0.16	2	217	0.2	8.78
552	40869	17U	459332	5356985.121		9250E	Bristol	42A05	vision	MMI-B	Black soil	0.05	7	57	0.05	4.03
553	40870	17U	459298	5357015.446		9250E	Bristol	42A05	vision	MMI-B	Black soil and brown sand	0.05	14	15	0.05	0.61
554	40871	17U	459258	5357047.388		9250E	Bristol	42A05	vision	MMI-B	Brown soil	0.05	4	37	0.05	3.78
555	40872	17U	459215	5357078.032		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	4	34	0.05	2.92
556	40873	17U	459180	5357111.587		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	1	27	0.05	8.59
557	40874	17U	459144	5357147.192		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	1	28	0.05	8.64
558	40875	17U	459107	5357180.166		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	6	19	0.05	3.3
559	40876	17U	459075	5357222.943		9250E	Bristol	42A05	vision	MMI-B	Light brown/dark brown clay	0.05	12	117	0.05	1.98
560	40877	17U	459030	5357244.88		9250E	Bristol	42A05	vision	MMI-B	Dry clay and brown sand	0.05	4	22	0.05	1.66
561	40878	17U	458994	5357281.346		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.19	5	31	0.05	1.41
562	40879	17U	458959	5357315.71		9250E	Bristol	42A05	vision	MMI-B	Dry clay	0.05	12	15	0.05	0.33
563	40880	17U	458920	5357349.604		9250E	Bristol	42A05	vision	MMI-B	Black soil	0.05	3	7	0.05	0.05
564	40881	17U	458884	5357380.51		9250E	Bristol	42A05	vision	MMI-B	Brown clay	0.05	24	24	0.05	0.43
565	40882	17U	458850	5357419.124		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	9	21	0.05	1.03
566	40883	17U	458808	5357445.826		9250E	Bristol	42A05	vision	MMI-B	Brown sand	0.05	4	11	0.05	1.1
567	40884	17U	458643	5357277.151		9000E	Bristol	42A05	vision	MMI-B	Grey sand	<0.1	4	18	<0.1	0.96
568	40885	17U	458677	5357246.7		9000E	Bristol	42A05	vision	MMI-B	Grey sand	<0.1	6	13	<0.1	1.2
569	40886	17U	458715	5357214.047		9000E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	7	15	<0.1	4.37
570	40887	17U	458764	5357193.878		9000E	Bristol	42A05	vision	MMI-B	Grey brown sand	<0.1	8	17	<0.1	1.78
571	40888	17U	458803	5357160.373		9000E	Bristol	42A05	vision	MMI-B	Fine brown sand	<0.1	11	25	<0.1	11.6
572	40889	17U	458834	5357122.657		9000E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	4	30	0.11	19

Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
573	40890	17U	458874	5357088.873		9000E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	3	24	<0.1	15.5
574	40891	17U	458908	5357054.057		9000E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	2	23	<0.1	16.6
575	40892	17U	458947	5357017.223		9000E	Bristol	42A05	vision	MMI-B		<0.1	7	34	<0.1	10.9
576	40893	17U	458981	5356985.616		9000E	Bristol	42A05	vision	MMI-B		<0.1	1	43	<0.1	6.65
577	40894	17U	459022	5356955.209		9000E	Bristol	42A05	vision	MMI-B	Dark brown sand	0.13	4	83	0.15	13.3
578	40897	17U	458829	5356931.401		8875E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	1	8	<0.1	1.34
579	40898	17U	458788	5356955.915		8875E	Bristol	42A05	vision	MMI-B	Light brown sand	<0.1	2	17	<0.1	3.18
580	40899	17U	458748	5356987.557		8875E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	3	14	<0.1	5.02
581	40900	17U	458713	5357027.297		8875E	Bristol	42A05	vision	MMI-B	Gray and brown sand	<0.1	4	13	<0.1	2.71
582	40901	17U	458677	5357060.116		8875E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	2	19	<0.1	1.93
583	40902	17U	458644	5357094.915		8875E	Bristol	42A05	vision	MMI-B	Dry clay, brown sand	<0.1	3	12	<0.1	0.23
584	40903	17U	458604	5357127.5		8875E	Bristol	42A05	vision	MMI-B	Fine sand	0.1	30	138	<0.1	6.21
585	40904	17U	458570	5357160.587		8875E	Bristol	42A05	vision	MMI-B	Dark Grey sand	<0.1	12	69	<0.1	1.08
586	40906	17U	458599	5356997.654		8750E	Bristol	42A05	vision	MMI-B	Fine grey sand	<0.1	20	172	<0.1	0.99
587	40907	17U	458640	5356962.924		8750E	Bristol	42A05	vision	MMI-B	Grey and brown sand	<0.1	2	6	<0.1	0.34
588	40908	17U	458675	5356931.871		8750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	2	21	<0.1	7.34
589	40917	17U	459190	5357786.514		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	3	22	<0.1	9.17
590	40918	17U	459228	5357754.594		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	5	38	<0.1	10.3
591	40919	17U	459263	5357721.285		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	6	44	<0.1	2.73
592	40920	17U	459307	5357691.43		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	1	45	<0.1	6.95
593	40921	17U	459340	5357656.796		9750E	Bristol	42A05	vision	MMI-B	Clay and gravel	<0.1	15	42	<0.1	3.07
594	40922	17U	459381	5357617.761		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	13	46	<0.1	5.46
595	40923	17U	459413	5357586.563		9750E	Bristol	42A05	vision	MMI-B	Brown sand and clay	<0.1	5	64	<0.1	5.96
596	40924	17U	459454	5357555.057		9750E	Bristol	42A05	vision	MMI-B	Fine sand	<0.1	13	80	<0.1	4.95
597	40925	17U	459491	5357519.231		9750E	Bristol	42A05	vision	MMI-B	Gravel and sand	<0.1	7	71	<0.1	6.22
598	40926	17U	459534	5357499.216		9750E	Bristol	42A05	vision	MMI-B	Clay and black soil	<0.1	6	126	<0.1	2.92
599	40927	17U	459569	5357457.209		9750E	Bristol	42A05	vision	MMI-B	Sand and gravel	<0.1	4	152	<0.1	7.71
600	40928	17U	459607	5357429.731		9750E	Bristol	42A05	vision	MMI-B	Dark soil on oc.	<0.1	12	13	<0.1	0.1
601	40929	17U	459646	5357397.395		9750E	Bristol	42A05	vision	MMI-B	Dry clay and sand	<0.1	8	25	<0.1	1.61
602	40930	17U	459682	5357363.177		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	15	67	<0.1	3.21
603	40931	17U	459795	5357259.857		9750E	Bristol	42A05	vision	MMI-B	Sand and clay	<0.1	21	86	<0.1	4.57
604	40932	17U	459830	5357222.668		9750E	Bristol	42A05	vision	MMI-B	Brown and grey sand	<0.1	5	24	<0.1	4.76
605	40933	17U	459869	5357192.078		9750E	Bristol	42A05	vision	MMI-B	Brown sand and clay	<0.1	11	13	<0.1	<0.1
606	40934	17U	459908	5357166.119		9750E	Bristol	42A05	vision	MMI-B	Clay	0.13	14	35	<0.1	0.62
607	40935	17U	459940	5357123.259		9750E	Bristol	42A05	vision	MMI-B		<0.1	2	19	<0.1	1.37
608	40936	17U	459979	5357088.95		9750E	Bristol	42A05	vision	MMI-B	Light brown sand	<0.1	2	27	<0.1	3.77
609	40937	17U	460052	5357024.398		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	14	19	<0.1	0.96
610	40938	17U	460087	5356988.693		9750E	Bristol	42A05	vision	MMI-B	Brown sand	<0.1	7	10	<0.1	2.42
611	40939	17U	460124	5356954.519		9750E	Bristol	42A05	vision	MMI-B	Dark brown soil	<0.1	2	6	<0.1	0.18
612	40940	17U	459611	5357593.796		9875E	Bristol	42A05	vision	MMI-B	Mud and gravel	<0.1	12	88	<0.1	3.45
613	40941	17U	459557	5357624.14			Bristol	42A05	vision	MMI-B	Sand	<0.1	8	36	<0.1	3.39

## Soil Geochemistry

Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb	
614	40942	17U	459529	5357668.632			Bristol	42A05	vision	MMI-B	Grey Sand	<0.1	43	61	0.1	2.78
615	40943	17U	459487	5357690.965			Bristol	42A05	vision	MMI-B	Brown Sand	<0.1	6	30	<0.1	3.52
616	40944	17U	459462	5357745.296			Bristol	42A05	vision	MMI-B	Light brown sand	0.1	15	53	0.15	6.66
617	40945	17U	459420	5357770.752			Bristol	42A05	vision	MMI-B	Brown sand	<0.1	99	39	<0.1	3.67
618	40946	17U	459383	5357812.512			Bristol	42A05	vision	MMI-B	Brown sand	<0.1	6	13	<0.1	3.16
619	40947	17U	459339	5357823.976			Bristol	42A05	vision	MMI-B	Gritty brown mud	<0.1	8	30	<0.1	0.65
620	40948	17U	459289	5357864.327			Bristol	42A05	vision	MMI-B	Gritty brown mud	0.22	49	32	<0.1	1.93
621	40949	17U	459256	5357889.307			Bristol	42A05	vision	MMI-B	Gritty brown mud	<0.1	7	19	<0.1	4.79
622	40950	17U	459233	5357949.344			Bristol	42A05	vision	MMI-B	Gritty brown mud	0.19	24	70	<0.1	0.73
623	41404	17U	456727	5358026			Bristol	42A/5				0.05	1	119.00	0.05	5.14
624	41405	17U	456809	5358032			Bristol	42A/5				0.05	1	56.00	0.05	1.71
625	41406	17U	456840	5358014			Bristol	42A/5				0.05	3	65.00	0.05	3.78
626	41407	17U	456874	5357970			Bristol	42A/5				0.05	1	212.00	0.05	14.00
627	41408	17U	456901	5357949			Bristol	42A/5				0.12	24	186.00	0.05	10.80
628	41409	17U	456785	5357870			Bristol	42A/5				0.05	1	250.00	0.05	5.65
629	392501	17U	458805	5358613.449	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	4	20	0.05	1.33
630	392502	17U	458824	5358595.021	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	2	44	0.05	8.44
631	392503	17U	458843	5358580.699	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	2	13	0.05	3.14
632	392504	17U	458861	5358563.357	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	11	0.05	8.54
633	392505	17U	458877	5358549.162	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	26	97	0.05	10.1
634	392514	17U	459064	5358389.99	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	10	37	0.05	0.57
635	392515	17U	459099	5358354.27	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	swampy wet, 10-15 cm below organics	0.05	6	50	0.05	1.81
636	392516	17U	459138	5358320.839	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	2	13	0.05	2.38
637	392517	17U	459175	5358286.49	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	4	16	0.05	3.32
638	392518	17U	459214	5358253.779	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	darker brown b	0.05	5	37	0.05	1.93
639	392519	17U	459254	5358222.902	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	15	30	0.05	2.62
640	392520	17U	459290	5358184.537	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	lighter brown, no b, off of outcrop	0.05	28	73	0.1	3.03
641	392521	17U	459327	5358150.512	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	darker grey, no b	0.05	48	560	0.05	23.7
642	392522	17U	459363	5358114.992	18-Jun-04	11+25E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	10	32	0.05	21
643	392523	17U	459307	5358017.094	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	8	16	0.05	1.7
644	392524	17U	459270	5358051.646	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	sandy dark brown, no b	0.29	18	268	0.05	6.58
645	392525	17U	459232	5358083.736	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	sandy light brown, no b	0.19	23	143	0.14	11.9
646	392526	17U	459193	5358116.32	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	6	21	0.05	7.58
647	392527	17U	459157	5358153.236	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	light brown sandy	0.05	34	30	0.05	1.89
648	392528	17U	459118	5358185.725	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	sandy(coarse light brown)	0.05	12	25	0.05	2.3
649	392529	17U	459072	5358220.026	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	4	23	0.05	1.97
650	392530	17U	459031	5358254.16	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	11	34	0.05	0.52
651	392531	17U	459013	5358269.164	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.18	5	38	0.05	0.66
652	392532	17U	458994	5358286.611	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	4	14	0.05	5.6
653	392533	17U	458972	5358309.821	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	6	52	0.05	0.38
654	392534	17U	458946	5358324.715	18-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	5	31	0.05	2.05

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
655	392535	17U	458554	5358172	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	clayish grey, some sandy material	0.05	9	50	0.05	3.78
656	392536	17U	458572	5358153	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	dark brown, tillish sandy, deep organics	0.18	52	140	0.05	7.02
657	392537	17U	458594	5358141	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	dark brown, tillish sandy, deep organics	0.11	21	188	0.05	9.77
658	392538	17U	458621	5358119	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	dark grey/ brown, sandy, tillish	0.45	17	13	0.05	5.36
659	392539	17U	458630	5358103	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	dark brown clayish	0.05	6	22	0.05	0.94
660	392540	17U	458651	5358097	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	37	0.05	5.26
661	392541	17U	458670	5358071	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	light brown sandy	0.49	32	65	0.18	6.69
662	392542	17U	458685	5358044	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	18	65	0.24	1.51
663	392543	17U	458722	5358019	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b, 10m from pit, pit b/w last sample	0.05	3	34	0.05	9.79
664	392544	17U	458745	5358005	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy light brown, no a or b	0.05	7	107	0.11	6.45
665	392545	17U	458790	5357974	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b, boulders	0.05	8	67	0.12	17.6
666	392546	17U	458826	5357943	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b, boulders	0.05	5	57	0.05	9.59
667	392547	17U	458867	5357911	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, mixed with some organics, boulders	0.31	12	152	0.11	3.65
668	392548	17U	458904	5357878	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	tillish grey+brown, mixed with some organics	0.11	86	271	0.42	7.94
669	392549	17U	458943	5357836	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	dark brown tillish, no a or b	0.05	38	106	0.19	5.43
670	392550	17U	458985	5357803	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	7	49	0.05	4
671	392551	17U	458922	5358349.288	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	5	34	0.05	7.5
672	392552	17U	458905	5358366.482	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	sandy flakey dark brown	0.05	3	109	0.05	4.15
673	392553	17U	458885	5358381.804	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	3	121	0.05	16.7
674	392554	17U	458869	5358392.729	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	29	26	0.05	4.78
675	392555	17U	458856	5358410.31	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	11	139	0.05	165
676	392556	17U	458837	5358424.894	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	9	56	0.05	2.89
677	392557	17U	458811	5358443.108	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	2	16	0.05	1.8
678	392558	17U	458789	5358463.427	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	30	0.05	2.33
679	392559	17U	458764	5358479.721	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	1	8	0.05	0.4
680	392560	17U	458738	5358486.431	19-Jun-04	10+00E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	29	0.05	2.36
681	392561	17U	458640	5358422.548	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	sandy, no b	0.05	56	73	0.1	0.55
682	392562	17U	458657	5358404.569	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	sandy, no b	0.05	11	57	0.05	2.88
683	392563	17U	458739	5358386.027	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	11	33	0.05	1.71
684	392564	17U	458755	5358367.976	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	12	45	0.05	10.2
685	392565	17U	458776	5358343.636	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	2	43	0.05	9.25
686	392566	17U	458799	5358325.395	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	43	0.05	9.92
687	392567	17U	458822	5358304.916	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	6	32	0.05	4.83
688	392568	17U	458849	5358278.463	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	17	0.05	0.29
689	392569	17U	458865	5358262.815	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	4	19	0.05	0.41
690	392570	17U	458894	5358242.968	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.05	27	45	0.14	2.19
691	392571	17U	458913	5358220.656	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	sandy, no b	0.05	26	45	0.18	2.1
692	392572	17U	458936	5358202.144	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon, below 5cm of 'a' on outcrop	0.05	11	21	0.05	1.2
693	392573	17U	458969	5358166.282	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	19	0.05	8.03
694	392574	17U	459020	5358126.758	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	sandy, pebbles, no b, close to outcrop	0.05	133	66	0.05	2.61
695	392575	17U	459100	5358063.017	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	sandy, no b, oc b/w last sample	0.05	22	72	0.05	0.5

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
696	392576	17U	459171	5357991.498	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon, on outcrop, oc b/w last sample	0.14	6	32	0.05	7.52
697	392577	17U	459211	5357960.343	19-Jun-04	98+75E	Bristol	42A05	JY/RD	MMI-B	good b horizon	0.05	3	37	0.05	10.7
698	392578	17U	459092	5357869.398	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	on oc, no b, swamp b/w last sample	0.51	74	146	0.05	19.8
699	392579	17U	459048	5357900.033	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	sandy b, lots of oc in area	0.05	12	43	0.05	1.76
700	392580	17U	458957	5357992.455	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	shallow b on oc, swamp b/w last sample	0.05	11	38	0.05	5.15
701	392581	17U	458912	5358029.811	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	coarse b horizon	0.05	13	49	0.05	0.56
702	392582	17U	458873	5358062.601	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	shallow b on oc, mixed w/ a	0.05	5	57	0.05	2.2
703	392583	17U	458830	5358092.773	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy, in swamp	0.05	50	78	0.05	4.11
704	392584	17U	458811	5358117.882	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy, edge of swamp	0.05	36	47	0.18	1.6
705	392585	17U	458795	5358130.731	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	sandy b, boulders	0.05	12	46	0.05	56.1
706	392586	17U	458767	5358149.459	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light brown sandy, swampy area	0.05	26	66	0.05	4.57
707	392587	17U	458747	5358168.955	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	4	17	0.11	11.9
708	392588	17U	458725	5358188.939	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light brown sandy, no b	0.05	13	93	0.23	25.8
709	392589	17U	458706	5358207.14	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light brown sandy, no b, 15m from drill road	0.05	5	111	0.05	4.49
710	392590	17U	458684	5358221.253	19-Jun-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light grey sandy, no b, 8m south of drill road	0.38	1	28	0.05	2.88
711	392591	17U	458668	5358231	4-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light grey sandy, no b	0.05	8	90	0.15	5.31
712	392592	17U	458650	5358258	4-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light brown sandy, no b	0.05	7	54	0.14	1.81
713	392593	17U	458633	5358269	4-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light grey sandy, no b	0.22	10	55	0.05	7.14
714	392594	17U	458610	5358282	4-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	light brown sandy b	0.05	11	83	0.13	2.6
715	392595	17U	458591	5358298	4-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	clayish grey, some sandy material	0.1	81	151	0.05	4.66
716	392596	17U	458569	5358318	4-Jul-04	97+50E	Bristol	42A05	JY/RD	MMI-B	clayish grey, some sandy material	0.05	21	96	0.13	4.28
717	392597	17U	458480	5358237	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	light brown sandy, a+b	0.05	11	34	0.13	0.7
718	392598	17U	458504	5358221	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy b	0.05	2	17	0.05	1.39
719	392599	17U	458516	5358200	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	21	0.05	3.63
720	392600	17U	458537	5358188	4-Jul-04	96+25E	Bristol	42A05	HM	MMI-B		0.05	2	18	0.05	0.58
721	392651	17U	459029	5357777	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	2	33	0.05	7.63
722	392652	17U	459057	5357749	4-Jul-04	96+25E	Bristol	42A05	JY/RD	MMI-B	organics, poor sample	0.05	18	85	0.05	7.1
723	392653	17U	458414	5358121	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey tillish, (oc on tl, no sample)	0.18	3	78	0.11	3.04
724	392654	17U	458446	5358104	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	10	55	0.05	1.71
725	392655	17U	458469	5358082	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	10	64	0.05	1.65
726	392656	17U	458482	5358064	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy	0.05	15	57	0.11	1.22
727	392657	17U	458514	5358040	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark grey, 1/2m of organics	0.12	25	391	0.05	6.31
728	392658	17U	458542	5358018	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	8	58	0.05	4.34
729	392659	17U	458565	5358006	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark brown, clayish w/ sand	0.05	3	37	0.05	2.97
730	392660	17U	458540	5357986	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark brown, clayish w/ sand	0.05	21	60	0.2	0.76
731	392661	17U	458607	5357857	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey sandy tillish	0.05	29	112	0.05	2.87
732	392662	17U	458665	5357895	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark grey+brown, 80m from last sample	0.05	26	70	0.05	2.52
733	392663	17U	458705	5357882	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	3	43	0.05	1.18
734	392664	17U	458745	5357842	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey tillish, some organics	0.05	25	142	0.2	5.14
735	392665	17U	458798	5357805	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey tillish	0.11	8	79	0.11	4.86
736	392666	17U	458812	5357777	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey tillish, boulders	0.05	11	36	0.05	0.64

## Soil Geochemistry

	Sample	Zone	Easting	Northing	Date	Line	Twp	NTS	Sampler	Analysis	Description	Au ppb	Co ppb	Ni ppb	Pd ppb	Ag ppb
737	392667	17U	458866	5357742	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark brown tillish	0.34	20	151	0.16	3.32
738	392668	17U	458889	5357693	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey tillish	0.05	4	43	0.05	0.29
739	392669	17U	458944	5357667	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	grey clayish w/ sand	0.05	41	361	0.05	3.71
740	392670	17U	458972	5357629	5-Jul-04	95+00E	Bristol	42A05	JY/RD	MMI-B	dark brown coarse sand	0.05	15	136	0.05	1.8
741	392671	17U	458887	5357549	5-Jul-04	93+75E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy b	3.06	3	38	0.05	11.6
742	392672	17U	458846	5357583	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b, some organics	0.2	4	28	0.05	2.09
743	392673	17U	458810	5357610	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	5	33	0.05	2.17
744	392674	17U	458771	5357641	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	grey tillish	0.05	7	53	0.14	2.02
745	392675	17U	458750	5357678	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	39	0.05	8.14
746	392676	17U	458706	5357707	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown sandy	0.05	8	29	0.05	0.91
747	392677	17U	458666	5357740	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown, coarse	0.05	72	107	0.16	4.15
748	392678	17U	458610	5357790	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark brown coarse sand	0.2	19	114	0.11	4.42
749	392679	17U	458590	5357806	5-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark, sandy, organicy, in swamp	0.05	6	163	0.17	4.75
750	392680	17U	458540	5357855.381	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	fine sand, light brown, edge of swamp	0.48	15	9	0.05	8.84
751	392681	17U	458520	5357863.067	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	light brown clayish, cut area	0.39	4	12	0.05	4.8
752	392682	17U	458504	5357891.518	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	light brown sandy, 5m from drill road	0.58	53	107	0.05	7.44
753	392683	17U	458484	5357895.243	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark brown coarse sandy, 5m from drill road	0.05	24	27	0.05	27.5
754	392684	17U	458462	5357913.41	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown coarse sand	0.05	25	55	0.05	15.1
755	392685	17U	458447	5357930.489	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown sandy, boulders, shallow	0.05	7	14	0.05	16.3
756	392686	17U	458421	5357951.915	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown coarse sand, boulders	0.05	11	43	0.05	1.14
757	392687	17U	458403	5357966.859	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	very coarse dark sand in organicy soil	0.05	10	49	0.05	0.91
758	392688	17U	458359	5358006.537	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark coarse sandy, swamp b/w last sample	0.05	25	46	0.05	5.47
759	392689	17U	458347	5358025.917	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown sandy, cut area, may be re-worked	0.05	49	164	0.23	1.71
760	392690	17U	458324	5358043.149	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy b, cut area, 10m from tl 58+00N	0.05	25	144	0.05	26
761	392691	17U	458241	5357957.78	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark brown clayish	0.21	151	222	0.05	21.5
762	392692	17U	458255	5357933.799	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy w/ pebbles	0.05	9	41	0.23	14.9
763	392693	17U	458273	5357916.673	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy, no b	0.14	26	169	0.27	74
764	392694	17U	458289	5357910.607	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	brown sandy	0.05	33	60	0.05	23.9
765	392695	17U	458314	5357889.667	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b w/ pebbles	0.05	6	16	0.05	43.3
766	392696	17U	458328	5357868.407	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	dark brown sandy	0.05	18	1.5	0.05	38.4
767	392697	17U	458338	5357875.206	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	55	0.12	20.3
768	392698	17U	458374	5357824.023	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	sandy a+b	0.05	4	88	0.05	11.9
769	392699	17U	458395	5357811.227	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	light brown coarse sand	0.05	152	349	0.66	9.91
770	392700	17U	458418	5357791.924	6-Jul-04	92+50E	Bristol	42A05	JY/RD	MMI-B	grey sandy(next sample in sequence is 040001S)	0.35	28	72	0.05	7.43

## **Appendix 4**

### **SGS Analytical Laboratory Certificates**





**CERTIFICATE OF ANALYSIS**

**Work Order: 078123**

To: **Lake Shore Gold Inc.**  
**Attn: Henry Marsden**  
2 Concession, Mount Joy  
TOWNSHIP  
TIMMINS  
ON, CANADA P4N 7E7

**Date : 13/07/04**

Copy 1 to :

P.O. No. :  
Project No. : L93200, L93300, L93100  
No. of Samples : 107 Soil (MMI)  
Date Submitted : 22/06/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 5

**Distribution of unused material:**

**Pulps: STORE**  
**Rejects: STORE**

**Certified By** :

**For: Tim Elliott, Operations Manager**

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 078123

Date: 13/07/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392501	<0.1	4	20	<0.1	1.33
392502	<0.1	2	44	<0.1	8.44
392503	<0.1	2	13	<0.1	3.14
392504	<0.1	3	11	<0.1	8.54
392505	<0.1	26	97	<0.1	10.1
392506	<0.1	9	56	<0.1	8.59
392507	<0.1	6	160	<0.1	3.68
392508	<0.1	3	17	0.11	0.51
392509	<0.1	7	60	<0.1	6.73
392510	<0.1	6	17	<0.1	1.53
392511	<0.1	61	40	0.23	2.29
392512	<0.1	24	72	<0.1	0.86
392513	<0.1	15	104	<0.1	2.83
392514	<0.1	10	37	<0.1	0.57
392515	<0.1	6	50	<0.1	1.81
392516	<0.1	2	13	<0.1	2.38
392517	<0.1	4	16	<0.1	3.32
392518	<0.1	5	37	<0.1	1.93
392519	<0.1	15	30	<0.1	2.62
392520	<0.1	28	73	0.10	3.03
392521	<0.1	48	560	<0.1	23.7
392522	<0.1	10	32	<0.1	21.0
392523	<0.1	8	16	<0.1	1.70
392524	0.29	18	268	<0.1	6.58
392525	0.19	23	143	0.14	11.9
392526	<0.1	6	21	<0.1	7.58
392527	<0.1	34	30	<0.1	1.89
392528	<0.1	12	25	<0.1	2.30
392529	<0.1	4	23	<0.1	1.97
392530	<0.1	11	34	<0.1	0.52



Work Order: 078123

Date: 13/07/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392531	0.18	5	38	<0.1	0.66
392532	<0.1	4	14	<0.1	5.60
392533	<0.1	6	52	<0.1	0.38
392534	<0.1	5	31	<0.1	2.05
392551	<0.1	5	34	<0.1	7.50
392552	<0.1	3	109	<0.1	4.15
392553	<0.1	3	121	<0.1	16.7
392554	<0.1	29	26	<0.1	4.78
392555	<0.1	11	139	<0.1	165
392556	<0.1	9	56	<0.1	2.89
392557	<0.1	2	16	<0.1	1.80
392558	<0.1	3	30	<0.1	2.33
392559	<0.1	1	8	<0.1	0.40
392560	<0.1	3	29	<0.1	2.36
392561	<0.1	56	73	0.10	0.55
392562	<0.1	11	57	<0.1	2.88
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	40.5	33	172	27.1	20.7
392563	<0.1	11	33	<0.1	1.71
392564	<0.1	12	45	<0.1	10.2
392565	<0.1	2	43	<0.1	9.25
392566	<0.1	3	43	<0.1	9.92
392567	<0.1	6	32	<0.1	4.83
392568	<0.1	3	17	<0.1	0.29
392569	<0.1	4	19	<0.1	0.41
392570	<0.1	27	45	0.14	2.19
392571	<0.1	26	45	0.18	2.10
392572	<0.1	11	21	<0.1	1.20
392573	<0.1	3	19	<0.1	8.03
392574	<0.1	133	66	<0.1	2.61



Work Order: 078123

Date: 13/07/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392575	<0.1	22	72	<0.1	0.50
392576	0.14	6	32	<0.1	7.52
392577	<0.1	3	37	<0.1	10.7
392578	0.51	74	146	<0.1	19.8
392579	<0.1	12	43	<0.1	1.76
392580	<0.1	11	38	<0.1	5.15
392581	<0.1	13	49	<0.1	0.56
392582	<0.1	5	57	<0.1	2.20
392583	<0.1	50	78	<0.1	4.11
392584	<0.1	36	47	0.18	1.60
392585	<0.1	12	46	<0.1	56.1
392586	<0.1	26	66	<0.1	4.57
392587	<0.1	4	17	0.11	11.9
392588	<0.1	13	93	0.23	25.8
392589	<0.1	5	111	<0.1	4.49
392590	0.38	1	28	<0.1	2.88
392601	<0.1	46	83	0.16	0.47
392602	<0.1	<1	<3	<0.1	0.23
392603	<0.1	35	47	<0.1	0.89
HWY 392604	<0.1	19	113	<0.1	0.51
392605	<0.1	10	129	<0.1	0.34
392606	<0.1	11	73	<0.1	0.58
392607	<0.1	<1	<3	<0.1	0.12
392608	<0.1	2	12	<0.1	0.38
392609	1.68	3	24	<0.1	3.34
392610	3.02	4	24	<0.1	4.45
392611	2.01	3	26	<0.1	4.11
392612	1.76	3	23	<0.1	3.51
392613	1.88	3	22	<0.1	3.92
392614	0.19	1	15	<0.1	4.14



Work Order: 078123

Date: 13/07/04

FINAL

Page 4 of 5

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392615	0.21	1	12	<0.1	3.92
392616	<0.1	6	20	<0.1	2.48
392617	0.63	1	13	<0.1	4.78
392618	<0.1	1	14	<0.1	3.02
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	40.6	31	167	27.1	20.7
392619	<0.1	13	56	<0.1	1.50
392620	<0.1	2	16	<0.1	2.61
392621	0.24	1	13	<0.1	4.77
392622	<0.1	12	50	<0.1	2.35
392623	<0.1	4	40	<0.1	3.21
392624	<0.1	11	44	<0.1	5.31
392625	<0.1	6	28	<0.1	1.85
392626	<0.1	7	24	<0.1	0.80
392627	<0.1	22	58	<0.1	0.83
392628	2.91	2	24	<0.1	3.52
392629	1.38	2	14	<0.1	3.58
392630	0.77	2	10	<0.1	3.16
392631	1.92	3	31	<0.1	4.60
392632	30.8	2	22	<0.1	9.36
392633	2.49	3	25	<0.1	6.13
*Dup 392501	<0.1	4	19	<0.1	1.18
*Dup 392513	<0.1	12	91	<0.1	2.66
*Dup 392525	0.26	20	134	<0.1	12.1
*Dup 392553	<0.1	3	111	<0.1	20.5
*Dup 392565	<0.1	2	41	<0.1	9.91
*Dup 392577	<0.1	4	34	<0.1	10.6
*Dup 392589	<0.1	6	114	<0.1	5.12
*Dup 392611	2.32	3	26	<0.1	4.06
*Dup 392623	<0.1	4	40	<0.1	3.09



Work Order: 078123

Date: 13/07/04

FINAL

Page 5 of 5

Element.	Au	Co	Ni	Pd	Ag
Method.	MMI-B5	MMI-B5	MMI-B5	MMI-B5	MMI-B5
Det.Lim.	0.1	1	3	0.1	0.1
Units.	ppb	ppb	ppb	ppb	ppb
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	42.8	38	203	49.9	21.2



**CERTIFICATE OF ANALYSIS**

**Work Order: 078379**

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 20/07/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P3B 4J8

Copy 1 to :

P.O. No. :  
Project No. :  
No. of Samples : 82 Soil (MMI)  
Date Submitted : 08/07/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 4

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 078379

Date: 20/07/04

FINAL

Page 1 of 4

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392535	<0.1	9	50	<0.1	3.78
392536	0.18	52	140	<0.1	7.02
392537	0.11	21	188	<0.1	9.77
392538	0.45	17	13	<0.1	5.36
392539	<0.1	6	22	<0.1	0.94
392540	<0.1	4	37	<0.1	5.26
392541	0.49	32	65	0.18	6.69
392542	<0.1	18	65	0.24	1.51
392543	<0.1	3	34	<0.1	9.79
392544	<0.1	7	107	0.11	6.45
392545	<0.1	8	67	0.12	17.6
392546	<0.1	5	57	<0.1	9.59
392547	0.31	12	152	0.11	3.65
392548	0.11	86	271	0.42	7.94
392549	<0.1	38	106	0.19	5.43
392550	<0.1	7	49	<0.1	4.00
392591	<0.1	8	90	0.15	5.31
392592	<0.1	7	54	0.14	1.81
392593	0.22	10	55	<0.1	7.14
392594	<0.1	11	83	0.13	2.60
392595	0.10	81	151	<0.1	4.66
392596	<0.1	21	96	0.13	4.28
392597	<0.1	11	34	0.13	0.70
392598	<0.1	2	17	<0.1	1.39
392599	<0.1	2	21	<0.1	3.63
392600	<0.1	2	18	<0.1	0.58
392651	<0.1	2	33	<0.1	7.63
392652	<0.1	18	85	<0.1	7.10
392653	0.18	3	78	0.11	3.04
392654	<0.1	10	55	<0.1	1.71





Work Order: 078379

Date: 20/07/04

FINAL

Page 2 of 4

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392655	<0.1	10	64	<0.1	1.65
392656	<0.1	15	57	0.11	1.22
392657	0.12	25	391	<0.1	6.31
392658	<0.1	8	58	<0.1	4.34
392659	<0.1	3	37	<0.1	2.97
392660	<0.1	21	60	0.20	0.76
392661	<0.1	29	112	<0.1	2.87
392662	<0.1	26	70	<0.1	2.52
392663	<0.1	3	43	<0.1	1.18
392664	<0.1	25	142	0.20	5.14
392665	0.11	8	79	0.11	4.86
392666	<0.1	11	36	<0.1	0.64
392667	0.34	20	151	0.16	3.32
392668	<0.1	4	43	<0.1	0.29
392669	<0.1	41	361	<0.1	3.71
392670	<0.1	15	136	<0.1	1.80
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	38.7	33	203	36.0	20.0
392671	3.06	3	38	<0.1	11.6
392672	0.20	4	28	<0.1	2.09
392673	<0.1	5	33	<0.1	2.17
392674	<0.1	7	53	0.14	2.02
392675	<0.1	4	39	<0.1	8.14
392676	<0.1	8	29	<0.1	0.91
392677	<0.1	72	107	0.16	4.15
392678	0.20	19	114	0.11	4.42
392679	<0.1	6	163	0.17	4.75
392680	0.48	15	9	<0.1	8.84
392681	0.39	4	12	<0.1	4.80
392682	0.58	53	107	<0.1	7.44



Work Order: 078379

Date: 20/07/04

FINAL

Page 3 of 4

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
392683	<0.1	24	27	<0.1	27.5
392684	<0.1	25	55	<0.1	15.1
392685	<0.1	7	14	<0.1	16.3
392686	<0.1	11	43	<0.1	1.14
392687	<0.1	10	49	<0.1	0.91
392688	<0.1	25	46	<0.1	5.47
392689	<0.1	49	164	0.23	1.71
392690	<0.1	25	144	<0.1	26.0
392691	0.21	151	222	<0.1	21.5
392692	<0.1	9	41	0.23	14.9
392693	0.14	26	169	0.27	74.0
392694	<0.1	33	60	<0.1	23.9
392695	<0.1	6	16	<0.1	43.3
392696	<0.1	18	<3	<0.1	38.4
392697	<0.1	4	55	0.12	20.3
392698	<0.1	4	88	<0.1	11.9
392699	<0.1	152	349	0.66	9.91
392700	0.35	28	72	<0.1	7.43
# 0001	0.25	3	8	<0.1	4.43
# 0002	0.11	10	<3	<0.1	2.98
# 0003	0.13	10	32	<0.1	4.24
# 0004	0.15	24	9	<0.1	2.23
# 0005	<0.1	49	92	<0.1	0.91
# 0006	<0.1	11	51	<0.1	1.59
*Dup 392535	<0.1	8	53	<0.1	3.98
*Dup 392547	0.41	14	142	<0.1	3.97
*Dup 392599	<0.1	2	23	<0.1	4.20
*Dup 392661	<0.1	26	100	0.10	3.16
*Dup 392673	<0.1	5	30	<0.1	1.86
*Dup 392685	<0.1	7	15	<0.1	15.6



Work Order: 078379

Date: 20/07/04

FINAL

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Element.	Au	Co	Ni	Pd	Ag
Method.	MMI-B5	MMI-B5	MMI-B5	MMI-B5	MMI-B5
Det.Lim.	0.1	1	3	0.1	0.1
Units.	ppb	ppb	ppb	ppb	ppb
*Dup 392697	<0.1	4	51	<0.1	22.0
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	37.6	32	194	44.6	18.7



**CERTIFICATE OF ANALYSIS**

Work Order: 078477

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 28/07/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P3B 4J8

Copy 1 to :

5's at the end of  
sample # should  
be S's

P.O. No. :  
Project No. : L93200, **L93100**  
No. of Samples : 62 Soil (MMI)  
Date Submitted : 14/07/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

ie. 0400375  
should be  
040037s

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 078477

Date: 28/07/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0400075	<0.1	7	14	<0.1	1.40
0400085	0.11	12	76	<0.1	1.59
0400095	<0.1	31	32	<0.1	0.41
0400105	<0.1	17	14	<0.1	0.33
0400115	0.19	21	36	0.11	6.53
0400125	<0.1	17	29	<0.1	0.54
0400135	<0.1	22	57	0.17	1.38
0400145	<0.1	4	10	<0.1	2.28
0400155	<0.1	8	48	<0.1	3.38
0400165	<0.1	2	67	<0.1	3.26
0400175	<0.1	90	127	<0.1	2.58
0400185	0.25	2	31	<0.1	2.46
0400195	0.14	46	61	<0.1	4.53
0400205	<0.1	6	43	<0.1	9.44
0400215	<0.1	15	140	0.18	49.2
0400225	<0.1	9	95	0.11	2.44
0400235	<0.1	5	67	<0.1	2.55
0400245	0.15	43	54	<0.1	3.21
0400255	0.11	15	19	<0.1	2.89
0400265	<0.1	42	101	<0.1	0.59
0400275	0.21	20	42	0.19	1.77
0400285	<0.1	4	5	<0.1	0.26
0400295	<0.1	8	26	<0.1	0.82
0400305	<0.1	15	39	<0.1	1.96
0400315	0.13	21	44	0.11	3.16
0400325	<0.1	8	26	<0.1	1.53
0400335	<0.1	3	25	<0.1	2.35
0400345	<0.1	5	23	<0.1	1.50
0400355	<0.1	3	17	<0.1	4.39
0400365	<0.1	20	28	<0.1	1.29



Work Order: 078477

Date: 28/07/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0400375	<0.1	5	23	<0.1	2.11
0400385	<0.1	12	21	<0.1	1.16
.93100- 0402015	<0.1	26	135	<0.1	1.16
0402025	0.21	1	3	<0.1	3.78
0402035	<0.1	30	229	<0.1	1.65
0402045	0.20	4	14	<0.1	4.19
0402055	0.13	36	257	<0.1	2.95
0402065	0.20	4	16	<0.1	3.97
0402075	<0.1	33	204	<0.1	1.18
0402085	0.31	2	3	<0.1	3.95
0402095	<0.1	9	126	<0.1	3.50
0402105	<0.1	2	77	<0.1	2.67
0402115	<0.1	2	112	<0.1	2.88
0402125	<0.1	3	76	<0.1	2.59
0402135	<0.1	2	113	<0.1	3.21
0402145	<0.1	1	80	<0.1	2.76
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	41.4	38	180	23.5	19.5
0401015	<0.1	8	114	0.19	0.67
0401025	<0.1	37	53	0.12	0.72
0401035	0.17	8	32	<0.1	3.34
0401045	<0.1	31	43	<0.1	0.49
0401055	<0.1	10	21	<0.1	0.78
0401065	0.20	39	32	<0.1	1.87
0401075	<0.1	15	128	<0.1	0.52
0401085	0.17	3	5	<0.1	0.60
0401095	<0.1	<1	6	<0.1	0.11
0401105	<0.1	<1	6	<0.1	0.68
0401115	<0.1	2	7	<0.1	1.19
0401125	<0.1	1	5	<0.1	1.25



Work Order: 078477

Date: 28/07/04

FINAL

Page 3 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0401135	<0.1	16	14	<0.1	0.63
0401145	<0.1	2	16	<0.1	0.26
0401155	<0.1	3	17	<0.1	0.53
0401165	<0.1	5	20	<0.1	1.78
*Dup 0400075	<0.1	7	13	<0.1	1.41
*Dup 0400195	0.13	50	70	<0.1	4.28
*Dup 0400315	<0.1	23	38	<0.1	2.99
*Dup 0402055	0.15	30	210	<0.1	2.57
*Dup 0401035	<0.1	8	33	<0.1	3.08
*Dup 0401155	<0.1	2	9	<0.1	0.40
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	40.2	36	177	23.0	19.1



**CERTIFICATE OF ANALYSIS**

**Work Order: 078591**

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 11/08/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P3B 4J8

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 61 Soil (MMI)  
Date Submitted : 20/07/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions





Work Order: 078591

Date: 11/08/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040060S	0.18	6	13	<0.1	0.49
040061S	0.12	7	15	<0.1	1.35
040062S	<0.1	3	21	<0.1	2.52
040063S	<0.1	21	145	<0.1	0.82
040064S	<0.1	55	146	<0.1	1.71
040065S	0.18	4	62	0.10	1.13
040066S	<0.1	12	31	<0.1	1.12
040067S	<0.1	104	122	<0.1	1.83
040068S	<0.1	3	10	<0.1	0.81
040069S	<0.1	4	12	<0.1	4.31
040070S	<0.1	12	48	0.11	3.11
040071S	<0.1	8	22	<0.1	2.12
040072S	<0.1	3	30	<0.1	2.40
040073S	<0.1	7	60	<0.1	6.94
040074S	<0.1	22	86	0.13	5.22
040075S	0.15	22	65	<0.1	4.95
040076S	0.24	6	10	<0.1	3.49
040077S	<0.1	20	45	<0.1	6.76
040078S	<0.1	9	11	<0.1	2.20
040079S	<0.1	14	176	<0.1	7.66
040080S	<0.1	6	9	<0.1	0.70
040081S	<0.1	5	19	<0.1	9.73
040082S	<0.1	2	8	<0.1	5.72
040083S	<0.1	10	28	<0.1	2.13
040084S	0.64	37	78	0.30	10.3
040085S	<0.1	4	11	<0.1	0.83
040039S	0.25	11	38	<0.1	3.72
040040S	<0.1	98	55	0.10	2.39
040041S	<0.1	3	7	<0.1	1.20
040042S	0.11	15	23	<0.1	1.06



Work Order: 078591

Date: 11/08/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040043S	0.20	16	41	<0.1	3.96
040044S	<0.1	13	19	0.10	2.03
040045S	<0.1	9	22	<0.1	1.57
040046S	<0.1	29	83	<0.1	6.51
040047S	<0.1	9	43	<0.1	4.79
040048S	0.34	8	98	<0.1	4.33
040049S	<0.1	4	17	<0.1	0.78
040050S	<0.1	2	30	<0.1	4.39
040051S	<0.1	29	46	<0.1	3.29
040052S	0.12	33	276	<0.1	11.3
040053S	<0.1	6	31	0.10	2.14
040054S	0.12	5	33	<0.1	5.58
040055S	<0.1	4	13	<0.1	0.53
040056S	<0.1	4	9	<0.1	3.09
040057S	0.13	32	34	<0.1	4.29
040058S	0.14	11	14	<0.1	1.93
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.7	35	132	26.7	21.4
040059S	0.12	19	37	0.21	1.34
040087S	<0.1	4	16	<0.1	3.00
040088S	<0.1	18	29	<0.1	1.99
040089S	<0.1	6	20	<0.1	2.32
040090S	0.22	6	38	<0.1	9.35
040091S	0.24	34	96	<0.1	5.02
040092S	0.12	24	68	<0.1	6.56
040093S	0.26	11	38	<0.1	5.35
040094S	0.14	11	29	<0.1	3.51
040095S	<0.1	3	37	<0.1	2.81
040096S	<0.1	49	105	<0.1	7.94
040097S	<0.1	24	78	<0.1	4.66



Work Order: 078591

Date: 11/08/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040098S	0.12	15	123	0.16	9.07
040099S	<0.1	16	41	0.11	1.50
040100S	0.16	34	91	<0.1	2.86
*Dup 040060S	0.12	5	14	<0.1	0.48
*Dup 040072S	<0.1	3	34	<0.1	2.42
*Dup 040084S	0.51	40	86	<0.1	8.80
*Dup 040049S	<0.1	4	21	<0.1	0.70
*Dup 040088S	<0.1	19	31	<0.1	1.64
*Dup 040100S	0.14	30	90	<0.1	2.53
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	38.0	32	149	29.5	20.9



## CERTIFICATE OF ANALYSIS

Work Order: 078592

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 11/08/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P3B 4J8

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 53 Soil (MMI)  
Date Submitted : 20/07/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

### Distribution of unused material:

Pulps: Discarded After 90 Days Unless Instructed!!!  
Rejects: Discarded After 90 Days Unless Instructed!!!

Certified By :

  
\_\_\_\_\_  
Tim Elliott, Operations Manager

ISO 9002 REGISTERED

ISO 17025 Accredited for Specific Tests. SCC No. 456

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

Subject to SGS General Terms and Conditions



Work Order: 078592

Date: 11/08/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040320S	<0.1	4	30	<0.1	1.46
040321S	<0.1	5	16	<0.1	0.52
040322S	<0.1	3	9	<0.1	0.48
040323S	<0.1	2	8	<0.1	0.46
040324S	<0.1	4	16	<0.1	0.46
040325S	<0.1	3	13	<0.1	0.36
040326S	<0.1	9	37	<0.1	1.85
040327S	<0.1	3	23	0.13	0.62
040328S	<0.1	4	27	0.25	3.24
040329S	0.15	1	4	<0.1	0.25
040330S	<0.1	4	11	<0.1	0.40
040331S	<0.1	2	5	<0.1	0.44
040332S	<0.1	2	12	<0.1	0.63
040333S	<0.1	4	20	<0.1	2.95
040334S	<0.1	6	14	<0.1	2.46
040335S	<0.1	8	25	<0.1	1.17
040336S	<0.1	22	102	<0.1	2.66
040337S	<0.1	7	32	<0.1	1.89
040338S	<0.1	13	67	<0.1	3.44
040339S	<0.1	24	50	0.33	2.24
040340S	<0.1	17	22	0.18	1.43
040341S	0.12	7	39	<0.1	4.88
040342S	<0.1	8	29	0.39	10.1
040343S	<0.1	17	52	0.13	3.24
040344S	0.13	31	100	0.28	4.67
040345S	<0.1	2	15	<0.1	1.45
040346S	<0.1	7	28	<0.1	1.65
040347S	0.13	3	25	<0.1	2.57
040151S	<0.1	12	<3	<0.1	5.69
040152S	<0.1	32	51	<0.1	2.66



Work Order: 078592

Date: 11/08/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040153S	<0.1	49	80	<0.1	0.90
040154S	<0.1	4	45	<0.1	0.62
040301S	<0.1	16	60	<0.1	1.15
040302S	<0.1	3	20	<0.1	0.47
040303S	<0.1	5	19	<0.1	0.43
040304S	<0.1	5	29	<0.1	3.43
040305S	<0.1	4	51	<0.1	1.43
040306S	<0.1	18	49	<0.1	1.15
040307S	<0.1	12	29	<0.1	4.17
040308S	<0.1	35	61	<0.1	1.82
040309S	<0.1	37	69	<0.1	1.40
040310S	<0.1	6	13	<0.1	0.47
040311S	<0.1	2	9	<0.1	0.46
040312S	<0.1	83	151	<0.1	2.58
040313S	<0.1	10	40	<0.1	0.59
040314S	<0.1	6	24	<0.1	1.96
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.3	40	115	18.3	19.0
040315S	0.21	34	49	<0.1	8.20
040316S	<0.1	2	25	<0.1	2.81
040317S	<0.1	6	21	<0.1	23.3
040318S	<0.1	2	22	<0.1	12.2
040319S	<0.1	4	24	<0.1	6.10
040086S	<0.1	5	13	<0.1	0.63
040348S	<0.1	26	50	<0.1	0.75
*Dup 040320S	<0.1	4	31	<0.1	1.26
*Dup 040332S	<0.1	3	18	<0.1	0.53
*Dup 040344S	0.15	35	105	0.23	5.13
*Dup 040305S	<0.1	5	42	<0.1	1.17
*Dup 040317S	<0.1	7	20	<0.1	21.4



Work Order: 078592

Date: 11/08/04

FINAL

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Element.	Au	Co	Ni	Pd	Ag
Method.	MMI-B5	MMI-B5	MMI-B5	MMI-B5	MMI-B5
Det.Lim.	0.1	1	3	0.1	0.1
Units.	ppb	ppb	ppb	ppb	ppb
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.4	38	115	19.0	18.6



# CERTIFICATE OF ANALYSIS

Work Order: 078750

To: Lake Shore Gold Inc.  
Attn: Henry Marsden

Date : 11/08/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P3B 4J8

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 90 Soil (MMI)  
Date Submitted : 26/07/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 4

*S's should be  
S's  
ie. 0403765  
↓ should read  
040376S*

Distribution of unused material:  
Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

ISO 9002 REGISTERED

ISO 17025 Accredited for Specific Tests. SCC No. 456

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

Subject to SGS General Terms and Conditions





Work Order: 078750

Date: 11/08/04

FINAL

Page 1 of 4

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0403765	<0.1	10	51	<0.1	0.66
0403775	0.10	10	48	<0.1	1.25
0403785	0.13	8	134	<0.1	4.51
0403795	<0.1	5	18	0.17	1.45
0403805	<0.1	1	25	<0.1	5.11
0403815	<0.1	2	18	<0.1	2.49
0403825	0.20	21	26	<0.1	1.12
0403835	0.17	12	34	<0.1	3.28
0403845	0.18	66	67	<0.1	8.07
0403855	<0.1	12	32	<0.1	4.00
0403865	<0.1	23	75	0.26	0.98
0403875	0.16	9	32	<0.1	4.84
0403885	<0.1	3	10	<0.1	0.38
0403895	<0.1	6	35	<0.1	2.98
0403905	<0.1	5	25	<0.1	0.39
0403915	<0.1	3	23	<0.1	0.74
0403925	<0.1	2	9	<0.1	2.63
0403605	<0.1	5	16	<0.1	1.76
0403615	<0.1	5	12	<0.1	0.69
0403625	<0.1	10	24	<0.1	1.15
0403635	<0.1	22	67	<0.1	0.29
0403645	<0.1	6	8	<0.1	0.12
0403655	0.33	2	<3	<0.1	9.02
0403665	<0.1	11	213	<0.1	2.09
0403675	<0.1	4	14	<0.1	1.85
0403685	<0.1	3	29	<0.1	2.33
0403695	<0.1	5	23	<0.1	0.90
0403705	<0.1	8	16	<0.1	0.63
0403715	<0.1	2	8	<0.1	0.60
0403725	<0.1	4	32	<0.1	1.98



Work Order: 078750

Date: 11/08/04

FINAL

Page 2 of 4

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0403735	<0.1	4	11	<0.1	0.82
0403745	<0.1	27	76	<0.1	1.18
0403755	<0.1	7	23	0.12	0.34
0403495	<0.1	4	19	<0.1	0.45
0403505	0.12	36	570	<0.1	7.43
0403515	<0.1	73	272	<0.1	0.95
0403525	<0.1	2	33	<0.1	4.88
0403535	<0.1	39	41	0.10	2.01
0403545	<0.1	15	22	<0.1	1.83
0403555	<0.1	7	68	<0.1	0.98
0403565	<0.1	6	19	<0.1	1.83
0403575	<0.1	2	6	<0.1	1.10
0403585	<0.1	76	76	0.12	1.12
0403595	<0.1	27	22	<0.1	0.11
0401965	<0.1	5	25	<0.1	2.13
0401975	<0.1	16	63	<0.1	1.30
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	41.4	35	188	34.8	18.7
0401985	<0.1	3	24	<0.1	3.14
0401995	<0.1	33	61	0.14	0.94
0402005	<0.1	10	60	<0.1	1.53
0401765	<0.1	16	91	<0.1	3.33
0401775	<0.1	6	51	<0.1	2.56
0401785	0.10	3	44	0.10	4.72
0401795	<0.1	18	42	<0.1	1.91
0401805	<0.1	17	20	<0.1	0.36
0401815	<0.1	14	36	<0.1	2.45
0401825	<0.1	14	30	<0.1	1.01
0401835	<0.1	15	62	0.11	1.71
0401845	<0.1	4	18	<0.1	1.67



Work Order: 078750

Date: 11/08/04

FINAL

Page 3 of 4

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0401855	<0.1	16	17	<0.1	0.88
0401865	<0.1	15	18	<0.1	1.68
0401875	<0.1	7	90	<0.1	7.77
0401885	<0.1	31	98	0.11	3.69
0401895	<0.1	13	147	<0.1	5.76
0401905	<0.1	14	97	0.22	2.34
0401915	<0.1	47	186	<0.1	1.85
0401925	<0.1	45	109	0.12	1.26
0401935	<0.1	7	57	<0.1	2.47
0401945	<0.1	13	39	<0.1	0.80
0401955	<0.1	6	23	<0.1	0.94
0401555	<0.1	3	35	<0.1	3.11
0401565	<0.1	46	53	0.26	1.09
0401575	<0.1	3	30	<0.1	2.04
0401585	<0.1	9	39	<0.1	1.33
0401595	<0.1	9	57	0.14	2.26
0401605	<0.1	2	10	<0.1	3.24
0401615	<0.1	3	19	0.12	1.35
0401625	<0.1	2	24	<0.1	7.69
0401635	0.12	18	63	<0.1	1.37
0401645	0.31	6	27	<0.1	2.29
0401655	<0.1	4	8	<0.1	0.19
0401665	<0.1	12	67	<0.1	1.53
0401675	<0.1	27	129	<0.1	0.23
0401685	<0.1	28	78	<0.1	1.01
0401695	<0.1	11	23	<0.1	0.87
0401705	<0.1	30	56	0.16	1.08
0401715	<0.1	19	53	<0.1	1.50
0401725	<0.1	5	12	<0.1	0.19
0401735	<0.1	12	53	<0.1	1.98



Work Order: 078750

Date: 11/08/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
0401745	<0.1	6	43	<0.1	1.95
0401755	<0.1	20	76	<0.1	1.67
*Dup 0403765	<0.1	11	55	<0.1	0.49
*Dup 0403885	<0.1	3	13	<0.1	0.35
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	40.4	36	198	35.7	17.9
*Dup 0403675	<0.1	4	14	<0.1	2.02
*Dup 0403525	<0.1	2	29	<0.1	5.28
*Dup 0402005	<0.1	12	69	<0.1	1.26
*Dup 0401875	<0.1	9	93	<0.1	7.29
*Dup 0401585	<0.1	8	34	<0.1	1.25
*Dup 0401705	<0.1	37	48	0.17	0.99
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	40.7	37	202	37.6	18.4



**CERTIFICATE OF ANALYSIS**

**Work Order: 079309**

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 29/09/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 70 Soil (MMI)  
Date Submitted : 16/08/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

  
\_\_\_\_\_  
Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 079309

Date: 29/09/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040401S	<0.1	2	14	<0.1	1.19
040402S	<0.1	1	4	<0.1	0.88
040403S	<0.1	5	15	<0.1	1.89
040404S	<0.1	7	20	<0.1	0.27
040405S	<0.1	3	46	<0.1	0.98
040406S	<0.1	3	36	<0.1	2.47
040407S	<0.1	14	21	<0.1	0.48
040408S	0.12	7	125	<0.1	12.6
040409S	0.10	13	78	<0.1	4.58
040410S	<0.1	4	31	<0.1	1.40
040411S	0.15	7	51	<0.1	1.86
040412S	<0.1	9	12	<0.1	0.42
040413S	<0.1	4	20	<0.1	0.51
040414S	<0.1	10	36	<0.1	0.50
040415S	<0.1	3	17	<0.1	0.45
040416S	<0.1	2	19	<0.1	0.89
040417S	<0.1	5	16	<0.1	2.15
040418S	<0.1	3	41	<0.1	4.04
040419S	<0.1	3	16	<0.1	2.89
040420S	<0.1	2	16	<0.1	1.27
040286S	0.25	2	4	<0.1	6.50
040287S	<0.1	2	15	<0.1	0.53
040288S	<0.1	<1	10	<0.1	0.26
040289S	<0.1	11	71	<0.1	1.55
040290S	<0.1	8	54	<0.1	1.28
040291S	<0.1	15	54	<0.1	1.20
040292S	<0.1	9	31	<0.1	0.84
040293S	<0.1	19	38	<0.1	0.92
040294S	<0.1	18	45	<0.1	1.42
040295S	<0.1	11	36	<0.1	2.03



Work Order: 079309

Date: 29/09/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040296S	<0.1	2	15	<0.1	0.14
040297S	0.25	22	41	<0.1	3.66
040298S	<0.1	9	30	<0.1	0.42
040299S	<0.1	9	53	<0.1	1.93
040300S	<0.1	<1	5	<0.1	0.67
040270S	0.10	11	42	<0.1	1.89
040271S	<0.1	7	86	<0.1	2.19
040272S	<0.1	4	24	<0.1	1.08
040273S	<0.1	<1	13	<0.1	0.97
040274S	<0.1	11	20	<0.1	0.42
040275S	<0.1	2	10	<0.1	0.35
040276S	<0.1	23	52	<0.1	1.47
040277S	0.16	5	36	<0.1	0.94
040278S	<0.1	4	56	<0.1	0.70
040279S	<0.1	11	37	<0.1	0.62
040280S	<0.1	3	55	<0.1	0.21
*Bik BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.0	34	200	33.2	18.4
040281S	0.17	39	46	<0.1	2.13
040282S	<0.1	48	57	<0.1	0.49
040283S	<0.1	1	7	<0.1	0.31
040284S	<0.1	1	6	<0.1	0.26
040285S	<0.1	2	17	<0.1	0.48
040251S	0.16	13	71	<0.1	2.71
040252S	<0.1	25	83	<0.1	1.14
040253S	<0.1	4	27	<0.1	0.45
040254S	<0.1	8	18	<0.1	0.67
040255S	<0.1	3	16	<0.1	0.40
040256S	0.33	9	18	<0.1	4.15
040257S	<0.1	12	9	<0.1	0.32



Work Order: 079309

Date: 29/09/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040258S	<0.1	20	30	<0.1	2.30
040259S	<0.1	7	35	<0.1	1.32
040260S	<0.1	11	40	<0.1	0.59
040261S	0.12	5	4	<0.1	0.51
040262S	<0.1	3	16	<0.1	0.56
040263S	<0.1	19	105	<0.1	6.68
040264S	<0.1	8	23	<0.1	1.27
040265S	<0.1	9	24	<0.1	1.24
040266S	<0.1	2	23	<0.1	1.44
040267S	<0.1	4	13	<0.1	0.66
040268S	<0.1	3	14	<0.1	0.64
040269S	<0.1	6	83	<0.1	4.43
*Dup 040401S	<0.1	2	15	<0.1	1.36
*Dup 040413S	<0.1	5	22	<0.1	0.59
*Dup 040290S	<0.1	7	56	<0.1	1.34
*Dup 040271S	<0.1	7	80	<0.1	2.18
*Dup 040283S	<0.1	<1	11	<0.1	0.23
*Dup 040260S	<0.1	11	33	<0.1	0.51
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.8	32	200	31.7	18.4





**CERTIFICATE OF ANALYSIS**

**Work Order: 079529**

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 29/09/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 59 Soil (MMI)  
Date Submitted : 23/08/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 079529

Date: 29/09/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040421S	<0.1	8	30	<0.1	1.03
040422S	<0.1	3	34	<0.1	1.90
040423S	<0.1	<1	12	<0.1	1.09
040424S	<0.1	7	33	<0.1	1.23
040425S	<0.1	6	19	<0.1	0.55
040426S	<0.1	2	20	<0.1	1.11
040427S	<0.1	1	13	<0.1	2.03
040428S	<0.1	13	37	<0.1	1.00
040429S	<0.1	14	34	<0.1	2.52
040430S	<0.1	9	82	0.12	1.63
040431S	0.13	30	52	<0.1	0.64
040432S	<0.1	33	45	0.14	0.65
040433S	0.13	8	126	0.11	1.09
040434S	<0.1	21	56	<0.1	0.16
040435S	<0.1	30	52	<0.1	1.09
040436S	<0.1	8	18	<0.1	0.55
040437S	0.10	5	12	<0.1	0.83
040438S	<0.1	4	25	<0.1	0.46
040439S	<0.1	3	50	<0.1	0.37
040440S	<0.1	2	51	<0.1	1.25
040441S	<0.1	2	35	<0.1	1.60
040442S	<0.1	6	29	<0.1	0.82
040443S	<0.1	6	40	<0.1	0.54
040444S	<0.1	2	19	<0.1	0.64
040445S	<0.1	20	35	<0.1	0.62
040446S	<0.1	25	36	<0.1	0.59
040447S	<0.1	5	16	<0.1	0.64
040448S	<0.1	2	10	<0.1	1.21
040449S	<0.1	1	10	<0.1	0.99
040450S	<0.1	49	53	<0.1	0.22



Work Order: 079529

Date: 29/09/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040451S	1.64	6	28	<0.1	1.27
040452S	<0.1	154	127	<0.1	1.81
040453S	<0.1	2	20	<0.1	0.56
040454S	<0.1	3	18	<0.1	3.29
040455S	<0.1	2	10	<0.1	2.74
040456S	<0.1	5	16	<0.1	0.81
040457S	<0.1	3	7	<0.1	0.75
040458S	<0.1	2	7	<0.1	1.42
040459S	<0.1	2	17	<0.1	2.18
040460S	0.30	13	31	<0.1	8.98
040461S	0.18	6	63	<0.1	6.10
040462S	<0.1	<1	14	<0.1	0.63
040463S	<0.1	28	133	<0.1	7.23
040464S	<0.1	28	24	<0.1	0.87
040465S	<0.1	22	33	<0.1	0.62
040466S	<0.1	10	57	<0.1	1.08
*Bik BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	45.3	35	206	42.8	21.0
040467S	<0.1	47	76	<0.1	3.36
040468S	<0.1	3	8	<0.1	1.17
040469S	<0.1	7	19	<0.1	0.48
040470S	<0.1	2	12	<0.1	0.76
040471S	<0.1	13	58	<0.1	0.49
040472S	0.11	12	40	<0.1	5.92
040473S	<0.1	13	28	<0.1	3.92
040474S	0.11	17	38	<0.1	5.66
040475S	<0.1	2	10	<0.1	0.15
040476S	<0.1	2	14	<0.1	0.66
040477S	<0.1	11	60	<0.1	2.45
040478S	<0.1	<1	11	<0.1	0.35



Work Order: 079529

Date: 29/09/04

FINAL

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Element.	Au	Co	Ni	Pd	Ag
Method.	MMI-B5	MMI-B5	MMI-B5	MMI-B5	MMI-B5
Det.Lim.	0.1	1	3	0.1	0.1
Units.	ppb	ppb	ppb	ppb	ppb
040479S	<0.1	4	28	<0.1	2.42
*Dup 040421S	0.11	8	31	<0.1	0.84
*Dup 040433S	<0.1	8	130	<0.1	1.23
*Dup 040445S	<0.1	16	31	<0.1	0.68
*Dup 040457S	<0.1	2	5	<0.1	0.79
*Dup 040469S	<0.1	5	17	<0.1	0.47
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	47.0	36	195	41.4	21.0



## CERTIFICATE OF ANALYSIS

Work Order: 079530

To: Lake Shore Gold Inc.  
Attn: Henry Marsden

Date : 29/09/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 70 Soil (MMI)  
Date Submitted : 23/08/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

### Distribution of unused material:

Pulps: STORE  
Rejects: STORE

Certified By :

  
\_\_\_\_\_  
Tim Elliott, Operations Manager

ISO 9002 REGISTERED

ISO 17025 Accredited for Specific Tests. SCC No. 456

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

Subject to SGS General Terms and Conditions



Work Order: 079530

Date: 29/09/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040480S	<0.1	5	23	<0.1	0.36
040481S	<0.1	<1	16	<0.1	0.62
040482S	<0.1	3	24	<0.1	0.37
040483S	<0.1	13	41	<0.1	0.89
040484S	<0.1	30	43	<0.1	1.05
040485S	<0.1	2	14	<0.1	0.64
040486S	<0.1	1	12	<0.1	0.19
040487S	<0.1	67	61	<0.1	0.96
040488S	<0.1	16	70	<0.1	1.56
040489S	<0.1	13	41	<0.1	0.53
040490S	<0.1	8	37	<0.1	0.33
040491S	<0.1	11	36	<0.1	2.64
040492S	<0.1	14	30	<0.1	3.23
040493S	<0.1	38	86	<0.1	2.36
040494S	<0.1	3	29	<0.1	0.49
040495S	<0.1	6	95	<0.1	4.34
040496S	<0.1	5	16	<0.1	0.84
040497S	<0.1	42	58	<0.1	1.33
040498S	0.23	14	77	<0.1	3.97
040499S	0.25	9	41	<0.1	5.38
040500S	<0.1	18	48	<0.1	1.01
040501S	<0.1	16	93	<0.1	0.82
040502S	<0.1	15	45	<0.1	2.14
040503S	<0.1	10	37	<0.1	1.75
040504S	0.12	16	42	<0.1	4.08
040505S	<0.1	38	75	<0.1	1.13
040506S	<0.1	5	42	<0.1	3.15
040507S	0.18	21	55	<0.1	5.26
040508S	<0.1	32	78	<0.1	1.05
040509S	<0.1	26	44	<0.1	0.98



Work Order: 079530

Date: 29/09/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040510S	0.20	89	111	<0.1	6.01
040511S	<0.1	27	31	<0.1	1.96
040512S	<0.1	16	18	<0.1	0.91
040513S	<0.1	9	60	<0.1	1.23
040514S	<0.1	89	54	<0.1	0.61
040601S	<0.1	2	62	<0.1	3.20
040602S	<0.1	2	16	<0.1	3.18
040603S	<0.1	8	12	<0.1	4.34
040604S	<0.1	5	42	<0.1	5.54
040605S	<0.1	4	19	<0.1	4.71
040606S	<0.1	5	45	<0.1	5.25
040607S	<0.1	<1	17	<0.1	0.99
040608S	<0.1	10	52	<0.1	3.33
040609S	<0.1	<1	48	<0.1	1.05
040610S	<0.1	3	47	<0.1	3.56
040611S	<0.1	4	15	<0.1	0.86
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	40.2	32	197	36.5	19.1
040612S	<0.1	18	37	<0.1	1.61
040613S	<0.1	10	7	0.10	<0.1
040614S	<0.1	10	69	<0.1	1.81
040615S	<0.1	4	43	<0.1	7.01
040616S	<0.1	16	59	<0.1	4.30
040617S	<0.1	3	38	<0.1	7.73
040618S	<0.1	2	40	<0.1	4.40
040619S	<0.1	2	46	<0.1	5.23
040620S	<0.1	3	38	<0.1	5.23
040621S	<0.1	4	45	<0.1	5.57
040622S	<0.1	7	58	<0.1	4.70
040623S	<0.1	4	11	<0.1	1.21



Work Order: 079530

Date: 29/09/04

FINAL

Page 3 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040624S	<0.1	63	52	<0.1	3.94
040625S	<0.1	5	20	<0.1	7.01
040626S	<0.1	3	31	<0.1	4.74
040627S	<0.1	2	73	<0.1	3.40
040628S	<0.1	3	22	<0.1	3.04
040629S	0.12	5	23	<0.1	0.67
040630S	<0.1	2	10	<0.1	0.40
040631S	<0.1	2	15	<0.1	2.00
040632S	<0.1	2	21	<0.1	4.42
040633S	<0.1	15	15	<0.1	0.88
040634S	<0.1	2	18	<0.1	4.20
040635S	<0.1	4	13	<0.1	4.58
*Dup 040480S	<0.1	5	21	<0.1	0.35
*Dup 040492S	<0.1	13	28	<0.1	3.44
*Dup 040504S	0.15	18	43	<0.1	3.71
*Dup 040602S	<0.1	2	14	<0.1	3.29
*Dup 040614S	<0.1	11	71	<0.1	1.50
*Dup 040626S	<0.1	4	32	<0.1	5.81
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.8	31	190	35.8	19.5





**CERTIFICATE OF ANALYSIS**

**Work Order: 079730**

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 29/09/04

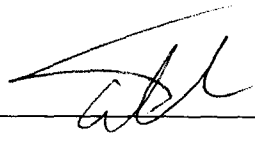
Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 65 Soil (MMI)  
Date Submitted : 31/08/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

Distribution of unused material:  
Pulps: STORE  
Rejects: STORE

Certified By :

  
\_\_\_\_\_  
Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 079730

Date: 29/09/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040636S	<0.1	32	22	<0.1	1.11
040637S	<0.1	2	10	<0.1	1.82
040638S	<0.1	8	8	<0.1	0.34
040639S	<0.1	7	20	<0.1	3.74
040640S	<0.1	4	18	<0.1	10.1
040641S	<0.1	3	43	<0.1	8.23
040642S	<0.1	56	114	<0.1	4.86
040643S	<0.1	7	52	<0.1	14.6
040644S	0.19	13	59	<0.1	6.25
040645S	<0.1	26	53	<0.1	4.07
040646S	<0.1	102	58	<0.1	1.28
040647S	<0.1	10	35	<0.1	0.59
040648S	<0.1	35	76	<0.1	2.21
040649S	<0.1	54	50	<0.1	2.25
040650S	<0.1	18	115	<0.1	1.35
040651S	<0.1	2	16	<0.1	0.42
040652S	<0.1	11	13	<0.1	2.06
040653S	<0.1	3	10	<0.1	1.32
040654S	<0.1	5	16	<0.1	3.28
040655S	<0.1	4	5	<0.1	0.14
040656S	<0.1	14	7	<0.1	0.14
040657S	<0.1	4	41	<0.1	7.22
040658S	<0.1	2	6	<0.1	4.74
040659S	<0.1	1	3	<0.1	1.05
040660S	0.10	14	41	<0.1	4.74
040661S	<0.1	2	10	<0.1	1.39
040662S	<0.1	4	6	<0.1	1.28
040663S	<0.1	22	32	<0.1	3.79
040664S	<0.1	5	31	<0.1	2.21
040665S	<0.1	45	63	<0.1	2.16



Work Order: 079730

Date: 29/09/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040666S	0.10	5	31	<0.1	3.00
040667S	<0.1	<1	103	<0.1	3.72
040668S	<0.1	106	133	<0.1	1.17
040669S	<0.1	3	26	<0.1	0.26
040670S	<0.1	2	95	<0.1	7.02
040671S	0.34	9	8	<0.1	0.36
040672S	<0.1	4	4	<0.1	0.43
040673S	<0.1	9	18	<0.1	0.85
040674S	<0.1	10	72	<0.1	1.39
040675S	0.21	29	231	<0.1	8.62
040676S	<0.1	3	12	<0.1	5.84
040677S	0.14	28	41	<0.1	0.63
040678S	<0.1	3	11	<0.1	5.79
040679S	<0.1	10	18	<0.1	1.00
040680S	<0.1	19	18	<0.1	1.08
040681S	<0.1	6	14	<0.1	0.75
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	41.2	31	182	38.2	19.6
040682S	<0.1	7	24	<0.1	2.63
040683S	0.11	7	46	<0.1	1.71
040684S	<0.1	4	146	<0.1	7.95
040685S	0.16	1	57	<0.1	3.17
040686S	<0.1	8	50	<0.1	2.69
040687S	<0.1	2	5	<0.1	0.45
040688S	<0.1	27	38	<0.1	1.44
040689S	<0.1	7	122	<0.1	6.59
040690S	<0.1	3	27	<0.1	1.07
040691S	<0.1	4	43	<0.1	6.57
040692S	<0.1	6	54	<0.1	3.18
040693S	<0.1	5	52	<0.1	9.80



Work Order: 079730

Date: 29/09/04

FINAL

Page 3 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040694S	<0.1	21	9	<0.1	0.69
040695S	<0.1	3	29	<0.1	5.08
040696S	<0.1	8	22	<0.1	6.80
040697S	<0.1	9	36	<0.1	1.18
040698S	<0.1	4	8	<0.1	0.93
040699S	<0.1	15	23	<0.1	0.94
040700S	<0.1	6	23	<0.1	1.81
*Dup 040636S	<0.1	39	24	<0.1	0.91
*Dup 040648S	<0.1	38	70	<0.1	1.97
*Dup 040660S	<0.1	12	44	<0.1	4.73
*Dup 040672S	<0.1	4	4	0.12	0.35
*Dup 040684S	<0.1	2	171	<0.1	8.40
*Dup 040696S	<0.1	10	27	<0.1	7.29
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	41.2	33	205	40.6	20.1



**CERTIFICATE OF ANALYSIS**

**Work Order: 079731**

To: **Lake Shore Gold Inc.**  
Attn: **Henry Marsden**

Date : 29/09/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 67 Soil (MMI)  
Date Submitted : 31/08/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

**ISO 9002 REGISTERED**

**ISO 17025 Accredited for Specific Tests. SCC No. 456**

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

Subject to SGS General Terms and Conditions



Work Order: 079731

Date: 29/09/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040851S	0.11	13	82	<0.1	1.60
040852S	<0.1	4	7	<0.1	0.48
040853S	<0.1	6	19	<0.1	4.61
040854S	<0.1	6	10	0.15	0.43
040855S	<0.1	4	6	<0.1	<0.1
040856S	<0.1	11	18	0.10	3.86
040857S	<0.1	2	24	0.11	2.43
040858S	<0.1	50	153	0.17	0.42
040859S	<0.1	4	23	<0.1	7.12
040860S	0.11	8	70	0.11	4.85
040861S	<0.1	<1	25	<0.1	8.17
040862S	<0.1	3	26	<0.1	4.20
040863S	<0.1	14	23	<0.1	2.31
040864S	<0.1	5	15	<0.1	2.33
040865S	0.17	2	75	0.13	10.5
040866S	0.12	18	294	0.14	3.40
040867S	<0.1	21	41	0.10	2.86
040868S	0.16	2	217	0.20	8.78
040869S	<0.1	7	57	<0.1	4.03
040870S	<0.1	14	15	<0.1	0.61
040871S	<0.1	4	37	<0.1	3.78
040872S	<0.1	4	34	<0.1	2.92
040873S	<0.1	1	27	<0.1	8.59
040874S	<0.1	1	28	<0.1	8.64
040875S	<0.1	6	19	<0.1	3.30
040876S	<0.1	12	117	<0.1	1.98
040877S	<0.1	4	22	<0.1	1.66
040878S	0.19	5	31	<0.1	1.41
040879S	<0.1	12	15	<0.1	0.33
040880S	<0.1	3	7	<0.1	<0.1



Work Order: 079731

Date: 29/09/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040881S	<0.1	24	24	<0.1	0.43
040882S	<0.1	9	21	<0.1	1.03
040883S	<0.1	4	11	<0.1	1.10
040515S	<0.1	18	56	<0.1	1.81
040516S	<0.1	26	73	<0.1	1.45
040517S	<0.1	12	60	<0.1	3.06
040518S	<0.1	11	57	<0.1	3.23
040519S	0.13	8	37	<0.1	3.48
040520S	<0.1	111	56	0.12	0.85
040521S	0.19	2	19	<0.1	5.88
040522S	0.17	58	88	<0.1	5.62
040523S	<0.1	16	36	<0.1	1.17
040524S	<0.1	44	78	<0.1	0.63
040525S	<0.1	23	51	<0.1	1.49
040526S	<0.1	41	120	<0.1	1.41
040527S	<0.1	31	63	<0.1	0.28
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	38.8	37	221	42.3	18.2
040528S	<0.1	35	82	0.34	1.13
040529S	<0.1	27	67	0.22	0.71
040530S	<0.1	24	105	0.17	1.63
040531S	<0.1	5	22	0.11	0.48
040532S	<0.1	46	77	0.12	0.81
040533S	<0.1	30	72	0.41	0.78
040534S	0.10	34	44	0.14	0.55
040535S	<0.1	41	69	<0.1	0.36
040536S	<0.1	44	74	<0.1	0.49
040537S	<0.1	15	61	<0.1	0.45
040538S	<0.1	2	7	<0.1	0.84
040539S	<0.1	2	49	<0.1	0.25



Work Order: 079731

Date: 29/09/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040540S	<0.1	8	28	<0.1	0.31
040541S	<0.1	2	21	<0.1	0.50
040542S	<0.1	15	80	<0.1	3.72
040543S	0.12	28	59	<0.1	3.91
040544S	<0.1	96	62	<0.1	1.99
040545S	<0.1	27	45	<0.1	13.9
040546S	0.51	21	131	0.25	2.85
040547S	<0.1	29	456	<0.1	1.97
040548S	<0.1	6	45	<0.1	0.95
*Dup 040851S	0.12	12	84	<0.1	1.95
*Dup 040863S	<0.1	13	26	<0.1	2.26
*Dup 040875S	<0.1	8	22	<0.1	2.71
*Dup 040518S	<0.1	13	61	<0.1	3.44
*Dup 040530S	<0.1	24	108	<0.1	1.62
*Dup 040542S	<0.1	17	90	<0.1	3.39
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	39.2	38	230	42.6	18.6





4w9

# CERTIFICATE OF ANALYSIS

Work Order: 079733

To: Lake Shore Gold Inc.  
Attn: Henry Marsden

Date : 29/09/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93300  
No. of Samples : 111 Soil (MMI)  
Date Submitted : 31/08/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 5

**Distribution of unused material:**

Pulps: STORE  
Rejects: STORE

Certified By :

  
\_\_\_\_\_  
Tim Elliott, Operations Manager

ISO 9002 REGISTERED

ISO 17025 Accredited for Specific Tests. SCC No. 456

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

Subject to SGS General Terms and Conditions



Work Order: 079733

Date: 29/09/04

FINAL

Page 1 of 5

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040549S	0.10	44	228	<0.1	1.01
040550S	0.12	84	199	<0.1	1.80
040551S	0.23	16	98	<0.1	1.34
040552S	0.17	41	83	<0.1	1.53
040553S	<0.1	6	36	<0.1	0.45
040554S	<0.1	4	36	<0.1	0.92
040555S	<0.1	19	188	0.22	1.30
040556S	<0.1	15	132	<0.1	1.48
040557S	<0.1	32	119	<0.1	1.40
040558S	0.14	110	303	<0.1	4.31
040559S	<0.1	28	110	<0.1	3.79
040560S	0.50	27	127	<0.1	3.31
040561S	0.11	3	339	0.11	3.66
040562S	0.14	429	510	<0.1	1.40
040563S	<0.1	3	330	<0.1	3.92
040564S	<0.1	1	109	<0.1	2.15
040565S	<0.1	9	13	<0.1	0.64
040566S	<0.1	12	414	<0.1	8.95
040567S	0.12	5	190	<0.1	11.2
040568S	<0.1	2	20	<0.1	1.35
040569S	<0.1	3	64	<0.1	2.69
040570S	<0.1	21	112	<0.1	0.42
040571S	<0.1	1	290	<0.1	2.43
040572S	<0.1	4	<3	<0.1	0.91
040573S	0.17	5	180	<0.1	5.19
040574S	<0.1	6	10	<0.1	0.95
040575S	<0.1	3	63	<0.1	2.77
040576S	0.17	64	247	<0.1	4.73
040577S	0.21	36	65	<0.1	4.27
040578S	0.14	29	231	<0.1	10.2



Work Order: 079733

Date: 29/09/04

FINAL

Page 2 of 5

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040579S	<0.1	16	79	<0.1	1.59
040580S	<0.1	7	52	<0.1	1.10
040581S	<0.1	2	23	<0.1	1.70
040582S	<0.1	5	71	<0.1	1.11
040583S	<0.1	1	21	<0.1	0.85
040584S	<0.1	45	268	<0.1	11.3
040585S	0.18	60	103	<0.1	10.5
040586S	<0.1	17	119	<0.1	3.91
040587S	0.18	77	973	<0.1	9.38
040588S	0.13	18	144	<0.1	10.2
040589S	<0.1	2	53	<0.1	0.94
040590S	<0.1	4	124	<0.1	3.65
040591S	<0.1	2	4	<0.1	1.39
040592S	<0.1	2	10	<0.1	1.22
040593S	<0.1	1	90	<0.1	3.33
040594S	<0.1	3	160	<0.1	4.97
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	41.7	35	194	37.1	20.2
040595S	<0.1	4	236	<0.1	3.99
040596S	<0.1	7	60	<0.1	1.13
040597S	<0.1	1	235	<0.1	2.74
040598S	0.19	62	199	<0.1	8.73
040599S	<0.1	78	558	<0.1	1.69
040600S	0.25	58	133	<0.1	6.57
041351S	0.14	22	227	<0.1	7.65
041352S	<0.1	6	94	<0.1	1.03
041353S	0.17	56	153	<0.1	7.45
041354S	0.17	38	53	<0.1	7.50
041355S	0.11	57	303	<0.1	9.16
041356S	0.12	14	137	<0.1	10.3



Work Order: 079733

Date: 29/09/04

FINAL

Page 3 of 5

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
041357S	0.24	63	204	<0.1	5.55
041358S	0.15	88	136	<0.1	10.8
041359S	0.20	99	151	<0.1	11.5
041360S	<0.1	15	479	<0.1	6.07
041361S	0.17	19	69	<0.1	0.79
041362S	<0.1	2	28	<0.1	6.24
041363S	<0.1	5	54	<0.1	1.48
041364S	<0.1	53	237	<0.1	2.32
041365S	0.20	3	17	<0.1	0.32
041366S	<0.1	3	128	<0.1	3.39
041367S	0.17	56	129	<0.1	2.52
041368S	0.18	40	93	<0.1	5.46
041369S	0.18	29	190	<0.1	18.2
041370S	0.13	14	177	<0.1	10.1
041371S	0.30	36	248	<0.1	23.4
041372S	0.14	13	283	<0.1	11.6
041373S	0.11	3	241	<0.1	9.59
041374S	<0.1	2	395	<0.1	6.69
041375S	0.15	26	168	<0.1	12.7
041376S	<0.1	5	32	<0.1	1.04
041377S	0.11	4	412	<0.1	7.30
041378S	0.11	8	507	<0.1	5.97
041379S	0.29	8	271	<0.1	10.1
041380S	0.16	5	279	<0.1	7.80
041381S	0.20	10	216	<0.1	7.42
041382S	0.11	6	526	<0.1	7.95
041383S	0.13	3	350	<0.1	7.28
041384S	0.11	2	227	<0.1	2.11
041385S	<0.1	4	4	<0.1	2.27
041386S	0.10	3	32	<0.1	1.91



Work Order: 079733

Date: 29/09/04

FINAL

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Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
041387S	0.25	6	173	<0.1	5.85
041388S	<0.1	3	25	<0.1	3.05
041389S	<0.1	4	6	<0.1	1.76
041390S	0.17	33	116	<0.1	5.72
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	42.3	36	204	40.9	20.3
041391S	<0.1	4	12	<0.1	1.29
041392S	0.11	5	14	<0.1	1.86
041393S	0.16	2	217	<0.1	9.68
041394S	<0.1	4	<3	<0.1	1.59
041395S	<0.1	4	44	<0.1	3.19
041396S	<0.1	1	170	<0.1	7.00
041397S	<0.1	2	22	<0.1	3.05
041398S	0.23	23	257	<0.1	11.7
041399S	0.19	7	231	<0.1	10.2
041400S	0.10	3	189	<0.1	2.31
041401S	0.12	11	212	<0.1	5.06
041402S	<0.1	2	52	<0.1	1.65
041403S	<0.1	7	418	<0.1	8.60
041404S	<0.1	1	119	<0.1	5.14
041405S	<0.1	1	56	<0.1	1.71
041406S	<0.1	3	65	<0.1	3.78
041407S	<0.1	1	212	<0.1	14.0
041408S	0.12	24	186	<0.1	10.8
041409S	<0.1	1	250	<0.1	5.65
*Dup 040549S	<0.1	36	201	<0.1	0.84
*Dup 040561S	0.11	3	290	<0.1	3.41
*Dup 040573S	0.15	3	160	<0.1	4.94
*Dup 040585S	0.14	50	101	<0.1	9.94
*Dup 040597S	<0.1	<1	236	<0.1	2.84



Work Order: 079733

Date: 29/09/04

FINAL

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Element.	Au	Co	Ni	Pd	Ag
Method.	MMI-B5	MMI-B5	MMI-B5	MMI-B5	MMI-B5
Det.Lim.	0.1	1	3	0.1	0.1
Units.	ppb	ppb	ppb	ppb	ppb
*Dup 041359S	0.24	85	174	<0.1	11.8
*Dup 041371S	0.31	33	263	<0.1	28.5
*Dup 041383S	0.10	4	336	<0.1	7.41
*Dup 041395S	<0.1	4	41	<0.1	2.90
*Dup 041407S	0.13	3	207	<0.1	16.1
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	41.3	37	203	39.3	20.5



## CERTIFICATE OF ANALYSIS

Work Order: 079849

To: Lake Shore Gold Inc.  
Attn: Henry Marsden

Date : 13/10/04

Unit G, 1988 Kingsway St.  
SUDBURY  
ON/P4N 7E7

Copy 1 to :

P.O. No. :  
Project No. : L93200  
No. of Samples : 58 Soil (MMI)  
Date Submitted : 07/09/04  
Report Comprises : Cover Sheet plus  
Pages 1 to 3

### Distribution of unused material:

Pulps: STORE  
Rejects: STORE

Certified By :

Tim Elliott, Operations Manager

ISO 9002 REGISTERED

ISO 17025 Accredited for Specific Tests. SCC No. 456

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

Subject to SGS General Terms and Conditions



Work Order: 079849

Date: 13/10/04

FINAL

Page 1 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040940S	<0.1	12	88	<0.1	3.45
040941S	<0.1	8	36	<0.1	3.39
040942S	<0.1	43	61	0.10	2.78
040943S	<0.1	6	30	<0.1	3.52
040944S	0.10	15	53	0.15	6.66
040945S	<0.1	99	39	<0.1	3.67
040946S	<0.1	6	13	<0.1	3.16
040947S	<0.1	8	30	<0.1	0.65
040948S	0.22	49	32	<0.1	1.93
040949S	<0.1	7	19	<0.1	4.79
040950S	0.19	24	70	<0.1	0.73
040917S	<0.1	3	22	<0.1	9.17
040918S	<0.1	5	38	<0.1	10.3
040919S	<0.1	6	44	<0.1	2.73
040920S	<0.1	1	45	<0.1	6.95
040921S	<0.1	15	42	<0.1	3.07
040922S	<0.1	13	46	<0.1	5.46
040923S	<0.1	5	64	<0.1	5.96
040924S	<0.1	13	80	<0.1	4.95
040925S	<0.1	7	71	<0.1	6.22
040926S	<0.1	6	126	<0.1	2.92
040927S	<0.1	4	152	<0.1	7.71
040928S	<0.1	12	13	<0.1	0.10
040929S	<0.1	8	25	<0.1	1.61
040930S	<0.1	15	67	<0.1	3.21
040931S	<0.1	21	86	<0.1	4.57
040932S	<0.1	5	24	<0.1	4.76
040933S	<0.1	11	13	<0.1	<0.1
040934S	0.13	14	35	<0.1	0.62
040935S	<0.1	2	19	<0.1	1.37





Work Order: 079849

Date: 13/10/04

FINAL

Page 2 of 3

Element. Method. Det.Lim. Units.	Au MMI-B5 0.1 ppb	Co MMI-B5 1 ppb	Ni MMI-B5 3 ppb	Pd MMI-B5 0.1 ppb	Ag MMI-B5 0.1 ppb
040936S	<0.1	2	27	<0.1	3.77
040937S	<0.1	14	19	<0.1	0.96
040938S	<0.1	7	10	<0.1	2.42
040939S	<0.1	2	6	<0.1	0.18
040884S	<0.1	4	18	<0.1	0.96
040885S	<0.1	6	13	<0.1	1.20
040886S	<0.1	7	15	<0.1	4.37
040887S	<0.1	8	17	<0.1	1.78
040888S	<0.1	11	25	<0.1	11.6
040889S	<0.1	4	30	0.11	19.0
040890S	<0.1	3	24	<0.1	15.5
040891S	<0.1	2	23	<0.1	16.6
040892S	<0.1	7	34	<0.1	10.9
040893S	<0.1	1	43	<0.1	6.65
040894S	0.13	4	83	0.15	13.3
040895S	<0.1	5	14	0.24	2.07
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	42.3	37	94	17.7	19.1
040896S	<0.1	128	48	0.21	2.27
040897S	<0.1	1	8	<0.1	1.34
040898S	<0.1	2	17	<0.1	3.18
040899S	<0.1	3	14	<0.1	5.02
040900S	<0.1	4	13	<0.1	2.71
040901S	<0.1	2	19	<0.1	1.93
040902S	<0.1	3	12	<0.1	0.23
040903S	0.10	30	138	<0.1	6.21
040904S	<0.1	12	69	<0.1	1.08
040906S	<0.1	20	172	<0.1	0.99
040907S	<0.1	2	6	<0.1	0.34
040908S	<0.1	2	21	<0.1	7.34



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Element.	Au	Co	Ni	Pd	Ag
Method.	MMI-B5	MMI-B5	MMI-B5	MMI-B5	MMI-B5
Det.Lim.	0.1	1	3	0.1	0.1
Units.	ppb	ppb	ppb	ppb	ppb
*Dup 040940S	<0.1	13	98	<0.1	3.83
*Dup 040918S	<0.1	6	42	<0.1	11.8
*Dup 040930S	<0.1	18	73	<0.1	3.40
*Dup 040886S	<0.1	7	16	<0.1	5.03
*Dup 040898S	<0.1	1	17	<0.1	2.91
*Blk BLANK	<0.1	<1	<3	<0.1	<0.1
*Std MMISRM14	42.4	38	108	20.7	19.0

## **Appendix 5**

### **Mobile Metal Ion (MMI) Technology**

## INTRODUCTION

'Mobile Metal Ions' is a term used to describe ions, which have moved in the weathering zone and that are only weakly or loosely attached to surface soil particles. It is a widely held belief that these Mobile Metal Ions are transported from deeply buried ore bodies to the surface. Studies from Australia and overseas have shown that such Mobile Metal Ions are useful in locating buried mineralization. Mobile Metal Ions are generally at very low concentrations in the soil. To successfully interpret these weak signals, a series of very carefully quality-controlled steps have been developed that, when put together, constitute an integrated package 'The MMI Process'.

The MMI Process uses two leaching solutions which have been specially developed to selectively 'release' the adsorbed ions from the soil material. The aim of the selective leaching is to remove metals, which are loosely bound on the surface of particles within existing soil profiles, without attacking or influencing the natural mineralization of the soil or specific substrates. Using sensitive ICPMS instrumentation, the MMI Process is able to detect Mobile Metal Ions in digest solutions at parts per billion level.

Two digests are required for the current suite of 9 elements:

MMI - DIGEST A. For Cu, Pb, Zn, Cd	MMI - DIGEST B. For Au, Ag, Ni, Pd, Co
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## CASE STUDIES

MMI Geochemistry has been used world wide in over 300 case studies. A selection of these case studies has been made available to publication by the participating companies. The case studies have been presented on our MMI Web Site : [www.mmigeochem.com](http://www.mmigeochem.com) and can be printed from the web site. The case studies are also available from MMI Technology in a bound report or each case study can be requested individually.

## **Appendix 6**

### **Structural Measurements**

Appendix 6 Structural Measurements

Station	Zone	Easting	Northing	Structure	Strike	Label	Intensity
TOC-74	17U	458710	5356930	Bedding	245	75	
TOC-58	17U	459200	5357050	Bedding	290	90	
TOC-61	17U	459730	5357110	Bedding	130	80	
TOC62	17U	459600	5357235	Bedding	350	80	
	17U	459620	5357530	Bedding	27	74	
TOC-64	17U	459068	5357702	Bedding	350	70	
	17U	459390	5357930	Bedding	354	80	
	17U	459560	5357906	Bedding	285	90	
TOC-10	17U	459196	5358100	Bedding	120	80	
	17U	458992	5358585	Bedding	59	64	
TOC-89	17U	459082	5358476	Bedding	80	72	
	17U	459190	5358512	Bedding	245	80	
	17U	457856	5359004	Drill Hole	125	45	
	17U	458000	5357601	Drill Hole	108	47	
	17U	457900	5357582	Drill Hole	122	48	
TOC-81	17U	457481	5357974	Dyke	352	90	
TOC-81	17U	457475	5357974	Pillow Orientation	45	315	
	17U	458162	5358334	Pillow Orientation	220	310	
	17U	458505	5358740	Pillow Orientation	248	338	
	17U	458406	5358676	Pillow Orientation	223	313	
TOC-42	17U	458178	5358428	Pillow Orientation	226	316	
	17U	458162	5358332	Pillow Orientation	220	310	
TOC-41	17U	458348	5358230	Pillow Orientation	222	312	
TOC-43	17U	458780	5358560	Pillow Orientation	240	330	
	17U	456800	5356670	Pillow Orientation	220	310	
	17U	456925	5356670	Pillow Orientation	201	291	
	17U	457000	5356800	Pillow Orientation	220	310	
	17U	457450	5358140	Pillow Orientation	235	85	
	17U	456180	5359085	Pillow Orientation	236	326	
	17U	456635	5359230	Pillow Orientation			
TOC-105	17U	456730	5359290	Pillow Orientation	252	90	
	17U	458740	5358056	S1 Foliation	222	60	
TOC-82	17U	457145	5356926	S2 Foliation	30	70	
TOC-46	17U	457710	5358025	S2 Foliation	220	65	strong
	17U	457800	5359000	S2 Foliation	220		
	17U	457810	5358045	S2 Foliation	220	72	
	17U	458060	5358035	S2 Foliation	220		weak
TOC-47	17U	458041.3	5357771	S2 Foliation	220	50	strong
	17U	458464	5358685	S2 Foliation	239	40	
	17U	458175	5358520	S2 Foliation	220		
TOC41	17U	458324	5358238	S2 Foliation	223	60	
TOC-43	17U	458770	5358575	S2 Foliation	96	69	
TOC-35	17U	458570	5357700	S2 Foliation	260	54	
TOC61	17U	459760	5357120	S2 Foliation	100	80	
TOC-30	17U	458660	5357750	S2 Foliation	269	72	shear
TOC-22	17U	458690	5357810	S2 Foliation	265	72	shear
TOC-19	17U	458849	5357845	S2 Foliation	266	80	
	17U	459535	5357800	S2 Foliation	274	90	
	17U	459345	5358006	S2 Foliation	217	90	
	17U	459206	5358064	S2 Foliation	218	90	
	17U	458894	5358006	S2 Foliation	222	60	

Appendix 6 Structural Measurements

Station	Zone	Easting	Northing	Structure	Strike	Label	Intensity
TOC-16	17U	458800	5358020	S2 Foliation	247		68
	17U	458746	5358096	S2 Foliation	220		68
	17U	458754	5358046	S2 Foliation	240		80
	17U	458706	5358106	S2 Foliation	201		65
	17U	458944	5358260	S2 Foliation	217		65
TOC-07	17U	458953	5358380	S2 Foliation	220		80
	17U	459065	5358361	S2 Foliation	244		40
TOC-94	17U	458945	5358578	S2 Foliation	242		72
TOC-86	17U	459040	5358600	S2 Foliation	258		80
TOC-88	17U	459016	5358542	S2 Foliation	253		
TOC-92	17U	459034	5358462	S2 Foliation	241		50
	17U	459094	5358494	S2 Foliation	230		80
	17U	459106	5358470	S2 Foliation	230		72
	17U	459226	5358516	S2 Foliation	260		80
TOC-100	17U	459236	5358576	S2 Foliation	251		48
TOC-91	17U	459200	5358616	S2 Foliation	242		70
	17U	459210	5358595	S2 Foliation	252		90
	17U	459240	5358605	S2 Foliation	250		76
TOC-90	17U	459325	5358622	S2 Foliation	263		45
TOC-101	17U	459235	5358676	S2 Foliation	242		78
	17U	456940	5356920	S2 Foliation	222		60
TOC-85	17U	457300	5356650	S2 Foliation	220		62
	17U	457480	5358200	S2 Foliation	42		70
	17U	457120	5358400	S2 Foliation	244		65 STRONG
	17U	456980	5358380	S2 Foliation	248		70
	17U	456600	5359300	S2 Foliation	222		65
TOC-103	17U	456260	5359915	S2 Foliation	204		90
TOC-46	17U	457700	5358065	Vein	244		65
TOC72	17U	458590	5357550	Vein	200		54
	17U	458860	5357275	Vein	234		25
	17U	458862	5357494	Vein	237		90
TOC-55	17U	458744	5357514	Vein	290		90
TOC-17	17U	458985	5357880	Vein	250		90
TOC-16	17U	458800	5358020	Vein	245		96
	17U	458710	5358066	Vein	200		20
	17U	458720	5358066	Vein	52		40
	17U	458730	5358066	Vein	300		70

## **Appendix 7**

### **Rare Earth Element (REE) Analysis**



Appendix 7 REE Analysis

SAMPLE	Received Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O
	kg	%	%	%	%	%	%	%
168145	2.15	39.1	7.48	17.57	20.76	4.43	1.39	0.49
168146	3.24	38	6.89	16.73	25.39	2.46	1.36	0.31
168147	2.86	39.92	8.2	16.66	20.38	4.29	0.57	2.15
Average Concentration (ppm)		39.006667	7.523333	16.98667	22.17667	3.726667	1.106667	0.983333
Average Concentration (%)		38.96	7.545	16.695	22.885	3.375	0.965	1.23
Estimated Oxide Value (\$/kg)								
Low Estimate		N/A	N/A	N/A	N/A	N/A	N/A	N/A
High Estimate		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Median Value		N/A	N/A	N/A	N/A	N/A	N/A	N/A
REE value / tonne								

Appendix 7 REE Analysis

SAMPLE	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total	Ce	Dy
	%	%	%	%	%	%	%	%	ppm	ppm
168145	<0.01	2.95	0.39	0.83	0.14	0.11	2.5	98.15	1185	60.7
168146	<0.01	3.38	0.42	1.08	0.13	0.03	1.96	98.14	1370	107.5
168147	0.01	2.04	0.41	0.69	0.14	0.07	2.65	98.17	803	38.7
Average Concentration (ppm)	0.01	2.79	0.406667	0.866667	0.136667	0.07	2.37	98.15333	1119.333	68.96667
Average Concentration (%)	0.01	2.71	0.415	0.885	0.135	0.05	2.305	98.155	0.111933	0.006897
Estimated Oxide Value (\$/kg)										
Low Estimate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	54
High Estimate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33	120
Median Value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.5	87
REE value / tonne									2.5185	0.60001

Appendix 7 REE Analysis

SAMPLE	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>168145</b>	23.8	40.3	130	8.5	432	2.1	716	135.5	176	14.8
<b>168146</b>	40.2	60.5	194	15.4	431	3.5	952	166	257	21.7
<b>168147</b>	16.9	24.7	81	5.9	323	1.5	448	88	105.5	9.5
Average Concentration (ppm)	26.96667	41.83333	135	9.933333	395.3333	2.366667	705.3333	129.8333	179.5	15.33333
Average Concentration (%)	0.002697	0.004183	0.0135	0.000993	0.039533	0.000237	0.070533	0.012983	0.01795	0.001533
Estimated Oxide Value (\$/kg)										
Low Estimate	80	298	22	120	13	640	18	14	13	160
High Estimate	320	425	25	191	14	2000	120	18	32	185
Median Value	275	361.5	23.5	155.5	13.5	1320	69	16	22.5	172.5
REE value / tonne	0.741583	1.512275	0.31725	0.154463	0.5337	0.3124	4.8668	0.207733	0.403875	0.2645

Appendix 7 REE Analysis

SAMPLE	Th	Tm	U	Y	Yb	sum	sum
	ppm	ppm	ppm	ppm	ppm	ppm	%
<b>168145</b>	43	2.3	7.9	297	16	3290.9	0.32909
<b>168146</b>	43	4.6	6.8	798	29	4500.2	0.45002
<b>168147</b>	27	1.6	5.3	187	11.4	2178	0.2178
Average Concentration (ppm)	37.66667	2.833333	6.666667	427.3333	18.8		
Average Concentration (%)	0.003767	0.000283	0.000667	0.042733	0.00188		
Estimated Oxide Value (\$/kg)							
Low Estimate	N/A	1000	N/A	22	68		
High Estimate	N/A	1000	N/A	25	120		
Median Value	N/A	1000	N/A	23.5	94		
						<b>AIC VALUE \$/tonne</b>	
REE value / tonne	N/A	0.283333	N/A	1.004233	0.17672		<b>13.89738</b>