Report on geological mapping of the Trout Bay, Middle Bay and Pipestone Properties of Goldcorp Inc. during the summer 2001 season.

Mulcahy & Ball Townships
Red Lake, Ontario

NTS 52M/1, 52L/16

June-October, 2001

Goldcorp Inc.

December, 2001

Léa-Marie Bowes-Lyon, B.Sc. Hons

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Figures, maps and appendices

1. Summary

The objective of the summer 2001 program was to complete reconnaissance mapping and sampling of Goldcorp Inc.'s Trout Bay property grid and to begin reconnaissance mapping and sampling of the Middle Bay and Pipestone Bay properties.

Mapping on the Trout Bay grid network was done at a 1:2500 scale while mapping on the Middle Bay and Pipestone Bay properties comprised shoreline mapping with inland traverses. The samples collected were sent for whole rock analysis (XRF) or for 22 element (Au-ICP) assay to create a representative database of the rocks on the properties and to determine their mineral potential.

Platinum group element (PGE) mineralization is found in the central portion of the Trout Bay property. The PGEs are found in contact zones between iron formation and mafic volcanic rocks and gabbros. The extension of this horizon was located at only one outcrop in the south part of the property. An extension was also mapped in the northwestern part of the property (southwest of TL-089+00N). This banded iron formation (BIF) did not return any significant platinum (Pt) or palladium (Pd) results. There were two samples, taken from old trenches in the northwest part of the property (on L-055+00E), that returned up to 3.2 g/t gold and up to 15100 ppm zinc from disseminated pyrite (py), chalcopyrite (cp) and sphalerite (sp) mineralization. The host to this mineralization is felsic volcanic tuff. Lack of exposure in the northwestern part of the property make geophysical data a very useful aid for exploration.

The Middle Bay property, located north adjacent of Trout Bay, is transected by several shear zones and has been extensively hydrothermally altered. Four samples with over 1 g/t (up to 9.1 g/t) were collected within these. The shear zones are found in mafic to ultramafic volcanic hosts that contain multiple iron carbonate, quartz and quartz ladder veins. The mineralization consists of disseminated sulphides (py, cp) as well as some sulphide veinlets.

The Pipestone Bay property is a probable ultramafic intrusion that was sampled for its possible PGE potential. A mag low and gravity anomaly is located at the center of the bay. A large number of samples were collected for whole rock analysis. The results will be used to help determine if the intrusion is layered, fractionated, and depleted or enriched in certain elements. The assay samples collected did not return significant Pt or Pd values.

It is recommended that more detailed work be done on the Middle Bay property. This should include additional sampling, detailed mapping on cut grid lines. A detailed look at the

geochemistry of the ultramafic rocks surrounding Pipestone Bay is suggested, as well as drilling to determine the mineral potential at depth and the geology under the bay. Additional mapping and sampling is suggested for the northwestern part of the Trout Bay property to better define the geology surrounding the trenches on L-055+00E and the BIF southwest of TL-089+00N.

2. Introduction

With the help of an assistant, the author spent the 2001 field season performing reconnaissance mapping on Goldcorp Inc.'s properties in the west-end of the Red Lake greenstone belt. The first part of the summer focused on completing reconnaissance mapping of the Trout Bay property that was not finished during the previous year. This work was aimed primarily at finding and mapping the extension of the PGE target located in the central portion of the Trout Bay property and worked on during the previous year. The latter part of the summer and fall focused on beginning reconnaissance work on the Middle Bay and Pipestone Bay properties.

Mapping on the Trout Bay property consisted of detailed grid line mapping at a 1:2500 scale as well as collecting samples for both whole rock analysis (XRF) and assay. Mapping on the Middle Bay and Pipestone Bay properties consisted mainly of shoreline mapping and inland traverses with the purpose of locating outcrops and sample collecting for both XRF analysis and assay.

This report summarizes the work performed during the 2001 field season by describing the lithologies mapped and the mineralization encountered. Recommendations for future work are also included.

3. Property Description

3.1 Access

The Trout Bay, Middle Bay and Pipestone Bay properties are located to the west of the town of Red Lake (Fig. 1). The southern and central portions of the Trout Bay property, located approximately 26km west of the town of Red Lake, are accessible via Highway 618 to Madsen and then along the gravel and packed dirt Suffel Lake Road (also called Flat Lake Road). The grid network can be accessed directly from Suffel Lake Road or other small dirt roads. However, some areas in this part of the property can only be accessed by crossing creeks or with the help of an ATV.

The northwestern portion of the Trout Bay property is accessible by boat from the town of Red Lake or from Black Bear Lodge located on Suffel Lake Road. This fishing camp provides the closest access to the grid network and is only a 20 minute boat ride from the grid. The furthest lines from Trout Bay are accessible from MacIntosh Lake Road. Heading north along Nungessor Road, turn left onto Pine Ridge Road after about 17km. Drive about 52km along Pine Ridge Road and then turn left onto MacIntosh Lake Road. Continue for about 11 km until the intersection with the baseline. A few parts of the Trout Bay property have recently been clear cut providing good outcrop exposure and relatively easy access.

415000 mE

430000 mE

445000 mE

460000 mE

Red Lake

GRAVES

McDONOUGH

BATEMAN

5665000 mN

BALL

Pipestone Bay Property

TODD

FAIRLIE

DOME

BALMER

Northwest Trout Bay

Middle Bay Property

Central Trout Bay

Red Lake

MULCAHY

KILLALA

BAIRD

HEYSON

BYSHE

South Trout Bay

5650000 mN

Goldcorp Inc.

Regional Geology of the Red Lake Greenstone Belt and location of the Trout Bay, Middle Bay and Pipestone Bay properties

Date:5/13/2001

Author: L.-M.B.-L.

Office: Cochenour

Drawing: Figure 1

Scale: 1:145000

Projection: UTM Zone 15 (NAD 27 for Canada)

0 1.25 2.5 5

kilometres

The Middle Bay and Pipestone Bay properties can only be accessed via boat in the same way as the northwestern portion of the Trout Bay property is accessed. There is no direct road access to these two properties.

3.2 Topography and Vegetation

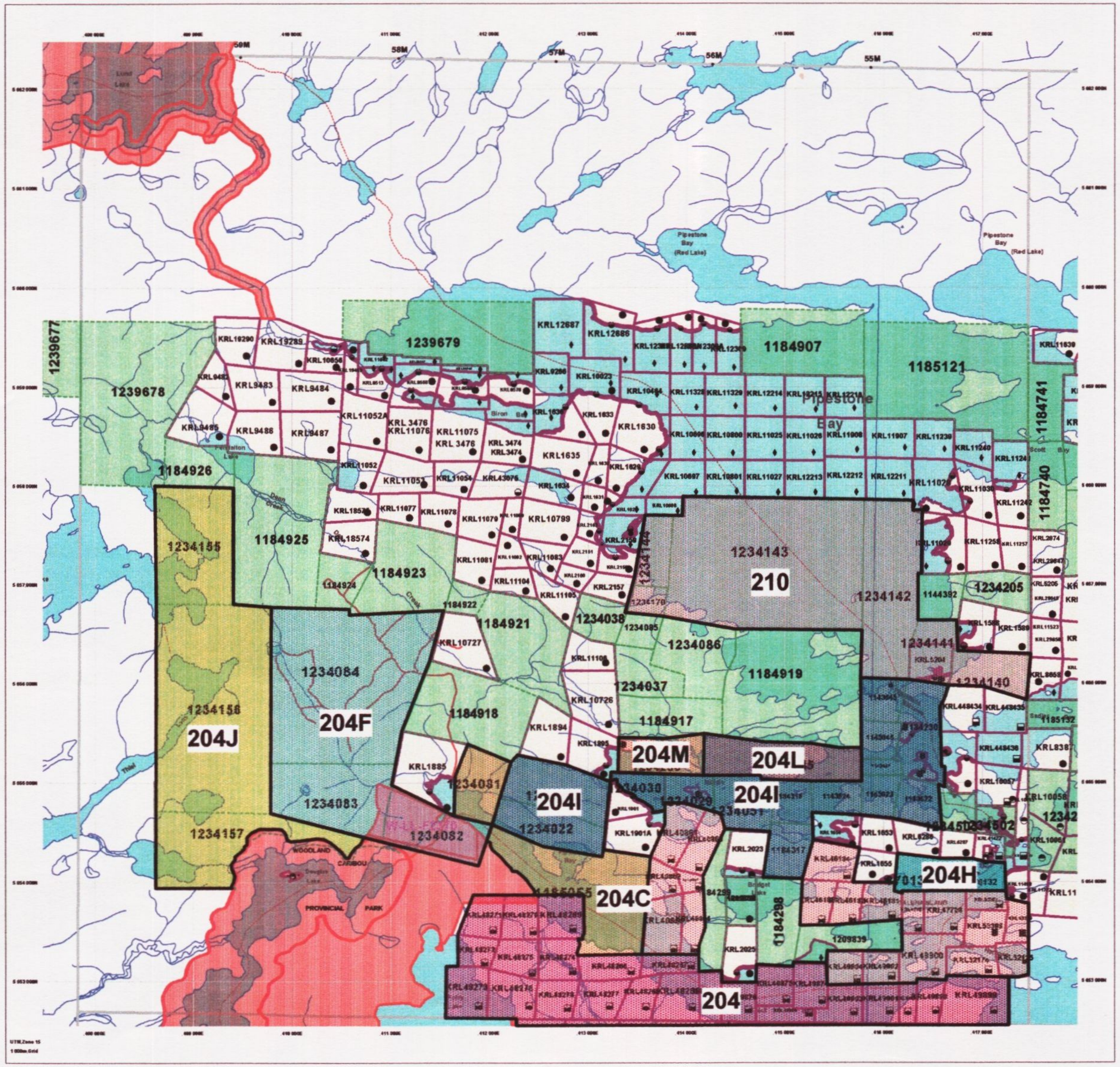
The topography of the southern portion of the Trout Bay property is relatively flat terrain comprising rolling hills. The vegetation consists mainly of balsam, spruce, jackpine and muskeg. Most of the balsam is dead due to the passage of spruce budworm, and in areas of high balsam concentration the trees have been blown down making it very difficult to walk through the forest.

The northwestern portion of the Trout Bay property has high ridges with steep slopes, some rolling hills and many flat areas. The topography ranges from 350m above sea level at the lake edge to 411m above sea level at the top of the highest ridges. There is one major fault in the area that has created near vertical cliffs up to 10m high. There are other areas with steep slopes. These topographical features could make it difficult for drills to be brought into the area during future drilling programs. The vegetation to the northeast of the baseline consists mainly of spruce and moss covered forest floor whereas to the southwest of the baseline the vegetation consists mostly of mixed vegetation including spruce, jackpine, balsam, birch and some meter-high bushes as well as muskegs and swamps.

The topography of the Middle Bay and Pipestone Bay properties is low because of their proximity to the lake. There is usually no more than a 20m elevation gain. Some of the reefs in Middle Bay that have historically shown high Au values can only be sampled at low water levels. Water levels also affect a large portion of the Pipestone Bay property because much of it is located on the shoreline.

3.3 Land Status

This mapping project covers three properties: the Trout Bay, Middle Bay and Pipestone Bay properties. The Trout Bay property is made up of nine claim groups (204, 204A, 204J, 204F, 204A, 204B, 204E, 204G, 204D, and 204K) covering an area of 5336.357 hectares (Fig. 2, 3, 4). The Pipestone Bay property is composed of 6 claims (claim group 210) covering an area of 464 hectares (Fig. 2). The Middle Bay property is made up of claim groups 204M, 204L, 204I, 204H, and 204C as well as claims KRL40860, KRL40861, KRL40862, KRL40863, KRL40864, KRL40865, KRL46181, KRL46182, KRL46183, KRL46184, KRL47707, KRL47708, KRL49900, KRL49902, KRL49904, KRL52174, KRL52175, KRL53397, KRL53398, KRL53399, KRL1234081 (Fig. 2). It covers an area of 829.592 hectares. To see a list of claim groups and claims for the properties see Appendix 1.



MINISTRY OF NORTHERN DEVELOPMENT AND MINES
PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue Dec 3 2001 10:43h Eastern

TOWNSHIP / AREA: BALL

PLAN: G-3740

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Red Lake
Land Titles/Registry Division	KENORA
Ministry of Natural Resources District	RED LAKE

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit and Pile
- Contour
- Contour - Approx., Auxiliary, Depression
- Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Monument - Cadastral, Historical, Horiz., Control

LAND TENURE

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Uses not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

- Land Use Permit
- Order in Council
- Water Power Lease Agreement

1234567 Mining Claim

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Act Withdrawal Types
- Wsm Surface and Mining Rights Withdrawn
- Ws Surface Rights Only, Withdrawn
- Wm Mining Rights Only, Withdrawn

Order in Council Withdrawal Types
- W*sm Surface and Mining Rights Withdrawn
- W*s Surface Rights Only, Withdrawn
- W*m Mining Rights Only, Withdrawn

Nt IMPORTANT NOTICES

0 m 1000.0 m

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
[illegible]	Wsm	Jan 1 2001	LUND LAKE RESERVE 12 FEB 01 SRO
[illegible]	Wsm	Jan 1 2001	PENDING APP FOR EXPLORATORY LICENSE OIL NATURAL GAS (REG.765) MNR
W-LL-P2379	Wsm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # W-LL-2001/01 ONT, Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
W-LL-P2379	Wsm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # W-LL-2001/01 ONT, Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
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159	Wsm	Jan 1 2001	WOODLAND CARIBOU PROVINCIAL PARK

IMPORTANT NOTICES

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

Goldcorp Inc.

Ball Township Claims

Date: 5/12/2001	
Author: L.-M.B.-L.	
Office: Cochenour	
Drawing: Figure 2	
Scale: 1:48000	Projection: UTM Zone 15 (NAD83)

UTM Zone 15
1000m Grid

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Lands Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

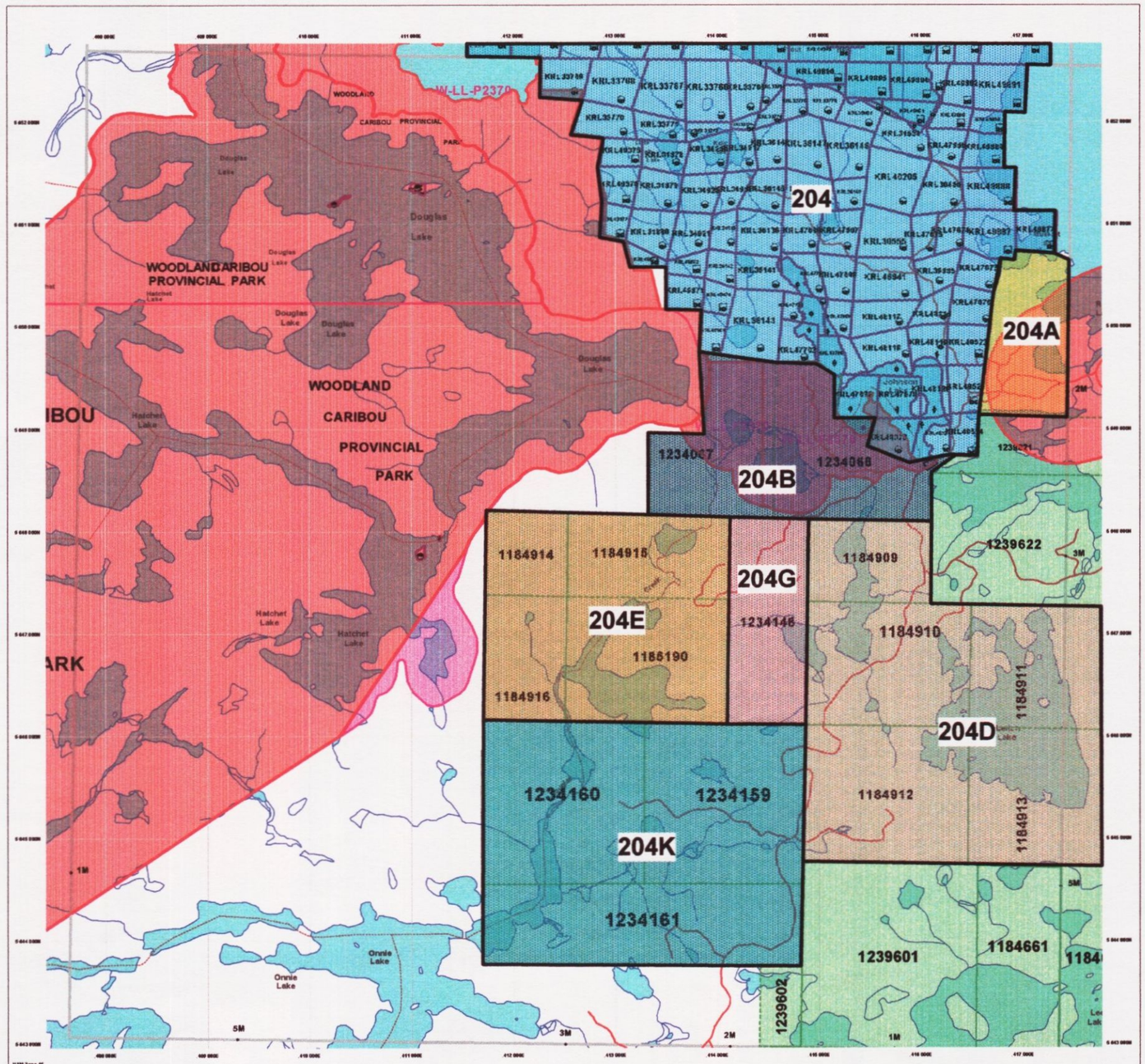
General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre
933 Ramsey Lake Road
Sudbury, ON P3E 6B5
Home Page: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Toll Free
Tel: 1 (888) 415-9845
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.



MINING LAND TENURE MAP

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
PROVINCIAL MINING RECORDER'S OFFICE

Date / Time of Issue	Dec 3 2001	10:51h Eastern
TOWNSHIP / AREA		PLAN
MULCAHY		G-3756

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Red Lake
Land Titles/Registry Division	KENORA
Ministry of Natural Resources District	RED LAKE

TOPOGRAPHIC

LAND TENURE

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES

0 m 1000.0 m

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
[illegible]	Wsm	Jan 1 2001	M.N.R. RESERVE FILE NO. [illegible] DATE 9 MARCH, 1970
204	Wsm	Jan 1 2001	PENDING APP. FOR EXPLORITORY LICENSE OIL NATURAL GAS [illegible]
W-LL-P2370	Wsm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # W-LL-2001-01 ONT., Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
W-LL-P2370	Wsm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # W-LL-2001-01 ONT., Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
W-LL-F2370	Wsm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # W-LL-2001-01 ONT., Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
W-LL-F2370	Wsm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # W-LL-2001-01 ONT., Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.

IMPORTANT NOTICES

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

Goldcorp Inc.

Mulcahy Township Claims

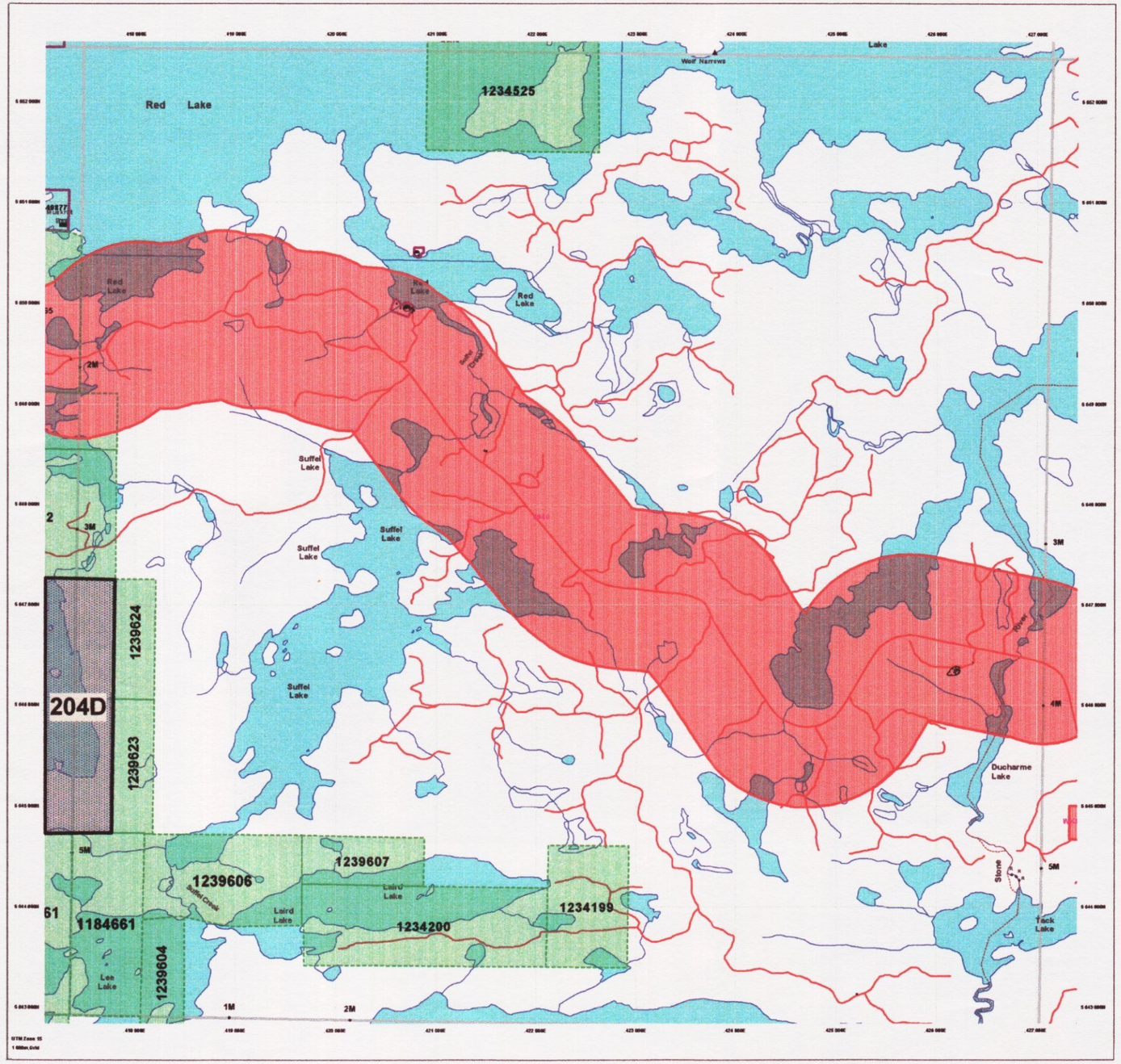
Date: 5/12/2001
Author: L.-M.B.-L.
Office: Cochenour
Drawing: Figure 3
Scale: 1:48000
Projection: UTM Zone 15 (NAD 83)

General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre
933 Ramsey Lake Road
Sudbury, ON P3E 6B5
Home Page: [illegible]

Toll Free
Tel: 1 (888) 415-9845
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office



MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue Dec 3 2001 10:58h Eastern

TOWNSHIP / AREA	PLAN
KILLALA	G-3753

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Red Lake
Land Titles/Registry Division	KENORA
Ministry of Natural Resources District	RED LAKE

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- CNR, Pit and Pile
- Contour
- Contour - Approx. Auxiliary Depression
- Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Monument - Cadastral, Historical, Hydro, Control

LAND TENURE

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Uses not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

- Land Use Permit
- Order In Council
- Water Power Lease Agreement
- 1234567 Mining Claim

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Act Withdrawal Types
- Wsm Surface and Mining Rights Withdrawn
- Ws Surface Rights Only Withdrawn
- Wm Mining Rights Only Withdrawn

Order In Council Withdrawal Types
- W*sm Surface and Mining Rights Withdrawn
- W*s Surface Rights Only Withdrawn
- W*m Mining Rights Only Withdrawn

No IMPORTANT NOTICES

0 m 1000.0 m

LAND TENURE WITHDRAWAL DESCRIPTIONS

Mcode	Type	Date	Description
6949	Wsm	Jan 1 2001	M.N.R. RESERVE FILE NO. 980535 DATE 9 MARCH, 1976
WKRL 83/94	Ws	Jul 22 1994	SEC.35WB WKRL 83/94 JUL.22/94 S.R.O. 195/93 BP0305 329

IMPORTANT NOTICES

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

Goldcorp Inc.	
Date:5/12/2001	Killala Township Claims
Author: L.-M.B.-L.	
Office: Cochenour	
Drawing: Figure 4	
Scale: 1:48000	Projection: UTM Zone 15 (NAD 83)

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Sudbury, ON P3E 6B9
Home Page: www.gov.on.ca/MNDM/MINES/LANDS/landsmap.htm

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: , Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

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4. Previous Work

The properties mapped during the 2001 field season have been variably explored, with many claims having no record of previous work while others have been repeatedly explored. Considering the large area covered for this report and the large number of claims only a brief summary of previous work will be presented here.

4.1 Regional scale work

The Red Lake greenstone belt has been mapped several times by governmental agencies. The first work to address the entire belt's geology was by Horwood who prepared a map and report for the Ontario Department of Mines (ODM) (see Horwood, 1940). R.A. Riley and his assistants produced township scale geological maps of Ball and Mulcahy townships in the late sixties and early seventies for the ODM (see Riley, 1975, 1976). The Ontario Geological Survey (OGS) completed an airborne magnetometer and electromagnetic survey in 1978. The Geological Survey of Canada (GSC) produced a detailed study on the geochemistry and structure of the belt during the summers of 1999 and 2000 as part of NATMAP (see Sanborn-Barrie et al., 2001). The OGS completed a mineralization and wall rock alteration report for the belt during the summer of 2000 (see Parker, 2000a, 2000b).

4.2 Previous work in the southern portion of the Trout Bay property (Mulcahy Township)

Newcomex Canadian Exploration mapped, drilled and performed magnetometer, self-potential and vertical loop electromagnetic surveys to the south and west of Johnson Lake in 1962. Cochenour Willans Gold Mines Ltd. drilled in the same area in 1965. Texasgulf Canada Ltd. performed magnetic, horizontal loop electromagnetic (HLEM) and very low frequency (VLF) surveys over Leitch Lake during the winter of 1979.

4.3 Previous work in the northwestern portion of the Trout Bay property (Ball Township)

In 1963, Cochenour Willans Gold Mines put in a grid network and in 1965 drilled east of Thiel Lake. In 1979, Dome Exploration (Canada) Ltd. performed magnetometer and electromagnetic (EM) surveys on the same group of claims whereas Minorex Ltd. mapped and performed magnetic and EM surveys on claims closer to Trout Bay. In 1981, Dome Exploration (Canada) Ltd. drilled on part of Goldcorp Inc.'s property west of the Miles Red Lake Mine. In 1984, Minorex drilled the same claims they worked on in 1979. Noramco Explorations Inc. and Inlet Resources Ltd. drilled and conducted a VLF survey southwest of Dean Creek in 1987. In 1988, these two companies conducted an IP survey in the same area. In 1989, Noramco Explorations Inc. and Golden Day Mining Explorations Inc. sampled humus for geochemistry,

mapped, and drilled the same area. In the fall of 2000, Sial Géosciences Inc. flew combined magnetic, EM, VLF and radiometric helicopter surveys for Goldcorp Inc. over the Trout Bay property.

4.4 Previous work in the Middle Bay area (Ball Township)

In 1934, after a drilling program the year before, the May-Spiers Gold Mining Syndicate was formed, and by 1937 a 3 compartment vertical shaft was sunk on an island in Middle Bay to a depth of 375ft with 2 drifts at the 225 and 350ft level. After mining began however, the grade was lower than expected (0.09 oz/ton compared to 0.32 oz/ton found in surface drilling) and mining was stopped the same year. The Dumont Nickel Corporation then mapped, drilled and conducted proton magnetometer and VLF surveys on the May-Spiers property during 1980-82. In 1996, Hemlo Gold Mines Inc. performed IP and total field magnetic surveys on the property.

In 1963, Cochenour Willans Mines Ltd. mapped, trenched, drilled and, performed self-potential and magnetometer surveys on the Pipestone Narrows property located near the entrance of Middle Bay. From 1965-69, Cochenour Explorations Ltd. also drilled the property. In 1988, Shane Resources mapped, drilled and performed humus geochemistry on the property. In 1993, A. Maciejewski stripped, blasted, and performed magnetometer and HLEM surveys. And, in 1995-96, Battle Mountain Canada Ltd. mapped the property at a 1:5000 scale, sampled and performed magnetometer and IP surveys.

4.5 Previous work at the entrance of Trout Bay (Ball Township)

In 1944, I. Kornell trenched and drilled on Galena Island. In 1949, Lake Bed Lead Syndicate also trenched and drilled on the island. Cochenour Explorations Ltd. drilled West Narrows in 1965-66. In 1980, Dome Exploration (Canada) Ltd. drilled NE of Galena Island.

4.6 Previous work in the Pipestone Bay area (Ball Township)

In 1966, Cochenour Explorations Ltd. drilled some of Goldcorp Inc.'s claims in Pipestone Bay. Gold Fields Resources Canada Ltd. performed a VLF survey on parts of the Pipestone Bay property in 1981. In October 2000, Sial Géosciences Inc. flew combined magnetic, EM, VLF and radiometric helicopter surveys for Goldcorp Inc. over most of Pipestone Bay.

5. Geological Setting

The Red Lake greenstone belt is part of the Uchi Subprovince of the Archean Superior Province. It is composed of 7 volcano-sedimentary assemblages that range in age from 2.99 to 2.70 Ga representing multiple episodes of magmatism, crustal growth, and erosion (see Sanborn-Barrie et al., 2001). The three relevant assemblages for this property are the Balmer, the Ball and

the Trout bay assemblages. The oldest, the Balmer assemblage (2.99-2.96 Ga), and the second oldest, the Ball assemblage (2.94-2.92 Ga) form part of the North Caribou Terrane. The Balmer assemblage dominates the belt and is characterized mainly by submarine tholeiitic basalts intercalated with komatiites, komatiitic basalts and, minor felsic volcanics, iron-formation and fine-grained clastic rocks. The Ball assemblage, which covers the Pipestone Bay and Middle Bay properties, is comprised mainly of calc-alkalic basalts, andesites, dacites and rhyolites. Intercalated with these rocks are minor komatiite and komatiitic basalt flows, conglomerates, quartzites, and locally stromatolitic marbles. The Trout Bay assemblage (2.85 Ga), which covers most the Trout Bay property, is comprised of basalts overlain by clastic rocks, intermediate tuffs, and chert-magnetite iron-formation, all intruded by gabbro and ultramafic rocks. Several intrusive bodies, namely the Killala-Baird batholith (2.704 Ma), the Douglas Lake pluton (2.734 Ga) and the Hammell Lake pluton (2.717 Ga), surround the three properties.

A structural interpretation of the Red Lake greenstone belt is described by Sanborn-Barrie et al. (2001). The belt has undergone at least three deformations: a nonpenetrative deformational event (D_0) occurred pre-2.748 Ga, and at least two ductile events occurred after 2.742 Ga volcanism (D_1, D_2). The primary textures of the rocks have, in general, been preserved. There are however, heterogeneous strain corridors in the belt and the one that extends from Cochenour to Balmertown, for example, is host to the gold deposits of the Campbell and Red Lake Mines. The main fabrics in the west end of the belt are oriented in a general northwest direction and are steeply dipping.

6. Property Geology and Mineralization

6.1 Geology of the southern portion of the Trout Bay property (Mulcahy Township)

The main focus of mapping on the southern and northwestern parts of the Trout Bay property was to find an extension to the PGE target located in the central Trout Bay area. The target, an amphibole facies iron formation (AFIF), has elevated Pd, Pt, copper and nickel with the highest values found where the AFIF is in contact with mafic to ultramafic volcanics. The AFIF is not a typical BIF. This name is used to characterize its mineralogy and not the degree of metamorphism it was subjected to. It is an amphibole-rich iron formation with 2-70% magnetite and rare chert beds. Typically, it is composed of weakly to moderately bedded amphibole (+/- quartz (intergrowths)) and magnetite (+/- tremolite +/- serpentine) with the amphibole making up to 90% of the unit locally. The matrix of the AFIF can be tremolite-, chlorite- or quartz-rich. For a more detailed description refer to Hughes' report (2001). Only one BIF outcrop was mapped in the southern part of the Trout Bay area but it did not appear to be an AFIF.

In general, the rock types mapped in the south portion of the Trout Bay property agree with the ODM Mulcahy Township geology map. The rocks have undergone varying degrees of

gneiss and migmatite formation due to the intrusion of the Killala-Baird batholith and the Douglas Lake pluton. Associated with this is potassic alteration. The rocks are non-magnetic except in the presence of pyrrhotite (po). Carbonate alteration is only found locally. See Detail Map 1.

6.1.1 Felsic to intermediate intrusives

The majority of outcrops in southern Trout Bay are felsic to intermediate intrusives, dominated by diorite and quartz diorite. They are usually medium-grained and light pink to white on the weathered surface. Hornblende, often altered to biotite, is the mafic phase with variable amounts of quartz present. They are often heterogeneous with many having xenoliths of recrystallized mafic volcanics and ultramafic intrusives. The xenoliths vary in size from a few centimeters to several meters in diameter. The major alteration seen in these rocks is potassium feldspar-epidote veining.

6.1.2 Mafic volcanics, gabbros and amphibolites

The mafic volcanics are medium green, fine-grained, massive to weakly foliated and, composed mainly of amphibole (actinolite or tremolite) and plagioclase. The amphibole crystals have often altered to biotite.

The gabbros are dark green, medium-grained, massive to gneissic and composed of actinolite and plagioclase. They are often recrystallized mafic volcanic rocks, especially near contacts with the intrusives. In this case they were described as metagabbros. The glomerophyric gabbro used as a maker horizon in central Trout Bay is found at three outcrops in this part of the mapping area. The glomerophyric gabbro outcrops are massive and homogeneous and contain large plagioclase crystals (at least 1cm in diameter) that comprise up to 60% of the composition of the rock. The matrix is finer grained amphibole or pyroxene.

The amphibolites are brownish-green on the weathered surface, coarse-grained, massive and composed mostly of acicular crystals of actinolite or tremolite-chlorite-serpentine that are up to 2cm in length.

The extent of the mafic volcanics on L-163+00E, TL-082+00N and L-169+00E is less than shown on the ODM Mulcahy Township map. Much of what was mapped as mafic volcanic in this area appears to be felsic to intermediate intrusives containing xenoliths of recrystallized mafic rocks. Near the intersection of TL-052+00N and L-140+50E there are more mafic, gabbro and amphibolite outcrops than previously mapped. The amphiboles found in the mafic rocks in this area are mostly hornblende, atypical of the mafic volcanics in the rest of the area.

6.1.3 Sediments and chemical sediments

Very few sedimentary rocks were mapped. These are mostly biotite-rich fine-grained mafic volcanic derived wackes. Due to their mafic volcanic origin and small grain size it is possible that some of the sediments were mapped as mafic volcanics.

One large BIF raft, possibly in-situ because it lines up with the overall trends in the area, was mapped within diorite and was a few meters in size. This oxide facies iron formation is highly metamorphosed, has 2% magnetite in centimeter scale bands as well as gruneritized amphibole and granoblastic quartz.

6.1.4 Mineralization

The mineralization in this area, usually associated with mafic volcanic rocks and quartz veins, consists mostly of py and pyrrhotite (po). These sulphides occur as disseminated fine-grained crystals that are found only locally and in very small quantities (<<1%).

6.1.5 Structure

The structure in the area is greatly affected by the emplacement of the Douglas Lake pluton and Killala-Baird batholith. The rocks are gneissic, massive or weakly foliated with higher strained rocks being flattened, isoclinally folded, and having a stronger foliation. The fabrics in the area strike between 310° and 40°. In general however, the main fabrics trend about 345° and 35°. The greatest variations are found in the intrusive rocks where gneissic banding is highly variable.

6.2 Geology of the northwestern portion of the Trout Bay property (Ball Township)

The extension of the AFIF was not found in the northwestern part of the Trout Bay property. However, a BIF was mapped that could possibly be the extension of the AFIF of central Trout Bay. The rocks in this area are relatively undeformed and have been subjected to greenschist facies metamorphism. A gabbro has intruded part of the property and is parallel to the main lithologies. See Detail Map 2.

6.2.1 Chemical sediments

No AFIF was found in this area during mapping. The chemical sediments seen were cherty iron formations and magnetite-rich iron formation and were found mostly southwest of TL-089+00N on L-073+00E, L-070+50E, L-068+00N and L-065+50E. There is only one outcrop that is similar to the AFIF and it is located on L-065+50E. It has 50% magnetite in mm-scale bands, chert in cm-scale bands and 0.5mm wide amphibole bands. The amphibole is dark gray-green, fine-grained and was identified as actinolite in the field.

The BIFs are mostly magnetite-rich iron formations with over 60% magnetite. They have mm-scale bands of chert with magnetite bands usually never more than 5mm thick. Many of them also have a small number of biotite-rich bands probably from pelitic material. There are also a few outcrops of cherty iron formations with less than 10% magnetite. Grunerite can be found in a few of the BIFs. One sulphide facies iron formation outcrop was mapped along TL-089+00N just east of L-070+50E and another on TL-094+00N just in between L-070+50E and L-068+00E. The first is massive, green, locally magnetic (in bands) and rich in sulphides. The second is dark green, magnetic, banded, cross-cut by quartz veins and rich in sulphides.

6.2.2 Mafic volcanics, gabbros, amphibolites

The mafic volcanics are dark green fine-grained, composed of actinolite and plagioclase and, non-magnetic. To the southwest of TL-094+00N they are often banded with alternating mafic-rich and felsic-rich bands.

The gabbros are medium- to coarse-grained and composed of actinolite and plagioclase (about 50% of each). The actinolite has occasionally altered to chlorite. The coarser gabbros are amphibole-rich with relict cores of pyroxenes. Only a few of the gabbros are magnetic.

Amphibolite is only found on L-068+00E southwest of TL-089+00N. It is dark green, coarse-grained with actinolite crystals up to 1cm long, has no visible plagioclase and is non-magnetic.

The glomerophyric gabbro of central Trout Bay was mapped at only one location in this part of the property (on L-063+00E). The plagioclase is up to 1.5cm long and makes up a large portion of the outcrop. The outcrop is gray on the fresh and weathered surfaces.

6.2.3 Felsic volcanics

The most dominant rocks to the northeast of TL-094+00N are felsic volcanics. They are intercalated with minor thin mafic volcanics flows and in one place with intermediate volcanic flows. The felsic volcanics are homogeneous crystal tuffs composed mostly of plagioclase and up to 5% quartz eyes. They are fine-grained, have a well-defined fabric and the plagioclase is usually sericitized.

6.2.4 Intermediate volcanics

Mineralogically similar to the mafic volcanics, the intermediate volcanics to the southwest of TL-094+00N are often banded with alternating mafic-rich and felsic-rich bands. The banding usually makes it difficult to determine if the rock type is mafic or intermediate in composition. However, when compared to the banded mafic volcanics they appear more felsic and are usually medium green. Where the intermediate volcanics are not banded they are fine-grained, have a

well-defined fabric, are medium green and have a higher plagioclase content then the mafic volcanics.

6.2.5 Felsic to intermediate intrusives

On the baseline near MacIntosh Lake road the outcrops are all massive, homogeneous, coarse-grained quartz diorite. There are only a few outcrops of intrusives in the rest of the area and these are also quartz diorites with one tonalite.

6.2.6 Sediments

The sediments are usually siltstones or wackes that are fine-grained, unbedded, platy, dark gray to black in colour, biotite-rich with variable amounts of chlorite and no quartz. Some of the outcrops have small garnets and others have mm-scale clasts.

6.2.7 Mineralization

Mineralization in the area appears not to be well developed except at a few outcrops and trenches. In general, the mineralization is made up of fine-grained disseminated cp, py and po that accounts for no more than 1-2% of an outcrop's composition. Very little mineralization is found in the mafic volcanics and gabbros. Most of the mineralization is found in felsic volcanics except in a few locales like the sulphide-facies iron formation on TL-094+00N. The mineralization in the trench is found within quartz veins, cross-cutting the host, consisting of disseminated cp and py. There are numerous trenches northeast of TL-094+00N near L-065+50E but many of these trenches are hidden by fallen trees or very thick underbrush and filled in with debris. Two of the trenches were sampled and had disseminated cubic pyrite up to 0.5cm in size within felsic volcanic crystal tuff. One trench on L-055+00E had cp, py and sp disseminated and in small veinlets within felsic volcanic crystal tuff.

6.2.8 Structure

The main fabric in the region strikes between 320° and 340° and dips steeply to the northeast. The lithological contacts parallel this orientation. Foliation is well developed in the felsic volcanics northeast of TL-094+00N and in the banded mafic volcanics. The only bedding measurements were taken in the iron formations. One major fault was encountered that creates steep slopes or cliffs often over 10 m high. It is sub-parallel to L-073+00E and crosses it between TL-089+00N and TL-094+00N.

6.3 Geology of the Pipestone Bay property (Ball Township)

The Pipestone Bay property is mostly underwater so the shoreline was sampled as well as some in-land outcrops. Pipestone Bay is possibly underlain by a large ultramafic intrusion. Most of the area is magnetic and a large magnetic low is located at the center of the bay. See Detail Map 3.

6.3.1 Ultramafics

The ultramafic rocks on the shore are mostly serpentinites and peridotites. The rocks are massive and are usually rich in serpentine and/or talc. Most of the ultramafic rocks contain crystals of magnetite of varying sizes and amounts. Talcose portions contain no visible magnetite and are less magnetic than those that are serpentine-rich. Some non-magnetic outcrops had visible crystals of chromite or hematite. None of the outcrops had visible mineralization. One of the outcrops had potassium feldspar and epidote alteration with galena crystals. Another outcrop had what appeared to be fuchsite alteration.

6.3.2 Mafic volcanics

There are few mafic volcanic outcrops on this property. They are dark green, massive, fine-grained, non-magnetic, composed of actinolite and plagioclase and have no carbonate material. Some outcrops inland from the southeastern shore of Pipestone Bay in contrast are coarse-grained with actinolite crystals up to 5cm long.

6.3.3 Felsic volcanics

On the southeastern shore of Pipestone Bay some altered felsic volcanic crystal tuffs were encountered in contact with ultramafics. They are plagioclase-rich with 2-3% well-rounded quartz eyes about 2mm in diameter, are non-magnetic, massive, sericitized and possibly chloritic.

6.3.4 Mineralization

None of the samples collected on the Pipestone Bay property had any significant mineralization. There are a few mafic volcanic outcrops that have up to 1% disseminated py grains or cubic py, but otherwise the rocks are unmineralized.

6.4 Geology of the Middle Bay property (Ball Township)

The Middle Bay property is in an area that has intense carbonate alteration and many small shear zones. These small shear zones are well mineralized and often have high gold values. See Detail Map 3.

6.4.1 Mafic volcanics, ultramafics

The mafic volcanics are dark green, fine-grained, composed of actinolite and plagioclase, and in many cases, cross-cut by iron carbonate veins and quartz veins. Generally massive, the mafic volcanic outcrops located in or near the small shear zones have well developed fabrics and many more iron carbonate veins. Some of the outcrops are magnetic. Much of the mineralization in this area is found in the mafic volcanics.

The ultramafics have variable compositions. They are magnetic and usually show intense carbonate alteration. Some are serpentine- and/or talc-rich while others contain very fine-grained radiating acicular white tremolite with very fine-grained dark green actinolite.

6.4.2 Felsic volcanics

The felsic volcanic outcrops in this area are all very similar because they are plagioclase-rich and have approximately 2-5% rounded, slightly flattened quartz eyes that are up to 4mm in diameter. They are white to very light gray in colour, have well defined fabrics, and are unmineralized.

6.4.3 Mineralization and alteration

Sulphide mineralization in the area is generally confined to the mafic volcanics and ultramafics and occasionally found in the felsic volcanics. It comprises disseminated or blebby cp, py and po. A small deformation zone about 3m wide, off the northwestern tip of May-Spiers island, contains sulphide mineralization (~10%) as veinlets and disseminated in carbonates veins. This is a good example of the larger scale structures found in Middle Bay, at least two major east-west corridors that have allowed the passage of fluids through the area. Evidence of this is visible on shore where there is pervasive ankerite veining.

7. Sampling Method and Analysis

All the samples collected for this project were grab samples that were either sent for whole rock analysis (XRF) or 22 element (Au-ICP) assay. Whole rock samples were collected at every few outcrops on the grid lines of the Trout Bay property, as well as at every few outcrops during traverses or lakeshore mapping on the Middle Bay and Pipestone Bay properties. When samples were collected for whole rock analysis care was taken to insure that the samples had no or very little vein material and that they did not contain any visible sulphides.

Samples for assay were collected mainly where visible mineralization was found. However, on the Trout Bay property, samples of banded iron formation (the target), as well as any rock in contact with it (either directly or inferred), were also collected for assay. On the Pipestone Bay property samples were collected at almost every outcrop mapped even when no mineralization was seen. The Middle Bay samples give a good representation but are less

numerous because of the shorter time spent mapping this property. The only property with a poor representation of assay samples is in the south part of the Trout Bay property. This is due to the lack of mineralization, absence of the target in this area, and the pronounced effects of the Killala-Baird and Douglas Lake plutons on the supracrustals.

Samples that were collected for XRF analysis were sent to XRAL Laboratories in Toronto while samples collected for assay were sent to the ALS CHEMEX Laboratories in Thunder Bay.

For a list of samples sent for XRF analysis with sample locations and descriptions see Appendix 2. For a list of samples sent for assay see Appendix 3. The assay certificates from XRAL are found in Appendix 4 and those from CHEMEX are found in Appendix 5.

8. Interpretation of Results

The supracrustals of the southern portion of the Trout Bay property have been affected by the intrusion of the Douglas Lake Pluton, pronounced gneissic, and in some areas, migmatite development with potassic metasomatism. This intrusion has made lithological contacts difficult to follow, often completely destroying them. The rocks have been quite altered. The mafic volcanics that are in contact or in proximity with the pluton are a good example of this because they have been altered to metagabbro. There is also a large amount of potassium feldspar-epidote alteration. Due to the lack of mineralization, only one sample from this area was sent for assay. This sample did not have any significant gold, platinum or palladium corroborating assay data obtained from samples collected by D.R. Cutting in the same area during the fall of 2000 (see Cutting, 2001).

The northwestern portion of the Trout Bay property is made up of linear, parallel striking lithologies trending approximately 330°. A similar target to that identified in central Trout Bay (i.e. BIF in contact with mafic volcanics or gabbro) was located in the northwestern portion of the Trout bay property. BIF, in contact with mafic volcanic and/or gabbro, was mapped on most of the lines southwest of TL-089+00N. It appears to be up to 25m wide in places (apparent thickness). However, neither the BIF, nor the mafic volcanics or gabbros in contact with the BIF, returned any significant platinum or palladium values. The felsic volcanics north of TL-094+00N also did not have any significant gold, platinum or palladium. During mapping, one grab sample (632496), taken from a trench located on L-055+00E, assayed 3200ppb gold and 6160ppm zinc and another (632495) assayed 750ppb gold and 15100ppm zinc. These were the only significant assay results obtained from grab samples collected on the Trout Bay property during the summer 2001 mapping program. The mineralization in this sample consisted of disseminated py, cp and sp that was also found in fractures within felsic volcanic tuff. Though drilling was not part of this project, Noramco and Golden Day Mining drilled this part of the property in 1989 (see section 4.3). A diamond drill hole (NDC87-5), that is presumed to have been drilled close to the sample location, was relogged and sampled by T. Hughes. The results of this relogging can be found in

Appendix 6 at the end of the report. The hole is composed of dacite tuff and lapilli tuff cross-cut in one location by gabbro. There is only one interval in the hole (57.8-59.2m) that has significant mineralization (<1% undeformed late py, cp, and sp). This mineralization corresponds with that of the grab samples. However, no values like those obtained from the grab sample were returned.

The Pipestone Bay property was sampled for both XRF and assay to determine fractionation, relevant sulphide saturation and PGE potential. The majority of the rock types sampled were serpentinites thought to be peridotites originally. Assay results did not show any significant platinum or palladium values.

The Middle Bay property had the greatest number of samples with elevated gold values. None of the samples however, had elevated PGE values. Four samples on this property had over 1000ppb gold that ranged between 1800ppb and 9100ppb gold. These were mostly obtained from old trenches located on the property. These samples were collected along what appears to be a corridor containing iron-carbonate veins, quartz veins and, disseminated and blebby sulphides (usually py, some cp). This corridor is possibly a shear zone or multiple small shear zones. The property surrounding Bridget Lake is known to have high gold values but samples collected on our property to the east and west of the Bridget Lake property did not return any significant gold values.

9. Conclusions

The detailed mapping in the south part of the Trout Bay property shows that the AFIF does not extend into this part of the Trout Bay property and that the glomerophyric gabbro is discontinuous and cannot be used as a marker horizon. This part of the property is essentially unmineralized and no sample had any significant gold, platinum or palladium values.

The AFIF was not located in the northwest part of the Trout Bay property. However, a BIF was mapped and could be an extension of the AFIF found in central Trout Bay. This BIF does not have any significant mineralization. The glomerophyric gabbro was only found in one location. No samples from this part of the Trout Bay property had any significant assay values except two samples taken in trenches on L-055+00E. One sample had 3200ppb gold and 6160ppm zinc while the other had 750ppb gold and 15100ppm zinc. Both were found in a felsic volcanic tuff.

The Pipestone Bay property appears to be one large ultramafic intrusion that has the potential of hosting PGEs. No significant PGE values were returned however, from the samples collected this summer.

From the reconnaissance sampling in Middle Bay this summer, this property has the best gold potential. It is known to have intense carbonate alteration and many small shear zones. Furthermore, four samples collected had between 1800ppb and 9100ppb gold.

10. Recommendations

Additional mapping and sampling is suggested for the northwestern part of the Trout Bay property to better define the geology surrounding the trenches on L-055+00E where two grab samples returned high gold and zinc values. Mucking out the trenches would help in understanding the style of mineralization. This area was clear-cut in the fall of 2001 probably providing good outcrop exposure and relatively easy access to new outcrops. Furthermore, additional mapping and sampling could be carried out southwest of TL-089+00N to better define the target (AFIF) and to determine with more accuracy if it is the extension of the target in central Trout Bay.

A more detailed look at the geochemistry of the ultramafics of the Pipestone Bay property is suggested and would lead to a better understanding of the area and its mineral potential. Once there is a better understanding of the area's geochemistry drilling is suggested to determine the mineral potential at depth and the geology of the rocks under the bay.

More detailed work is recommended for the Middle Bay property in the form of additional sampling and detailed mapping with the use of a network of cut grid lines. The grid lines should be concentrated in the area surrounding Middle Bay, especially the southern shore to get a better sense of the area's structure.

11. References

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12. Statement of Qualifications

I, Léa-Marie Bowes-Lyon, declare that:

I reside at: 1474 Lloyd George
Verdun, PQ
H4H 2P5

I graduated from McGill University (B.Sc. Hons. Geology) in June 2001 and have been continuously employed in the mineral exploration industry since.

I do not hold, nor have previously held any direct or indirect interest in Goldcorp Inc. property including those worked on in this report.

Léa-Marie Bowes-Lyon

Appendix 1

List of claims

Group 204 - TROUT BAY Mulcahy and Ball Townships April 24, 2001

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due	
204										
	Jan-20-1961	30466		Mulcahy	18.903	1	PT	MRO		
	Jan-20-1961	30555		Mulcahy	24.33	1	PT	MRO		
	Jan-20-1961	31538		Mulcahy	15.823	1	PT	MRO		
		31538		Mulcahy	0.975		LO	MRO		Lic. of Occupation
	Jan-20-1961	31878		Mulcahy	12.213	1	PT	MRO		
	Jan-20-1961	31879		Mulcahy	16.272	1	PT	MRO		
	Jan-20-1961	31880		Mulcahy	17.871	1	PT	MRO		
	Feb-21-1962	33764		Mulcahy	4.941	1	PT	MRO		
		33764		Mulcahy	2.639		LO	MRO		Lic. of Occupation
	Feb-21-1962	33765		Mulcahy	18.11	1	PT	MRO		
		33765		Mulcahy	1.356		LO	MRO		Lic. of Occupation
	Feb-21-1962	33766		Mulcahy	25.03	1	PT	MRO		
	Feb-21-1962	33767		Mulcahy	25.309	1	PT	MRO		
	Feb-21-1962	33768		Mulcahy	24.01	1	PT	MRO		
	Feb-21-1962	33769		Mulcahy	18.927	1	PT	MRO		
	Feb-21-1962	33770		Mulcahy	18.632	1	PT	MRO		
	Feb-21-1962	33771		Mulcahy	12.994	1	PT	MRO		
	Feb-21-1962	33772		Mulcahy	6.617	1	PT	MRO		
	Feb-21-1962	33773		Mulcahy	2.728	1	PT	MRO		
	Feb-21-1962	33774		Mulcahy	5.414	1	PT	MRO		
	Feb-21-1962	33775		Mulcahy	7.543	1	PT	MRO		
	Feb-21-1962	33776		Mulcahy	8.944	1	PT	MRO		
		33776		Mulcahy	2.33		LO	MRO		Lic. of Occupation
	Jan-20-1961	34259		Mulcahy	14.901	1	PT	MRO		
	Feb-21-1962	34917		Mulcahy	11.084	1	PT	MRO		
	Feb-21-1962	34918		Mulcahy	10.631	1	PT	MRO		
	Jan-26-1961	34921		Mulcahy	14.5	1	PT	MRO		
		34922		Mulcahy	14.273	1	PT	MRO		
	Feb-21-1962	36135		Mulcahy	9.66	1	PT	MRO		
	Feb-21-1962	36136		Mulcahy	18.864	1	PT	MRO		
	Feb-21-1962	36141		Mulcahy	15.88	1	PT	MRO		

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due	
	Feb-21-1962	36142		Mulcahy	9.466	1	PT	MRO		
	Feb-21-1962	36143		Mulcahy	35.673	1	PT	MRO		
		36144		Mulcahy	13.411	1	PT	MRO		
		36145		Mulcahy	16.56	1	PT	MRO		
	Jan-26-1961	36146		Mulcahy	18.51	1	PT	MRO		
	Jan-26-1961	36147		Mulcahy	20.971	1	PT	MRO		
	Jan-26-1961	36148		Mulcahy	22.181	1	PT	MRO		
	Jan-26-1961	36149		Mulcahy	9.016	1	PT	MRO		
		39882		Mulcahy	1.704		LO	MRO		Lic. of Occupation
	Jan-20-1961	39882		Mulcahy	9.219	1	PT	MRO		
	Jul-19-1963	39885		Mulcahy	15.204	1	PT	MRO		
	Jan-26-1961	40205		Mulcahy	31.161	1	PT	MRO		
	Feb-01-1966	40860		Ball	16.527	1	LP	MRO	Feb-01-2008	
	Feb-01-1966	40861		Ball	18.656	1	LP	MRO	Feb-01-2008	
	Feb-01-1966	40862		Ball	9.405	1	LP	MRO	Feb-01-2008	
	Feb-01-1966	40863		Ball	4.569	1	LP	MRO	Feb-01-2008	
	Feb-01-1966	40864		Ball	12.922	1	LP	MRO	Feb-01-2008	
	Feb-01-1966	40865		Ball	21.849	1	LP	MRO	Feb-01-2008	
	Oct-25-1968	41422		Ball	6.426	1	LP	MRO	Oct-01-2010	50% J.A. Green/A.E. Hager
	Jul-18-1972	46181		Ball	15.297	1	LP	MRO	Aug-01-2014	
	Jul-18-1972	46182		Ball	12.865	1	LP	MRO	Aug-01-2014	
	Jul-18-1972	46183		Ball	14.079	1	LP	MRO	Aug-01-2014	
	Jul-18-1972	46184		Ball	18.535	1	LP	MRO	Aug-01-2014	
	Jul-19-1963	46841		Mulcahy	24.589	1	PT	MRO		
	Jul-19-1963	47674		Mulcahy	10.307	1	PT	MRO		
	Jul-19-1963	47675		Mulcahy	10.566	1	PT	MRO		
	Jul-19-1963	47676		Mulcahy	14.779	1	PT	MRO		
		47677		Mulcahy	0.76		LO	MRO		Lic. of Occupation
	Jul-19-1963	47677		Mulcahy	13.484	1	PT	MRO		
		47678		Mulcahy	15.014	1	LO	MRO		Lic. of Occupation
		47679		Mulcahy	17.203	1	LO	MRO		Lic. of Occupation
	Jul-19-1963	47696		Mulcahy	15.649	1	PT	MRO		
	Jul-19-1963	47697		Mulcahy	16.583	1	PT	MRO		
	Jul-19-1963	47698		Mulcahy	13.691	1	PT	MRO		

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due	
		47699		Mulcahy	1.853		LO	MRO		Lic. of Occupation
	Jul-19-1963	47699		Mulcahy	8.308	1	PT	MRO		
		47700		Mulcahy	15.722	1	LO	MRO		Lic. of Occupation
	Jul-19-1963	47701		Mulcahy	8.883	1	PT	MRO		
		47701		Mulcahy	5.544		LO	MRO		Lic. of Occupation
		47702		Mulcahy	3.513		LO	MRO		Lic. of Occupation
	Jul-19-1963	47702		Mulcahy	11.93	1	PT	MRO		
		47703		Mulcahy	6.305		LO	MRO		Lic. of Occupation
	Jul-19-1963	47703		Mulcahy	6.706	1	PT	MRO		
	Jul-18-1972	47707		Ball	8.838	1	LP	MRO	Aug-01-2014	
	Jul-18-1972	47708		Ball	17.644	1	LP	MRO	Aug-01-2014	
	Jul-19-1963	47859		Mulcahy	10.862	1	PT	MRO		
	Jul-19-1963	47860		Mulcahy	7.758	1	PT	MRO		
	Jul-19-1963	48116		Mulcahy	11.327	1	PT	MRO		
	Jul-19-1963	48117		Mulcahy	18.442	1	PT	MRO		
	Jul-19-1963	48118		Mulcahy	18.142	1	PT	MRO		
		48118		Mulcahy	3.326		LO	MRO		Lic. of Occupation
	Jul-19-1963	48119		Mulcahy	13.711	1	PT	MRO		
		48119		Mulcahy	1.254		LO	MRO		Lic. of Occupation
		48120		Mulcahy	13.735	1	LO	MRO		Lic. of Occupation
	Mar-01-1969	48264		Ball	11.784	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48265		Ball	19.915	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48266		Ball	14.415	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48267		Ball	10.502	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48268		Ball	13.156	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48269		Ball	20.016	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48270		Ball	15.852	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48271		Ball	15.257	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48272		Ball	11.052	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48273		Ball	20.17	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48274		Ball	16.483	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48275		Ball	16.013	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48276		Ball	21.359	1	LP	MRO	Mar-01-2011	
	Mar-01-1969	48277		Ball	18.272	1	LP	MRO	Mar-01-2011	

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due	
	Mar-01-1969	48278		Ball	14.901	1	LP	MRO	Mar-01-2011	
		48327		Mulcahy	6.649		LO	MRO		Lic. of Occupation
	Jul-19-1963	48327		Mulcahy	7.454	1	PT	MRO		
	Jul-19-1963	48328		Mulcahy	9.502	1	PT	MRO		
		48328		Mulcahy	6.293		LO	MRO		Lic. of Occupation
	Feb-01-1988	49375		Mulcahy	12.59	1	LP	MRO	Feb-01-2009	
	Feb-01-1988	49376		Mulcahy	15.018	1	LP	MRO	Feb-01-2009	
	Feb-01-1988	49377		Mulcahy	10.506	1	LP	MRO	Feb-01-2009	
	Mar-05-1969	49522		Mulcahy	15.475	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49523		Mulcahy	15.139	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49524		Mulcahy	12.27	1	LP	MRO	Mar-01-2011	
	Sep-30-1974	49869		Mulcahy	8.927	1	LP	MRO	Oct-01-2016	
	Sep-30-1974	49870		Mulcahy	10.307	1	LP	MRO	Oct-01-2016	
	Sep-30-1974	49871		Mulcahy	12.857	1	LP	MRO	Oct-01-2016	
	Sep-30-1974	49872		Mulcahy	8.705	1	LP	MRO	Oct-01-2016	
	Sep-30-1974	49873		Mulcahy	8.45	1	LP	MRO	Oct-01-2016	
	Mar-05-1969	49874		Ball	15.253	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49875		Ball	15.617	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49876		Ball	11.699	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49877		Mulcahy	15.949	1	LP	MRO	Mar-01-2011	
	Sep-30-1974	49887		Mulcahy	23.828	1	LP	MRO	Oct-01-2016	
	Sep-30-1974	49888		Mulcahy	21.634	1	LP	MRO	Oct-01-2016	
	Mar-05-1969	49889		Mulcahy	14.293	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49890		Mulcahy	8.049	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49891		Mulcahy	23.597	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49892		Mulcahy	11.319	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49893		Mulcahy	9.437	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49894		Mulcahy	20.938	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49895		Mulcahy	16.422	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49896		Ball	19.259	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49897		Ball	5.795	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49898		Ball	9.931	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49899		Ball	26.592	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49900		Ball	24.055	1	LP	MRO	Mar-01-2019	

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due	
	Mar-05-1969	49901		Ball	10.922	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49902		Ball	12.278	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49903		Ball	11.392	1	LP	MRO	Mar-01-2011	
	Mar-05-1969	49904		Ball	12.06	1	LP	MRO	Mar-01-2011	
	Dec-01-1976	52174		Ball	15.2	1	LP	MRO	Dec-01-2016	
	Dec-01-1976	52175		Ball	13.97	1	LP	MRO	Dec-01-2016	
	Mar-01-1977	53397		Ball	8.296	1	LP	MRO	Mar-01-2019	
	Mar-01-1977	53398		Ball	14.909	1	LP	S/M	Mar-01-2011	
	Mar-01-1977	53399		Ball	13.638	1	LP	S/M	Mar-01-2011	
					1909.949	128				
204A										
	Apr-21-1999	1234065	8	Mulcahy	128	1	STK	MRO	Apr-21-2002	
			8		128	1				
204B										
	Apr-21-1999	1234066	11	Mulcahy	176	1	STK	MRO	Apr-21-2002	W0120.30134 - Approval Pending
	Apr-21-1999	1234067	10	Mulcahy	160	1	STK	MRO	Apr-21-2001	W0120.30134 - Approval Pending
			21		336	2				
204C										
	Jun-04-1999	1185055	7	Ball	112	1	STK	MRO	Jun-04-2002	
			7		112	1				
204D										
	Sep-27-1999	1184909	6	Mulcahy	96	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1184910	12	Mulcahy	192	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1184911	9	Mulcahy/Killa	144	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1184912	16	Mulcahy	256	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1184913	12	Mulcahy/Killa	192	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
			55		880	5				
204E										
	Sep-27-1999	1184914	4	Mulcahy	64	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1184915	8	Mulcahy	128	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1184916	6	Mulcahy	96	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
	Sep-27-1999	1185190	12	Mulcahy	192	1	STK	MRO	Sep-27-2001	W0120.30134 - Approval Pending
			30		480	4				
204F										

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due	
	Nov-24-1998	1234081	1	Ball	48	1	STK	MRO	Nov-24-2002	
	Nov-24-1998	1234082	6	Ball	96	1	STK	MRO	Nov-24-2002	
	Nov-24-1998	1234083	6	Ball	96	1	STK	MRO	Nov-24-2002	
	Nov-24-1998	1234084	14	Ball	224	1	STK	MRO	Nov-24-2001	W0120.30134 - Approval Pending
			27		464	4				
204G										
	Jul-27-2000	1234148	10	Mulcahy	160	1	STK	MRO	Jul-27-2002	
			10		160	1				
204H										
	Aug-29-1986	870130	1	Ball	16	1	STK	MRO	Aug-29-2001	W0120.30134 - Approval Pending
	Aug-29-1986	870131	1	Ball	16	1	STK	MRO	Aug-29-2001	W0120.30134 - Approval Pending
	Aug-29-1986	870132	1	Ball	16	1	STK	MRO	Aug-29-2001	W0120.30134 - Approval Pending
			3		48	3				
204I										
	May-31-1991	1143622	1	Ball	16	1	STK	MRO	May-31-2002	(Transferred from Majewski)
	May-31-1991	1143623	1	Ball	16	1	STK	MRO	May-31-2002	(Transferred from Majewski)
	May-31-1991	1143624	1	Ball	16	1	STK	MRO	May-31-2002	(Transferred from Majewski)
	May-31-1991	1143645	1	Ball	16	1	STK	MRO	May-31-2002	(Transferred from Majewski)
	May-31-1991	1143646	1	Ball	16	1	STK	MRO	May-31-2002	(Transferred from Majewski)
	May-31-1991	1143647	1	Ball	16	1	STK	MRO	May-31-2002	(Transferred from Majewski)
	Mar-17-1995	1184230	2	Ball	32	1	STK	MRO	Mar-17-2002	(X Majewski) reserve $1,095.00 ap
	Jun-01-1995	1184316	1	Ball	16	1	STK	MRO	Jun-01-2001	W0120.30134 - Approval Pending
	Jun-01-1995	1184317	2	Ball	32	1	STK	MRO	Jun-01-2001	W0120.30134 - Approval Pending
	Jun-28-1995	1234022	3	Ball	48	1	STK	MRO	Jun-28-2002	(Transferred from Majewski)
	Jun-28-1995	1234029	2	Ball	32	1	STK	MRO	Jun-28-2001	W0120.30134 - Approval Pending
	Jun-28-1995	1234030	1	Ball	16	1	STK	MRO	Jun-28-2002	(Transferred from Majewski)
	Jun-28-1995	1234039	3	Ball	48	1	STK	MRO	Jun-28-2002	(Transferred from Majewski)
	Jun-28-1995	1234051	2	Ball	32	1	STK	MRO	Jun-28-2001	W0120.30134 - Approval Pending
			22		352	14				
204J										
	Oct-05-2000	1234155	6	Ball	96	1	STK	MRO	Oct-05-2002	
	Oct-05-2000	1234156	15	Ball	240	1	STK	MRO	Oct-05-2002	
	Oct-05-2000	1234157	6	Ball	96	1	STK	MRO	Oct-05-2002	
			27		432	3				

Group No.	Recorded	Official No.	Units	Township	Hectares	Total	Type	Title	Action Due
204K									
	Feb-08-2001	1234159	16	Mulcahy	256	1	STK	MRO	Feb-08-2003
	Feb-08-2001	1234160	16	Mulcahy	256	1	STK	MRO	Feb-08-2003
	Feb-08-2001	1234161	16	Mulcahy	256	1	STK	MRO	Feb-08-2003
			48		768	3			
204L									
	Jul-06-2001	1234245	4	Ball	64	1	STK	MRO	Jul-06-2003
			4		64	1			
204M									
	Jun-21-2001	1234259	2	Ball	32	1	STK	MRO	Jun-21-2003
			2		32	1			

Total Units **264** ***Total Hectares*** **6165.949** ***Total Claims*** **171**

PIPESTONE BAY PROPERTY

MR HECTARES	MR ACRES	SR HECTARES	SR ACRES	TYPE ID	PARCEL COUNT	CLAIM COUNT	COMMENTS
32	79.074			STK	1	1	
16	39.537			STK	1	1	
128	316.295			STK	1	1	
240	593.053			STK	1	1	
32	79.074			STK	1	1	
16	39.537			STK	1	1	
464	1146.57				6	6	

November 21, 2001

Appendix 2

List of XRF samples, UTM coordinates, results and descriptions

Station	Sample Number	Rock Type	Property	Easting	Northing	SiO2 (%)	Al2O3 (%)	CaO (%)	MgO (%)	Na2O (%)	K2O (%)	Fe2O3 (%)	MnO (%)	TiO2 (%)	P2O5 (%)	Cr2O3 (%)	LOI (%)	Sum (%)	Ag (ppm)	Ba (ppm)	Be (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cs (ppm)	Cu (ppm)
95	632559	Mafic Volcanic	Trout Bay	414371	5648672	55.5	17.7	7.77	3.63	5.24	0.24	8.24	0.15	1.009	0.09	0.05	0.55	100.1	<1	78.3	<0.5	0.5	7.8	33	<0.1	44
101	632560	Mafic Volcanic	Trout Bay	414076	5648426	51.1	14.6	11.6	6.63	2.14	0.33	11.7	0.18	1.016	0.09	0.04	0.55	100	<1	64.3	<0.5	0.2	13.9	31.3	<0.1	93
110	632561	Gabbro	Trout Bay	415942	5646229	52	14.8	10.4	6.99	2.26	0.78	10.2	0.16	0.855	0.07	0.05	1.6	100	<1	80.5	<0.5	0.4	7.7	30	0.5	106
114	632562	Gabbro	Trout Bay	416087	5646327	50	14.4	9.77	8.45	2.4	0.78	12	0.19	0.829	0.06	0.04	1.05	100	<1	150	<0.5	0.3	7.3	29.9	1	53
117	632563	Mafic Volcanic	Trout Bay	416188	5646428	49.4	14.6	10.1	8.3	2.16	0.72	13.1	0.19	0.705	0.06	0.05	0.65	100	<1	62	<0.5	0.3	5.4	28.8	1.7	47
127	632564	Mafic Volcanic	Trout Bay	416847	5652890	49.3	16.4	5.89	7	3.96	0.18	15	0.24	1.18	0.07	0.04	0.8	100	<1	44.9	<0.5	0.6	7.3	40	1.1	91
128	632565	Mafic Volcanic	Trout Bay	414614	5648083	49.7	14.4	12.7	6.31	2.44	0.48	11.9	0.24	1.028	0.09	0.04	0.65	100	<1	170	<0.5	0.3	8.4	29.8	0.3	77
146	632566	Amphibolite	Trout Bay	413544	5646579	45.8	16.8	10.5	13.6	0.97	0.2	9.8	0.16	0.333	0.03	0.07	1.7	100	<1	36.1	<0.5	0.2	3.5	38.5	0.4	45
154	632567	Amphibolite	Trout Bay	413164	5646365	46.1	16.6	11.1	11.5	1.09	0.55	10.7	0.17	0.516	0.05	0.07	2.05	100.4	<1	113	<0.5	0.3	4.6	35.2	0.5	37
159	632568	Mafic Volcanic	Trout Bay	413027	5646769	47.5	16	12.9	7.82	1.67	0.24	12	0.23	0.815	0.07	0.05	0.65	99.9	<1	64.1	<0.5	0.4	8	28.6	0.4	60
172	632569	Metagabbro	Trout Bay	412574	5646833	49.1	16.1	11.3	8.03	2.15	0.29	11.3	0.16	0.731	0.07	0.06	0.75	100	<1	50.7	<0.5	0.2	7.9	36.5	0.2	49
182	632570	Mafic Volcanic	Trout Bay	415648	5646863	48.8	17.8	14	4.08	0.84	0.6	11.5	0.49	0.559	0.04	0.08	1.6	100.5	<1	93	<0.5	0.3	6.5	39.3	0.6	56
195	632571	Gabbro	Trout Bay	415172	5646590	49.3	16.4	12.4	8.11	1.71	0.38	10.3	0.16	0.488	0.04	0.07	0.85	100.2	<1	41.3	<0.5	0.3	6.4	38.2	0.5	25
198	632572	Gabbro	Trout Bay	412992	5647522	50.5	17.6	8.43	4.68	4.05	1.21	10.8	0.12	1.277	0.54	0.01	0.7	100	<1	375	<0.5	0.2	62	24.3	0.8	65
200	632573	Metagabbro	Trout Bay	412669	5647269	49.3	17.2	12.3	9.07	1.71	0.54	8.39	0.14	0.478	0.04	0.16	0.75	100.2	<1	68.8	<0.5	0.3	6.3	32.7	0.3	24
201	632574	Amphibolite	Trout Bay	412634	5647268	46.5	15.9	10.1	13.5	1.17	0.15	11.1	0.17	0.438	0.04	0.09	1.2	100.4	<1	26.6	<0.5	0.1	4.4	57.2	0.2	40
204	632575	Wacke	Trout Bay	412454	5647010	54	18.9	10.6	4.21	2.14	0.4	8.1	0.21	0.498	0.04	0.06	0.85	100	<1	112	<0.5	0.3	13.5	43.5	0.5	66
205	632576	Glomerophyric Gabbro	Trout Bay	412489	5646985	47.6	22.3	11.9	4.71	1.97	0.73	8.11	0.12	0.553	0.05	0.03	2.1	100.1	<1	211	<0.5	0.2	5.4	23.5	0.9	34
207	632577	Mafic Volcanic	Trout Bay	412466	5653440	50.3	15.8	12.6	8.49	1.2	0.2	10.2	0.17	0.496	0.04	0.08	0.8	100.3	<1	10.1	<0.5	0.4	3.9	40	0.4	51
216	632578	Mafic Volcanic	Trout Bay	411660	5654117	49.9	17.5	12.6	5.83	3.02	0.14	8.03	0.19	0.453	0.04	0.06	2.3	100.1	<1	66.3	<0.5	0.2	3.7	43.3	<0.1	91
224	632579	Intermediate Volcanic	Trout Bay	411353	5654384	49.1	18.9	12.3	5.85	2.45	0.3	9.01	0.23	0.526	0.04	0.07	1.25	100	<1	41	<0.5	0.2	4.1	41.9	0.2	48
226	632580	Mafic Volcanic	Trout Bay	411291	5654290	48.9	16.2	10.2	10.3	2.12	0.48	9.85	0.15	0.446	0.04	0.05	1.2	100	<1	49.1	<0.5	0.2	4.1	40.4	2	17
227	632581	Gabbro	Trout Bay	411303	5654328	49.7	14	11	9.01	2.25	0.17	12.3	0.21	0.839	0.06	0.01	0.55	100.1	<1	18	<0.5	0.1	5	35	<0.1	45
228	632582	Mafic Volcanic	Trout Bay	411350	5654441	50.2	15.4	11.8	9.38	1.35	0.17	10.5	0.18	0.516	0.04	0.07	0.65	100.3	<1	19.5	<0.5	0.3	3.4	36.7	0.2	56
228	632583	Mafic Volcanic	Trout Bay	411350	5654441	49.1	16.1	11.9	8.46	1.81	0.36	10.5	0.21	0.525	0.04	0.07	1.05	100.2	<1	35.3	<0.5	<0.1	3.4	41	0.8	63
231	632584	Intermediate Volcanic	Trout Bay	411270	5654526	49.3	16	11.4	9.05	1.99	0.19	10.6	0.19	0.516	0.05	0.07	0.7	100.2	<1	11.7	<0.5	0.4	3.3	35.4	0.2	17
233	632585	Intermediate Volcanic	Trout Bay	411266	5654542	48.7	18.2	14.2	4.78	1.24	0.65	9.97	0.23	0.576	0.04	0.08	1.7	100.4	<1	48.1	<0.5	0.1	4.6	41.7	3	128
238	632586	Mafic Volcanic	Trout Bay	411151	5654569	49.7	15.4	12.7	9.1	1.16	0.21	9.56	0.16	0.445	0.03	0.06	1.5	100	<1	22.7	<0.5	<0.1	3.6	35	0.6	58
241	632587	Metagabbro	Trout Bay	411062	5654499	47	17.9	10.2	11	1.87	0.57	8.81	0.15	0.37	0.04	0.05	2.1	100	<1	55.4	<0.5	<0.1	3.2	36.9	2.5	49
244	632588	Gabbro	Trout Bay	410932	5654400	47.9	15.4	7.55	10.2	2.67	0.51	12.2	0.23	0.946	0.09	0.05	2.25	100.1	<1	78.8	<0.5	0.1	7.5	37.8	1.1	34
245	632589	Mafic Volcanic	Trout Bay	410883	5654345	57	10.9	5.22	2.2	3.8	0.28	18	0.27	1.692	0.32	<0.01	0.35	100	<1	21	<0.5	0.2	22.7	19.3	0.5	23
252	632590	Mafic Volcanic	Trout Bay	410701	5654396	46.7	18.3	12.3	8.42	1.62	0.54	10.4	0.18	0.514	0.05	0.06	0.95	100.1	<1	49.3	<0.5	0.3	4.8	42.7	1.2	42
253	632591	Mafic Volcanic	Trout Bay	410762	5654326	48	17.7	10.5	8.67	1.87	0.55	9.96	0.19	0.479	0.05	0.06	2.15	100.2	<1	108	<0.5	<0.1	3	38.8	1.2	129
256	632593	Mafic Volcanic	Trout Bay	410779	5654284	48.8	16.2	10.2	10.5	2.1	0.32	9.83	0.16	0.47	0.04	0.07	1.4	100.1	<1	45.5	<0.5	0.1	3.4	38.7	1.2	13
258	632595	Mafic Volcanic	Trout Bay	410765	5654270	46.3	15.1	9.61	12.3	1.25	0.63	11.7	0.15	0.427	0.04	0.05	2.5	100	<1	85.5	<0.5	0.2	3.4	35.1	1	7
265	632598	Mafic Volcanic	Trout Bay	410784	5654238	47.8	18	12.2	7.48	1.3	0.63	11	0.14	0.506	0.04	0.05	1.1	100.2	<1	194	<0.5	0.3	3.6	35	2.2	69
268	632600	Intermediate Volcanic	Trout Bay	410627	5654514	54.5	17.9	11.5	4.22	2.15	0.39	8.19	0.2	0.466	0.04	0.07	0.7	100.4	<1	49.7	<0.5	0.2	3.8	39.7	0.6	72
283	632404	Amphibolite	Trout Bay	410216	5654373	46.8	16	10.2	12.5	1.3	1.09	9.92	0.14	0.422	0.04	0.09	1.45	99.9	<1	120	<0.5	0.2	4.3	38.3	9	27
284	632405	Gabbro	Trout Bay	410193	5654407	48.7	16.4	12.9	9.91	1.22	0.77	8.32	0.17	0.349	0.03	0.18	1.5	100.3	<1	71.3	<0.5	<0.1	3.2	29.9	4.6	19
285	632406	Gabbro	Trout Bay	410251	5654419	50	15.3	12.3	8.2	1.43	0.31	9.69	0.22	0.728	0.03	0.07	1.75	100.1	<1	25.9	<0.5	<0.1	5.2	31.1	1.5	20
289	632407	Gabbro	Trout Bay	410385	5654552	49	15.6	10.2	8.72	2.47	0.2	11.9	0.22	0.821	0.06	0.05	0.75	100	<1	36.7	<0.5	0.1	5.6	34.8	0.4	36
293	632410	Mafic Volcanic	Trout Bay	410464	5654629	46.4	19.2	10.1	6.85	2.17	1.29	12.6	0.15	0.582	0.05	0.06	0.55	100	<1	280	<0.5	0.1	4.7	44.9	7.6	8
295	632411	Intermediate Volcanic	Trout Bay	410599	5654526	49.5	20.4	11.9	4.76	2.29	0.47	8.92	0.23	0.551	0.05	0.07	1	100.1	<1	64	<0.5	0.2	4.4	52	1	83
299	632412	Mafic Volcanic	Trout Bay	410517	5654654	47.3	19.4	12.1	6.73	0.86	0.3	11.7	0.39	0.594	0.06	0.08	0.75	100.2	<1	38.8	<0.5	0.1	3.8	40.3	0.6	14
302	632414	Gabbro	Trout Bay	410598	5654736	48.6	19.3	11.5	5.89	2.47	0.22	10.5	0.14	0.803	0.07	0.04	0.5	100	<1	26.1	<0.5	<0.1	7	31.2	0.4	102
304	632415	Mafic Volcanic	Trout Bay	410792	5654910	51.8	13.2	9.24	10.2	2.33	0.54	10.7	0.19	0.542	0.05	0.07	1.3	100.1	<1	43.3	<0.5	0.3	6.7	33.8	4.7	30

Sample Number	Dy (ppm)	Er (ppm)	Eu (ppm)	Ga (ppm)	Gd (ppm)	Hf (ppm)	Ho (ppm)	La (ppm)	Lu (ppm)	Mo (ppm)	Nb (ppm)	Nd (ppm)	Ni (ppm	Pb (ppm)	Pr (ppm)	Rb (ppm)	Sm (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Tb (ppm)	Th (ppm)	Tl (ppm)	Tm (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Yb (ppm)	Zn (ppm)	Zr (ppm)
632559	4.5	3	0.9	13	3.5	2	0.9	2.7	0.45	3	2	7.8	96	<5	1.5	1.8	2.3	<1	123	<0.5	0.6	0.4	<0.5	0.4	<0.1	257	<1	21	2.5	88	61.6
632560	4.2	3	1.1	12	3.9	2	0.9	5.6	0.3	3	2	9.7	97	<5	2.2	2.3	2.2	<1	127	<0.5	0.6	0.6	<0.5	0.5	0.2	242	<1	21	2.4	93	70
632561	3.6	2.2	0.9	11	2.5	1	0.6	2.8	0.32	<2	2	6.8	83	<5	1.4	18.9	2.1	<1	117	<0.5	0.6	0.6	<0.5	0.3	<0.1	192	<1	17	2.1	60	51.1
632562	3	2.3	0.8	11	2.3	1	0.8	3	0.27	2	2	6.1	53	16	1.3	27.4	1.9	<1	115	<0.5	0.5	1.6	<0.5	0.4	0.1	197	<1	17	2	90	51.1
632563	2.7	2	0.7	9	2.1	1	0.6	2.3	0.25	19	1	5.2	66	<5	0.9	25.1	1.7	<1	93.9	<0.5	0.4	0.8	<0.5	0.3	<0.1	183	<1	15	2	67	37.7
632564	4	2.9	0.8	14	3.1	2	0.9	2.6	0.4	4	3	7.4	93	6	1.3	3.9	2.3	<1	56.2	<0.5	0.6	1.2	<0.5	0.5	0.1	258	<1	20	2.9	118	72.9
632565	3.9	2.8	1	12	3.4	2	0.8	3.2	0.36	3	2	7.2	66	18	1.5	7.5	2.3	<1	88.4	<0.5	0.7	0.8	<0.5	0.4	<0.1	219	<1	20	2.7	87	60.2
632566	1.3	0.8	0.4	8	1.1	<1	0.2	1.6	0.06	<2	<1	2.7	260	5	0.6	4.9	0.7	<1	89	<0.5	0.2	0.7	<0.5	0.1	<0.1	72	<1	8	1	76	17.7
632567	1.6	1.2	0.5	10	1.7	<1	0.4	1.8	0.13	<2	1	4.3	191	33	0.7	17.2	0.8	<1	124	<0.5	0.3	0.6	<0.5	0.2	<0.1	87	<1	11	1.4	57	30
632568	3.5	2.3	0.8	11	2.5	1	0.8	3.4	0.29	3	2	6.8	104	11	1.4	6.2	1.6	<1	169	<0.5	0.5	0.6	<0.5	0.4	<0.1	150	<1	18	2.5	67	51.7
632569	2.4	1.9	0.6	14	2.2	<1	0.7	3.5	0.26	3	2	5.5	122	60	1.2	3.9	1.5	<1	133	<0.5	0.4	0.4	<0.5	0.3	<0.1	176	<1	16	1.9	79	33.1
632570	1.9	1.5	0.4	13	1.7	<1	0.5	3	0.2	<2	1	4	114	10	0.9	16.9	1.3	<1	100	<0.5	0.3	0.4	<0.5	0.2	<0.1	187	<1	14	1.8	99	23
632571	1.6	1.2	0.5	12	1.3	<1	0.4	2.8	0.18	<2	1	3.5	116	8	0.9	7.2	1	<1	114	<0.5	0.3	0.3	<0.5	0.2	<0.1	146	<1	10	1	67	20.4
632572	5.5	2.6	2.4	20	8.7	4	1	23	0.25	<2	6	41.2	28	8	9.8	28	9.8	2	745	<0.5	1.1	1.9	<0.5	0.3	0.4	136	<1	25	2	111	120
632573	1.5	1.1	0.4	11	1.3	<1	0.4	2.8	0.13	<2	1	3.5	126	<5	1	10	1.2	<1	161	<0.5	0.3	0.2	<0.5	0.2	<0.1	147	<1	10	1.1	68	22.9
632574	1.7	1	0.3	12	1.4	<1	0.4	1.8	0.16	<2	1	2.1	372	<5	0.7	2.5	1.2	1	82.2	<0.5	0.2	0.1	<0.5	0.2	<0.1	113	<1	9	1.1	116	16.9
632575	1.7	1.2	0.5	13	1.9	1	0.4	5.6	0.17	4	2	7	170	<5	1.7	11.1	1.6	<1	126	<0.5	0.3	1.2	<0.5	0.2	0.2	138	<1	11	1.3	54	33.8
632576	2.2	1.4	0.6	14	1.9	<1	0.4	2.3	0.11	<2	1	3.1	71	8	0.9	19.2	0.9	<1	163	<0.5	0.3	0.2	<0.5	0.2	<0.1	109	<1	11	1.5	58	23.6
632577	1.7	1.2	0.4	11	1.4	<1	0.5	1.5	0.2	<2	1	2.5	118	8	0.6	4.7	1.1	<1	128	<0.5	0.3	0.1	<0.5	0.2	<0.1	167	<1	11	1.2	62	19.7
632578	1.6	1.3	0.4	12	1.4	<1	0.5	1.5	0.16	<2	<1	2.2	150	<5	0.6	1.2	0.9	<1	103	<0.5	0.2	0.1	<0.5	0.2	<0.1	144	<1	9	1.3	52	18.3
632579	1.8	1.3	0.5	13	1.7	<1	0.5	1.8	0.18	<2	<1	2.9	166	<5	0.8	4.7	1	<1	120	<0.5	0.3	0.2	<0.5	0.2	<0.1	146	<1	10	1.3	70	21.7
632580	1.6	1.2	0.3	11	1.2	<1	0.4	1.6	0.16	<2	<1	2.9	167	<5	0.6	14.3	1	<1	86	<0.5	0.2	0.2	<0.5	0.2	<0.1	137	<1	10	1.1	65	17.7
632581	2.7	1.9	0.5	11	2.3	<1	0.7	1.9	0.26	<2	1	3.4	54	<5	1	1.7	1.5	<1	64.3	<0.5	0.4	0.2	<0.5	0.3	<0.1	190	<1	14	2	78	33
632582	1.8	1.3	0.4	11	1.6	<1	0.5	1.4	0.2	2	1	2.4	109	5	0.7	3.8	1	<1	90	<0.5	0.3	0.2	<0.5	0.2	<0.1	160	<1	11	1.6	64	21.3
632583	1.7	1.4	0.4	11	1.5	<1	0.5	1.2	0.17	5	1	2.3	109	6	0.6	10.4	0.9	<1	85.2	<0.5	0.3	0.1	<0.5	0.2	<0.1	158	<1	11	1.4	69	21.2
632584	1.9	1.3	0.3	11	1.4	<1	0.5	1.4	0.26	<2	1	3.1	113	<5	0.7	2.4	1.4	<1	85.1	<0.5	0.3	0.1	<0.5	0.2	<0.1	155	<1	12	1.4	68	20.5
632585	2.2	1.6	0.5	12	1.6	<1	0.6	1.7	0.26	7	1	3.9	111	12	0.8	32.7	1	<1	92.2	<0.5	0.3	0.1	<0.5	0.3	<0.1	181	<1	14	1.9	90	22.8
632586	1.6	1	0.4	11	1.5	<1	0.4	1.6	0.15	<2	<1	2.6	125	<5	0.6	4.8	1.2	<1	99.1	<0.5	0.3	0.1	<0.5	0.2	<0.1	126	<1	9	1.2	65	16.6
632587	1.2	1	0.3	11	1	<1	0.4	1.6	0.09	<2	<1	2.6	222	<5	0.6	15.8	1.1	<1	112	<0.5	0.2	<0.1	<0.5	0.2	<0.1	94	<1	8	1.1	84	15.4
632588	3.2	2.3	0.7	12	2.7	1	0.8	2.9	0.33	2	2	6.2	104	<5	1.1	17.2	2.5	<1	67.5	<0.5	0.5	0.3	<0.5	0.3	<0.1	185	<1	21	2.3	98	44.9
632589	11.3	8.3	2	19	10.3	6	2.7	7.6	1.25	<2	10	22.3	13	<5	4.3	3.8	7.1	1	50.3	0.6	1.9	1.1	<0.5	1.1	0.1	18	<1	68	8.3	124	201
632590	1.8	1.3	0.5	12	1.4	<1	0.5	1.7	0.21	<2	1	3.2	191	<5	0.8	12.9	1.2	<1	119	<0.5	0.3	0.2	<0.5	0.2	<0.1	140	<1	12	1.3	61	23.3
632591	2	1.2	0.4	12	1.3	<1	0.5	1.2	0.17	<2	1	2.4	154	<5	0.5	14.6	0.8	1	104	<0.5	0.3	0.2	<0.5	0.2	<0.1	126	<1	10	1.2	76	20.2
632593	1.8	1.3	0.4	11	1.4	<1	0.4	1.1	0.15	<2	1	2.8	160	5	0.5	11.7	1.3	<1	100	<0.5	0.3	0.2	<0.5	0.2	<0.1	132	<1	10	0.9	57	19.5
632595	2	1.5	0.5	10	1.6	<1	0.5	1.4	0.2	<2	<1	3.1	161	<5	0.6	21.7	1.2	<1	46.2	<0.5	0.3	0.1	<0.5	0.2	<0.1	113	<1	14	1.4	53	16.9
632598	2.1	1.4	0.6	12	1.6	<1	0.5	1.6	0.15	<2	1	2.6	175	7	0.7	20.8	1	<1	83.3	<0.5	0.3	0.1	<0.5	0.2	<0.1	113	<1	10	1.3	76	22.7
632600	1.6	1.1	0.3	11	1.2	<1	0.4	1.5	0.14	<2	<1	2.7	148	<5	0.7	9	1.2	<1	95.6	<0.5	0.2	0.2	<0.5	0.2	<0.1	132	<1	9	1.2	53	19.4
632404	1.5	1.2	0.3	10	1.5	<1	0.4	1.8	0.14	<2	1	3.2	265	<5	0.7	47.1	0.8	<1	96.4	<0.5	0.3	0.1	<0.5	0.2	<0.1	100	<1	9	1	117	21.5
632405	1.2	0.7	0.3	10	0.8	<1	0.3	1.5	0.14	<2	1	1.8	143	<5	0.5	31.4	0.6	<1	161	0.5	0.2	0.1	<0.5	0.1	<0.1	107	<1	8	0.8	69	12.2
632406	2.6	1.5	0.5	11	1.8	<1	0.6	2.1	0.27	<2	2	4.3	92	5	1	8.4	1.1	<1	96.1	<0.5	0.3	0.2	<0.5	0.3	<0.1	161	<1	13	1.8	90	22.8
632407	3.2	2.1	0.6	13	2.6	2	0.8	1.9	0.37	<2	2	4.9	105	<5	1.1	2.7	1.6	<1	162	<0.5	0.5	0.3	<0.5	0.3	<0.1	162	<1	18	2.2	84	44.4
632410	1.9	1.2	0.7	12	1.5	1	0.4	2.3	0.19	<2	1	3.1	146	<5	0.8	51	1	<1	140	<0.5	0.3	0.1	<0.5	0.2	<0.1	144	<1	10	1.3	128	25.6
632411	1.6	1.3	0.4	14	1.3	<1	0.5	1.7	0.16	<2	1	2.5	192	<5	0.8	13.2	1.1	<1	123	<0.5	0.3	0.2	<0.5	0.1	<0.1	150	<1	11	1.3	66	24
632412	2	1.3	0.5	13	1.6	<1	0.5	1.6	0.16	<2	1	3.1	159	6	0.7	8.9	1.3	<1	58.3	<0.5	0.3	0.1	<0.5	0.2	<0.1	194	<1	11	1.3	79	25.2
632414	2.7	1.9	0.5	14	2.3	1	0.6	2.7	0.24	2	2	4	65	12	1.3	2.9	1.8	<1	115	<0.5	0.4	0.3	<0.5	0.3	<0.1	168	<1	15	1.8	62	39.5
632415	2.1	1.5	0.4	9	1.8	<1	0.6	2.3	0.24	<2	2	3.5	89	5	0.9	22.7	1.1	<1	83.7	<0.5	0.3	0.5	<0.5	0.2	<0.1	153	<1	14	1.5	103	29.2

Sample Number	S (%)	As (ppm)	Se (ppm)	Description
632559	<0.01	0.3	0.2	Massive, act-plag mineralised. QV x-cutting. Dk grey, f-g. Non-magnetic, NVS
632560	0.07	0.1	0.4	Amphib-plag, non-magnetic NVS, wkly chloritic? Nil carbonate, quite massive, dk grey.
632561	0.07	2.3	0.2	Gabbro intruded by diorite. 60:40 amphib-plag. Possibly pseudomorphing after px. Dk grey-green. Diorite contains xenoliths of same.
632562	0.03	1.6	<0.1	Non-magnetic, nil carbonate, Locally, c-g, almost pegmatoidal. 50:50 amphib-plag. Massive, x-cut by 10 cm wide QV.
632563	<0.01	0.4	0.2	Dk green, amphib-plag mineralised, massive, with biotitisation. X-cut by QV-carbonate veining.
632564	0.04	0.2	0.5	F-g, sericitised, pale grey, w bte bands.
632565	0.06	0.3	0.2	F-g, dk grey-green. Non-magnetic, NVS, no carbonate, massive. Mr QV x-cutting.
632566	<0.01	0.3	0.1	C-g amphibolite, poss actinolite. To 1.5 cm diam. Nil carbonate, non-magnetic, massive, NVS. No plag observed. Wkly chloritic (can scratch).
632567	<0.01	0.9	<0.1	C-g amphibole, to 2 cm. Non-magnetic, massive, nl carbonate. Biotitised, with plag forming scattered 'clots' to 2 mm diameter.
632568	0.06	0.8	0.3	Dk grey, f-g, possibly amygdaloidal (filled with qz, bte & plag) (so not amygdules). Non-magnetic, massive, nil carbonate. Essentially fel-amphibolitic.
632569	<0.01	0.6	0.1	M-g, fel-amphibole, dk grey. Amph to 2mm, plag, same. Massive, non-magnetic. X-cut by (??) feldspar veins with subsequent chloritisation. Metagabbro is amphibolitised. Possible late diopside noted,
632570	0.07	0.8	0.1	Banded, mm scale (plag-amphib differentiated). Veins of brownish ?muscovite. Locally diopside-plag alteration. (?Vein-type0 Non-magnetic, no carbonates. Gt present with muscovite.
632571	<0.01	0.9	<0.1	"Leucogabbro" 40:60 amphib:plag (so not leuco). 1mm-1 cm diam xls. Massive, no carbonate, non-magnetic, NVS. Qz noted. Some differentiation of lithotype noted, between leucogabbro & gabbro. Metagabbro.
632572	0.09	0.9	<0.1	"Leucogabbro" 40:60 amphib:plag. Magnetic, no carbonate, NVS. Hornblendic. Glomerophyric (?what) Weakly foliated. Bte veining noted.
632573	<0.01	0.2	<0.1	C-g gabbro. 50% amphibole (biotitised). Massive, non-magnetic, x-cut by qz-fel veins. Epidotised. Some diorite veins brecciating gabbro, with rexln.
632574	<0.01	0.2	<0.1	C-g amphibolite (act or tremolite) to 1.5 cm long. Massive, non-magnetic, NVS. X-cut by 1mm wide QV.
632575	0.12	0.4	<0.1	Field notes include "Leucodiorite", "Maf. Volc Sed?". Dk green, with clasts of feldspar. Sub-angular, containing amphibole. Other clasts are biotitic. Massive(?) non-magnetic, no carbonate, NVS.
632576	<0.01	0.8	<0.1	Lg plag xls to 3x2 cm, with zonation (greenish or pink cores) Massive, non-magnetic. ?Float
632577	<0.01	0.6	<0.1	Grey, f-g. No carbonate, non-magnetic, NVS.
632578	<0.01	0.6	<0.1	F-g, massive, non-magnetic, carbonate veined to < 1mm wide.
632579	<0.01	0.3	<0.1	315/80 Foliated. F-g, feldspathic, x-cut by carbonate veining. Possible amphibole veining parallel to main fabric. Non-magnetic. NVS. Finely clastic?
632580	<0.01	0.3	<0.1	F-g, grey, locally magnetic. Massive, NVS. Chloritic?
632581	0.04	<0.1	<0.1	Grey metagabbro (act-plag) Non-magnetic, no carbonate. Plagioicase veined. At contact between gabbro & veins, coarse actinolite mineralisation noted.
632582	0.04	<0.1	0.4	Grey, no carbonate, wkly magnetic (localised). Quite mafic. Plagioclase veined. Trace py. Numeous QV. 3:1 flattening of plag. 330/68
632583	0.05	0.5	0.2	Wkly magnetic & localised. ?Same sample as 632582
632584	<0.01	<0.1	<0.1	Bte veined. Dk grey-green, NVS. Non-magnetic, no carbonate. Serpentinisation along/in veins with gt "or iron staining" Wkly tourmaliniferous? Quite massive.
632585	0.15	0.3	0.6	Plag-qz miineralised, w xls <1 mm diam. V wkly magnetic. NVS. Fine fabric noted or banding, with possible graded bedding.
632586	<0.01	0.8	0.3	Dk grey, non-magnetic, massive, with wk carbonate. Act-plag mineralised.
632587	<0.01	0.2	0.2	Spares blebby py. Dk grey-green, f-g. Close to mafic volcanic o/c (5 m away)
632588	0.05	0.2	<0.1	50:50 amphib-plag. X-cut by fel veining to 3mm. Locally, wkly magneticAcicular act to 3 mm (av). Chle &or bte mineralised on S-planes.
632589	0.07	<0.1	<0.1	Actinolitic, massive, no carbonate, NVS, bluish-dk grey on weathered surface. Quite mafic.
632590	<0.01	0.2	<0.1	300/75 fabric. Locally micaceous with irr fel veining. Grey-green. Relatively homogeneous save for crude banding. Non-magnetic
632591	<0.01	0.4	0.3	Mr plag veining. Amphib(act)-plag mineralised. Non-magnetic, no carbonate. Main fabric at 326/87
632593	<0.01	3.5	<0.1	Non-magnetic, f-g, green-grey. NVS. X-cut by fel veining. Quite massive
632595	<0.01	<0.1	0.2	Dk grey, non-magnetic, no carbonate. Sparse plag. Quite soft so chloritic?
632598	0.14	<0.1	0.3	Act-plag, no carbonate, NVS. Banded, dk grey, f-m-g.
632600	0.08	0.3	0.4	Gneissic banded, w <20% mafics. 125/30 fabric (late plunge) Late qz-cte-chl veining. Main fabric at 330/75
632404	<0.01	<0.1	<0.1	Coarse-grained amphibolite w/ a dk gn fresh and weathered surface, massive, non magnetic, no carbonate, no mineralization, <1% plag, actinolite crystals up to 1cm long, cross-cut by a vein of feldspar and quartz.
632405	<0.01	0.2	0.2	Medium-grained gabbro to melano-gabbro w/ dk gn fresh surface and gn weathered surface, 40% plag, 60% actinolite, no carb, non magnetic, no mineralization, massive, homogeneous.
632406	<0.01	0.2	0.2	Coarse-grained melano-gabbro to amphibolite w/ gn weathered suface and dk grey fresh surface, non magnetic, no carbonates, no mineralization, amph (trem or act) crystals up to 1cm long, <25% plag, 75% amph, massive.
632407	<0.01	<0.1	0.2	Medium-grained gabbro that is dk/ gy-gn on weathered surface and dk gy on fresh sruface, 50% plag and 50% actinolite, massive, non magnetic, no carbonates, no mineralization.
632410	<0.01	<0.1	0.2	Fine-grained mafic volcanic, md gn on weathered surface, dk gn on fresh surface, banded with alternating lighter and darker bands, qz-fs veins pll banding, carb veins cross-cut banding, banding oriented at 340/77.
632411	0.08	0.4	0.2	Fine-grained intermediate volcanic, no qz, non magnetic, no carbonates, no mineralization, alternating mafic and felsic bands.
632412	<0.01	0.2	0.4	Fine-grained mafic volcanic that is brown-gn on weathered surface and dk gn on fresh surface, mostly act+plag, bt-rich, non magnetic, no carbonate, no mineralization.
632414	<0.01	1.7	0.4	Fine to medium-grained gabbro, dk gy fresh surface and gn-white weathered surface, massive, non magnetic, no carbonate, 55% act, 45% plag, cross-cut by qz+fs veins up to 2cm wide.
632415	0.03	0.1	<0.1	Fine to locally medium-grained banded, platy and well foliated mafic volcanic, dk gy-gn fresh surface, dk gn weathered surface, variable amounts of act and plag, non magnetic, no mineralization, no carbonates, foliation 330/80 (measured off of line).

Station	Sample Number	Rock Type	Property	Easting	Northing	SiO2 (%)	Al2O3 (%)	CaO (%)	MgO (%)	Na2O (%)	K2O (%)	Fe2O3 (%)	MnO (%)	TiO2 (%)	P2O5 (%)	Cr2O3 (%)	LOI (%)	Sum (%)	Ag (ppm)	Ba (ppm)	Be (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cs (ppm)	Cu (ppm)
306	632416	Felsic Volcanic Crystal Tuff	Trout Bay	410822	5654952	73.3	14.2	2.96	1.49	1.28	2.91	2.07	0.05	0.21	0.07	0.02	1.5	100.1	<1	199	<0.5	0.2	28.3	3.3	3.4	7
312	632418	Mafic Volcanic	Trout Bay	411092	5655205	53.8	11.4	10.2	10.6	1.23	0.47	10.4	0.19	0.44	0.04	0.11	1.5	100.4	<1	60.2	<0.5	0.1	4.9	38	1.7	17
314	632419	Felsic Volcanic Crystal Tuff	Trout Bay	411040	5655115	72.7	14.3	2.48	1.58	0.91	3.15	2.47	0.06	0.232	0.06	0.02	2.15	100.2	<1	284	<0.5	<0.1	28	4.2	3	6
337	632420	Felsic Volcanic Crystal Tuff	Trout Bay	410862	5654980	73.6	13.9	2.52	1.88	0.73	2.96	2.33	0.05	0.235	0.07	0.01	2	100.2	<1	227	<0.5	0.2	34.6	2.3	3.6	55
346	632424	Intermediate Volcanic	Trout Bay	410852	5654984	49.1	14.7	9.77	8.23	2.23	0.29	13.4	0.2	0.798	0.06	0.04	1.3	100.2	<1	28.1	<0.5	0.1	5.3	40.5	1	88
347	632425	Felsic Volcanic Crystal Tuff	Trout Bay	410788	5655035	55.4	15	7.09	5.71	0.72	1.96	10.3	0.19	0.562	0.05	0.15	2.65	99.8	<1	219	<0.5	<0.1	8.5	46	3.2	86
356	632426	Mafic Volcanic	Middle Bay	416402	5653940	52.9	11	9.23	9.67	1.14	1.58	10.8	0.22	0.482	0.07	0.11	3.2	100.3	<1	254	<0.5	<0.1	4.5	31.9	2.5	86
378	632430	Intermediate Volcanic	Trout Bay	410478	5654658	49.6	19.3	12.2	4.12	1.92	0.56	10.4	0.37	0.519	0.02	0.07	0.95	100.1	<1	55.5	<0.5	<0.1	2.6	40.1	1.6	63
380	632431	Mafic Volcanic	Trout Bay	410430	5654713	48.9	16.8	11.9	9.25	1.67	0.26	9.9	0.15	0.458	0.03	0.06	0.7	100.2	<1	45.4	<0.5	<0.1	3.1	37.5	1.2	203
384	632433	Gabbro	Trout Bay	410431	5654929	46.4	17.3	11.5	8.84	1.47	0.95	9.57	0.12	0.514	0.04	0.02	3.3	100	<1	177	<0.5	<0.1	4.7	37.7	2.2	33
399	632434	Gabbro	Trout Bay	410463	5654954	49	16.2	11	7.23	1.74	0.68	12	0.19	0.793	0.06	0.07	1.1	100.1	<1	82.7	<0.5	<0.1	10.2	29.8	1.6	79
414	632436	Felsic Volcanic	Trout Bay	410660	5655119	64.5	20	2.41	0.5	7.13	2.47	1.15	0.05	0.106	0.05	0.01	1	99.4	<1	479	<0.5	0.7	56	1.3	1.3	17
417	632437	Mafic Volcanic	Trout Bay	410766	5655238	51.8	11.6	10.9	11.7	1.57	0.24	10.9	0.2	0.415	0.04	0.13	0.85	100.3	<1	27.1	<0.5	<0.1	4.2	36.8	1.6	8
459	632440	Mafic Volcanic	Trout Bay	411054	5655467	53.8	7.99	9.76	14.3	0.94	0.38	10.5	0.25	0.278	0.03	0.22	1.95	100.3	<1	54.3	1	<0.1	4.5	53.4	4.5	32
472	632441	Mafic Volcanic	Trout Bay	411106	5655527	50.6	8.06	11.1	15.5	0.7	0.21	11.3	0.21	0.296	0.02	0.37	1.85	100.2	<1	37.5	1.6	0.1	3	85.5	2.4	5
503	632444	Mafic Volcanic	Trout Bay	411309	5655867	54.1	9.26	9.62	12.5	1.68	0.12	10.9	0.2	0.353	0.04	0.16	1.65	100.6	<1	19.8	1.2	<0.1	3	55.8	1.3	13
525	632446	Metagabbro	Trout Bay	410145	5654912	47.5	15.7	9.98	7.98	2.33	0.79	13.5	0.17	1.212	0.1	0.04	0.75	100	<1	88.8	1.5	<0.1	9.5	49.4	3.9	42
528	632448	Mafic Volcanic	Trout Bay	410143	5655011	47.9	18	15.1	5.46	1.99	0.59	8.76	0.21	0.488	0.04	0.06	1.95	100.5	<1	46.3	1.2	<0.1	5	49.7	1.2	56
529	632449	Intermediate Volcanic	Trout Bay	410311	5654853	49.8	19.4	11.8	4.95	2.46	0.77	9.32	0.25	0.514	0.04	0.07	0.6	100	<1	198	1.5	<0.1	4	48	1.5	21
548	632450	Mafic Volcanic	Trout Bay	410241	5654897	46.9	17.8	11	10.3	1.68	0.33	9.82	0.16	0.515	0.03	0.06	1.45	100	<1	38.7	1.3	<0.1	3.7	53	1.8	31
555	632451	Mafic Volcanic	Trout Bay	410241	5654930	48.9	16.9	11.8	9.3	1.65	0.66	9.35	0.18	0.431	0.03	0.06	0.95	100.2	<1	52	<0.5	<0.1	3.1	43.3	1.9	24
566	632452	Intermediate Volcanic	Trout Bay	410196	5654946	49	15.7	13.5	7.84	1.99	0.41	9.73	0.26	0.458	0.03	0.05	0.9	99.9	<1	33.2	1.4	0.1	3.6	54.2	1	41
590	632453	Gabbro	Trout Bay	410282	5655119	47.4	21	11.6	4.99	2.17	1.27	9.15	0.14	0.539	0.04	0.02	1.7	100	<1	503	1	<0.1	5.9	36.9	2.2	22
591	632454	Mafic Volcanic	Trout Bay	410291	5655136	48.5	16.6	10.1	8.53	1.82	1.32	10.3	0.18	0.697	0.06	0.02	1.8	99.9	<1	653	1.7	0.1	6.8	41.7	2.5	<5
592	632455	Glomerophyric Gabbro	Trout Bay	410405	5655237	48	22	13	3.68	2.4	0.69	8.38	0.12	0.777	0.05	0.02	1.05	100.2	<1	319	1.1	<0.1	6.4	24.8	3.4	125
616	632478	Mafic Volcanic	Middle Bay	412897	5654277	53.5	8.81	12.4	9.11	0.93	0.46	7.84	0.45	0.363	0.05	0.2	5.7	99.9	<1	87.9	<0.5	<0.1	18.7	45	1.1	64
618	632480	Felsic Volcanic Crystal Tuff	Trout Bay	411693	5654713	71.9	14.7	2.19	1.43	1.99	3.72	2.14	0.03	0.24	0.06	0.02	1.6	100.1	<1	408	<0.5	<0.1	26.8	7.6	2.2	<5
643	632482	Gabbro	Middle Bay	412468	5654062	51.8	13.8	6.51	9.75	3.02	0.38	12.3	0.18	0.464	0.04	0.02	1.8	100	<1	135	<0.5	<0.1	4.2	48.8	1.8	65
644	632483	Gabbro	Middle Bay	412750	5653833	54.9	13.3	6.65	8.34	3.52	0.26	11	0.17	0.422	0.05	0.03	1.4	100.1	<1	87.5	<0.5	<0.1	3.1	41.2	1.2	20
647	632484	Felsic Volcanic Crystal Tuff	Middle Bay	412815	5654164	73.7	14.9	1.12	1.84	0.79	3.35	1.54	0.05	0.21	0.06	<0.01	2.65	100.1	<1	388	<0.5	<0.1	21.9	6.1	3.9	11
648	632485	Gabbro	Middle Bay	412928	5653758	53.2	14.1	8.66	8.15	3.15	0.09	11.2	0.19	0.412	0.04	0.03	1.1	100.2	<1	11.3	<0.5	<0.1	2.8	40.7	<0.1	71
652	632486	Intermediate Volcanic Tuff	Trout Bay	413710	5653461	51.2	14.8	7.14	9.52	3.41	0.2	11.2	0.14	0.452	0.04	0.03	2	100	<1	60.2	<0.5	0.2	2.8	50.3	0.4	63
654	632487	Intermediate Volcanic Tuff	Trout Bay	413811	5653432	51.9	14.6	5.86	8.83	3.03	0.21	13.1	0.15	0.603	0.06	0.02	1.8	100.1	<1	48.4	<0.5	<0.1	3.8	42.9	1	94
655	632488	Mafic Volcanic	Trout Bay	413996	5653329	47.2	17.1	8.09	9.32	3.06	0.35	12	0.17	0.424	0.03	0.03	2.35	100.1	<1	39.3	<0.5	<0.1	3.1	44.8	0.2	96
657	632489	Mafic Volcanic	Trout Bay	414087	5653100	55.6	13.2	6.33	8.72	3.4	0.12	10.9	0.16	0.523	0.05	0.01	1.1	100.1	<1	76.4	<0.5	<0.1	3.7	39.3	0.3	78
658	632490	Mafic Volcanic	Trout Bay	414516	5652777	52.2	14.1	8.4	7.73	3.75	0.1	12.2	0.2	0.483	0.05	<0.01	0.8	100.1	<1	43.5	1.4	<0.1	4.4	41.7	<0.1	100
669	632491	Mafic Volcanic	Trout Bay	409795	5656423	54.1	13.4	9.84	7.36	1.68	0.81	10.8	0.23	0.52	0.04	0.12	1.3	100.2	<1	235	<0.5	0.2	6.4	45	2.9	37
669	632492	Felsic Volcanic Crystal Tuff	Trout Bay	409795	5656423	71.3	14.9	2.99	1.56	3.29	2.15	2.42	0.03	0.288	0.06	0.01	1.15	100.1	<1	330	<0.5	0.1	17.6	7	3.1	14
719	632493	Felsic Volcanic Crystal Tuff	Trout Bay	410199	5656149	74.2	13.8	2.09	1.43	0.85	2.95	2.65	0.06	0.245	0.06	0.02	1.85	100.2	<1	284	<0.5	0.3	23.3	4.8	3.9	6
719	632494	Mafic Volcanic	Trout Bay	410199	5656149	50	14.2	9.53	8.03	1.79	0.48	13.8	0.24	0.815	0.07	0.04	1.5	100.5	<1	40.2	<0.5	<0.1	4.7	52	2.2	150
731	632498	Mafic Volcanic	Trout Bay	414727	5652913	53.4	14	6.95	8.55	3.45	0.14	11.6	0.19	0.435	0.04	0.03	1.3	100.1	<1	17.7	<0.5	0.1	3.7	51.2	0.3	61
739	632502	Argillite	Trout Bay	415806	5653510	67.2	16.4	2.15	1.96	1.19	2.49	5.46	0.26	0.373	0.18	0.01	2.5	100.2	<1	430	<0.5	0.1	74.7	5	2.9	<5
741	632503	Mafic Volcanic	Trout Bay	415896	5653533	47.3	3.88	14.8	18.3	0.21	0.1	7.8	0.2	0.269	0.01	0.43	6.35	99.6	<1	13.3	<0.5	0.1	1.6	53	0.3	7
742	632504	Mafic Volcanic	Trout Bay	416053	5653546	54.4	12.1	10.2	6	1.83	1.09	9.44	0.18	0.645	0.28	0.04	4.2	100.5	<1	123	<0.5	<0.1	95.3	39.2	18.3	76
743	632505	Gabbro	Trout Bay	416305	5653491	37.9	2.25	4.16	30	<0.01	0.05	11	0.18	0.133	<0.01	0.43	14.4	100.4	<1	12	<0.5	0.2	1.4	114	0.3	15
744	632506	Intermediate Volcanic	Trout Bay	416638	5653473	64.8	14.6	5.06	3.18	0.66	3.55	4.71	0.06	0.469	0.18	0.02	2.7	100	<1	390	<0.5	0.3	32.9	10.3	4	9

Sample Number	Dy (ppm)	Er (ppm)	Eu (ppm)	Ga (ppm)	Gd (ppm)	Hf (ppm)	Ho (ppm)	La (ppm)	Lu (ppm)	Mo (ppm)	Nb (ppm)	Nd (ppm)	Ni (ppm)	Pb (ppm)	Pr (ppm)	Rb (ppm)	Sm (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Tb (ppm)	Th (ppm)	Tl (ppm)	Tm (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Yb (ppm)	Zn (ppm)	Zr (ppm)
632416	0.5	0.3	0.5	15	0.9	3	0.1	16.3	<0.05	2	2	9.7	8	6	3.2	81.4	1.6	<1	118	<0.5	0.1	4.4	<0.5	<0.1	1.2	26	2	3	0.3	22	113
632418	2.1	1.5	0.4	9	1.7	<1	0.5	2.4	0.18	<2	1	3	123	5	0.8	17.7	1	<1	149	<0.5	0.3	0.7	<0.5	0.2	<0.1	140	6	11	1.3	72	29
632419	0.4	0.1	0.4	14	1	3	<0.1	16.8	<0.05	<2	3	8.6	8	5	3.2	83.2	1.1	<1	67.1	<0.5	<0.1	5.6	<0.5	<0.1	1	25	2	3	0.2	30	117
632420	0.5	0.2	0.5	14	1.1	3	0.1	20.4	<0.05	<2	3	11.6	13	7	3.9	77.3	1.9	2	60.9	<0.5	0.2	5.4	<0.5	<0.1	0.9	25	3	3	0.2	32	119
632424	3	1.6	0.5	14	2.2	1	0.5	2.3	0.23	<2	2	4.4	161	47	0.8	5.1	1.6	1	123	<0.5	0.4	0.2	<0.5	0.3	<0.1	245	<1	14	1.8	113	34.5
632425	2.5	1.6	0.5	14	2	<1	0.5	4.3	0.26	<2	2	5.2	185	13	1	48.7	1.6	1	181	<0.5	0.4	0.7	<0.5	0.2	0.2	225	5	12	1.5	74	38.5
632426	1.7	1	0.5	10	1.4	<1	0.3	2.4	0.18	<2	1	3.2	169	<5	0.7	59.8	1.3	<1	82.1	<0.5	0.3	0.4	<0.5	0.1	0.1	174	3	9	1.3	94	25.2
632430	1.1	1.1	0.2	14	1.1	<1	0.3	1	0.16	<2	<1	1.9	206	5	0.3	13.2	0.6	<1	86.2	<0.5	0.2	0.1	<0.5	0.2	<0.1	165	<1	7	1.1	60	20.1
632431	1.6	1.1	0.3	13	1.4	<1	0.3	1.3	0.13	<2	<1	3.1	216	5	0.4	5.4	1.3	<1	96.1	<0.5	0.2	0.2	<0.5	0.2	<0.1	147	<1	8	0.8	53	19.5
632433	1.1	1	0.4	13	1.4	<1	0.4	2	0.17	<2	1	3.9	241	5	0.6	21	1	<1	77.4	<0.5	0.2	0.2	<0.5	0.1	<0.1	129	1	8	1.1	69	23.5
632434	2.7	1.5	0.5	16	2.9	<1	0.5	4.6	0.29	2	2	7.7	82	5	1.4	12.8	1.7	1	134	<0.5	0.4	0.2	<0.5	0.2	<0.1	209	<1	15	1.9	75	38.1
632436	1	0.6	0.7	17	1.6	3	0.2	28.5	0.11	<2	4	15.9	8	11	5	51.8	2.2	1	293	<0.5	0.2	10.7	<0.5	0.1	6.6	19	1	5	0.7	66	76.8
632437	1.9	1.6	0.3	10	1.2	1	0.4	2	0.17	<2	1	3	177	<5	0.5	5.3	1.2	<1	94.2	<0.5	0.2	0.5	<0.5	0.2	0.2	171	<1	10	1.2	72	26
632440	1.3	0.9	0.2	9	0.9	<1	0.2	2.4	0.13	<2	1	2.3	469	<5	0.5	14.7	0.6	<1	97.2	<0.5	0.1	0.7	<0.5	0.1	0.1	157	<1	7	0.9	90	22.4
632441	1.2	0.8	0.2	8	1	<1	0.2	1.3	0.13	<2	1	1.9	512	<5	0.4	6.6	0.5	3	64.1	<0.5	0.1	0.7	<0.5	<0.1	0.1	175	<1	7	0.8	97	22.9
632444	1.6	1.1	0.4	9	1.2	1	0.3	1.1	0.16	<2	2	1.9	242	<5	0.4	3.4	0.7	<1	72	<0.5	0.2	0.9	<0.5	0.1	0.2	187	<1	8	0.9	75	41.3
632446	3.9	2.3	0.9	17	3.5	2	0.8	3.5	0.37	<2	5	8	136	<5	1.5	32.5	2.5	<1	164	<0.5	0.5	0.8	<0.5	0.3	0.1	316	<1	19	2.2	103	66
632448	2	1.2	0.5	13	1.5	<1	0.4	2.3	0.17	<2	2	3.5	190	6	0.7	13.6	1.1	<1	157	<0.5	0.2	0.5	<0.5	0.1	<0.1	179	<1	9	1.1	64	23.8
632449	1.9	1.3	0.4	14	1.5	<1	0.4	1.5	0.2	<2	2	3.1	190	<5	0.6	25.5	1	<1	63.7	<0.5	0.3	0.7	<0.5	0.1	<0.1	176	<1	9	1.2	61	25
632450	2	1.3	0.4	12	1.7	<1	0.4	1.4	0.19	<2	2	3	206	6	0.5	10	1	<1	98.7	<0.5	0.2	0.7	<0.5	0.2	<0.1	174	<1	9	1.2	55	24.5
632451	1.6	1	0.4	12	1.3	<1	0.3	1.2	0.18	<2	2	2.5	168	7	0.5	20.5	0.8	<1	113	<0.5	0.2	0.6	<0.5	0.1	<0.1	146	<1	8	1.1	61	19.9
632452	1.7	1	0.3	12	1.5	<1	0.3	1.3	0.19	5	1	3	184	13	0.5	9.6	1	<1	242	<0.5	0.3	0.6	<0.5	0.1	<0.1	149	1	8	1.1	102	22.5
632453	2	1.3	0.5	15	1.8	1	0.4	2.4	0.22	4	2	4.2	104	<5	0.8	40.1	1.3	<1	126	<0.5	0.3	0.8	<0.5	0.2	<0.1	160	1	10	1.3	55	28.9
632454	2.7	1.8	0.6	13	2.3	1	0.6	2.7	0.29	<2	2	5.2	178	<5	1	48.5	1.7	<1	105	<0.5	0.4	0.5	<0.5	0.3	<0.1	184	<1	15	1.8	75	38.4
632455	2.5	1.6	0.7	16	2.3	1	0.5	2.6	0.27	<2	2	4.8	44	6	1	17.9	1.6	<1	172	<0.5	0.4	0.6	<0.5	0.2	0.1	179	<1	13	1.6	46	36.1
632478	1.4	0.8	0.7	8	1.8	2	0.3	10.4	0.12	2	4	9.1	243	16	2.3	15.2	1.6	<1	211	0.5	0.3	1.6	<0.5	0.1	0.5	112	8	8	0.9	66	76.1
632480	0.8	0.3	0.5	18	1.4	3	<0.1	16.8	<0.05	<2	6	10	11	6	2.9	89	1.5	3	120	1	0.2	5.2	<0.5	<0.1	1.1	30	2	3	0.2	9	132
632482	2	1.4	0.4	11	1.4	<1	0.4	1.8	0.25	<2	2	2.8	92	<5	0.6	10.4	0.9	4	67.7	<0.5	0.3	0.7	<0.5	0.2	<0.1	237	<1	12	1.6	112	28.9
632483	2	1.5	0.3	11	1.5	<1	0.4	1.3	0.21	<2	2	2	82	<5	0.4	7.6	0.8	5	63.1	<0.5	0.3	0.6	<0.5	0.2	<0.1	209	<1	12	1.4	79	27.8
632484	0.8	0.4	0.5	17	1.3	3	<0.1	12.9	<0.05	3	6	7.7	17	<5	2.2	91.2	1.4	8	66.9	1.1	0.2	8	<0.5	<0.1	2.4	21	3	3	0.3	<5	114
632485	2	1.5	0.3	9	1.3	<1	0.4	1.2	0.22	<2	1	1.9	87	8	0.4	1	0.7	<1	125	<0.5	0.2	0.7	<0.5	0.2	0.1	203	<1	11	1.4	42	24.5
632486	2	1.4	0.3	11	1.3	<1	0.4	2	0.2	<2	1	2.2	134	14	0.4	3.6	0.8	8	82.5	<0.5	0.3	0.8	<0.5	0.2	0.1	192	<1	10	1.4	69	28.2
632487	2.9	2.1	0.4	12	1.9	1	0.6	1.6	0.34	<2	2	2.7	94	<5	0.5	6.3	1	3	70.9	<0.5	0.4	1.1	<0.5	0.3	0.2	227	<1	17	2	60	50.6
632488	1.9	1.4	0.3	12	1.4	<1	0.4	1.5	0.25	<2	1	2.3	90	<5	0.4	2.9	1	8	101	<0.5	0.3	0.7	<0.5	0.2	<0.1	232	<1	11	1.5	49	22.6
632489	2.7	1.5	0.4	10	1.7	1	0.4	1.5	0.28	<2	3	2.4	95	<5	0.4	1.9	1.1	11	109	<0.5	0.3	0.8	<0.5	0.2	0.1	213	<1	14	1.6	61	44.1
632490	2.4	1.6	0.3	10	1.7	<1	0.5	2.1	0.29	<2	2	3	69	12	0.6	0.9	1	3	75	<0.5	0.3	0.7	<0.5	0.2	0.1	230	<1	14	1.7	144	31.4
632491	2.3	1.4	0.4	12	1.7	1	0.5	2.8	0.27	<2	2	3.8	184	16	0.9	31.2	1	6	110	<0.5	0.3	0.4	<0.5	0.2	0.1	265	2	13	1.5	92	40
632492	0.5	0.3	0.3	18	1	3	<0.1	9.4	<0.05	<2	4	5.6	24	15	1.7	51.1	1	5	141	<0.5	<0.1	4.3	<0.5	<0.1	0.7	35	2	3	0.3	27	127
632493	0.7	0.3	0.4	17	1.2	3	<0.1	13.6	<0.05	<2	4	8	<5	22	2.3	75.2	1.4	8	81.2	<0.5	0.1	4.2	<0.5	<0.1	1	27	5	3	0.2	162	138
632494	3.1	2	0.7	16	2.5	1	0.6	1.9	0.32	<2	3	3.9	121	10	0.7	12.2	1.6	11	126	<0.5	0.4	0.2	<0.5	0.3	<0.1	318	<1	17	2	137	46.2
632498	1.8	1.2	0.4	11	1.2	<1	0.4	1.5	0.21	<2	2	2.5	104	9	0.4	1.6	0.9	9	131	<0.5	0.2	0.2	<0.5	0.2	<0.1	256	4	12	1.5	100	30
632502	1.8	1.2	1.2	18	3.4	4	0.3	37.8	0.17	<2	5	30	<5	13	8.8	88.4	4.4	6	141	<0.5	0.3	10.2	<0.5	0.1	2.3	32	8	10	1	94	147
632503	1.1	0.7	0.3	4	1	<1	0.2	0.6	0.11	<2	<1	1.2	328	<5	0.2	1.1	0.6	9	27	<0.5	0.1	<0.1	<0.5	<0.1	<0.1	165	2	6	0.6	56	10.8
632504	3	1.5	2.1	12	5.3	3	0.5	44.5	0.18	<2	3	41.5	88	11	11.4	56.4	6.9	3	344	<0.5	0.6	11	<0.5	0.2	2.2	173	1	14	1.3	103	107
632505	0.4	0.3	<0.1	3	0.4	<1	<0.1	0.7	<0.05	<2	<1	0.8	1490	<5	<0.2	0.8	0.3	3	14.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	68	2	2	0.2	81	5.2
632506	1.5	0.8	0.9	15	2.3	3	0.2	18.8	0.1	<2	5	13.4	37	7	3.8	107	2.6	1	64.6	0.6	0.2	5.2	0.5	<0.1	1.6	66	2	7	0.6	77	114

Sample Number	S (%)	As (ppm)	Se (ppm)	Description
632416	<0.01	0.1	<0.1	Felsic volcanic crystal tuff, lt gy to beige weathered surface, lt to md gy fresh surface, rounded qz eyes 0.5-1mm in size, rounded plag up to 1mm, no mafic minerals, no mineralization.
632418	<0.01	0.3	<0.1	Fine to medium grained mafic volcanic, act+plag, non magnetic, no carbonate, no mineralization, well foliated, cross-cut by qz+fs veins.
632419	<0.01	0.2	<0.1	Felsic volcanic crystal tuff, brown weathered surface, gy fresh surface, <2% qz eyes, no mineralization, non magnetic, no carbonate, similar to other fvct seen in the area.
632420	<0.01	0.2	<0.1	Medium grained felsic volcanic crystal tuff, plag+qz, 10% ~1mm qz eyes, no mineralization, no carb, non magnetic, S2=315/76, kink bands (sinistral)=280/65, crenulation on foliation plane=315@40, large qz veins, rock has greenish appearance due to chl?
632424	0.05	0.5	0.4	Fine-grained intermediate volcanic, dk gy weathered surface, gy fresh surface, 75% act, 25% plag, non magnetic, no carbonates, no mineralization, plag "banding"=330/78.
632425	0.22	0.5	0.6	Medium-grained felsic volcanic xtl tuff, no qtz eyes, mostly plag, non magnetic, disseminated py, some mafic minerals locally creating sm bands up to 1cm wide, lt gy fresh surface.
632426	0.11	0.1	0.6	Fine-grained mafic volcanic w/ minor amounts of po locally, dk gy weathered and fresh surface, minor carb, very crumbly and weakly foliated, cross-cut by qtz veins.
632430	<0.01	0.4	0.5	Fine-grained intermediate volcanic (dk gn fresh surface) w/ amph, plag and bt, non magnetic, no carb, no mineralization, massive, cross-cut by qz veins.
632431	0.07	0.3	0.7	Fine-grained mafic volcanic that is med gn on weathered surface and gy on fresh surface, massive, mostly act with plag, cross-cut by qz veins, more felsic bands locally, no carb, no magnetic, no mineralization.
632433	<0.01	0.3	0.3	Medium to coarse grained gabbro, dk gy fresh surface, dk gy weathered surface, 50% plag, 50% act, non magnetic, no mineralization, minor carb as veins.
632434	<0.01	0.5	0.2	Coarse grained gabbro (act up to 0.5mm long), non magnetic, no mineralization, no carb, cross-cut by qz and qz+fs veins, 60% act, 40% plag (fine-grained), massive.
632436	<0.01	0.2	0.2	Possible boulder of very fine-grained felsic volcanic, probably a welded tuff, fabric=290/87, lt cream gy on weathered surface, lt gy on fresh, some <0.5mm qz eyes, no xtls, non mag, no carb, no min, x-cut by qz veins, brown/orange rust spots from bt?
632437	<0.01	0.1	0.2	Fine-grained mafic volcanic, no mineralization, no carb, non magnetic, med gn on weathered surface, gy-gn on fresh surface, some spots have more plag.
632440	0.05	0.3	<0.1	Medium-grained mafic volcanic at cntct with a felsic volcanic xtl tuff, lcl weakly magnetic (due to po? b/c some rusty wthrng), amph up to 2mm long and 0.5mm wide, plag, bt, no carb, well foliated=345/88, dk gn f srfc, med gn w srfc, cntct pll to fabric.
632441	<0.01	0.5	<0.1	Mgr mafic volcanic, md gn wthrd srfc, dk gy-gn f srfc, amph-rich (act) 2mm long 0.5mm wide and bladed, plag not very visible, non magnetic, no carb, no mineralization, fabric=350/70.
632444	<0.01	<0.1	0.2	Fgr to mgr mafic volcanic w/ a md to lt gn w srfc, fabric=325/85, soft, act+mica+chl &/or serp?, x-cut lcl by qz+fs veins, no mineralization, non magnetic, no carb, mica layers appear crenulated.
632446	<0.01	0.1	<0.1	Cgr meta-gabbro, dk gy-gn f srfc, dk gn w srfc, no carb, non magnetic, no mineralization, act xtls up to 5mm long, not much plag (difficult to see), fabric=144/85 (varying dip).
632448	<0.01	0.1	<0.1	Fgr to mgr mafic volcanic, non magnetic, no mineralization, no carb, x-cut by 1-2mm wide qz+fs veins, fabric=335/74.
632449	<0.01	0.1	0.1	Banded intermediate volcanic, non magnetic, no carb, no mineralization, dk gy f srfc, buff gy w srfc, act+plag, heterogeneous, alternating mafic-rich and felsic-rich bands.
632450	<0.01	<0.1	<0.1	Banded fgr mafic volcanic, dk gy-gn on w srfc, dk gy on f srfc, non magnetic, no carb, no mineralization, banding=330/84, x-cut by qz+fs veins.
632451	<0.01	<0.1	<0.1	Fgr mafic volcanic, dk gn w srfc, dk gy f srfc, no carb, non magnetic, no mineralization, x-cut by ~1m wide qz+fs vein.
632452	<0.01	0.1	<0.1	Fgr intermediate volcanic, lt gy w srfc, dk gy f srfc, non magnetic, no mineralization, rich in carbonate (disseminated and in 1mm veins), plag+act, some coarse cc+ep?
632453	<0.01	0.3	<0.1	Gabbro with cgr (up to 1.5 cm long) plag xtls and fgr act xtls, dk gy f srfc, lt gy w srfc, no mineralization, no carb, non magnetic, looks glomerophyric but not exactly.
632454	<0.01	<0.1	0.1	Banded Int.-Mafic Volcanic? F-g, act-plag mineralised. Green-gre/pale grey banded. Unmineralised
632455	0.05	0.2	0.3	Glomerophyric gabbro, w. c-g plagioclase to 1/1.5 cm diam. Matrix is actinolite-plag, with latter predominant.
632478	0.08	2.6	<0.1	Altered mafic volcanic with pervasive carbonate & sparse, fine diss ?py. Med grained, bluish grey on fresh surface.
632480	0.08	0.5	<0.1	M-g felsic volcanic xl tuff. Feldspathic, with 15 qz eyes. No carbonate no visible 'mafic minerals'. Sulphides not observed.
632482	<0.01	0.2	<0.1	M-g, med green, weathered surface, & grey on fresh. Soft, probably chloritic, poss serpentine & 'some micaceous mineral'. Non-magnetic, nil carbonate, no sulphides. Previously mapped as gabbro.
632483	<0.01	0.1	<0.1	M-g feldspar-actinolitic, non-magnetic, nil carbonate, grey-green. Mr cte veining.
632484	0.07	0.7	<0.1	Felsic volcanic xl tuff. No qz eyes, non-magnetic, nil carbonate, with to 2 mm wide QV. Well defined S2. Locally, weakly magnetic.
632485	0.05	1	0.3	Feldspar-actinolitic, (40:60). M-g. No sulphides noted. Mr carbonate. X-cutting QV to 10 cm wide.
632486	0.01	0.5	0.2	Feldspar-actinolitic, with latter to 3 mm long. Sample contains micas &/or chl. Looks like a f-g gabbro. Strike: 342/62 (S2)
632487	<0.01	0.2	<0.1	Tuffaceous, with well-developed fabric. Med grey, with acicular amphibole in near-rosette form/radiating. No lithic fragments, no carbonate, no sulphides with mr x-cutting QV.
632488	<0.01	0.2	0.1	Grey-green, no sulphides, no carbonate save for Qz-cte veining. Plag-actinolitic (20:80) (?)
632489	<0.01	<0.1	0.1	Dk green, non-magnetic, no sulphides, sparse veining. No carbonate. Actinolite-feldspathic. Appears banded.
632490	0.03	<0.1	0.1	Appears like a f-g gabbro, with well defined xls on weathered surface. Massive, no carbonate, no sulphides. Actinolite to 2 mm Overall, 60:40 act;plag. Mt QV to 10cm.
632491	0.04	0.3	0.2	?Mafic volcanic. Dk green, actinolite-bte>>plag. Well defined S2. Non-magnetic, no carbonate.
632492	<0.01	0.3	0.1	Xl tuff. Non-magnetic, no carbonate. Sparse diss py to <0.5 mm diam. Med grey-green fresh, buff white-orange on weathered.... Well developed S2.
632493	<0.01	0.3	0.1	Dk green, no sulphides, no carbonate, non-magnetic, weakly lineated, fine grained.
632494	<0.01	0.6	0.3	Contact between preceding & a felsic xl tuff (following sample)
632498	<0.01	0.5	0.3	M-g, dk grey, mr cte veining. Non-magnetic, nil sulphides. Act-plag mineralised, with variable composition. Generally massive. Metagabbroic.
632502	<0.01	2	0.3	Med grey, weathered, dk grey, fresh. Non-magnetic, nil sulphides, with sparse, localised carbonate. Matrix not determined, or textures.
632503	<0.01	0.2	0.2	?Actinolitic, m-g. Dk green. O/c also exposes chert-magnetite IF. No sulphides.
632504	<0.01	1.2	0.3	Actinolite-feldspathic, with abundant carbonate (unclassified). Non-magnetic. Mr diss py.
632505	<0.01	3.6	0.2	Galena ls. M-g gabbro. Grey Act-plagioclse mineralised, massive, magnetic, with localised, pervasive calcite alteration. X-cut by ?calc-silicates in cte-qv.
632506	<0.01	0.6	<0.1	Act-plag mineralised with indeterminate %ages. X-cut by numerous Fe-carbonate veins. Dk grey. Non-magnetic, nil sulphides.

Station	Sample Number	Rock Type	Property	Easting	Northing	SiO2 (%)	Al2O3 (%)	CaO (%)	MgO (%)	Na2O (%)	K2O (%)	Fe2O3 (%)	MnO (%)	TiO2 (%)	P2O5 (%)	Cr2O3 (%)	LOI (%)	Sum (%)	Ag (ppm)	Ba (ppm)	Be (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cs (ppm)	Cu (ppm)
746	632507	Felsic Volcanic Lapilli Tuff	Trout Bay	416341	5653326	72.1	15.4	1.82	1.4	0.39	4.21	1.8	0.05	0.231	0.06	<0.01	2.6	100	<1	346	<0.5	0.3	26.9	5.2	1.1	<5
751	632509	Gabbro	Trout Bay	416057	5652986	48.5	4.88	7.88	23.4	0.06	0.05	9.55	0.16	0.153	0.02	0.51	5.05	100.3	<1	19.4	<0.5	0.2	1	82.7	0.4	66
752	632510	Mafic Volcanic	Trout Bay	415793	5653033	39.2	6.25	13.8	17.6	0.2	0.42	10.3	0.27	0.233	0.02	0.32	11.5	100.2	<1	174	<0.5	0.1	6.2	63.9	0.4	17
753	632511	Gabbro	Trout Bay	415903	5653026	32.4	10.7	16.6	14.2	0.49	0.09	12.4	0.28	0.358	0.03	0.56	12.2	100.3	<1	22	<0.5	0.1	3.1	101	0.2	25
754	632512	Gabbro	Trout Bay	416158	5653234	40.4	9.82	6.04	21.7	0.14	0.05	14.1	0.24	0.387	0.03	0.51	6.65	100.2	<1	6.1	<0.5	0.2	2.3	82.3	0.6	<5
755	632513	Gabbro	Trout Bay	416298	5653079	44	7.75	6.69	23.5	0.06	0.05	10.8	0.18	0.204	0.04	0.36	6.55	100.2	<1	6.3	<0.5	0.2	1	69.9	0.2	<5
759	632514	Mafic Volcanic	Trout Bay	416339	5652983	47.2	6.08	7.78	22.6	0.05	0.04	10.6	0.18	0.231	<0.01	0.51	5	100.2	<1	8.5	0.6	0.2	1.4	83.6	0.3	8
765	632516	Felsic Volcanic Welded Tuff	Trout Bay	416791	5653162	69.9	15.1	1.01	1.33	8.09	0.21	1.73	0.02	0.227	0.06	0.01	1.1	98.8	<1	13.8	2	0.2	24.2	3.2	<0.1	5
766	632517	Gabbro	Trout Bay	416827	5653144	48	4.16	4.93	24.4	0.04	0.03	9.67	0.16	0.141	<0.01	0.62	8.1	100.3	<1	7.3	1.2	0.1	2.5	85.1	<0.1	15
768	632518	Amphibolite	Middle Bay	416384	5654647	41.4	7.85	9.18	13.3	<0.01	0.04	10.9	0.17	0.292	0.02	0.35	16.8	100.3	<1	7.8	<0.5	0.3	9.4	55.1	0.2	924
770	632519	Mafic Volcanic	Middle Bay	416280	5654613	21.6	2.57	18	20.4	<0.01	0.08	8.19	0.34	0.088	0.03	0.33	28.8	100.4	<1	5.6	1.7	0.1	12	65.2	<0.1	10
771	632520	Felsic Volcanic Crystal Tuff	Middle Bay	416208	5654493	75	13.8	1.46	1.71	0.9	3.1	1.53	0.02	0.143	0.03	0.01	2.3	100.1	<1	490	0.5	0.3	27.9	3.6	4.3	5
773	632521	Intermediate Volcanic Crystal Tuff	Middle Bay	415796	5654723	32	4.99	15.5	14	<0.01	0.08	8.2	0.26	0.241	<0.01	0.44	24.7	100.4	<1	11.7	2.3	0.2	6.1	91.5	0.4	<5
774	632522	Felsic Volcanic Crystal Tuff	Trout Bay	409920	5656520	72.4	14.4	1.8	0.61	4.85	2	1.79	0.02	0.224	0.06	0.02	1.9	100.1	<1	600	<0.5	<0.1	32.5	3.1	3.4	6
805	632523	Felsic Volcanic Crystal Tuff	Trout Bay	410027	5656603	70.7	15	2.93	1.43	3.69	2.09	2.66	0.03	0.295	0.08	0.02	1.1	100	<1	279	<0.5	<0.1	37.8	4	3.4	<5
881	632524	Mafic Volcanic Tuff	Trout Bay	410092	5656549	49.6	14.5	10.5	7.86	1.71	0.55	13	0.2	0.694	0.05	0.06	1.5	100.2	<1	41.6	<0.5	0.3	5.4	48.6	1.1	129
966	632525	Felsic Volcanic Crystal Tuff	Trout Bay	410601	5656511	71.3	15.3	1.69	1.38	4.66	1.64	2.22	0.04	0.276	0.06	0.02	1.55	100.1	<1	237	2.7	<0.1	24.5	5.1	2.5	11
998	632526	Mafic Volcanic	Trout Bay	410418	5656308	55.6	13.7	11.4	6.8	1.31	0.16	9.56	0.17	0.557	0.06	0.03	0.9	100.2	<1	21.5	<0.5	0.1	11.2	31.1	1.2	22
001	632527	Mafic Volcanic Tuff	Trout Bay	411371	5655922	51.7	8.31	9.01	15	0.25	0.57	12.2	0.19	0.328	0.04	0.2	2.45	100.3	<1	32.7	<0.5	0.3	6.9	60	5.7	<5
002	632528	Gabbro	Trout Bay	416783	5649111	38.3	2.82	0.5	34.1	<0.01	0.03	9.82	0.12	0.117	<0.01	1.25	13.4	100.4	<1	18.7	<0.5	0.2	3.4	113	0.3	11
066	632531	Gabbro	Trout Bay	411174	5655888	52.9	11.9	8.78	10.7	2.54	0.15	11	0.19	0.441	0.03	0.11	1.25	100.1	<1	32.4	<0.5	0.1	6.3	42	0.5	29
074	632533	Serpentinite	Trout Bay	414126	5654453	36.1	1.72	1.69	33.4	0.02	0.04	8.07	0.12	0.073	<0.01	0.32	18.7	100.2	<1	2.6	4.8	0.2	1.4	83.3	0.1	<5
075	632535	Intermediate Volcanic Crystal Tuff	Middle Bay	414142	5654589	76	12.2	0.11	1.28	0.35	2.99	4.63	0.03	0.234	0.04	0.01	2.25	100.1	<1	254	<0.5	0.2	27.9	4.6	4.2	29
077	632536	Felsic Volcanic Crystal Tuff	Middle Bay	414194	5654632	71.1	14.8	1.85	1.86	0.45	4	3.11	0.09	0.263	0.07	<0.01	2.55	100.1	<1	520	1.3	0.2	32.1	7.6	7.7	<5
111	632542	Peridotite	Pipestone Bay	415590	5656645	34.3	0.3	1.34	38.8	<0.01	0.04	7.89	0.14	0.019	<0.01	0.33	17.3	100.4	<1	6.5	<0.5	<0.1	0.3	137	<0.1	<5
112	632543	Peridotite	Pipestone Bay	415743	5656668	35.4	0.53	3.23	37.3	<0.01	0.03	8.05	0.12	0.028	<0.01	0.23	15.4	100.2	<1	6.4	<0.5	0.2	0.3	149	<0.1	7
112	632544	Peridotite	Pipestone Bay	415743	5656668	35.6	0.23	4.06	36.2	<0.01	0.03	7.02	0.08	0.021	<0.01	0.24	16.9	100.3	<1	12.4	<0.5	<0.1	0.2	131	<0.1	<5
113	632545	Mafic Volcanic	Middle Bay	415876	5655669	41.7	1.1	7.99	27	<0.01	0.03	5.64	0.26	0.085	<0.01	0.17	16.1	100.1	<1	5.1	<0.5	0.1	1.9	90.6	<0.1	<5
120	656402	Peridotite	Pipestone Bay	414227	5656509	38.7	1.08	0.05	37.6	<0.01	0.03	9.77	0.12	0.045	<0.01	0.39	12.5	100.2	<1	12.8	<0.5	0.1	1.8	145	0.4	<5
121	656403	Peridotite	Pipestone Bay	414046	5656542	40.1	1.94	1.82	31.7	<0.01	0.03	7.65	0.09	0.088	<0.01	0.25	16.6	100.2	<1	6.2	<0.5	0.2	1.7	107	<0.1	<5
122	656404	Peridotite	Pipestone Bay	413744	5656676	55.2	14.2	7.76	5.93	3.04	0.29	11	0.18	0.465	0.07	0.02	0.9	99	<1	43.6	<0.5	0.1	14.5	48.5	0.3	11
124	656406	Peridotite	Pipestone Bay	413585	5657466	29	0.05	14.5	25.6	<0.01	0.03	6.26	0.17	0.012	<0.01	0.32	24.7	100.6	<1	9.3	<0.5	0.3	0.7	126	<0.1	13
128	656407	Felsic Volcanic	Trout Bay	416886	5652938	45.3	15.1	7.94	7.01	1.17	0.48	21.9	0.5	0.719	0.06	0.06	0.2	100.4	<1	54	<0.5	0.2	5.2	60.4	2.5	151
130	656408	Intermediate Volcanic	Trout Bay	416875	5652958	55.4	16.4	8.21	3.88	2.69	1.07	10.2	0.29	0.871	0.07	0.05	0.75	99.8	<1	122	<0.5	0.2	6.5	50.6	1.8	176
344	656409	Serpentinite	Pipestone Bay	416360	5657405	21.9	0.11	7.44	33.2	<0.01	0.03	6.3	0.18	0.011	<0.01	0.39	31	100.5	<1	12.9	<0.5	0.3	0.5	93.7	<0.1	10
345	656410	Intermediate Volcanic	Pipestone Bay	416784	5656173	31.5	0.1	<0.01	36	<0.01	0.02	7.91	0.09	0.02	<0.01	0.47	24.2	100.3	<1	8.7	<0.5	0.2	0.5	140	<0.1	<5
346	656411	Serpentinite	Pipestone Bay	416877	5656009	34.7	0.34	0.18	34.1	<0.01	0.03	9.19	0.09	0.021	<0.01	0.48	21.2	100.4	<1	1.5	<0.5	<0.1	0.3	114	<0.1	<5
347	656412	Serpentinite	Pipestone Bay	416781	5655909	31.4	0.43	0.07	35.2	<0.01	0.03	9.02	0.11	0.022	<0.01	0.67	23.6	100.6	<1	17.8	<0.5	0.1	0.3	133	<0.1	<5
349	656413	Felsic Volcanic Crystal Tuff	Middle Bay	416375	5653828	54	6.02	10.8	6.66	0.34	0.65	5.13	0.29	0.501	0.05	1.31	14.5	100.3	<1	129	<0.5	0.1	13.9	74.1	1.3	84
350	656414	Felsic Volcanic Tuff	Middle Bay	416378	5653865	74.3	15.5	1.12	1.35	1.3	2.8	1.61	0.03	0.148	0.06	0.01	1.9	100.1	<1	464	1.3	<0.1	80.7	3.7	2.8	9
354	656415	Intermediate Volcanic Tuff	Middle Bay	416400	5653910	59.7	12.6	5.75	6.47	0.38	2.45	5.58	0.11	0.275	0.02	0.1	6.65	100	<1	757	0.8	0.2	2.5	41.9	21.8	42
355	656416	Mafic Volcanic	Middle Bay	416401	5653926	52.2	10.9	6.24	10.4	0.86	0.21	10.5	0.16	0.417	0.03	0.17	8.05	100.1	<1	93.7	<0.5	0.3	3.3	56.8	1.7	19
356	656417	Mafic Volcanic	Middle Bay	416402	5653940	44.4	9.56	8.6	15.4	0.2	0.07	13.3	0.22	0.34	0.02	0.3	7.2	99.6	<1	23.2	<0.5	0.2	2.2	93.9	0.5	103
363	656418	Mafic Volcanic	Middle Bay	416421	5653967	48	9.4	6.47	18.4	0.27	0.05	12	0.19	0.353	0.03	0.23	4.3	99.6	<1	16.5	<0.5	0.4	1.9	74	0.4	17
371	656419	Felsic Volcanic Crystal Tuff	Middle Bay	416443	5653965	71.7	13.7	2.84	2.66	0.42	3.6	2.34	0.06	0.201	0.04	0.06	2.6	100.2	<1	544	0.7	0.1	20.4	18.2	7.4	11
375	656423	Felsic Volcanic Crystal Tuff	Trout Bay	413989	5653592	73	15.4	1.64	1.27	3.46	2.51	1.62	0.02	0.236	0.05	0.01	1.05	100.2	<1	399	1.1	<0.1	22.7	2.8	0.8	<5

Sample Number	Dy (ppm)	Er (ppm)	Eu (ppm)	Ga (ppm)	Gd (ppm)	Hf (ppm)	Ho (ppm)	La (ppm)	Lu (ppm)	Mo (ppm)	Nb (ppm)	Nd (ppm)	Ni (ppm)	Pb (ppm)	Pr (ppm)	Rb (ppm)	Sm (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Tb (ppm)	Th (ppm)	Tl (ppm)	Tm (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Yb (ppm)	Zn (ppm)	Zr (ppm)
632507	0.6	0.3	0.6	19	1.4	4	<0.1	15.4	<0.05	2	4	10	7	17	2.8	90.7	1.7	1	43.2	<0.5	0.1	3.5	<0.5	<0.1	1.1	22	5	3	0.3	38	119
632509	0.4	0.3	<0.1	5	0.3	<1	<0.1	0.5	0.05	<2	<1	0.6	1140	<5	<0.2	0.7	0.3	<1	23.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	100	<1	2	0.3	63	6.7
632510	1.1	0.8	0.3	6	1	<1	0.3	3.3	0.11	<2	<1	2.9	691	<5	0.7	13.8	0.7	<1	55.8	<0.5	0.2	0.3	<0.5	0.1	0.1	147	<1	7	0.8	155	13.7
632511	1.5	1.1	0.2	10	1.1	<1	0.3	1.3	0.16	<2	<1	2	887	5	0.4	1	0.8	<1	124	<0.5	0.2	0.2	<0.5	0.1	0.1	250	<1	9	0.9	160	20.3
632512	1.9	1.1	0.3	7	1.2	<1	0.3	0.8	0.19	<2	<1	1.9	469	<5	0.3	0.6	0.9	<1	17.6	<0.5	0.2	0.2	<0.5	0.1	<0.1	214	<1	8	1	97	21.3
632513	0.6	0.6	<0.1	5	0.6	<1	0.1	0.4	0.08	<2	<1	0.9	600	<5	<0.2	0.8	0.3	<1	10.4	<0.5	<0.1	0.2	<0.5	<0.1	<0.1	150	<1	4	0.5	78	11.1
632514	0.8	0.7	0.1	5	0.7	<1	0.2	0.6	0.09	<2	<1	1	879	<5	<0.2	0.8	0.4	<1	10.6	<0.5	<0.1	0.2	<0.5	<0.1	<0.1	137	<1	4	0.7	63	9.3
632516	0.8	0.3	0.3	15	1.5	3	0.1	13.2	<0.05	<2	4	8.5	14	<5	2.6	1.5	1.5	6	38.8	<0.5	0.1	3	<0.5	<0.1	0.8	22	<1	4	0.3	42	122
632517	0.7	0.5	0.1	4	0.6	<1	0.1	1.3	0.1	<2	<1	1.3	1160	<5	0.2	<0.2	0.4	<1	44.2	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	104	<1	4	0.6	122	5.8
632518	1.3	0.9	0.3	7	1	<1	0.2	6.3	0.13	<2	<1	3.4	369	46	0.9	0.9	0.9	<1	64	<0.5	0.2	0.2	<0.5	<0.1	0.2	169	3	6	0.7	628	11.9
632519	0.6	0.3	0.3	2	0.9	<1	<0.1	4.2	<0.05	2	<1	4.2	1230	<5	1	0.5	0.8	<1	41.7	<0.5	<0.1	0.2	<0.5	<0.1	0.1	57	3	3	0.3	89	4.7
632520	0.8	0.4	0.5	16	1.4	3	<0.1	17.2	<0.05	<2	6	9.2	6	15	2.8	111	1.5	5	84.8	0.9	0.1	8	<0.5	<0.1	2.7	15	8	3	0.3	37	100
632521	1	0.7	0.2	5	0.8	<1	0.2	2.2	0.13	<2	1	3.1	1080	6	0.8	3	0.7	<1	113	<0.5	<0.1	0.3	<0.5	0.1	0.1	117	3	5	0.8	93	9.7
632522	0.5	0.3	0.5	17	1.3	3	<0.1	20.6	<0.05	<2	5	10.6	14	7	3.4	61.2	1.8	<1	214	0.8	0.1	7	<0.5	<0.1	2.2	24	<1	2	0.3	36	131
632523	0.7	0.3	0.5	16	1.6	4	0.1	22	0.05	3	5	12.7	18	<5	4	48.6	1.9	2	125	0.7	0.1	4	<0.5	<0.1	0.6	35	2	3	0.3	27	134
632524	2.1	1.8	0.4	12	1.8	1	0.6	2.4	0.31	<2	2	3.4	137	7	0.8	11.6	1.1	<1	138	<0.5	0.4	0.8	<0.5	0.3	0.2	266	4	14	1.8	113	36.5
632525	0.5	0.3	0.5	16	1.3	3	<0.1	14	<0.05	2	3	8.1	<5	7	2.5	42.6	1.2	<1	138	<0.5	0.1	2.9	<0.5	<0.1	0.7	30	4	3	0.3	28	114
632526	2.4	1.8	0.6	11	2.4	2	0.6	5.6	0.29	<2	3	6	66	8	1.5	4.5	1.6	<1	58.5	1.5	0.4	1.3	<0.5	0.3	0.2	235	2	15	1.9	84	45.7
632527	1.4	1.1	0.4	7	1.2	1	0.3	3.4	0.12	<2	4	3.9	283	<5	0.9	37.2	0.9	<1	84	<0.5	0.2	0.8	<0.5	0.1	0.1	165	2	7	0.9	73	31.8
632528	0.4	0.3	0.1	3	0.4	<1	<0.1	2.4	0.06	<2	2	1.7	1780	7	0.5	2	0.2	<1	2.9	8.9	<0.1	0.5	<0.5	<0.1	<0.1	63	3	1	0.3	218	8.1
632531	1.8	1.5	0.4	9	1.6	1	0.5	3.1	0.25	<2	2	3.7	123	8	0.9	2	0.9	<1	83.9	<0.5	0.3	1.1	<0.5	0.2	0.2	194	1	11	1.5	79	31.6
632533	0.2	0.2	<0.1	1	0.2	<1	<0.1	0.8	<0.05	<2	<1	0.7	1500	<5	<0.2	0.6	0.2	<1	6.8	<0.5	<0.1	0.2	<0.5	<0.1	0.1	36	<1	<1	0.2	48	4
632535	0.5	0.3	0.6	13	1.3	3	0.1	17.3	0.06	<2	5	8.6	27	5	2.8	84.3	1.5	<1	17.3	0.5	0.1	3.8	<0.5	<0.1	1	27	6	3	0.3	42	115
632536	0.6	0.4	0.7	17	1.5	3	0.1	18.2	<0.05	<2	3	11.5	10	6	3.4	114	1.7	<1	35.8	<0.5	0.1	3.9	<0.5	<0.1	0.9	20	5	2	0.3	31	112
632542	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	<0.1	<0.05	<2	<1	<0.1	2230	10	<0.2	0.5	<0.1	<1	16.9	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	18	<1	<1	<0.1	47	<0.5
632543	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.2	<0.05	<2	<1	0.2	2350	179	<0.2	<0.2	<0.1	<1	48.8	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	21	<1	<1	<0.1	39	<0.5
632544	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.1	<0.05	<2	<1	0.2	2390	<5	<0.2	0.3	<0.1	<1	54.9	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	21	<1	<1	<0.1	38	<0.5
632545	0.6	0.4	<0.1	3	0.5	<1	<0.1	0.8	0.09	3	<1	1.4	1380	<5	0.3	0.3	0.4	<1	33.8	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	40	<1	4	0.4	71	2.8
656402	0.1	<0.1	<0.1	5	<0.1	<1	<0.1	0.9	<0.05	<2	<1	0.7	2040	10	0.2	1.8	0.1	<1	1.7	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	41	<1	<1	<0.1	53	1.5
656403	0.2	0.1	<0.1	5	0.2	<1	<0.1	1.6	<0.05	<2	<1	0.8	1900	<5	0.4	<0.2	0.2	<1	8.8	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	57	<1	2	<0.1	41	4.9
656404	2	1.2	0.4	14	2	1	0.4	7.5	0.21	<2	3	7	77	<5	1.8	2.9	1.6	<1	162	<0.5	0.3	0.9	<0.5	0.2	0.2	201	<1	12	1.1	100	55
656406	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.7	<0.05	<2	<1	0.2	2030	<5	<0.2	<0.2	<0.1	<1	123	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	16	<1	<1	<0.1	92	<0.5
656407	3.3	2.3	0.4	14	2.2	<1	0.8	1.7	0.45	<2	2	4.2	154	<5	0.8	17.6	1.5	2	60.1	<0.5	0.4	0.2	<0.5	0.3	<0.1	306	<1	20	2.3	207	31
656408	2.9	1.7	0.3	13	2.2	1	0.6	2.3	0.28	2	2	5.3	110	<5	1.1	34.4	1.8	1	108	<0.5	0.4	0.2	<0.5	0.2	<0.1	297	<1	16	1.5	98	39.7
656409	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.8	<0.05	<2	<1	0.3	1630	<5	<0.2	0.3	<0.1	<1	39.5	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	19	<1	<1	<0.1	144	<0.5
656410	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	1.1	<0.05	2	<1	0.3	2300	<5	<0.2	<0.2	<0.1	<1	0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	24	<1	<1	<0.1	81	<0.5
656411	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	<0.1	<0.05	<2	<1	0.2	2090	<5	<0.2	<0.2	<0.1	<1	1.3	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	22	<1	<1	<0.1	48	<0.5
656412	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.5	<0.05	<2	<1	0.2	2140	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	36	<1	<1	<0.1	85	<0.5
656413	1.1	0.7	0.2	8	1.1	2	0.2	7.3	0.13	2	4	5.5	651	<5	1.6	21.7	1	<1	54	<0.5	0.2	1.5	<0.5	<0.1	0.5	132	2	6	0.8	201	82.3
656414	1.3	0.7	0.6	17	2.7	2	0.2	43.8	0.12	<2	6	28.1	30	7	8.6	108	3.8	1	89.1	<0.5	0.3	11.3	<0.5	<0.1	2.5	20	1	8	0.7	23	104
656415	1	0.6	0.2	10	0.7	<1	0.2	1.5	0.14	<2	<1	1.7	283	<5	0.4	94.2	0.5	<1	47.8	<0.5	<0.1	0.2	<0.5	<0.1	<0.1	207	<1	6	0.8	100	16.4
656416	1.3	0.9	0.2	9	0.9	<1	0.3	1.1	0.14	<2	1	2.2	226	<5	0.4	4.7	0.7	<1	81.1	<0.5	0.2	0.3	<0.5	0.1	<0.1	233	<1	8	0.9	80	21.4
656417	1.5	0.9	0.2	8	1.1	<1	0.3	0.6	0.14	<2	<1	1.7	509	<5	0.3	1.4	0.7	<1	34	<0.5	0.2	<0.1	<0.5	0.1	<0.1	199	<1	9	1	79	10.9
656418	1.4	0.9	0.2	8	1	<1	0.3	0.7	0.18	<2	<1	1.7	335	<5	0.3	0.8	0.6	<1	10.8	<0.5	0.2	0.2	<0.5	0.1	<0.1	203	<1	8	0.9	117	15.7
656419	0.8	0.4	0.2	13	1	2	0.1	10.2	0.09	2	4	6.4	168	33	1.9	110	1.1	<1	41.6	<0.5	0.1	4.1	<0.5	<0.1	1.2	60	1	5	0.4	40	84.2
656423	0.5	0.2	0.3	16	1.1	2	<0.1	12.6	<0.05	<2	4	8	8	<5	2.4	52.2	1.2	<1	183	<0.5	<0.1	3.2	<0.5	<0.1	0.5	27	<1	3	0.2	30	108

Sample Number	S (%)	As (ppm)	Se (ppm)	Description
632507	0.01	0.3	<0.1	Pale weathered surface, to lt grey fresh. Non-magnetic. Matrix is v f-g. with greenish tint. Feldspathic with sparse qz eyes.
632509	<0.01	2	0.2	Actinolitic, nil sulphides. Weathers lt buff orange to lt buff green. Bluish green fresh. F-m-g. Magnetic. Veins of ??wollastonite + talc noted. (Probably tremolite & serpentine).
632510	<0.01	0.9	0.1	Grey-green, non-magnetic, f-m g, massive. No visible feldspar, being quite dark. Localised, semi-pervasive carbonate. ?Actinolitic. Cut by <1mm f-g dk green mineralisation (hbl or cpx?)
632511	<0.01	21.7	<0.1	Acicular to 3mm long, actinolite. Relatively weakly feldspathic, with semi-pervasive carbonate (cte). Homogeneous, massive. Non-magnetic, nil sulphides. Possible epidotised.
632512	<0.01	0.4	0.1	Bluish-green, weathered, dk grey-green, fresh. M-g, gabbroic, actinolitic, non-magnetic, with no visible sulphides. Weak, pervasive carbonatisation. Galena ls.
632513	<0.01	0.2	<0.1	Brownish lt green, weathered, dk green, fresh, nil carbonate, sulphides, magnetite. ?'Wollastonite' again noted, being prismatic, elongate, scratchable, so carbonate or tremolite.
632514	<0.01	<0.1	<0.1	10-50 cm wide, minor elongation, with 1-2 cm wide selvedges. Variolitic to 2 mm diam. Pillows X-cut by qz-cte veining. Weakly magnetic.
632516	<0.01	0.3	0.2	Possibly welded. Lt grey fresh surface. Non-magnetic, mr cte veining, no visible sulphides. Feldspar-qz'ose. Well defined fabric - 095/87
632517	<0.01	33	0.2	50:50 act-plag. Non-magnetic, no visible sulphides, relatively soft (?chl). Nil carbonate. Quite massive.
632518	0.06	2.4	0.2	Weakly magnetic, with weak, pervasive carbonatisation, x-cut by Fe-carbonate veining &/or QV. Qz to 30x50cm (pod). Extensional Fe veining. Freah surface dk grey, weathered dk grey-green. Appears to be no plagioclase. Possible melanogabbro/amphibolite.
632519	0.05	6.8	<0.1	Talcose, with 50% lt mineral (plag), & 50% ?act. Fresh - lt grey-green. Fe-carbonate veining as previous., randomly oriented, with QV from mm-5 cm wide, rarely 20cm. Soft. Probably serpentinised, rather than talcose. Weakly magnetic.
632520	0.15	1	<0.1	Well-defined fabric, 303/75. Qz eyes, (2-5%). Matrix is pla rich. Non-magnetic. Nil carbonate in matrix, no visible sulphides.
632521	<0.01	1.2	<0.1	Fine interstitial mafics or opaques. Plag-rich, no qz eyes, non-magnetic, no visible sulphides. May be chloritic, quite soft (style/nature not noted).
632522	0.01	0.3	0.2	Sparse qz eyes, plag-rich, non-magnetic. Similar to preceding. Non-magnetic.
632523	<0.01	0.5	<0.1	2% bte, non-magnetic, buff-white brown weathered. No qz eyes. Feldspathic (<2 mm diam.) Mr carbonate veining.
632524	0.09	0.4	0.5	Thin layer in int-felsic xl tuff o/c. (1m thick). Well-defined fabric. Mr QV. Laterally discontinuous.
632525	<0.01	0.3	0.4	25% qz eyes in plag-rich matrix. Mr tight-wavy folding. (No other information.) No carbonate, non-magnetic, no visible sulphides. X-cut by multiple QV to 20 cm wide. Old samples 676659,60 taken in QV.
632526	0.02	0.4	0.5	Atinolitic, massive. Previously sampled - flag w 27164. Mr plagioclase.
632527	<0.01	0.3	<0.1	Lineated actinolitic. "Looks like a mafic tuff".
632528	0.08	52.5	0.3	Magnetic, nil carbonate. Act-plagiolcase mineralised. Phenocrysts to 5% of rock(?) & to 0.5x0.5cm.
632531	<0.01	0.3	0.1	50:50 act-plag. Non-magnetic, nil carbonate, no visible sulphides. Act xls to 0.5mm wide. Massive.
632533	<0.01	3.1	<0.1	Serpentinitic, lt buff weathered, composed of "serpentine, magnetite, talc, chlorite) No visible sulphides. Carbonatised, massive.
632535	0.02	1.3	0.3	At contact between mafic volcanic & int. xl tuff. Qz eyes. Plag-qz'ose.
632536	<0.01	1.7	0.2	Just E. of shaft with x-cutting qz-carbonate veins. Qz eyes to 3 mm, slightly flattened, plagioclase-rich.
632542	<0.01	<0.1	20.8	?Anorthositic adcumulate. Previously mapped as all islands as serpentinite. Plag to 2 mm. <8% discernible mafics & mainly rounded blastic blebby mag. Very poorly carbonatised, massive. Sparse scattered garnets. Lt grey-green surface. NVS.
632543	<0.01	<0.1	58.8	Similar to preceding (632542). Soft. Cooling fractures noted. Magnetite throughout (diss & <1mm wide veinlets).. 5% mafics, massive. Locally, recrystallised, coarser plag. Late high Ca-fluid metasomatism causing serpentine-talc altn. Haematite veined.
632544	<0.01	<0.1	12.7	Closest sample to large mag low in Bay. (NE pt of island).
632545	<0.01	<0.1	1.1	In contact w. 'anorthosite'. Moderately-strongly epidotised. Magnetic. Previously sampled by?. Serpentinised.
656402	<0.01	<0.1	11	Magnetic, massive, dk grey-green, NVS. Negligible carbonate. Blue -grey weathered surface.
656403	<0.01	<0.1	0.7	In a thin deformation zone, 20 m wide. Carbonate-antigorite altered, with relatively unaltered u/m to the S. Dextral 'shearing'. Extensional carbonate veining. Lineated to finely banded. Dacite in H/W. (to the NW).
656404	<0.01	<0.1	0.6	Non-magnetic. (Poss MV not u/m?) Dis to blebby, to 2% py>>po. Dk grey, no serpentine. Dacite to the east. Appears relatively silicic.
656406	0.03	0.1	0.7	Far E. tip of ls., just by the claim post cache & survey pin. Peridotitic, magnetic, finely banded, NVS, dk grey-green. Fe-carbonate veining parallel to main fabric.
656407	0.13	0.6	2.5	Contact between sediment & tuff? Former is f-g alt'd argillite, dk grey, non-magnetic, NVS, biotitic, nil carbonate. Volcanic is pale grey on weathered surface, qith sparse qz eyes. Feldspathic. Sparse x-cutting QV.
656408	0.02	0.2	6.5	Lt brown-green, weathered surface. Nil carbonate, non-magnetic, w diss py. Biotitic & amphibole mineralised. Crudely layered.
656409	<0.01	<0.1	0.6	Soft, magnetic, with mt veinlets. X-cut by multiple carbonate veins (Fe & Ca). Serpentinitic. Massive, NVS.
656410	<0.01	<0.1	1	Soft, serpentinitic, NVS, Mg-carbonate veined (?) with mt xls. Brown to off-white on weathered surface. Massive, with randomly oriented carbonate veining.
656411	<0.01	<0.1	0.6	Similar to 656410.
656412	<0.01	<0.1	0.9	Similar to 656410. X-cut by (?)Mg-carbonate veining. Massive, with a few mt veinlets. Mt xls noted, (<0.5mm wide).
656413	0.29	0.3	53.1	Qz eyes to 3 mm & 2% by vol. Fuchsite-rich "horizons. Non-magnetic. <1% veinlet or diss carbonate.
656414	0.01	<0.1	0.2	Nil carbonate, mt, sulphides. Mr fuchsite.
656415	<0.01	0.1	7.1	F-g, no qz eyes. Lg "clasts" of dolomite in tuff (10x15cm). Feldspathic, non-magnetic. Elongate 'careous' weathering.
656416	<0.01	0.1	5.4	Numeous carbonate veins. Acicular tremolite noted, & radiating or as bundles/sheaves. Serpentinitic. Trace veinlet sulphides (py>>). Mr lg carbonate veining.
656417	<0.01	0.2	8.4	Carbonatised, tremolitic, serpentine-talc mineralised. Quite massive. Locally indeterminate strong deformation (?) Possibly a pxenite (?)
656418	<0.01	<0.1	0.3	On lg o/c. Similar to 656417, but considered a mafic volcanic(?) Finer tremolite xls. Carbonate veined, quite massive, NVS. Can be scratched with knife. "pyroxenite?"
656419	<0.01	<0.1	80	Feldspathic, w qz eyes. Sparse fuchsite, & weakly, sporadically carbonatised.
656423	<0.01	<0.1	<0.1	320/40 (?) fabric. Feldspathic, <1% qz eyes. Nil carbonate, sulphides, non-magnetic.

Station	Sample Number	Rock Type	Property	Easting	Northing	SiO2 (%)	Al2O3 (%)	CaO (%)	MgO (%)	Na2O (%)	K2O (%)	Fe2O3 (%)	MnO (%)	TiO2 (%)	P2O5 (%)	Cr2O3 (%)	LOI (%)	Sum (%)	Ag (ppm)	Ba (ppm)	Be (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cs (ppm)	Cu (ppm)
380	656424	Intermediate Volcanic	Trout Bay	414132	5653992	56	5.53	13.8	8.95	0.17	0.18	4.79	0.67	0.617	0.02	2.31	7.35	100.4	<1	78	0.8	0.2	48.4	42.7	0.9	37
384	656427	Intermediate Volcanic, Andesite	Trout Bay	414217	5654144	48.7	6.16	11.2	13.5	0.09	0.2	12.5	0.35	0.207	0.02	1.22	6.35	100.5	<1	34.5	0.7	0.3	1.2	105	<0.1	14
386	656428	Intermediate Volcanic, Dacite Tuff	Trout Bay	414251	5654200	71.9	14.8	0.46	2.22	0.23	4.02	3.45	0.08	0.277	0.13	<0.01	2.55	100.1	<1	297	0.8	<0.1	24.8	6.4	3.6	<5
387	656429	Felsic Volcanic Crystal Tuff	Trout Bay	414289	5654276	74.2	13.6	0.88	1.39	2.37	3.41	1.97	0.03	0.175	0.04	0.01	2	100.1	<1	461	1.2	<0.1	20	3.6	4	8
408	656430	Peridotite	Middle Bay	412992	5654495	41.5	2.71	0.91	34.6	<0.01	0.05	8.54	0.06	0.073	<0.01	0.37	11.3	100.1	<1	9.8	<0.5	0.1	0.7	139	0.1	<5
415	656437	Intermediate Volcanic	Trout Bay	415151	5653916	76.8	13.1	0.83	2	0.63	2.92	1.54	0.02	0.146	0.03	0.01	2	100.1	<1	364	0.8	<0.1	22	3.1	3.1	<5
027	632551	Peridotite	Trout Bay	415508	5650670	40.9	2.45	5.25	28.6	<0.01	0.04	11.9	0.18	0.234	0.02	0.31	10.3	100.2	<i	18	<0.5	0.2	2.3	94.4	0.1	19
063	632552	Pyroxenite	Trout Bay	411308	5655914	45.2	10.6	8.82	8.25	2.09	0.48	22.4	0.22	1.612	0.04	0.02	0.35	100.1	<1	125	<0.5	0.2	18.1	56.9	0.5	79
060	632553	Mafic Volcanic	Trout Bay	416612	5646499	49.6	12.3	9.23	13.1	1.27	0.4	12.2	0.21	0.507	0.05	0.19	0.7	99.7	<1	120	<0.5	0.2	5.3	53.4	6.6	32
073	632554	Mafic Volcanic	Middle Bay	414689	5654559	52.9	15	11.9	4.39	1.85	0.37	11.5	0.21	1.038	0.09	0.04	0.7	100	<1	46.8	<0.5	0.4	8	40.7	0.3	98
078	632555	Mafic Volcanic	Trout Bay	415208	5648795	52.5	15.9	8.3	6.12	3.46	0.28	11.6	0.31	0.889	0.08	0.05	0.6	100.1	<1	70.9	<0.5	0.1	6.1	42.1	0.5	42
087	632556	Mafic Volcanic	Trout Bay	414506	5649052	47.5	14.6	15.1	6.16	1.33	0.28	12.1	0.41	0.823	0.08	0.05	1.65	100.1	<1	35.9	<0.5	0.3	7.4	37.4	0.2	26
088	632557	Mafic Volcanic	Trout Bay	414472	5649095	53.1	16	13.5	3.95	1.52	0.23	9.11	0.28	0.902	0.08	0.05	1.45	100.1	<1	25.3	<0.5	0.2	7.6	42.2	0.3	97
091	632558	Mafic Volcanic	Trout Bay	414398	5649193	52.5	15.5	13.1	4.05	3.2	0.29	8.67	0.28	0.878	0.08	0.05	1.5	100	<1	104	<0.5	0.4	7.5	38	0.1	70
438	370622	Mafic Volcanic	Pipestone Bay	416795	5655754	50.4	12.9	7.03	12.8	3.07	1.22	6.05	0.09	0.487	<0.01	0.1	5.85	100.1	<1	252	4.2	0.1	12.1	45.9	7.7	<5

Sample Number	Dy (ppm)	Er (ppm)	Eu (ppm)	Ga (ppm)	Gd (ppm)	Hf (ppm)	Ho (ppm)	La (ppm)	Lu (ppm)	Mo (ppm)	Nb (ppm)	Nd (ppm)	Ni (ppm)	Pb (ppm)	Pr (ppm)	Rb (ppm)	Sm (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Tb (ppm)	Th (ppm)	Tl (ppm)	Tm (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Yb (ppm)	Zn (ppm)	Zr (ppm)
656424	0.7	0.4	0.3	6	1.3	2	0.1	27.6	0.09	2	5	13.5	178	11	4.5	8.1	1.8	2	60.7	<0.5	0.1	6	<0.5	<0.1	0.7	91	21	5	0.3	121	72.5
656427	0.9	0.5	0.1	6	0.7	<1	0.2	0.1	0.12	<2	<1	1.1	1040	<5	<0.2	2.1	0.3	<1	105	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	153	25	5	0.6	230	4.3
656428	0.6	0.3	0.3	16	1.1	3	<0.1	11.2	<0.05	<2	4	7.2	89	<5	2.1	113	1.2	<1	40.8	<0.5	0.1	4.7	<0.5	<0.1	0.8	47	6	3	0.2	40	116
656429	0.7	0.3	0.3	15	1.1	2	<0.1	11.7	<0.05	2	6	7.1	19	<5	2.1	128	1.4	1	44.7	0.7	0.1	4.8	<0.5	<0.1	1.5	24	2	3	0.2	45	95.1
656430	0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.6	<0.05	<2	<1	0.3	2010	<5	<0.2	1.2	<0.1	<1	8.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	54	2	<1	0.1	45	6.7
656437	0.7	0.2	0.2	14	1.1	2	<0.1	13.3	<0.05	<2	5	7.4	22	<5	2.3	99.4	1.4	<1	93.8	0.5	0.1	8.4	<0.5	<0.1	1.8	17	3	3	0.2	36	73.2
632551	0.7	0.5	0.2	3	0.7	<1	0.2	1.1	0.1	2	<1	1.8	1070	44	0.5	1.2	<0.1	<1	10.3	<0.5	0.1	0.9	<0.5	<0.1	<0.1	17	<1	6	0.6	79	10.3
632552	5.4	3	1.1	15	3.8	2	1.1	7	0.4	2	4	12.1	63	6	2.8	4.5	3.1	<1	160	<0.5	0.8	1.5	<0.5	0.4	0.3	543	<1	25	2.8	120	63
632553	2.1	1.5	0.5	10	1.7	1	0.4	2.4	0.16	3	1	3.9	277	5	0.9	13.4	1	<1	70.7	<0.5	0.3	0.7	<0.5	0.2	<0.1	152	<1	13	1.8	95	40.3
632554	4.2	2.7	1.1	14	3.1	1	0.8	3.2	0.3	3	2	6.7	83	5	1.4	3.9	2.1	<1	118	<0.5	0.5	0.7	<0.5	0.3	<0.1	281	<1	21	2.4	91	64.9
632555	3.3	2.3	0.7	13	2.5	2	0.7	2.2	0.27	<2	2	6.2	136	<5	1.1	6.4	1.9	<1	54.7	<0.5	0.5	0.8	<0.5	0.3	<0.1	240	<1	19	2.2	81	53.7
632556	3.8	2.3	0.7	12	2.7	1	0.8	2.9	0.35	2	2	6.8	124	<5	1.4	4.6	1.6	<1	86.5	<0.5	0.6	0.8	<0.5	0.4	0.1	229	<1	20	2.4	96	53.5
632557	3.2	2.5	0.9	12	2.9	1	0.8	2.9	0.3	3	2	6.4	115	<5	1.4	3.1	2	<1	131	<0.5	0.6	0.4	<0.5	0.3	0.1	263	<1	19	2.2	99	60
632558	3.5	2.5	0.9	13	2.6	2	0.7	2.9	0.33	3	2	6.7	110	<5	1.3	2.6	1.7	<1	145	<0.5	0.5	0.7	<0.5	0.3	0.1	231	<1	18	2.1	79	55.7
370622	1.8	1.3	0.3	11	1.9	<1	0.4	4	0.13	<2	<1	7.4	408	<5	1.9	37.7	1.7	<1	59.7	<0.5	0.3	0.6	<0.5	0.2	0.1	106	1	12	1	6.7	31.8

Sample Number	S (%)	As (ppm)	Se (ppm)	Description
656424	0.02	0.2	8.5	Rare qz eyes. Feldspathic, with scattered fine bte.
656427	0.03	0.1	6.2	?Mafic-Int. 309/76 fabric. X-cut by to 1.5 cm wide QV (randomly oriented). Mostly tremolitic (?Int. volcanic) F-g.
656428	<0.01	0.1	0.8	Schistose, 1% qz eyes, feldspathic, f-g. 1mm wide boudinaged QV. Crenulated, also. NVS, nil carbonate. M-g.
656429	0.04	<0.1	2.5	294/83 fabric. Homogeneous, lt grey, feldspthic, 15 qz eyes, negligible veining, non-magnetic. V small carbonate (?) xls/stringers.
656430	<0.01	0.1	10	Pale grey weathered surface. Serpentine-magnetite mineralised. NVS.
656437	<0.01	0.1	0.3	NVS, gy fr srfc
632551	<0.01	4.1	<0.1	Float, on drill rd behind TB 200-003, 50m W. Massive, weakly serpentinitic. No sulphides
632552	0.02	0.6	0.4	Alt'd pyroxenite that becomes more mafic towards end of line, cgr, black amph, blebby, interstitial plag, 85% mafic, massive.
632553	<0.01	13.1	<0.1	Heterogeneous oc of hbl drte cntng maf xenos and progressing to maf vloc at NE end of oc with intruding veins of diorite.
632554	0.06	0.3	0.3	Dk grey, x-cut by 1 mm wide qv. Wkly epidotic. <1% py. Non-mag.
632555	<0.01	0.3	0.2	Fgr dk gy maf volc x-cut by <1mm wide qz veins, non mag, no min, <1% <0.1mm py grains.
632556	<0.01	0.8	<0.1	Rusty dk gn weat'd srfc, dk gy gn fr srfc, fgr, amph, plag, non mag, no min, carc lcl as veins, weak foliation that couldn't be measured, several rusty brown spots of unknown mineral.
632557	<0.01	0.7	0.2	Massive mgr dk gy/gn, x-cut by <1mm wide carb veins, amph, plag, some po smears found lcl, amph is cgr near carb veins.
632558	0.04	0.5	0.1	Fgr dk gn amph & plag, massive, x-cut by qz-carb veins, more qz than carb, non mag, no min.
370622	<0.01	1.6	0.3	White weat's srfc, amph xtls up to 2cm long, on weat'd srfc plag xtls btw blades of amph making it look like olivine spinifex, no sulphides, non magnetic.

Appendix 3

List of assay samples, UTM coordinates, results and descriptions

Station	Sample #	Rock Type	Property	Easting	Northing	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	Al (%)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	K (%)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	Pb (%)	Sr (ppm)	Ti (%)	V (ppm)
255	632592	Gabbro	Trout Bay	410803	5654287	<1	5.5	6	<1	9.95	<100	<10	<20	7.6	<10	50	310	20	5.4	0.4	7.65	940	<10	1.3	440	<.001	130	0.15	100
257	632594	Gabbro	Trout Bay	410766	5654274	<1	8	9	<1	10.55	<100	<10	<20	7.1	<10	40	350	10	5.5	0.3	6.8	950	<10	1.85	260	<.001	120	0.2	150
260	632596	Oxide Facies Iron Formation	Trout Bay	410739	5654260	<1	0.5	<1	<1	0.2	<100	<10	<20	0.2	<10	<10	80	10	>30.0	<.1	1	660	<10	<.05	10	<.001	<10	<.05	<10
259	632597	Oxide Facies Iron Formation	Trout Bay	410742	5654269	1	2	2	<1	0.65	<100	<10	<20	0.95	<10	<10	50	20	>30.0	<.1	1.75	2710	<10	0.05	80	<.001	<10	<.05	10
267	632599	Sulfide Facies Iron Formation	Trout Bay	410685	5654426	<1	1	1	<1	0.05	<100	<10	<20	2.4	<10	<10	170	10	10.25	<.1	1.4	8460	<10	<.05	80	<.001	<10	<.05	<10
270	632401	Mafic Volcanic	Trout Bay	410588	5654414	2	3.5	6	1	7.7	<100	<10	<20	7.35	<10	50	190	60	8.55	0.2	3.2	1170	<10	0.95	240	<.001	200	0.8	290
271	632402	Gabbro	Trout Bay	410424	5654266	<1	5.5	7	<1	9.55	<100	<10	<20	9.15	<10	50	440	120	7.8	0.3	6	1190	<10	1.5	410	<.001	70	0.4	200
291	632408	Oxide Facies Iron Formation	Trout Bay	410433	5654599	3	0.5	1	1	0.65	<100	<10	<20	0.8	<10	<10	60	20	>30.0	<.1	1.55	2180	<10	<.05	90	<.001	10	<.05	10
292	632409	Gabbro	Trout Bay	410444	5654598	<1	3.5	3	<1	8.65	200	<10	<20	7.7	<10	60	260	30	9.6	0.7	5.1	1290	<10	1.4	330	<.001	160	0.75	260
301	632413	Oxide Facies Iron Formation	Trout Bay	410567	5654716	2	<.5	1	<1	0.6	<100	<10	<20	1.2	<10	10	30	280	29.7	<.1	5.3	3450	<10	<.05	90	0.001	10	<.05	10
342	632421	Sulfide Facies Iron Formation	Trout Bay	410963	5654855	43	11	13	1	5.8	<100	<10	<20	0.9	<10	70	2270	260	14.1	0.4	2.05	5670	<10	0.7	650	0.003	100	0.25	200
342	632422	Argillite	Trout Bay	410963	5654855	23	0.5	<1	<1	1.95	400	<10	<20	0.2	<10	10	290	50	3.9	0.7	0.4	340	<10	0.2	40	<.001	40	<.05	10
342	632423	Argillite	Trout Bay	410963	5654855	25	1.5	2	<1	4.2	900	<10	<20	10.6	<10	10	170	100	7.25	1.5	5.8	11240	<10	0.15	110	0.002	100	0.15	50
362	632427	Oxide Facies Iron Formation	Trout Bay	410269	5654724	<1	<.5	<1	<1	0.2	<100	<10	<20	1.65	<10	10	90	<10	>30.0	<.1	1.35	1200	<10	<.05	10	<.001	10	<.05	<10
376	632428	Oxide Facies Iron Formation	Trout Bay	413972	5653829	<2	<.5	<1	<1	0.4	<100	<10	<20	3.95	<10	10	110	30	24	<.1	2.1	1020	<10	0.05	40	0.001	<10	<.05	<10
377	632429	Mafic Volcanic	Trout Bay	410323	5654828	<3	7	8	<1	8.3	<100	<10	<20	4.9	<10	50	290	<10	7.25	0.4	8.75	1260	<10	0.95	160	<.001	60	0.2	130
430	632438	Intermediate Volcanic	Trout Bay	410890	5655331	25	—	—	<1	8.75	800	<10	<20	1.85	<10	10	120	30	3.75	1.2	1.4	390	<10	3.85	10	<.001	250	0.3	70
510	632445	Mafic Volcanic	Trout Bay	410113	5654910	1	2.5	3	<1	6.25	200	<10	<20	1.55	<10	40	1160	370	7.95	2.6	2.15	1840	<10	1	240	<.001	60	0.3	110
526	632447	Mafic Volcanic	Trout Bay	410149	5654931	8	33.5	190	<1	9.25	<100	<10	<20	8.05	<10	80	330	690	7.95	0.4	5.45	950	10	1.6	1240	<.001	110	0.25	160
599	632456	Felsic Volcanic	Trout Bay	410703	5655236	<5	—	—	<1	8	1200	<10	<20	0.15	<10	<10	100	20	1.55	3.7	0.6	90	<10	0.5	10	0.001	<10	0.15	50
605	632457	Quartz Vein	Trout Bay	410720	5655215	<5	—	—	<1	6.6	500	<10	<20	0.55	<10	<10	150	70	2.6	1.4	0.75	130	10	2.9	40	0.001	110	0.05	30
605	632458	Felsic Volcanic	Trout Bay	410720	5655215	10	—	—	<1	6.75	600	<10	<20	0.45	<10	10	140	60	2.5	1.5	0.6	100	20	2.95	10	0.001	100	0.05	30
605	632459	Felsic Volcanic	Trout Bay	410720	5655215	<5	—	—	<1	7.45	1700	<10	<20	0.15	<10	<10	160	40	2.4	3.2	0.5	90	<10	0.95	10	<.001	30	0.15	40
605	632460	Felsic Volcanic	Trout Bay	410720	5655215	15	—	—	<1	2.4	200	<10	<20	3.45	<10	30	1800	280	9.3	0.6	3.9	2040	10	0.5	530	0.001	60	0.15	130
606	632462	Mafic Volcanic	Middle Bay	416459	5654499	6800	15	17	<1	7.1	100	<10	<20	0.05	<10	40	300	90	6.05	2	1.4	710	<10	0.2	170	<.001	50	0.25	160
606	632463	Mafic Volcanic	Middle Bay	416459	5654499	20	19.5	24	<1	10.45	300	<10	<20	0.05	<10	40	220	150	9.15	2.7	2.05	940	<10	0.3	150	<.001	80	0.3	270
606	632464	Mafic Volcanic	Middle Bay	416459	5654499	57	17.5	19	<1	8.25	100	<10	<20	<.05	<10	50	240	120	10.45	1.6	2.35	1040	<10	0.3	200	0.001	30	0.25	230
607	632465	Mafic Volcanic	Trout Bay	416458	5654466	610	22	23	<1	9.2	100	<10	<20	0.15	<10	60	90	90	14.5	1.1	2.85	2840	<10	0.1	150	<.001	20	0.45	350
607	632466	Mafic Volcanic	Trout Bay	416458	5654466	560	18.5	20	1	7.4	<100	<10	<20	0.7	<10	50	100	140	15.15	0.5	3.35	3190	<10	0.35	230	0.001	10	0.35	290
607	632467	Mafic Volcanic	Trout Bay	416458	5654466	7	16.5	19	<1	7.55	300	<10	<20	4.55	<10	50	110	70	7.85	1.4	3.6	1390	<10	0.6	130	0.003	100	0.35	250
607	632468	Mafic Volcanic	Trout Bay	416458	5654466	1460	23	25	<1	8.25	300	<10	<20	0.6	<10	50	110	160	9.65	2.2	1.9	1540	<10	0.3	180	<.001	30	0.4	300
607	632469	Quartz Vein	Middle Bay	416458	5654466	480	5.5	6	<1	1.95	<100	<10	<20	13.25	<10	30	100	30	5.9	0.1	5.65	6060	<10	<.05	80	<.001	40	0.05	80
610	632470	Ultramafic	Middle Bay	415792	5654679	9100	2	4	4	1.25	<100	<10	<20	2.8	30	300	480	500	17.95	0.1	4.05	9880	<10	<.05	1240	0.002	20	<.05	20
612	632471	Quartz Vein	Middle Bay	414982	5654102	6	<.5	1	<1	2.25	<100	<10	<20	0.3	<10	<10	320	70	2.5	0.6	0.55	360	<10	0.05	40	<.001	10	<.05	<10
612	632472	Ultramafic	Middle Bay	414982	5654102	185	2.5	2	2	5.55	<100	<10	<20	0.1	<10	50	820	1170	9	1.2	2.15	920	<10	0.25	270	<.001	30	0.15	70
612	632473	Ultramafic	Middle Bay	414982	5654102	83	2	3	12	2.7	100	<10	<20	6.45	<10	150	1500	2560	5.8	0.8	3.6	2910	<10	0.15	710	0.002	80	0.05	90
613	632474	Felsic Volcanic	Middle Bay	412929	5654256	8	<.5	2	<1	0.05	<100	<10	<20	16.9	<10	<10	30	<10	4.95	<.1	7.25	8040	<10	<.05	10	<.001	50	<.05	<10
613	632475	Felsic Volcanic	Middle Bay	412929	5654256	54	<.5	1	<1	0.1	<100	<10	<20	15.65	<10	<10	60	30	7.05	<.1	6	7070	<10	<.05	60	<.001	40	<.05	<10
613	632476	Ultramafic	Middle Bay	412929	5654256	230	1.5	11	4	0.4	<100	<10	<20	9.9	<10	20	40	500	>30.0	<.1	3.55	13200	<10	<.05	160	0.003	40	<.05	10
613	632477	Felsic Volcanic	Middle Bay	412929	5654256	41	1	7	<1	0.15	<100	<10	<20	16.6	<10	<10	50	80	8.85	<.1	6.1	8050	<10	<.05	30	<.001	30	<.05	<10
616	632479	Mafic Volcanic	Middle Bay	412897	5654277	7	6	5	<1	4.1	100	<10	<20	7.55	<10	40	780	80	3.95	0.7	3.3	1930	<10	0.4	330	<.001	140	0.2	110
641	632481	Dolomite	Trout Bay	412017	5654463	1	0.5	1	<1	5.1	500	<10	<20	1.45	<10	10	220	20	4.35	2.4	1.95	740	<10	0.2	40	<.001	60	0.15	50
720	632495	Felsic Volcanic	Trout Bay	410190	5656124	750	<.5	<1	29	2.9	100	<10	<20	5.55	140	10	160	2660	3.5	0.8	2.15	1210	10	0.15	10	0.147	80	0.05	10
722	632496	Felsic Volcanic	Trout Bay	410196	5656129	3200	<.5	<1	44	3.35	100	<10	<20	0.25	60	<10	130	4930	1.3	1.3	0.2	90	<10	0.15	10	0.009	50	0.05	10
730	632497	Felsic Volcanic	Middle Bay	414554	5654841	16	<.5	<1	<1	8.05	200	<10	<20	3.3	<10	<10	110	40	1.45	1.4	0.8	230	<10	1.05	<10	0.001	120	0.15	20
749	632508	Chert	Trout Bay	415869	5652953	7	5.5	<1	<1	1.95	<100	<10	<20	1.55	<10	20	60	160	25.1	0.1	3.3	3950	<10	0.2	10	0.004	10	0.05	50

Sample #	Zn (ppm)	Description
632592	60	M-c-g melanogabbro, w actinolite. Sparse plag noted. Non-magnetic, NVS. Massive.
632594	60	Non-magnetic, c-g, act-plag mineralised, NVS. Wkly chloritic?
632596	120	4mm mt banding, mm scale pelite. Mt may contain bte. No sulphides noted
632597	160	Chert-mt banded, 1-3 mm wide, w mt to 3 mm. 60% mt. Bte mineralised. No sulphides mentioned.
632599	20	Rusty weathered surface. No carbonate, quite massive. Sparse QV. In poss Z-fold. Sulphide facies but sulphids not documented.
632401	100	Chert-rich, <5% magnetite content, bedding on mm-scale, grunerite, sharp contact between mafic volcanic and BIF (striking @ 330) subparallel to the bedding in the BIF and to S2 in mafic volcanic, S2=330/85, S3=085/88, mafic volcanic non magnetic.
632402	140	Coarse-grained non-magnetic gabbro that appears melanocratic and is composed mainly of actinolite, 345/75 lineation related to late feldspar veining.
632408	140	BIF (magnetite (85%) and grunerite), mm-scale bedding, few ct beds, no sulphides, bedding=345/85.
632409	120	Medium-grained gabbro (60% amph, 40% plag) that is dk gn on weathered surface and dk gy on fresh surface, non magnetic, massive, no mineralization, no carbonates, actinolite crystals are up to 3mm in size.
632413	240	BIF, cm-scale ct bands, mm-scale oxidized magnetite bands, 10% magnetite, possible sulphides.
632421	360	Sulphide facies iron-formation w/ disseminated py+cp, magnetic, no carbonates, some qz veins pll to the banding, host rock is dk gn.
632422	20	Argillite w/ dk gy fresh surface, non magnetic, contains disseminated py and cp, bt defines foliation plane and is where mineralization is found, sm amount of carb veins, some qz.
632423	80	Argillite, no visible mineralization but has the right rusty weathering colour, non magnetic, no carbonate, well foliated, green colour locally (malachite?) from sulphide weathering.
632427	60	BIF with no grunerite, no sulphides, no carb, ~5m thick on surface, >70% magnetite.
632428	60	BIF w/ ct beds ~1cm wide, magnetite layers are mm-scale, amph beds are 0.5mm wide, amph is dk gn and probably actinolit, no visible sulphides (but possible b/c of rusty weathering), 50% magnetite layers, no carbonates,
632429	80	Very fine-grained mafic volcanic with dk gn fresh surface and gn weathered surface and containing some act, bt and chl?, massive, very minor finfe-grained cp, no carb, non magnetic,
632438	40	Medium-grained intermediate volcanic, non magnetic, no carb, py locally, act+plag+bt, bt parallel to fabric, locally folded, cross-cut by qz veins on mm-scale, plag-rich, dk gy fresh surface, gy on weathered surface.
632445	140	Fgr to mgr mafic volcanic xenolith within a felsic intrusion about 1x0.5m in size, bt+plag-rich and has a few qz grains, lcl magnetic, some sulphides (py, cp), no carb, gneissic looking, x-cut by some qz-plag veins.
632447	60	Mgr mafic volcanic, 90% act, 10% plag, dk gn w srfc, dk gy-gn f srfc, disseminated po and poss some py, act 2mm long.
632456	<20	End of trench #7. Felsic volcanic -xl. Tuff. Sparse py, poss po. No carbonate. Med-g, lt grey, sericitic, with sparse mm qz eyes (<1%). Matrix mainly feldspathic. Py to 0.5 cm. QV x-cutting main fabric. Crenulation fabric at 160SE 'dipping' at 36.
632457	<20	QV with coarse cubic py. No carbonate. Diss py throughout. Host is f-g xl tuff.
632458	<20	Same location as preceding. Felsic. Xl tuff with diss py.
632459	<20	As preceding.
632460	80	As preceding
632462	60	F-m g mafic volcanic, cut by QV to 1 cm wide. Sparse py, +?cp. Sulphides are diss to blebby, to 3 mm. No carbonate.
632463	120	1 ft. N. of preceding. As preceding
632464	100	Along strike from preceding, & N of 632462. Chloritic mafic volcanic. Soft, crumbly. Diss py noted. Note samples '62-'64 on same o/c. Dk grey-green weathered surface.
632465	280	Mafic volcanic, just SW of preceding. F-m g. with py, po (diss'd). Chloritic, amygdaloidal.
632466	180	Mafic volcanic. Similar to preceding. To 10%(?) po scattered throughout sample location. X-cut by pyritic, sm QV.
632467	140	Mafic Volcanic with diss. Po. X-cut by pyritic QV. No carbonate.
632468	160	Mafic Volcanic with diss cp. Magnetic "...so some po." X-cut by 1.5 cm wide QV.
632469	100	5 cm wide QV with finely diss py. Host is mafic volcanic.
632470	3700	Ultramafic. V fine acicular white radiating tremolite + v fine dk green actinolite. Qz veined. Magnetic. Cp, po, py noted & mostly at contact with veining. Mr carbonate associated with veinlets. Locally, blebby sulphides.
632471	20	QV with py, cp, "diss into blebs". Veining (unclassified), to 4 cm.
632472	80	Ultramafic. Dk green, with blebs & veinlets of cp, py, po. Host of preceding.
632473	20	Ultramafic rock. Abundant QV resmbling silicification, locally. Cp, py, & diss po noted. Chloritic. At S.end of trench.
632474	<20	Trench sample. Brownish weathering. Mr thin carbonate veining. "Silicified rock". White on fresh surface, with stringers & veinlets to 1 mm of py & poss. Po. A black xl noted - quite hard. (?actinolite or tourmaline)
632475	<20	Very silicified, & similar to preceding. Mr py, poss po. (Magnetism noted). As stringers or disseminations. QV to 0.5 cm noted in o/c.
632476	60	?Ultramafic rock. Dk reddish brown on weathered surface. Crumbly. Tremolitic. Fine radiating acicular xls, often in sheafs/bundles to 3 mm long. Magnetic. Carbonate in veinlets or diss. Py often associated with stronge tremolitisation.
632477	<20	Altered ultramafic. Silicified, poss in 1 lg QV or saccharoidal chert(?) Scattered py. Locally magnetic. Considered to be poss po. Dk grey veining noted carbonatised, especially proximal to py mineralisation. (Calcite-rich)
632479	60	Similar to previous, though slightly more rusty on weathered surface.
632481	20	White orange weathered surface. Appears bedded Strike 338, dip 72. Sulphides in sparse QV as fine threads. Surface is rusty-orange to sulphur yellow.
632495	15100	Sulphidised felsic xl tuff. F-g, from rubble by trench. Most of rock is silicified, w sm cte veining. Sulphides incl py, cp, gn & sp. May in part be calc-silicate mineralised. Sulphides in randomly oriented fractures. Non-magnetic.
632496	6160	In round trench (pit). F-g felsic xl tuff. Non-magnetic, silicified, no carbonate. Sulphides incl py, cp, sp+/-gn & often diss'd along fractures. Qz eyes noted.
632497	120	Med grey, <1% qz eyes to 3 mm. Non-magnetic, with sparse diss py. Well-defined S2. Mr qz veining x-cutting. Lt grey to buff white fresh surface with cavities.
632508	100	Chert, with diss cubic py to 3 mm. + as veinlets.

Station	Sample #	Rock Type	Property	Easting	Northing	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	Al (%)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	K (%)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	Pb (%)	Sr (ppm)	Ti (%)	V (ppm)
761	632515	Oxide Facies Iron Formation	Trout Bay	416701	5652884	1	<.5	<1	1	0.95	<100	<10	<20	2.8	<10	<10	110	10	20.1	0.1	1.65	2850	<10	0.25	10	0.002	70	<.05	<10
002	632529	Gabbro	Trout Bay	416783	5649111	12	4	5	<1	1.6	<100	<10	<20	0.55	<10	120	3340	40	5.25	<.1	19	510	<10	0.15	1840	<.001	<10	0.05	50
058	632530	Felsic Volcanic	Trout Bay	411352	5655934	12	<.5	<1	<1	8.7	400	<10	<20	0.8	<10	10	110	130	1.8	3	0.7	120	<10	1.7	100	<.001	60	0.1	20
075	632534	Amphibolite	Middle Bay	414142	5654589	17	8.5	7	<1	4.1	<100	<10	<20	6.8	<10	70	1500	40	8.6	0.1	7.95	2290	<10	0.3	480	<.001	50	0.15	150
107	632537	Felsic Volcanic	Middle Bay	414144	5654688	3600	<.5	<1	22	3.95	<100	<10	<20	0.2	30	90	190	2980	8.6	1.2	0.6	500	<10	0.7	130	0.01	<10	0.05	10
107	632538	Mafic Volcanic	Middle Bay	414144	5654688	125	10	10	3	4.5	<100	<10	<20	3.9	<10	60	1060	660	11.75	<.1	5.15	2270	<10	0.15	250	0.002	40	0.2	180
107	632539	Mafic Volcanic	Middle Bay	414144	5654688	530	4	4	5	1.55	<100	<10	<20	1.2	<10	370	820	1160	21.8	<.1	1.55	1680	<10	0.2	470	0.012	<10	0.05	60
108	632540	Serpentinite	Middle Bay	414959	5654771	110	2	<1	1	1.25	<100	<10	<20	8	<10	80	180	110	18.8	<.1	6	11830	<10	0.15	450	0.001	50	<.05	60
372	656420	Oxide Facies Iron Formation	Trout Bay	415876	5653720	2	2	1	<1	0.15	<100	<10	<20	0.1	<10	<10	60	10	>30.0	<.1	2.45	11200	<10	0.1	10	0.001	<10	<.05	10
372	656421	Oxide Facies Iron Formation	Trout Bay	415876	5653720	17	1.5	2	<1	0.85	<100	<10	<20	0.25	<10	30	190	120	21	<.1	1.6	5430	<10	0.1	70	0.001	<10	<.05	10
373	656422	Oxide Facies Iron Formation	Trout Bay	415795	5653713	13	<.5	<1	<1	0.1	<100	<10	<20	0.05	<10	<10	130	50	10.9	<.1	0.4	1150	<10	0.1	10	<.001	20	<.05	<10
411	656431	Dolomite	Middle Bay	412570	5654324	1	0.5	<1	<1	<.05	<100	<10	<20	11.85	<10	<10	120	<10	1.8	<.1	6.45	4130	<10	0.05	10	0.001	<10	<.05	<10
411	656432	Dolomite	Middle Bay	412570	5654324	<1	<.5	<1	<1	<.05	<100	<10	<20	18.5	<10	<10	30	<10	1.65	<.1	9.7	5490	<10	0.05	10	0.001	50	<.05	<10
411	656433	Dolomite	Middle Bay	412570	5654324	65	<.5	<1	<1	0.05	<100	<10	<20	13.6	<10	<10	90	10	2.7	<.1	6.95	3980	<10	0.1	30	0.002	20	<.05	<10
412	656434	Mafic Volcanic	Middle Bay	415118	5654146	340	11.5	14	13	4.9	<100	<10	<20	1.05	<10	110	1410	2700	13.4	0.1	7.4	4670	<10	0.15	1120	<.001	40	0.3	180
413	656436	Mafic Volcanic	Middle Bay	415077	5653800	1	5.5	4	<1	3.2	<100	<10	<20	10	<10	70	2020	30	8.15	<.1	7.5	2840	<10	0.1	710	0.001	80	0.1	120
417	656438	Mafic Volcanic	Pipestone Bay	413955	5656587	8	7	6	<1	4.5	100	<10	<20	5.9	<10	60	1140	<10	7.3	1	8	1150	<10	<.05	330	<.001	160	0.15	140
417	656439	Mafic Volcanic	Pipestone Bay	413955	5656587	23	<.5	3	<1	5.4	100	<10	<20	5.2	<10	50	90	60	8.45	0.9	5.15	1370	<10	0.55	710	<.001	80	0.15	60
418	656440	Serpentinite	Pipestone Bay	414434	5656407	1	1.5	1	<1	1	<100	<10	<20	2	<10	110	1280	<10	7.65	<.1	18.65	1060	<10	<.05	1610	<.001	10	<.05	50
419	656441	Serpentinite	Pipestone Bay	415740	5656613	4	1	<1	<1	0.3	<100	<10	<20	2.1	<10	130	640	<10	5.35	<.1	22.9	730	<10	<.05	2380	0.001	40	<.05	10
421	656443	Peridotite	Pipestone Bay	416369	5657503	2	1	<1	<1	0.25	<100	<10	<20	2	<10	100	1210	<10	5.45	<.1	22.3	680	<10	<.05	1540	0.001	<10	<.05	10
422	656444	Serpentinite	Pipestone Bay	416417	5657421	8	0.5	<1	<1	0.25	<100	<10	<20	0.05	<10	90	930	<10	4.75	<.1	21.5	540	<10	<.05	1970	<.001	10	<.05	10
425	656447	Altered ultramafic	Pipestone Bay	416794	5656213	<1	0.5	<1	<1	0.15	<100	<10	<20	1.55	<10	120	820	<10	4.95	<.1	23.5	440	<10	<.05	2430	<.001	10	<.05	10
426	656448	Altered Ultramafic	Pipestone Bay	416791	5656208	<1	1.5	<1	<1	0.1	<100	<10	<20	1.3	<10	110	2150	<10	4.75	<.1	17.95	470	<10	<.05	2740	<.001	<10	<.05	10
427	656449	Altered Ultramafic	Pipestone Bay	416793	5656153	69	1.5	3	<1	0.05	<100	<10	<20	0.95	<10	100	810	<10	3.7	<.1	20.8	450	<10	<.05	2450	0.001	20	<.05	<10
429	370601	Serpentinite	Middle Bay	416191	5655710	1	0.5	<1	<1	0.1	<100	<10	<20	10.1	<10	80	470	<10	2.9	<.1	16.45	910	<10	<.05	1820	0.001	80	<.05	<10
430	370602	Serpentinite	Middle Bay	416117	5655748	6	0.5	<1	<1	0.15	<100	<10	<20	0.05	<10	80	800	<10	2.65	<.1	20.5	830	<10	<.05	1660	0.001	70	<.05	<10
431	370603	Felsic Volcanic	Middle Bay	416121	5655762	<1	<.5	<1	<1	8.55	300	<10	<20	0.65	<10	<10	80	<10	1.35	2.5	2.05	130	<10	0.35	70	0.001	130	0.05	20
432	370604	Serpentinite	Middle Bay	416119	5655765	<1	<.5	<1	<1	0.05	<100	<10	<20	11.45	<10	80	680	<10	2.6	<.1	12.9	1830	<10	<.05	1880	0.001	170	<.05	<10
433	370605	Serpentinte	Middle Bay	416101	5655773	<1	<.5	<1	<1	0.1	<100	<10	<20	2.9	<10	90	900	<10	2.95	<.1	17.1	550	<10	<.05	2170	<.001	60	<.05	<10
434	370606	Peridotite	Middle Bay	415984	5655733	2	1	<1	<1	0.2	<100	<10	<20	0.85	<10	90	2710	<10	3.9	<.1	18.8	1270	<10	<.05	1930	0.001	30	<.05	10
435	370607	Serpentinite	Pipestone Bay	415826	5655499	9	<.5	<1	<1	1.7	<100	<10	<20	2.7	<10	100	830	<10	4.5	<.1	16.3	1100	<10	<.05	2170	<.001	90	<.05	10
435	370608	Felsic Dike	Pipestone Bay	415826	5655499	2	<.5	<1	2	8.8	700	<10	<20	1.35	<10	30	110	10	5.05	1.8	3.65	680	<10	2.6	210	0.002	360	0.25	110
435	370609	Ultramafic	Middle Bay	415826	5655499	2	0.5	<1	<1	0.15	<100	<10	<20	0.05	<10	90	630	<10	3	<.1	18.55	570	<10	<.05	2110	<.001	50	<.05	<10
438	370612	Mafic Volcanic	Pipestone Bay	416795	5655754	<1	3	1	<1	7.05	200	<10	<20	5.15	<10	40	720	<10	3.5	0.6	6.65	640	<10	2.95	480	0.001	100	0.25	130
439	370613	Serpentinite	Pipestone Bay	416793	5655774	<1	2.5	<1	<1	1.3	<100	<10	<20	2.65	<10	50	1630	<10	5.8	<.1	14.75	1700	<10	<.05	460	0.002	40	<.05	110
441	370615	Felsic Volcanic	Pipestone Bay	416958	5656007	<1	<.5	<1	<1	7.85	<100	<10	<20	0.15	<10	10	130	<10	4.3	0.1	8.25	400	<10	0.95	90	<.001	30	<.05	30
442	370616	Serpentinite	Pipestone Bay	416972	5656011	<1	0.5	<1	1	0.15	<100	<10	<20	<.05	<10	100	730	20	4.2	<.1	18.95	720	<10	<.05	2210	<.001	40	<.05	<10
443	370618	Intermediate Volcanic	Pipestone Bay	417284	5655988	<1	6.5	1	<1	6.95	100	<10	<20	6.5	<10	30	160	10	2.8	0.2	4.3	710	<10	3.7	200	<.001	200	0.25	160
444	370619	Mafic Volcanic	Pipestone Bay	417248	5655908	<1	6.5	1	1	7.35	<100	<10	<20	2.7	<10	40	180	<10	3.25	1.8	6.85	590	<10	1.9	540	0.001	60	0.15	200
445	370620	Mafic Volcanic	Pipestone Bay	417273	5655875	1	2.5	2	<1	6.7	<100	<10	<20	5.45	<10	40	210	<10	3.75	0.6	4.4	770	<10	2.3	340	<.001	90	0.05	140
446	370617	Serpentinite	Pipestone Bay	417091	5656053	1	1	<1	<1	0.35	<100	<10	<20	0.05	<10	120	1500	<10	3.95	<.1	18.55	740	<10	<.05	2510	<.001	60	<.05	10
447	370621	Mafic Volcanic	Middle Bay	414045	5654772	1800	4	5	47	2.05	<100	<10	100	3.95	<10	510	390	3850	16.6	0.1	2.55	1330	<10	0.4	290	0.02	40	0.05	80

Sample #	Zn (ppm)	Description
632515	60	Chert-mag IF. Fine sulphides based on weathering. Strike around 100.
632529	60	As preceding. Same sample site.
632530	<20	5-10% qz eyes, to 4 mm. Py-cp to c. 1%. Non-magnetic. End of trench.
632534	80	Actinolitic. Bladed. Blebby py. Locally, wkly magnetic. Pervasively carbonatised. <20% plag.
632537	7060	Magnetic, locally. Pyritic in stock-work & veinlets.
632538	200	At contact between mafic volcanic (chloritic), well foliated, magnetic, cut by QV+Fe-carbonate veins, & felsic volcanic.
632539	100	As preceding, (but not differentiated). Both pyritic.
632540	40	Strongly magnetic, with intense Fe-carbonate alteration. Well defined fabric, no visible sulphides. Close to lg QV to 50 cm wide. Serpentinitic.
656420	160	BIF & argillite. Bands of cte & Fe-carbonate (?) massive sulphides at 1 locale (sampled - 656421) Locally yellow staining (limonite??) NVS. Banding at 115/61. Thick bed of grey finely laminated argillite within IF.
656421	80	Massive sulphide sample in IF Location as 656421
656422	20	Thin lamellar mt. Remainder chert. Diss, blebby & veinlet py, w latter parallel to main fabric/layering.
656431	<20	Dolomitised, QV at N edge of long o/c. V wkly fuchsitic. Albitised, sericitised, with possible late microcline. Stringer chl & poss v fine asp. Host unknown. Only carbonate-qz observed over 50m long x 2m wide.
656432	<20	Same location as 656431
656433	100	Same location as 656431.
656434	120	No veining observed. Old trench, trace py. Trace ?cp F-g.
656436	140	Non-magnetic, NVS. Abundant Fe-carbonate. By shoreline.
656438	100	Well foliated rock,weat'd srfc md gy, frsh srfc md gn, fgr, non mag'c, no carb, sm cubes of py <1mm across, plag, bt, chl/amph.
656439	100	Similar to above. Flows interbdd w 2m ct layers. Py in maf volc here is diss'd w smears on slip faces.
656440	20	Mgr, frsh srfc gy, weat'd surf dk gy, v-soft, no carb, magnetic, no visible sulphides, massive, mainly serp &/or chl, no veins
656441	20	Fgr, weat'd srfc lt gy, frsh srfc md gn, dk gn on polished srfc, magnetic, cntns sm xtls of mt (<0.2mm), some carb, no sulphides, massive, composed of mt and lt gn scratchable min - serp?, prev mppd as anorthosite by Toby+Lea and as serpentinite by OGS.
656443	20	Fgr, lt gy to white weat'd srfc, dk gy w lt gn frsh srfc, v-hard so silicified?, mt xlts, some mt veins ~0.5mm wide, no visible sulphides, no carb.
656444	<20	V-soft (scratches with nail), lt gy frsh srfc, lt gy/white weat'd srfc, magnetic, mostly serp + talc (?-white), some carb, massive, no visible sulphide, <1% visible mt xtls.
656447	<20	Yellowish-gy weat'd srfc, gy frsh srfc, magnetic, some mt xtls, ksp+ep alt'n veins w galena, hematite staining, negligible amount of carb, rock is not scratched by knife, no visible sulphides.
656448	60	Rock scratched by knife, lt gy weat'd srfc, md gy frsh srfc, carb veins, weakly mag, no sulphides, lt pink from hematite staining?, some talc bc white & scratched by nail.
656449	20	V-weakly mag, carb veins throughout oc, v-soft, lt gy frsh srfc, dk gy weat'd srfc, porphyroblasts of dk gy min, no sulphides, composed of serpentine.
370601	<20	V-soft (scratched by nails), x-cut by veins of carb that are flattened in one way and stretched in the other, serp+talc, v-lt gy fresh srfc, lt gy weat'd srfc, non mag, no sulphides, no carb.
370602	<20	Lt gy weat'd srfc, md gy frsh srfc, non magnetic, soft, no visible sulphides, x-cut by Fe-carb veins (lt brown-orange) up to 5cm wide, massive, fgr, <0.2mm black xtls of chromite +/-talc?, &/or sericite?
370603	20	Md gn weat'd srfc, md gy frsh srfc, ~1% well rounded clear qz eyes up to 3mm in diameter, sericite, chl?, scratched lightly by knife, some carb, no visible sulphides, non magnetic, slight hematite staining giving rock a lt pink stain, fgr.
370604	20	Fgr, massive, weakly magnetic where ocre coloured stain and veining is, lt gy weat'd & frsh srfc, talc+sericite, poss serp?, no sulphides, scratches w knife, talc sericite schist (alt'd ultramafic).
370605	<20	Depending on qty of talc there are diff strenghts of magnetism (low talc-magnetic, high-talc-non-magnetic), lt to md gy frsh srfc, no sulphides, soft, x-cutting Fe-carb staining, massive, fgr.
370606	20	Lt gy weat'd srfc, md gy frsh srfc, fgr, massive, magnetic, no sulphides, serp+bt, x-cutting carb veins up to 2cm wide, pitted weat'd srfc.
370607	60	V-soft, magnetic, no visible sulphides, full of carb giving it a lt brown colour in certain areas, lt gy to white weat'd srfc, md gy frsh srfc, serp, bt (more in fuch-poor parts of oc), mgr, pitted weat'd srfc, fuch vein? Or alt'n.
370608	100	Mostly plag, some act, white weat'd srfc, md gy frsh srfc, fgr, 1.5m wide, v-fgr diss tarnished cubic py, weakly mag (mt or po?), near cntct w ultramafic it is more mafic looking (w bt &/or chl).
370609	20	Cntns metallic xtls <0.1mm that doesn't streak and is non magnetic (chromite?).
370612	60	Similar to 437 but white weat'd srfc, act xtls not as cgr (2cm long), lots of plag on weat'd srfc in btw lbades of amph (looks like spinifex txt), no sulphides, non magnetic.
370613	20	V-magnetic, soft, md gn weat'd srfc, md gn frsh srfc, fgr, no sulphides, poss some carb, mostly serp but some bt.
370615	140	Lt gn weat'd srfc, mf gn frsh srfc, ~2-3% well rounded qz eyes up to 2mm in diameter, non magnetic, fgr, massive, scratched by knife, gn min prob chl, no sulphides, no visible plag, x-cut by ~4mm wide qz veins.
370616	40	Lt gy weat'd srfc, lighter gy frsh srfc, v-magnetic, mostly comp'd of lt gy flaky serp that turns brownish orange near weat'd srfc, ~2%bt xtls, soft, carb(?) in veins 3mm wide, no sulphides, mgr.
370618	100	Lt gy weat'd srfc, lt gy-gn frsh srfc, non magnetic, fgr, carbonatized, v-hard, plag+act, no sulphides, homogeneous, <25% amph.
370619	80	Fgr, non magnetic, no carb, no sulphides, lt gy-gn weat'd srfc, dk gn frsh srfc, soft, prob chl+act+pplag, massive.
370620	60	Non magnetic, carbnatized (lcl carb-poor), lt gy-gn weat'd srfc, dk gn frsh srfc, <1% diss <0.5mm cubic py, v-fgr, hard, act+plag (50-50).
370617	40	Lt gy weat'd srfc, lt gy frsh srfc, no carb, wkly magnetic, massive, serp, no sulphides, fgr, pitted weat'd srfc, musc?
370621	1480	Dk gy weat'd & frsh srfc, sm shear zone w Fe-carb veins pll to shear, qz-carb ladder veins, ~10% po(magnetic)-py-cp, mineralization in veinlets and diss in carb veins creating massive sections 0.5cm wide, act alt'n.

Appendix 4

Assay certificates from XRAL Laboratories

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 065244

To: **Goldcorp Inc.**
Attn: T. Hughes

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Date : 10/10/01

Copy 1 to :

P.O. No.	:	
Project No.	:	Middle Bay
No. of Samples	:	38 Rock
Date Submitted	:	13/09/01
Report Comprises	:	Cover Sheet plus Pages 1 to 12

Distribution of unused material:
Pulps: Pulps returned after 90 days of reporting.
Rejects: Rejects returned after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

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

Work Order: 065244 **Date:** 10/10/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.4	14.8	10.9	11.6	1.36	0.43	9.22	0.16	0.375	0.03	0.06	2.30	99.7
632541	38.5	0.67	5.65	31.4	<0.01	0.04	8.14	0.09	0.030	<0.01	0.67	15.2	100.3
632542	34.3	0.30	1.34	38.8	<0.01	0.04	7.89	0.14	0.019	<0.01	0.33	17.3	100.4
632543	35.4	0.53	3.23	37.3	<0.01	0.03	8.05	0.12	0.028	<0.01	0.23	15.4	100.2
632544	35.6	0.23	4.06	36.2	<0.01	0.03	7.02	0.08	0.021	<0.01	0.24	16.9	100.3
632545	41.7	1.10	7.99	27.0	<0.01	0.03	5.64	0.26	0.085	<0.01	0.17	16.1	100.1
632546	36.2	1.18	0.78	35.0	<0.01	0.02	10.7	0.09	0.047	<0.01	0.65	16.1	100.7
632547	42.2	1.88	0.06	36.1	<0.01	0.03	9.18	0.06	0.072	<0.01	0.28	10.5	100.2
632548	35.0	0.54	3.68	34.5	<0.01	0.02	8.48	0.09	0.030	<0.01	0.26	17.6	100.2
632549	38.7	0.97	0.32	38.3	<0.01	0.03	9.12	0.08	0.048	<0.01	0.26	11.9	99.6
632550	36.2	2.70	1.66	33.3	<0.01	0.04	11.4	0.16	0.098	<0.01	0.65	14.3	100.5
656401	37.6	1.98	1.41	34.2	<0.01	0.04	11.8	0.09	0.095	<0.01	0.79	12.4	100.3
656402	38.7	1.08	0.05	37.6	<0.01	0.03	9.77	0.12	0.045	<0.01	0.39	12.5	100.2
656403	40.1	1.94	1.82	31.7	<0.01	0.03	7.65	0.09	0.088	<0.01	0.25	16.6	100.2
656404	55.2	14.2	7.76	5.93	3.04	0.29	11.0	0.18	0.465	0.07	0.02	0.90	99.0
656405	34.4	0.13	4.95	35.2	<0.01	0.04	8.55	0.12	0.015	<0.01	0.22	16.7	100.3
656406	29.0	0.05	14.5	25.6	<0.01	0.03	6.26	0.17	0.012	<0.01	0.32	24.7	100.6
656407	45.3	15.1	7.94	7.01	1.17	0.48	21.9	0.50	0.719	0.06	0.06	0.20	100.4
656408	55.4	16.4	8.21	3.88	2.69	1.07	10.2	0.29	0.871	0.07	0.05	0.75	99.8
656409	21.9	0.11	7.44	33.2	<0.01	0.03	6.30	0.18	0.011	<0.01	0.39	31.0	100.5
656410	31.5	0.10	<0.01	36.0	<0.01	0.02	7.91	0.09	0.020	<0.01	0.47	24.2	100.3
656411	34.7	0.34	0.18	34.1	<0.01	0.03	9.19	0.09	0.021	<0.01	0.48	21.2	100.4
656412	31.4	0.43	0.07	35.2	<0.01	0.03	9.02	0.11	0.022	<0.01	0.67	23.6	100.6
656413	54.0	6.02	10.8	6.66	0.34	0.65	5.13	0.29	0.501	0.05	1.31	14.5	100.3
656414	74.3	15.5	1.12	1.35	1.30	2.80	1.61	0.03	0.148	0.06	0.01	1.90	100.1
656415	59.7	12.6	5.75	6.47	0.38	2.45	5.58	0.11	0.275	0.02	0.10	6.65	100.0
656416	52.2	10.9	6.24	10.4	0.86	0.21	10.5	0.16	0.417	0.03	0.17	8.05	100.1
656417	44.4	9.56	8.60	15.4	0.20	0.07	13.3	0.22	0.340	0.02	0.30	7.20	99.6
656418	48.0	9.40	6.47	18.4	0.27	0.05	12.0	0.19	0.353	0.03	0.23	4.30	99.6
656419	71.7	13.7	2.84	2.66	0.42	3.60	2.34	0.06	0.201	0.04	0.06	2.60	100.2

Work Order: 065244 **Date:** 10/10/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
656423	73.0	15.4	1.64	1.27	3.46	2.51	1.62	0.02	0.236	0.05	0.01	1.05	100.2
656424	56.0	5.53	13.8	8.95	0.17	0.18	4.79	0.67	0.617	0.02	2.31	7.35	100.4
656425	54.0	10.2	11.2	9.47	0.39	0.13	11.7	0.24	0.317	0.03	0.25	1.95	99.9
656426	48.6	6.48	10.7	14.8	0.20	0.07	15.3	0.24	0.215	0.03	0.49	2.50	99.7
656427	48.7	6.16	11.2	13.5	0.09	0.20	12.5	0.35	0.207	0.02	1.22	6.35	100.5
656428	71.9	14.8	0.46	2.22	0.23	4.02	3.45	0.08	0.277	0.13	<0.01	2.55	100.1
656429	74.2	13.6	0.88	1.39	2.37	3.41	1.97	0.03	0.175	0.04	0.01	2.00	100.1
656430	41.5	2.71	0.91	34.6	<0.01	0.05	8.54	0.06	0.073	<0.01	0.37	11.3	100.1
656437	76.8	13.1	0.83	2.00	0.63	2.92	1.54	0.02	0.146	0.03	0.01	2.00	100.1
*Dup 632541	38.5	0.67	5.66	31.4	<0.01	0.03	8.14	0.09	0.030	<0.01	0.67	15.1	100.2
*Dup 656403	40.2	1.94	1.82	31.8	<0.01	0.03	7.63	0.09	0.088	<0.01	0.25	16.4	100.2
*Dup 656415	59.7	12.6	5.73	6.46	0.38	2.45	5.58	0.11	0.276	0.02	0.10	6.75	100.2
*Dup 656430	41.5	2.71	0.91	34.5	<0.01	0.05	8.51	0.06	0.073	<0.01	0.37	11.4	100.0

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632541	<1	12.1	<0.5	<0.1	3.1	123	0.2	144	<0.1	<0.1	<0.1	3	0.2	<1	<0.1	1.6
632542	<1	6.5	<0.5	<0.1	0.3	137	<0.1	<5	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	<0.1
632543	<1	6.4	<0.5	0.2	0.3	149	<0.1	7	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.2
632544	<1	12.4	<0.5	<0.1	0.2	131	<0.1	<5	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.1
632545	<1	5.1	<0.5	0.1	1.9	90.6	<0.1	<5	0.6	0.4	<0.1	3	0.5	<1	<0.1	0.8
632546	<1	6.3	<0.5	0.2	0.5	156	0.1	<5	0.1	<0.1	<0.1	3	<0.1	<1	<0.1	0.3
632547	<1	4.3	<0.5	<0.1	4.6	128	0.2	<5	0.2	0.1	<0.1	4	0.3	<1	<0.1	2.7
632548	<1	3.2	0.7	0.1	0.4	104	0.1	<5	<0.1	<0.1	<0.1	3	<0.1	<1	<0.1	<0.1
632549	<1	1.0	<0.5	<0.1	0.5	99.3	<0.1	<5	<0.1	<0.1	<0.1	3	<0.1	<1	<0.1	<0.1
632550	<1	4.8	<0.5	0.2	1.5	125	0.5	<5	0.5	0.3	<0.1	5	0.4	<1	<0.1	0.5
656401	<1	6.3	<0.5	0.3	1.3	117	0.2	<5	0.3	0.2	<0.1	4	0.3	<1	<0.1	0.5
656402	<1	12.8	<0.5	0.1	1.8	145	0.4	<5	0.1	<0.1	<0.1	5	<0.1	<1	<0.1	0.9
656403	<1	6.2	<0.5	0.2	1.7	107	<0.1	<5	0.2	0.1	<0.1	5	0.2	<1	<0.1	1.6
656404	<1	43.6	<0.5	0.1	14.5	48.5	0.3	11	2.0	1.2	0.4	14	2.0	1	0.4	7.5
656405	<1	5.9	<0.5	0.1	0.7	143	<0.1	<5	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.3
656406	<1	9.3	<0.5	0.3	0.7	126	<0.1	13	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.7
656407	<1	54.0	<0.5	0.2	5.2	60.4	2.5	151	3.3	2.3	0.4	14	2.2	<1	0.8	1.7
656408	<1	122	<0.5	0.2	6.5	50.6	1.8	176	2.9	1.7	0.3	13	2.2	1	0.6	2.3
656409	<1	12.9	<0.5	0.3	0.5	93.7	<0.1	10	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.8
656410	<1	8.7	<0.5	0.2	0.5	140	<0.1	<5	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	1.1
656411	<1	1.5	<0.5	<0.1	0.3	114	<0.1	<5	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	<0.1
656412	<1	17.8	<0.5	0.1	0.3	133	<0.1	<5	<0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.5
656413	<1	129	<0.5	0.1	13.9	74.1	1.3	84	1.1	0.7	0.2	8	1.1	2	0.2	7.3
656414	<1	464	1.3	<0.1	80.7	3.7	2.8	9	1.3	0.7	0.6	17	2.7	2	0.2	43.8
656415	<1	757	0.8	0.2	2.5	41.9	21.8	42	1.0	0.6	0.2	10	0.7	<1	0.2	1.5
656416	<1	93.7	<0.5	0.3	3.3	56.8	1.7	19	1.3	0.9	0.2	9	0.9	<1	0.3	1.1
656417	<1	23.2	<0.5	0.2	2.2	93.9	0.5	103	1.5	0.9	0.2	8	1.1	<1	0.3	0.6
656418	<1	16.5	<0.5	0.4	1.9	74.0	0.4	17	1.4	0.9	0.2	8	1.0	<1	0.3	0.7
656419	<1	544	0.7	0.1	20.4	18.2	7.4	11	0.8	0.4	0.2	13	1.0	2	0.1	10.2
656423	<1	399	1.1	<0.1	22.7	2.8	0.8	<5	0.5	0.2	0.3	16	1.1	2	<0.1	12.6

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
656424	<1	78.0	0.8	0.2	48.4	42.7	0.9	37	0.7	0.4	0.3	6	1.3	2	0.1	27.6
656425	<1	37.0	<0.5	0.3	6.5	62.3	0.7	31	1.2	0.8	0.1	9	1.0	<1	0.2	3.4
656426	<1	11.7	<0.5	0.2	2.0	130	0.1	176	0.9	0.6	0.1	6	0.7	<1	0.2	0.8
656427	<1	34.5	0.7	0.3	1.2	105	<0.1	14	0.9	0.5	0.1	6	0.7	<1	0.2	0.1
656428	<1	297	0.8	<0.1	24.8	6.4	3.6	<5	0.6	0.3	0.3	16	1.1	3	<0.1	11.2
656429	<1	461	1.2	<0.1	20.0	3.6	4.0	8	0.7	0.3	0.3	15	1.1	2	<0.1	11.7
656430	<1	9.8	<0.5	0.1	0.7	139	0.1	<5	0.1	<0.1	<0.1	2	<0.1	<1	<0.1	0.6
656437	<1	364	0.8	<0.1	22.0	3.1	3.1	<5	0.7	0.2	0.2	14	1.1	2	<0.1	13.3
*Blk BLANK	<1	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	288	0.9	<0.1	35.8	5.7	1.0	13	2.9	1.5	0.6	6	3.2	3	0.5	16.3
*Dup 632541	<1	14.2	<0.5	0.1	2.5	126	0.2	123	<0.1	<0.1	<0.1	3	0.1	<1	<0.1	1.3
*Dup 656403	<1	5.5	0.6	0.1	1.4	114	<0.1	<5	0.2	0.1	<0.1	3	0.2	<1	<0.1	1.3
*Dup 656415	<1	712	0.6	0.2	2.2	40.1	18.9	36	0.8	0.6	0.1	9	0.6	<1	0.2	1.2
*Dup 656430	<1	8.6	<0.5	0.1	0.6	140	0.1	<5	0.1	<0.1	<0.1	3	<0.1	<1	<0.1	<0.1
*Blk BLANK	<1	<0.5	0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	298	0.8	<0.1	32.9	5.2	1.0	15	2.7	1.5	0.6	6	3.0	3	0.5	15.6

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	0.1	1	0.1	0.5	0.1	0.1	0.5	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632541	<0.05	<2	<1	1.1	1780	261	0.3	2.2	0.1	<1	20.8	<0.5	<0.1	<0.1	<0.5	<0.1
632542	<0.05	<2	<1	<0.1	2230	10	<0.2	0.5	<0.1	<1	16.9	<0.5	<0.1	<0.1	<0.5	<0.1
632543	<0.05	<2	<1	0.2	2350	179	<0.2	<0.2	<0.1	<1	48.8	<0.5	<0.1	<0.1	<0.5	<0.1
632544	<0.05	<2	<1	0.2	2390	<5	<0.2	0.3	<0.1	<1	54.9	<0.5	<0.1	<0.1	<0.5	<0.1
632545	0.09	3	<1	1.4	1380	<5	0.3	0.3	0.4	<1	33.8	<0.5	<0.1	<0.1	<0.5	<0.1
632546	<0.05	<2	<1	0.3	2130	<5	<0.2	0.6	<0.1	<1	7.8	<0.5	<0.1	<0.1	<0.5	<0.1
632547	<0.05	<2	<1	1.8	1990	<5	0.5	0.5	0.3	<1	1.7	<0.5	<0.1	<0.1	<0.5	<0.1
632548	<0.05	<2	<1	0.2	2130	<5	<0.2	0.4	<0.1	<1	30.3	<0.5	<0.1	<0.1	<0.5	<0.1
632549	<0.05	<2	<1	0.3	2050	<5	<0.2	0.3	<0.1	<1	1.8	<0.5	<0.1	<0.1	<0.5	<0.1
632550	0.06	<2	<1	0.9	1440	<5	<0.2	0.6	0.2	<1	3.6	<0.5	<0.1	<0.1	<0.5	<0.1
656401	<0.05	<2	<1	0.9	1360	<5	<0.2	1.4	0.2	<1	4.8	<0.5	<0.1	<0.1	<0.5	<0.1
656402	<0.05	<2	<1	0.7	2040	10	0.2	1.8	0.1	<1	1.7	<0.5	<0.1	<0.1	<0.5	<0.1
656403	<0.05	<2	<1	0.8	1900	<5	0.4	<0.2	0.2	<1	8.8	<0.5	<0.1	<0.1	<0.5	<0.1
656404	0.21	<2	3	7.0	77	<5	1.8	2.9	1.6	<1	162	<0.5	0.3	0.9	<0.5	0.2
656405	<0.05	<2	<1	0.2	2040	23	<0.2	<0.2	<0.1	<1	17.7	<0.5	<0.1	<0.1	<0.5	<0.1
656406	<0.05	<2	<1	0.2	2030	<5	<0.2	<0.2	<0.1	<1	123	<0.5	<0.1	<0.1	<0.5	<0.1
656407	0.45	<2	2	4.2	154	<5	0.8	17.6	1.5	2	60.1	<0.5	0.4	0.2	<0.5	0.3
656408	0.28	2	2	5.3	110	<5	1.1	34.4	1.8	1	108	<0.5	0.4	0.2	<0.5	0.2
656409	<0.05	<2	<1	0.3	1630	<5	<0.2	0.3	<0.1	<1	39.5	<0.5	<0.1	<0.1	<0.5	<0.1
656410	<0.05	2	<1	0.3	2300	<5	<0.2	<0.2	<0.1	<1	0.5	<0.5	<0.1	<0.1	<0.5	<0.1
656411	<0.05	<2	<1	0.2	2090	<5	<0.2	<0.2	<0.1	<1	1.3	<0.5	<0.1	<0.1	<0.5	<0.1
656412	<0.05	<2	<1	0.2	2140	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1
656413	0.13	2	4	5.5	651	<5	1.6	21.7	1.0	<1	54.0	<0.5	0.2	1.5	<0.5	<0.1
656414	0.12	<2	6	28.1	30	7	8.6	108	3.8	1	89.1	<0.5	0.3	11.3	<0.5	<0.1
656415	0.14	<2	<1	1.7	283	<5	0.4	94.2	0.5	<1	47.8	<0.5	<0.1	0.2	<0.5	<0.1
656416	0.14	<2	1	2.2	226	<5	0.4	4.7	0.7	<1	81.1	<0.5	0.2	0.3	<0.5	0.1
656417	0.14	<2	<1	1.7	509	<5	0.3	1.4	0.7	<1	34.0	<0.5	0.2	<0.1	<0.5	0.1
656418	0.18	<2	<1	1.7	335	<5	0.3	0.8	0.6	<1	10.8	<0.5	0.2	0.2	<0.5	0.1
656419	0.09	2	4	6.4	168	33	1.9	110	1.1	<1	41.6	<0.5	0.1	4.1	<0.5	<0.1
656423	<0.05	<2	4	8.0	8	<5	2.4	52.2	1.2	<1	183	<0.5	<0.1	3.2	<0.5	<0.1

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	0.1	1	0.1	0.5	0.1	0.1	0.5	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
656424	0.09	2	5	13.5	178	11	4.5	8.1	1.8	2	60.7	<0.5	0.1	6.0	<0.5	<0.1
656425	0.16	3	<1	3.0	456	<5	0.8	1.9	0.7	<1	91.0	<0.5	0.1	0.2	<0.5	<0.1
656426	0.12	<2	<1	1.3	796	<5	0.3	0.8	0.4	<1	115	<0.5	0.1	<0.1	<0.5	<0.1
656427	0.12	<2	<1	1.1	1040	<5	<0.2	2.1	0.3	<1	105	<0.5	<0.1	<0.1	<0.5	<0.1
656428	<0.05	<2	4	7.2	89	<5	2.1	113	1.2	<1	40.8	<0.5	0.1	4.7	<0.5	<0.1
656429	<0.05	2	6	7.1	19	<5	2.1	128	1.4	1	44.7	0.7	0.1	4.8	<0.5	<0.1
656430	<0.05	<2	<1	0.3	2010	<5	<0.2	1.2	<0.1	<1	8.1	<0.5	<0.1	<0.1	<0.5	<0.1
656437	<0.05	<2	5	7.4	22	<5	2.3	99.4	1.4	<1	93.8	0.5	0.1	8.4	<0.5	<0.1
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1
*Std SO3	0.24	<2	6	16.6	16	8	4.4	39.2	3.2	1	225	<0.5	0.5	3.5	<0.5	0.2
*Dup 632541	<0.05	<2	<1	0.9	1650	239	0.2	2.0	0.1	<1	19.0	<0.5	<0.1	<0.1	<0.5	<0.1
*Dup 656403	<0.05	<2	<1	0.6	1990	<5	0.2	0.3	0.1	<1	10.1	<0.5	<0.1	<0.1	<0.5	<0.1
*Dup 656415	0.13	<2	<1	1.3	264	<5	0.2	90.1	0.4	<1	43.8	<0.5	<0.1	0.2	<0.5	<0.1
*Dup 656430	<0.05	<2	<1	0.2	2090	<5	<0.2	1.4	<0.1	<1	7.2	<0.5	<0.1	<0.1	<0.5	<0.1
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1
*Std SO3	0.24	<2	6	16.0	15	7	4.1	36.1	3.3	1	215	<0.5	0.4	3.3	<0.5	0.2

Element.	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632541	<0.1	49	<1	<1	<0.1	89	1.1
632542	<0.1	18	<1	<1	<0.1	47	<0.5
632543	<0.1	21	<1	<1	<0.1	39	<0.5
632544	<0.1	21	<1	<1	<0.1	38	<0.5
632545	<0.1	40	<1	4	0.4	71	2.8
632546	<0.1	46	1	<1	<0.1	63	0.8
632547	<0.1	59	<1	1	<0.1	61	2.0
632548	0.2	23	<1	<1	<0.1	33	2.5
632549	<0.1	39	<1	<1	<0.1	43	0.9
632550	<0.1	66	<1	3	0.3	50	4.5
656401	<0.1	62	<1	2	0.2	141	5.0
656402	<0.1	41	<1	<1	<0.1	53	1.5
656403	<0.1	57	<1	2	<0.1	41	4.9
656404	0.2	201	<1	12	1.1	100	55.0
656405	<0.1	17	<1	<1	<0.1	62	<0.5
656406	<0.1	16	<1	<1	<0.1	92	<0.5
656407	<0.1	306	<1	20	2.3	207	31.0
656408	<0.1	297	<1	16	1.5	98	39.7
656409	<0.1	19	<1	<1	<0.1	144	<0.5
656410	<0.1	24	<1	<1	<0.1	81	<0.5
656411	<0.1	22	<1	<1	<0.1	48	<0.5
656412	<0.1	36	<1	<1	<0.1	85	<0.5
656413	0.5	132	2	6	0.8	201	82.3
656414	2.5	20	1	8	0.7	23	104
656415	<0.1	207	<1	6	0.8	100	16.4
656416	<0.1	233	<1	8	0.9	80	21.4
656417	<0.1	199	<1	9	1.0	79	10.9
656418	<0.1	203	<1	8	0.9	117	15.7
656419	1.2	60	1	5	0.4	40	84.2
656423	0.5	27	<1	3	0.2	30	108

Element.	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm
656424	0.7	91	21	5	0.3	121	72.5
656425	<0.1	199	3	7	0.8	92	14.9
656426	<0.1	134	<1	6	0.6	141	7.1
656427	<0.1	153	25	5	0.6	230	4.3
656428	0.8	47	6	3	0.2	40	116
656429	1.5	24	2	3	0.2	45	95.1
656430	<0.1	54	2	<1	0.1	45	6.7
656437	1.8	17	3	3	0.2	36	73.2
*Blk BLANK	<0.1	<5	<1	<1	<0.1	<5	<0.5
*Std SO3	1.0	32	<1	16	1.5	52	143
*Dup 632541	<0.1	40	<1	<1	<0.1	77	1.5
*Dup 656403	<0.1	50	<1	1	0.1	45	4.6
*Dup 656415	<0.1	190	2	5	0.7	88	14.3
*Dup 656430	<0.1	54	1	1	0.1	50	7.2
*Blk BLANK	<0.1	<5	<1	<1	<0.1	<5	<0.5
*Std SO3	0.9	35	<1	15	1.4	48	146

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632541	0.26
632542	<0.01
632543	<0.01
632544	<0.01
632545	<0.01
632546	<0.01
632547	<0.01
632548	<0.01
632549	<0.01
632550	<0.01
656401	<0.01
656402	<0.01
656403	<0.01
656404	<0.01
656405	<0.01
656406	0.03
656407	0.13
656408	0.02
656409	<0.01
656410	<0.01
656411	<0.01
656412	<0.01
656413	0.29
656414	0.01
656415	<0.01
656416	<0.01
656417	<0.01
656418	<0.01
656419	<0.01
656423	<0.01

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
656424	0.02
656425	0.12
656426	0.54
656427	0.03
656428	<0.01
656429	0.04
656430	<0.01
656437	<0.01
*Dup 632541	0.27
*Dup 656403	<0.01
*Dup 656415	<0.01
*Dup 656430	<0.01
*Std SL_1	1.26

Element.	Se	As
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632541	<0.1	18.0
632542	<0.1	20.8
632543	<0.1	58.8
632544	<0.1	12.7
632545	<0.1	1.1
632546	<0.1	20.3
632547	<0.1	41.6
632548	<0.1	18.3
632549	<0.1	53.5
632550	<0.1	2.3
656401	<0.1	1.3
656402	<0.1	11.0
656403	<0.1	0.7
656404	<0.1	0.6
656405	<0.1	4.4
656406	0.1	0.7
656407	0.6	2.5
656408	0.2	6.5
656409	<0.1	0.6
656410	<0.1	1.0
656411	<0.1	0.6
656412	<0.1	0.9
656413	0.3	53.1
656414	<0.1	0.2
656415	0.1	7.1
656416	0.1	5.4
656417	0.2	8.4
656418	<0.1	0.3
656419	<0.1	80.0
656423	<0.1	<0.1

Element.	Se	As
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
656424	0.2	8.5
656425	0.2	1.4
656426	0.7	2.8
656427	0.1	6.2
656428	0.1	0.8
656429	<0.1	2.5
656430	0.1	10.0
656437	0.1	0.3
*Dup 632541	0.1	17.1
*Dup 656403	0.1	0.5
*Dup 656415	0.1	6.5
*Dup 656430	<0.1	10.4
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	2.8	307

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064811

To: **Goldcorp Inc.**
Attn: T. Hughes

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Date : 31/08/01

Copy 1 to :

P.O. No.	:	
Project No.	:	TB
No. of Samples	:	11 Rock
Date Submitted	:	20/08/01
Report Comprises	:	Cover Sheet plus Pages 1 to 6

Distribution of unused material:
Pulps: Return
Rejects: Return

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

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

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 064811 **Date:** 31/08/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.5	14.8	11.1	11.7	1.34	0.42	9.30	0.16	0.372	0.03	0.08	2.50	100.3
632522	72.4	14.4	1.80	0.61	4.85	2.00	1.79	0.02	0.224	0.06	0.02	1.90	100.1
632523	70.7	15.0	2.93	1.43	3.69	2.09	2.66	0.03	0.295	0.08	0.02	1.10	100.0
632524	49.6	14.5	10.5	7.86	1.71	0.55	13.0	0.20	0.694	0.05	0.06	1.50	100.2
632525	71.3	15.3	1.69	1.38	4.66	1.64	2.22	0.04	0.276	0.06	0.02	1.55	100.1
632526	55.6	13.7	11.4	6.80	1.31	0.16	9.56	0.17	0.557	0.06	0.03	0.90	100.2
632527	51.7	8.31	9.01	15.0	0.25	0.57	12.2	0.19	0.328	0.04	0.20	2.45	100.3
632528	38.3	2.82	0.50	34.1	<0.01	0.03	9.82	0.12	0.117	<0.01	1.25	13.4	100.4
632531	52.9	11.9	8.78	10.7	2.54	0.15	11.0	0.19	0.441	0.03	0.11	1.25	100.1
632535	76.0	12.2	0.11	1.28	0.35	2.99	4.63	0.03	0.234	0.04	0.01	2.25	100.1
632536	71.1	14.8	1.85	1.86	0.45	4.00	3.11	0.09	0.263	0.07	<0.01	2.55	100.1
632533	36.1	1.72	1.69	33.4	0.02	0.04	8.07	0.12	0.073	<0.01	0.32	18.7	100.2
*Dup 632522	72.2	14.6	1.79	0.62	4.87	2.01	1.80	0.02	0.222	0.06	0.02	1.80	100.1

Work Order: 064811 **Date:** 31/08/01 **FINAL**

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632522	<1	600	<0.5	<0.1	32.5	3.1	3.4	6	0.5	0.3	0.5	17	1.3	3	<0.1	20.6
632523	<1	279	<0.5	<0.1	37.8	4.0	3.4	<5	0.7	0.3	0.5	16	1.6	4	0.1	22.0
632524	<1	41.6	<0.5	0.3	5.4	48.6	1.1	129	2.1	1.8	0.4	12	1.8	1	0.6	2.4
632525	<1	237	2.7	<0.1	24.5	5.1	2.5	11	0.5	0.3	0.5	16	1.3	3	<0.1	14.0
632526	<1	21.5	<0.5	0.1	11.2	31.1	1.2	22	2.4	1.8	0.6	11	2.4	2	0.6	5.6
632527	<1	32.7	<0.5	0.3	6.9	60.0	5.7	<5	1.4	1.1	0.4	7	1.2	1	0.3	3.4
632528	<1	18.7	<0.5	0.2	3.4	113	0.3	11	0.4	0.3	0.1	3	0.4	<1	<0.1	2.4
632531	<1	32.4	<0.5	0.1	6.3	42.0	0.5	29	1.8	1.5	0.4	9	1.6	1	0.5	3.1
632535	<1	254	<0.5	0.2	27.9	4.6	4.2	29	0.5	0.3	0.6	13	1.3	3	0.1	17.3
632536	<1	520	1.3	0.2	32.1	7.6	7.7	<5	0.6	0.4	0.7	17	1.5	3	0.1	18.2
632533	<1	2.6	4.8	0.2	1.4	83.3	0.1	<5	0.2	0.2	<0.1	1	0.2	<1	<0.1	0.8
*Dup 632522	<1	583	<0.5	0.1	32.9	3.5	3.2	8	0.5	0.3	0.5	15	1.3	3	<0.1	20.4
*Blk BLANK	<1	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	283	1.0	0.1	32.6	4.5	1.0	14	3.0	1.7	0.8	7	3.2	4	0.5	17.0

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SC	Sm	Sn	Sr	Ta	Tb	Th	Tl
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	1	0.1	1	0.1	0.5	0.1	0.1	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632522	<0.05	<2	5	10.6	14	7	3.4	61.2	n.a.	1.8	<1	214	0.8	0.1	7.0	<0.5
632523	0.05	3	5	12.7	18	<5	4.0	48.6	n.a.	1.9	2	125	0.7	0.1	4.0	<0.5
632524	0.31	<2	2	3.4	137	7	0.8	11.6	n.a.	1.1	<1	138	<0.5	0.4	0.8	<0.5
632525	<0.05	2	3	8.1	<5	7	2.5	42.6	n.a.	1.2	<1	138	<0.5	0.1	2.9	<0.5
632526	0.29	<2	3	6.0	66	8	1.5	4.5	n.a.	1.6	<1	58.5	1.5	0.4	1.3	<0.5
632527	0.12	<2	4	3.9	283	<5	0.9	37.2	n.a.	0.9	<1	84.0	<0.5	0.2	0.8	<0.5
632528	0.06	<2	2	1.7	1780	7	0.5	2.0	n.a.	0.2	<1	2.9	8.9	<0.1	0.5	<0.5
632531	0.25	<2	2	3.7	123	8	0.9	2.0	n.a.	0.9	<1	83.9	<0.5	0.3	1.1	<0.5
632535	0.06	<2	5	8.6	27	5	2.8	84.3	n.a.	1.5	<1	17.3	0.5	0.1	3.8	<0.5
632536	<0.05	<2	3	11.5	10	6	3.4	114	n.a.	1.7	<1	35.8	<0.5	0.1	3.9	<0.5
632533	<0.05	<2	<1	0.7	1500	<5	<0.2	0.6	n.a.	0.2	<1	6.8	<0.5	<0.1	0.2	<0.5
*Dup 632522	0.05	<2	4	10.9	19	8	3.1	56.6	n.a.	1.6	<1	195	0.8	0.2	7.7	<0.5
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	n.a.	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5
*Std SO3	0.20	2	7	16.5	15	13	4.1	36.3	n.a.	3.5	<1	202	0.7	0.5	3.5	<0.5

Element.	Tm	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632522	<0.1	2.2	24	<1	2	0.3	36	131
632523	<0.1	0.6	35	2	3	0.3	27	134
632524	0.3	0.2	266	4	14	1.8	113	36.5
632525	<0.1	0.7	30	4	3	0.3	28	114
632526	0.3	0.2	235	2	15	1.9	84	45.7
632527	0.1	0.1	165	2	7	0.9	73	31.8
632528	<0.1	<0.1	63	3	1	0.3	218	8.1
632531	0.2	0.2	194	1	11	1.5	79	31.6
632535	<0.1	1.0	27	6	3	0.3	42	115
632536	<0.1	0.9	20	5	2	0.3	31	112
632533	<0.1	0.1	36	<1	<1	0.2	48	4.0
*Dup 632522	<0.1	2.4	22	<1	2	0.3	32	123
*Blk BLANK	<0.1	<0.1	<5	<1	<1	<0.1	<5	<0.5
*Std SO3	0.2	1.2	32	<1	14	1.6	49	148

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632522	0.01
632523	<0.01
632524	0.09
632525	<0.01
632526	0.02
632527	<0.01
632528	0.08
632531	<0.01
632535	0.02
632536	<0.01
632533	<0.01
*Dup 632522	0.01
*Std SO4	0.05

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632522	0.3	0.2
632523	0.5	<0.1
632524	0.4	0.5
632525	0.3	0.4
632526	0.4	0.5
632527	0.3	<0.1
632528	52.5	0.3
632531	0.3	0.1
632535	1.3	0.3
632536	1.7	0.2
632533	3.1	<0.1
*Dup 632522	0.3	0.1
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	>200	3.7

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064725

To: **Goldcorp Inc.**
Attn: T. Hughes

Date : 29/08/01

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Copy 1 to :

P.O. No.	:	
Project No.	:	TROUT BAY
No. of Samples	:	26 Rocks
Date Submitted	:	13/08/01
Report Comprises	:	Cover Sheet plus Pages 1 to 10

Distribution of unused material:
Pulps: Pulps returned after 90 days of reporting.
Rejects: Rejects returned after 30 days of reporting.

Certified By :

per
Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

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

Work Order: 064725 **Date:** 29/08/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.5	14.8	11.0	11.6	1.36	0.44	9.28	0.16	0.378	0.03	0.06	2.40	100.1
632491	54.1	13.4	9.84	7.36	1.68	0.81	10.8	0.23	0.520	0.04	0.12	1.30	100.2
632492	71.3	14.9	2.99	1.56	3.29	2.15	2.42	0.03	0.288	0.06	0.01	1.15	100.1
632493	74.2	13.8	2.09	1.43	0.85	2.95	2.65	0.06	0.245	0.06	0.02	1.85	100.2
632494	50.0	14.2	9.53	8.03	1.79	0.48	13.8	0.24	0.815	0.07	0.04	1.50	100.5
632498	53.4	14.0	6.95	8.55	3.45	0.14	11.6	0.19	0.435	0.04	0.03	1.30	100.1
632499	46.2	6.24	7.07	22.6	0.04	0.07	11.2	0.17	0.241	0.01	0.50	5.85	100.2
632500	43.3	5.33	3.27	27.2	<0.01	0.04	10.9	0.14	0.187	0.01	0.60	9.45	100.4
632501	68.6	15.3	3.03	1.49	5.13	1.44	2.26	0.03	0.239	0.06	0.02	2.45	100.0
632502	67.2	16.4	2.15	1.96	1.19	2.49	5.46	0.26	0.373	0.18	0.01	2.50	100.2
632503	47.3	3.88	14.8	18.3	0.21	0.10	7.80	0.20	0.269	0.01	0.43	6.35	99.6
632504	54.4	12.1	10.2	6.00	1.83	1.09	9.44	0.18	0.645	0.28	0.04	4.20	100.5
632505	37.9	2.25	4.16	30.0	<0.01	0.05	11.0	0.18	0.133	<0.01	0.43	14.4	100.4
632506	64.8	14.6	5.06	3.18	0.66	3.55	4.71	0.06	0.469	0.18	0.02	2.70	100.0
632507	72.1	15.4	1.82	1.40	0.39	4.21	1.80	0.05	0.231	0.06	<0.01	2.60	100.0
632509	48.5	4.88	7.88	23.4	0.06	0.05	9.55	0.16	0.153	0.02	0.51	5.05	100.3
632510	39.2	6.25	13.8	17.6	0.20	0.42	10.3	0.27	0.233	0.02	0.32	11.5	100.2
632511	32.4	10.7	16.6	14.2	0.49	0.09	12.4	0.28	0.358	0.03	0.56	12.2	100.3
632512	40.4	9.82	6.04	21.7	0.14	0.05	14.1	0.24	0.387	0.03	0.51	6.65	100.2
632513	44.0	7.75	6.69	23.5	0.06	0.05	10.8	0.18	0.204	0.04	0.36	6.55	100.2
632514	47.2	6.08	7.78	22.6	0.05	0.04	10.6	0.18	0.231	<0.01	0.51	5.00	100.2
632516	69.9	15.1	1.01	1.33	8.09	0.21	1.73	0.02	0.227	0.06	0.01	1.10	98.8
632517	48.0	4.16	4.93	24.4	0.04	0.03	9.67	0.16	0.141	<0.01	0.62	8.10	100.3
632518	41.4	7.85	9.18	13.3	<0.01	0.04	10.9	0.17	0.292	0.02	0.35	16.8	100.3
632519	21.6	2.57	18.0	20.4	<0.01	0.08	8.19	0.34	0.088	0.03	0.33	28.8	100.4
632520	75.0	13.8	1.46	1.71	0.90	3.10	1.53	0.02	0.143	0.03	0.01	2.30	100.1
632521	32.0	4.99	15.5	14.0	<0.01	0.08	8.20	0.26	0.241	<0.01	0.44	24.7	100.4
*Dup 632491	54.2	13.4	9.81	7.34	1.68	0.81	10.7	0.23	0.520	0.04	0.12	1.40	100.3
*Dup 632506	64.8	14.6	5.05	3.18	0.66	3.55	4.73	0.06	0.471	0.18	0.02	2.60	100.0
*Dup 632520	75.0	13.8	1.46	1.71	0.90	3.09	1.53	0.02	0.144	0.03	0.01	2.35	100.1

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632491	<1	235	<0.5	0.2	6.4	45.0	2.9	37	2.3	1.4	0.4	12	1.7	1	0.5	2.8
632492	<1	330	<0.5	0.1	17.6	7.0	3.1	14	0.5	0.3	0.3	18	1.0	3	<0.1	9.4
632493	<1	284	<0.5	0.3	23.3	4.8	3.9	6	0.7	0.3	0.4	17	1.2	3	<0.1	13.6
632494	<1	40.2	<0.5	<0.1	4.7	52.0	2.2	150	3.1	2.0	0.7	16	2.5	1	0.6	1.9
632498	<1	17.7	<0.5	0.1	3.7	51.2	0.3	61	1.8	1.2	0.4	11	1.2	<1	0.4	1.5
632499	<1	22.3	<0.5	<0.1	2.6	98.4	0.7	31	0.8	0.7	0.1	5	0.6	<1	0.1	1.5
632500	<1	12.0	<0.5	0.1	4.1	104	0.1	32	0.6	0.4	<0.1	5	0.6	<1	0.2	2.6
632501	<1	225	<0.5	0.3	23.1	4.5	1.6	7	0.7	0.4	0.4	17	1.3	3	0.1	13.3
632502	<1	430	<0.5	0.1	74.7	5.0	2.9	<5	1.8	1.2	1.2	18	3.4	4	0.3	37.8
632503	<1	13.3	<0.5	0.1	1.6	53.0	0.3	7	1.1	0.7	0.3	4	1.0	<1	0.2	0.6
632504	<1	123	<0.5	<0.1	95.3	39.2	18.3	76	3.0	1.5	2.1	12	5.3	3	0.5	44.5
632505	<1	12.0	<0.5	0.2	1.4	114	0.3	15	0.4	0.3	<0.1	3	0.4	<1	<0.1	0.7
632506	<1	390	<0.5	0.3	32.9	10.3	4.0	9	1.5	0.8	0.9	15	2.3	3	0.2	18.8
632507	<1	346	<0.5	0.3	26.9	5.2	1.1	<5	0.6	0.3	0.6	19	1.4	4	<0.1	15.4
632509	<1	19.4	<0.5	0.2	1.0	82.7	0.4	66	0.4	0.3	<0.1	5	0.3	<1	<0.1	0.5
632510	<1	174	<0.5	0.1	6.2	63.9	0.4	17	1.1	0.8	0.3	6	1.0	<1	0.3	3.3
632511	<1	22.0	<0.5	0.1	3.1	101	0.2	25	1.5	1.1	0.2	10	1.1	<1	0.3	1.3
632512	<1	6.1	<0.5	0.2	2.3	82.3	0.6	<5	1.9	1.1	0.3	7	1.2	<1	0.3	0.8
632513	<1	6.3	<0.5	0.2	1.0	69.9	0.2	<5	0.6	0.6	<0.1	5	0.6	<1	0.1	0.4
632514	<1	8.5	0.6	0.2	1.4	83.6	0.3	8	0.8	0.7	0.1	5	0.7	<1	0.2	0.6
632516	<1	13.8	2.0	0.2	24.2	3.2	<0.1	5	0.8	0.3	0.3	15	1.5	3	0.1	13.2
632517	<1	7.3	1.2	0.1	2.5	85.1	<0.1	15	0.7	0.5	0.1	4	0.6	<1	0.1	1.3
632518	<1	7.8	<0.5	0.3	9.4	55.1	0.2	924	1.3	0.9	0.3	7	1.0	<1	0.2	6.3
632519	<1	5.6	1.7	0.1	12.0	65.2	<0.1	10	0.6	0.3	0.3	2	0.9	<1	<0.1	4.2
632520	<1	490	0.5	0.3	27.9	3.6	4.3	5	0.8	0.4	0.5	16	1.4	3	<0.1	17.2
632521	<1	11.7	2.3	0.2	6.1	91.5	0.4	<5	1.0	0.7	0.2	5	0.8	<1	0.2	2.2
*Dup 632491	<1	249	<0.5	0.2	6.9	41.2	3.0	36	2.4	1.5	0.5	11	1.6	1	0.5	3.1
*Dup 632506	<1	419	<0.5	0.2	35.3	9.7	4.3	7	1.4	0.9	1.0	16	2.3	3	0.3	20.3
*Dup 632520	<1	473	<0.5	0.3	26.6	3.2	4.1	7	0.6	0.4	0.5	15	1.2	3	0.1	16.5
*Blk BLANK	<1	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std SO3	<1	286	<0.5	0.1	32.3	5.1	1.0	14	2.7	1.7	0.8	6	3.3	4	0.5	16.5

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	0.1	1	0.1	0.5	0.1	0.1	0.5	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632491	0.27	<2	2	3.8	184	16	0.9	31.2	1.0	6	110	<0.5	0.3	0.4	<0.5	0.2
632492	<0.05	<2	4	5.6	24	15	1.7	51.1	1.0	5	141	<0.5	<0.1	4.3	<0.5	<0.1
632493	<0.05	<2	4	8.0	<5	22	2.3	75.2	1.4	8	81.2	<0.5	0.1	4.2	<0.5	<0.1
632494	0.32	<2	3	3.9	121	10	0.7	12.2	1.6	11	126	<0.5	0.4	0.2	<0.5	0.3
632498	0.21	<2	2	2.5	104	9	0.4	1.6	0.9	9	131	<0.5	0.2	0.2	<0.5	0.2
632499	0.10	<2	<1	1.4	892	<5	0.3	1.7	0.4	7	33.3	<0.5	<0.1	<0.1	<0.5	<0.1
632500	0.08	<2	<1	1.9	1180	<5	0.5	0.2	0.4	10	31.6	<0.5	<0.1	<0.1	<0.5	<0.1
632501	<0.05	2	4	7.9	10	9	2.4	43.3	1.4	6	186	<0.5	0.1	3.1	<0.5	<0.1
632502	0.17	<2	5	30.0	<5	13	8.8	88.4	4.4	6	141	<0.5	0.3	10.2	<0.5	0.1
632503	0.11	<2	<1	1.2	328	<5	0.2	1.1	0.6	9	27.0	<0.5	0.1	<0.1	<0.5	<0.1
632504	0.18	<2	3	41.5	88	11	11.4	56.4	6.9	3	344	<0.5	0.6	11.0	<0.5	0.2
632505	<0.05	<2	<1	0.8	1490	<5	<0.2	0.8	0.3	3	14.1	<0.5	<0.1	<0.1	<0.5	<0.1
632506	0.10	<2	5	13.4	37	7	3.8	107	2.6	1	64.6	0.6	0.2	5.2	0.5	<0.1
632507	<0.05	2	4	10.0	7	17	2.8	90.7	1.7	1	43.2	<0.5	0.1	3.5	<0.5	<0.1
632509	0.05	<2	<1	0.6	1140	<5	<0.2	0.7	0.3	<1	23.1	<0.5	<0.1	<0.1	<0.5	<0.1
632510	0.11	<2	<1	2.9	691	<5	0.7	13.8	0.7	<1	55.8	<0.5	0.2	0.3	<0.5	0.1
632511	0.16	<2	<1	2.0	887	5	0.4	1.0	0.8	<1	124	<0.5	0.2	0.2	<0.5	0.1
632512	0.19	<2	<1	1.9	469	<5	0.3	0.6	0.9	<1	17.6	<0.5	0.2	0.2	<0.5	0.1
632513	0.08	<2	<1	0.9	600	<5	<0.2	0.8	0.3	<1	10.4	<0.5	<0.1	0.2	<0.5	<0.1
632514	0.09	<2	<1	1.0	879	<5	<0.2	0.8	0.4	<1	10.6	<0.5	<0.1	0.2	<0.5	<0.1
632516	<0.05	<2	4	8.5	14	<5	2.6	1.5	1.5	6	38.8	<0.5	0.1	3.0	<0.5	<0.1
632517	0.10	<2	<1	1.3	1160	<5	0.2	<0.2	0.4	<1	44.2	<0.5	<0.1	<0.1	<0.5	<0.1
632518	0.13	<2	<1	3.4	369	46	0.9	0.9	0.9	<1	64.0	<0.5	0.2	0.2	<0.5	<0.1
632519	<0.05	2	<1	4.2	1230	<5	1.0	0.5	0.8	<1	41.7	<0.5	<0.1	0.2	<0.5	<0.1
632520	<0.05	<2	6	9.2	6	15	2.8	111	1.5	5	84.8	0.9	0.1	8.0	<0.5	<0.1
632521	0.13	<2	1	3.1	1080	6	0.8	3.0	0.7	<1	113	<0.5	<0.1	0.3	<0.5	0.1
*Dup 632491	0.27	<2	2	4.2	175	15	0.9	29.6	1.2	4	99.9	<0.5	0.3	0.6	<0.5	0.2
*Dup 632506	0.11	<2	5	14.8	36	6	4.0	112	2.6	3	69.9	0.6	0.3	5.1	<0.5	0.1
*Dup 632520	0.06	<2	5	8.5	<5	14	2.5	108	1.6	3	83.8	0.9	0.1	7.9	<0.5	<0.1
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	0.1	1	0.1	0.5	0.1	0.1	0.5	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std SO3	0.24	3	6	15.7	12	13	4.1	37.3	3.2	<1	212	0.6	0.4	3.3	<0.5	0.2

Element.	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632491	0.1	265	2	13	1.5	92	40.0
632492	0.7	35	2	3	0.3	27	127
632493	1.0	27	5	3	0.2	162	138
632494	<0.1	318	<1	17	2.0	137	46.2
632498	<0.1	256	4	12	1.5	100	30.0
632499	<0.1	148	<1	5	0.6	74	11.7
632500	<0.1	120	<1	4	0.5	79	9.1
632501	0.8	24	2	3	0.3	39	129
632502	2.3	32	8	10	1.0	94	147
632503	<0.1	165	2	6	0.6	56	10.8
632504	2.2	173	1	14	1.3	103	107
632505	<0.1	68	2	2	0.2	81	5.2
632506	1.6	66	2	7	0.6	77	114
632507	1.1	22	5	3	0.3	38	119
632509	<0.1	100	<1	2	0.3	63	6.7
632510	0.1	147	<1	7	0.8	155	13.7
632511	0.1	250	<1	9	0.9	160	20.3
632512	<0.1	214	<1	8	1.0	97	21.3
632513	<0.1	150	<1	4	0.5	78	11.1
632514	<0.1	137	<1	4	0.7	63	9.3
632516	0.8	22	<1	4	0.3	42	122
632517	<0.1	104	<1	4	0.6	122	5.8
632518	0.2	169	3	6	0.7	628	11.9
632519	0.1	57	3	3	0.3	89	4.7
632520	2.7	15	8	3	0.3	37	100
632521	0.1	117	3	5	0.8	93	9.7
*Dup 632491	0.2	240	3	12	1.7	90	39.8
*Dup 632506	1.8	74	3	8	0.7	78	126
*Dup 632520	2.6	14	8	3	0.2	41	94.0
*Blk BLANK	<0.1	<5	<1	<1	<0.1	<5	<0.5

Element.	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Std SO3	1.1	34	1	15	1.6	47	151

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632491	0.04
632492	<0.01
632493	<0.01
632494	<0.01
632498	<0.01
632499	<0.01
632500	<0.01
632501	<0.01
632502	<0.01
632503	<0.01
632504	<0.01
632505	<0.01
632506	<0.01
632507	0.01
632509	<0.01
632510	<0.01
632511	<0.01
632512	<0.01
632513	<0.01
632514	<0.01
632516	<0.01
632517	<0.01
632518	0.06
632519	0.05
632520	0.15
632521	<0.01
*Dup 632491	0.05
*Dup 632506	<0.01
*Dup 632520	0.16
*Std SL_1	1.24

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632491	0.3	0.2
632492	0.3	0.1
632493	0.3	0.1
632494	0.6	0.3
632498	0.5	0.3
632499	0.7	0.2
632500	2.0	0.3
632501	1.0	<0.1
632502	2.0	0.3
632503	0.2	0.2
632504	1.2	0.3
632505	3.6	0.2
632506	0.6	<0.1
632507	0.3	<0.1
632509	2.0	0.2
632510	0.9	0.1
632511	21.7	<0.1
632512	0.4	0.1
632513	0.2	<0.1
632514	<0.1	<0.1
632516	0.3	0.2
632517	33.0	0.2
632518	2.4	0.2
632519	6.8	<0.1
632520	1.0	<0.1
632521	1.2	<0.1
*Dup 632491	0.2	0.2
*Dup 632506	0.5	<0.1
*Dup 632520	0.8	<0.1
*Blk BLANK	<0.1	<0.1

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CERTIFICATE OF ANALYSIS

Work Order: 064724

To: Goldcorp Inc.
Attn: T. Hughes

Date : 29/08/01

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Copy 1 to :

P.O. No.	:	
Project No.	:	TROUT BAY
No. of Samples	:	15 Rocks
Date Submitted	:	14/08/01
Report Comprises	:	Cover Sheet plus Pages 1 to 6

Distribution of unused material:
Pulps: Pulps returned after 90 days of reporting.
Rejects: Rejects returned after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

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

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 064724 **Date:** 29/08/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.7	14.8	11.1	11.6	1.37	0.43	9.22	0.16	0.370	0.03	0.06	2.40	100.2
632439	71.6	14.4	2.01	1.38	1.52	3.49	3.39	0.03	0.263	0.07	0.02	1.90	100.1
632440	53.8	7.99	9.76	14.3	0.94	0.38	10.5	0.25	0.278	0.03	0.22	1.95	100.3
632441	50.6	8.06	11.1	15.5	0.70	0.21	11.3	0.21	0.296	0.02	0.37	1.85	100.2
632442	48.3	8.96	7.82	18.1	0.31	0.09	11.8	0.22	0.339	0.03	0.33	3.90	100.2
632443	42.1	12.0	6.97	18.4	0.26	0.10	14.2	0.23	0.472	0.06	0.15	5.10	100.1
632444	54.1	9.26	9.62	12.5	1.68	0.12	10.9	0.20	0.353	0.04	0.16	1.65	100.6
632446	47.5	15.7	9.98	7.98	2.33	0.79	13.5	0.17	1.212	0.10	0.04	0.75	100.0
632448	47.9	18.0	15.1	5.46	1.99	0.59	8.76	0.21	0.488	0.04	0.06	1.95	100.5
632449	49.8	19.4	11.8	4.95	2.46	0.77	9.32	0.25	0.514	0.04	0.07	0.60	100.0
632450	46.9	17.8	11.0	10.3	1.68	0.33	9.82	0.16	0.515	0.03	0.06	1.45	100.0
632451	48.9	16.9	11.8	9.30	1.65	0.66	9.35	0.18	0.431	0.03	0.06	0.95	100.2
632452	49.0	15.7	13.5	7.84	1.99	0.41	9.73	0.26	0.458	0.03	0.05	0.90	99.9
632453	47.4	21.0	11.6	4.99	2.17	1.27	9.15	0.14	0.539	0.04	0.02	1.70	100.0
632454	48.5	16.6	10.1	8.53	1.82	1.32	10.3	0.18	0.697	0.06	0.02	1.80	99.9
632455	48.0	22.0	13.0	3.68	2.40	0.69	8.38	0.12	0.777	0.05	0.02	1.05	100.2
*Dup 632439	71.5	14.5	2.01	1.39	1.52	3.48	3.41	0.03	0.265	0.07	0.02	1.90	100.1
*Dup 632453	47.4	21.1	11.6	5.02	2.17	1.26	9.13	0.14	0.538	0.04	0.02	1.70	100.1

Work Order: 064724 **Date:** 29/08/01 **FINAL**

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632439	<1	288	2.0	<0.1	23.9	7.1	4.5	10	0.5	0.3	0.5	17	1.3	3	<0.1	14.4
632440	<1	54.3	1.0	<0.1	4.5	53.4	4.5	32	1.3	0.9	0.2	9	0.9	<1	0.2	2.4
632441	<1	37.5	1.6	0.1	3.0	85.5	2.4	5	1.2	0.8	0.2	8	1.0	<1	0.2	1.3
632442	<1	12.5	1.5	0.1	2.2	72.5	1.0	14	1.4	1.0	0.2	14	0.9	<1	0.3	0.9
632443	<1	16.2	1.9	<0.1	3.6	69.8	1.0	8	1.7	1.3	0.6	11	1.4	2	0.4	1.4
632444	<1	19.8	1.2	<0.1	3.0	55.8	1.3	13	1.6	1.1	0.4	9	1.2	1	0.3	1.1
632446	<1	88.8	1.5	<0.1	9.5	49.4	3.9	42	3.9	2.3	0.9	17	3.5	2	0.8	3.5
632448	<1	46.3	1.2	<0.1	5.0	49.7	1.2	56	2.0	1.2	0.5	13	1.5	<1	0.4	2.3
632449	<1	198	1.5	<0.1	4.0	48.0	1.5	21	1.9	1.3	0.4	14	1.5	<1	0.4	1.5
632450	<1	38.7	1.3	<0.1	3.7	53.0	1.8	31	2.0	1.3	0.4	12	1.7	<1	0.4	1.4
632451	<1	52.0	<0.5	<0.1	3.1	43.3	1.9	24	1.6	1.0	0.4	12	1.3	<1	0.3	1.2
632452	<1	33.2	1.4	0.1	3.6	54.2	1.0	41	1.7	1.0	0.3	12	1.5	<1	0.3	1.3
632453	<1	503	1.0	<0.1	5.9	36.9	2.2	22	2.0	1.3	0.5	15	1.8	1	0.4	2.4
632454	<1	653	1.7	0.1	6.8	41.7	2.5	<5	2.7	1.8	0.6	13	2.3	1	0.6	2.7
632455	<1	319	1.1	<0.1	6.4	24.8	3.4	125	2.5	1.6	0.7	16	2.3	1	0.5	2.6
*Dup 632439	<1	280	1.5	<0.1	26.4	5.8	4.5	8	0.6	0.3	0.5	16	1.4	4	<0.1	15.6
*Dup 632453	<1	524	1.5	<0.1	6.3	32.5	2.2	25	2.0	1.3	0.6	13	1.8	1	0.4	2.8
*Blk BLANK	<1	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	258	1.9	<0.1	33.8	5.6	1.0	15	2.7	1.7	0.7	6	3.4	4	0.5	17.2

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	0.1	1	0.1	0.5	0.1	0.1	0.5	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632439	<0.05	2	5	8.2	14	14	2.7	95.5	1.4	2	77.4	<0.5	0.1	4.7	<0.5	<0.1
632440	0.13	<2	1	2.3	469	<5	0.5	14.7	0.6	<1	97.2	<0.5	0.1	0.7	<0.5	0.1
632441	0.13	<2	1	1.9	512	<5	0.4	6.6	0.5	3	64.1	<0.5	0.1	0.7	<0.5	<0.1
632442	0.14	<2	1	1.4	322	<5	0.3	2.9	0.5	<1	17.0	<0.5	0.1	0.6	<0.5	0.1
632443	0.17	<2	3	2.2	228	<5	0.4	2.9	0.8	<1	42.1	<0.5	0.2	1.3	<0.5	0.2
632444	0.16	<2	2	1.9	242	<5	0.4	3.4	0.7	<1	72.0	<0.5	0.2	0.9	<0.5	0.1
632446	0.37	<2	5	8.0	136	<5	1.5	32.5	2.5	<1	164	<0.5	0.5	0.8	<0.5	0.3
632448	0.17	<2	2	3.5	190	6	0.7	13.6	1.1	<1	157	<0.5	0.2	0.5	<0.5	0.1
632449	0.20	<2	2	3.1	190	<5	0.6	25.5	1.0	<1	63.7	<0.5	0.3	0.7	<0.5	0.1
632450	0.19	<2	2	3.0	206	6	0.5	10.0	1.0	<1	98.7	<0.5	0.2	0.7	<0.5	0.2
632451	0.18	<2	2	2.5	168	7	0.5	20.5	0.8	<1	113	<0.5	0.2	0.6	<0.5	0.1
632452	0.19	5	1	3.0	184	13	0.5	9.6	1.0	<1	242	<0.5	0.3	0.6	<0.5	0.1
632453	0.22	4	2	4.2	104	<5	0.8	40.1	1.3	<1	126	<0.5	0.3	0.8	<0.5	0.2
632454	0.29	<2	2	5.2	178	<5	1.0	48.5	1.7	<1	105	<0.5	0.4	0.5	<0.5	0.3
632455	0.27	<2	2	4.8	44	6	1.0	17.9	1.6	<1	172	<0.5	0.4	0.6	<0.5	0.2
*Dup 632439	<0.05	3	5	9.6	10	12	2.8	89.8	1.5	2	68.3	<0.5	0.1	4.7	<0.5	<0.1
*Dup 632453	0.19	<2	2	4.8	93	<5	0.9	39.3	1.2	1	126	<0.5	0.3	0.6	<0.5	0.2
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1
*Std SO3	0.23	<2	8	17.0	17	14	4.4	36.1	3.4	<1	197	0.6	0.5	4.2	<0.5	0.2

Element.	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632439	1.0	30	<1	3	0.2	22	125
632440	0.1	157	<1	7	0.9	90	22.4
632441	0.1	175	<1	7	0.8	97	22.9
632442	0.1	179	<1	7	1.0	142	19.3
632443	0.3	235	<1	10	1.2	123	52.9
632444	0.2	187	<1	8	0.9	75	41.3
632446	0.1	316	<1	19	2.2	103	66.0
632448	<0.1	179	<1	9	1.1	64	23.8
632449	<0.1	176	<1	9	1.2	61	25.0
632450	<0.1	174	<1	9	1.2	55	24.5
632451	<0.1	146	<1	8	1.1	61	19.9
632452	<0.1	149	1	8	1.1	102	22.5
632453	<0.1	160	1	10	1.3	55	28.9
632454	<0.1	184	<1	15	1.8	75	38.4
632455	0.1	179	<1	13	1.6	46	36.1
*Dup 632439	0.9	25	1	2	0.2	18	109
*Dup 632453	<0.1	156	<1	11	1.3	52	29.6
*Blk BLANK	<0.1	<5	<1	<1	<0.1	<5	<0.5
*Std SO3	1.2	33	<1	14	1.6	49	150

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632439	<0.01
632440	0.05
632441	<0.01
632442	<0.01
632443	<0.01
632444	<0.01
632446	<0.01
632448	<0.01
632449	<0.01
632450	<0.01
632451	<0.01
632452	<0.01
632453	<0.01
632454	<0.01
632455	0.05
*Dup 632439	<0.01
*Dup 632453	<0.01
*Std SL_1	1.20

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632439	0.4	0.2
632440	0.3	<0.1
632441	0.5	<0.1
632442	0.2	0.2
632443	0.6	0.3
632444	<0.1	0.2
632446	0.1	<0.1
632448	0.1	<0.1
632449	0.1	0.1
632450	<0.1	<0.1
632451	<0.1	<0.1
632452	0.1	<0.1
632453	0.3	<0.1
632454	<0.1	0.1
632455	0.2	0.3
*Dup 632439	0.3	0.1
*Dup 632453	0.2	<0.1
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	>200	3.3

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064730

To: **Goldcorp Inc.**
Attn: T. Hughes

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Date : 29/08/01

Copy 1 to :

P.O. No.	:	
Project No.	:	TROUT BAY
No. of Samples	:	11 Rocks
Date Submitted	:	13/08/01
Report Comprises	:	Cover Sheet plus Pages 1 to 6

Distribution of unused material:
Pulps: Pulps returned after 90 days of reporting.
Rejects: Rejects returned after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

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

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 064730 **Date:** 29/08/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.5	14.9	11.0	11.6	1.39	0.43	9.25	0.16	0.374	0.03	0.06	2.45	100.1
632478	53.5	8.81	12.4	9.11	0.93	0.46	7.84	0.45	0.363	0.05	0.20	5.70	99.9
632480	71.9	14.7	2.19	1.43	1.99	3.72	2.14	0.03	0.240	0.06	0.02	1.60	100.1
632482	51.8	13.8	6.51	9.75	3.02	0.38	12.3	0.18	0.464	0.04	0.02	1.80	100.0
632483	54.9	13.3	6.65	8.34	3.52	0.26	11.0	0.17	0.422	0.05	0.03	1.40	100.1
632484	73.7	14.9	1.12	1.84	0.79	3.35	1.54	0.05	0.210	0.06	<0.01	2.65	100.1
632485	53.2	14.1	8.66	8.15	3.15	0.09	11.2	0.19	0.412	0.04	0.03	1.10	100.2
632486	51.2	14.8	7.14	9.52	3.41	0.20	11.2	0.14	0.452	0.04	0.03	2.00	100.0
632487	51.9	14.6	5.86	8.83	3.03	0.21	13.1	0.15	0.603	0.06	0.02	1.80	100.1
632488	47.2	17.1	8.09	9.32	3.06	0.35	12.0	0.17	0.424	0.03	0.03	2.35	100.1
632489	55.6	13.2	6.33	8.72	3.40	0.12	10.9	0.16	0.523	0.05	0.01	1.10	100.1
632490	52.2	14.1	8.40	7.73	3.75	0.10	12.2	0.20	0.483	0.05	<0.01	0.80	100.1
*Dup 632478	53.5	8.82	12.4	9.09	0.93	0.46	7.84	0.46	0.367	0.05	0.20	5.80	99.9

Work Order: 064730 **Date:** 29/08/01 **FINAL**

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632478	<1	87.9	<0.5	<0.1	18.7	45.0	1.1	64	1.4	0.8	0.7	8	1.8	2	0.3	10.4
632480	<1	408	<0.5	<0.1	26.8	7.6	2.2	<5	0.8	0.3	0.5	18	1.4	3	<0.1	16.8
632482	<1	135	<0.5	<0.1	4.2	48.8	1.8	65	2.0	1.4	0.4	11	1.4	<1	0.4	1.8
632483	<1	87.5	<0.5	<0.1	3.1	41.2	1.2	20	2.0	1.5	0.3	11	1.5	<1	0.4	1.3
632484	<1	388	<0.5	<0.1	21.9	6.1	3.9	11	0.8	0.4	0.5	17	1.3	3	<0.1	12.9
632485	<1	11.3	<0.5	<0.1	2.8	40.7	<0.1	71	2.0	1.5	0.3	9	1.3	<1	0.4	1.2
632486	<1	60.2	<0.5	0.2	2.8	50.3	0.4	63	2.0	1.4	0.3	11	1.3	<1	0.4	2.0
632487	<1	48.4	<0.5	<0.1	3.8	42.9	1.0	94	2.9	2.1	0.4	12	1.9	1	0.6	1.6
632488	<1	39.3	<0.5	<0.1	3.1	44.8	0.2	96	1.9	1.4	0.3	12	1.4	<1	0.4	1.5
632489	<1	76.4	<0.5	<0.1	3.7	39.3	0.3	78	2.7	1.5	0.4	10	1.7	1	0.4	1.5
632490	<1	43.5	1.4	<0.1	4.4	41.7	<0.1	100	2.4	1.6	0.3	10	1.7	<1	0.5	2.1
*Dup 632478	<1	93.4	<0.5	<0.1	19.4	40.9	1.2	54	1.5	0.9	0.7	8	1.8	2	0.3	10.7
*Blk BLANK	<1	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	265	0.6	0.1	31.8	5.2	1.0	14	3.0	1.7	0.7	6	3.4	4	0.6	16.2

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	0.1	1	0.1	0.5	0.1	0.1	0.5	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632478	0.12	2	4	9.1	243	16	2.3	15.2	1.6	<1	211	0.5	0.3	1.6	<0.5	0.1
632480	<0.05	<2	6	10.0	11	6	2.9	89.0	1.5	3	120	1.0	0.2	5.2	<0.5	<0.1
632482	0.25	<2	2	2.8	92	<5	0.6	10.4	0.9	4	67.7	<0.5	0.3	0.7	<0.5	0.2
632483	0.21	<2	2	2.0	82	<5	0.4	7.6	0.8	5	63.1	<0.5	0.3	0.6	<0.5	0.2
632484	<0.05	3	6	7.7	17	<5	2.2	91.2	1.4	8	66.9	1.1	0.2	8.0	<0.5	<0.1
632485	0.22	<2	1	1.9	87	8	0.4	1.0	0.7	<1	125	<0.5	0.2	0.7	<0.5	0.2
632486	0.20	<2	1	2.2	134	14	0.4	3.6	0.8	8	82.5	<0.5	0.3	0.8	<0.5	0.2
632487	0.34	<2	2	2.7	94	<5	0.5	6.3	1.0	3	70.9	<0.5	0.4	1.1	<0.5	0.3
632488	0.25	<2	1	2.3	90	<5	0.4	2.9	1.0	8	101	<0.5	0.3	0.7	<0.5	0.2
632489	0.28	<2	3	2.4	95	<5	0.4	1.9	1.1	11	109	<0.5	0.3	0.8	<0.5	0.2
632490	0.29	<2	2	3.0	69	12	0.6	0.9	1.0	3	75.0	<0.5	0.3	0.7	<0.5	0.2
*Dup 632478	0.13	<2	3	9.0	221	15	2.4	14.4	1.9	<1	216	0.5	0.3	1.7	<0.5	0.1
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1
*Std SO3	0.26	2	7	16.7	14	13	4.3	35.7	3.5	1	216	0.9	0.5	4.4	<0.5	0.2

Element.	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632478	0.5	112	8	8	0.9	66	76.1
632480	1.1	30	2	3	0.2	9	132
632482	<0.1	237	<1	12	1.6	112	28.9
632483	<0.1	209	<1	12	1.4	79	27.8
632484	2.4	21	3	3	0.3	<5	114
632485	0.1	203	<1	11	1.4	42	24.5
632486	0.1	192	<1	10	1.4	69	28.2
632487	0.2	227	<1	17	2.0	60	50.6
632488	<0.1	232	<1	11	1.5	49	22.6
632489	0.1	213	<1	14	1.6	61	44.1
632490	0.1	230	<1	14	1.7	144	31.4
*Dup 632478	0.4	100	6	8	0.8	55	73.8
*Blk BLANK	<0.1	<5	<1	<1	<0.1	<5	<0.5
*Std SO3	1.1	31	<1	14	1.6	35	153

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632478	0.08
632480	0.08
632482	<0.01
632483	<0.01
632484	0.07
632485	0.05
632486	0.01
632487	<0.01
632488	<0.01
632489	<0.01
632490	0.03
*Dup 632478	0.09
*Std SL_1	1.25

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632478	2.6	<0.1
632480	0.5	<0.1
632482	0.2	<0.1
632483	0.1	<0.1
632484	0.7	<0.1
632485	1.0	0.3
632486	0.5	0.2
632487	0.2	<0.1
632488	0.2	0.1
632489	<0.1	0.1
632490	<0.1	0.1
*Dup 632478	2.8	<0.1
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	>200	3.3

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064456

To: Goldcorp Inc.
Attn: T. Hughes

Date : 27/08/01

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Copy 1 to :

P.O. No.	:	
Project No.	:	TROUT BAY
No. of Samples	:	9 Rock
Date Submitted	:	27/07/01
Report Comprises	:	Cover Sheet plus Pages 1 to 6

Distribution of unused material:
Pulps: Return.
Rejects: Return.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

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

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 064456 **Date:** 27/08/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.6	14.8	11.0	11.7	1.35	0.42	9.38	0.16	0.374	0.03	0.06	2.30	100.1
632424	49.1	14.7	9.77	8.23	2.23	0.29	13.4	0.20	0.798	0.06	0.04	1.30	100.2
632425	55.4	15.0	7.09	5.71	0.72	1.96	10.3	0.19	0.562	0.05	0.15	2.65	99.8
632426	52.9	11.0	9.23	9.67	1.14	1.58	10.8	0.22	0.482	0.07	0.11	3.20	100.3
632430	49.6	19.3	12.2	4.12	1.92	0.56	10.4	0.37	0.519	0.02	0.07	0.95	100.1
632431	48.9	16.8	11.9	9.25	1.67	0.26	9.90	0.15	0.458	0.03	0.06	0.70	100.2
632433	46.4	17.3	11.5	8.84	1.47	0.95	9.57	0.12	0.514	0.04	0.02	3.30	100.0
632434	49.0	16.2	11.0	7.23	1.74	0.68	12.0	0.19	0.793	0.06	0.07	1.10	100.1
632436	64.5	20.0	2.41	0.50	7.13	2.47	1.15	0.05	0.106	0.05	0.01	1.00	99.4
632437	51.8	11.6	10.9	11.7	1.57	0.24	10.9	0.20	0.415	0.04	0.13	0.85	100.3
*Dup 632424	49.3	14.7	9.75	8.24	2.23	0.30	13.5	0.20	0.796	0.06	0.04	1.40	100.5

Work Order: 064456 **Date:** 27/08/01 **FINAL**

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632424	<1	28.1	<0.5	0.1	5.3	40.5	1.0	88	3.0	1.6	0.5	14	2.2	1	0.5	2.3
632425	<1	219	<0.5	<0.1	8.5	46.0	3.2	86	2.5	1.6	0.5	14	2.0	<1	0.5	4.3
632426	<1	254	<0.5	<0.1	4.5	31.9	2.5	86	1.7	1.0	0.5	10	1.4	<1	0.3	2.4
632430	<1	55.5	<0.5	<0.1	2.6	40.1	1.6	63	1.1	1.1	0.2	14	1.1	<1	0.3	1.0
632431	<1	45.4	<0.5	<0.1	3.1	37.5	1.2	203	1.6	1.1	0.3	13	1.4	<1	0.3	1.3
632433	<1	177	<0.5	<0.1	4.7	37.7	2.2	33	1.1	1.0	0.4	13	1.4	<1	0.4	2.0
632434	<1	82.7	<0.5	<0.1	10.2	29.8	1.6	79	2.7	1.5	0.5	16	2.9	<1	0.5	4.6
632436	<1	479	<0.5	0.7	56.0	1.3	1.3	17	1.0	0.6	0.7	17	1.6	3	0.2	28.5
632437	<1	27.1	<0.5	<0.1	4.2	36.8	1.6	8	1.9	1.6	0.3	10	1.2	1	0.4	2.0
*Dup 632424	<1	29.3	<0.5	0.3	5.4	38.4	0.9	82	3.1	1.7	0.6	14	2.3	<1	0.6	2.3
*Blk BLANK	<1	<0.5	<0.5	<0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	0.1
*Std SO3	<1	288	<0.5	0.2	33.9	4.7	1.1	14	2.7	1.6	0.7	6	3.0	5	0.4	16.0

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Tl
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	1	0.1	1	0.1	0.5	0.1	0.1	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632424	0.23	<2	2	4.4	161	47	0.8	5.1	n.a.	1.6	1	123	<0.5	0.4	0.2	<0.5
632425	0.26	<2	2	5.2	185	13	1.0	48.7	n.a.	1.6	1	181	<0.5	0.4	0.7	<0.5
632426	0.18	<2	1	3.2	169	<5	0.7	59.8	n.a.	1.3	<1	82.1	<0.5	0.3	0.4	<0.5
632430	0.16	<2	<1	1.9	206	5	0.3	13.2	n.a.	0.6	<1	86.2	<0.5	0.2	0.1	<0.5
632431	0.13	<2	<1	3.1	216	5	0.4	5.4	n.a.	1.3	<1	96.1	<0.5	0.2	0.2	<0.5
632433	0.17	<2	1	3.9	241	5	0.6	21.0	n.a.	1.0	<1	77.4	<0.5	0.2	0.2	<0.5
632434	0.29	2	2	7.7	82	5	1.4	12.8	n.a.	1.7	1	134	<0.5	0.4	0.2	<0.5
632436	0.11	<2	4	15.9	8	11	5.0	51.8	n.a.	2.2	1	293	<0.5	0.2	10.7	<0.5
632437	0.17	<2	1	3.0	177	<5	0.5	5.3	n.a.	1.2	<1	94.2	<0.5	0.2	0.5	<0.5
*Dup 632424	0.22	<2	1	4.5	150	44	0.8	5.3	n.a.	1.8	<1	124	<0.5	0.4	0.3	<0.5
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	n.a.	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5
*Std SO3	0.24	<2	5	15.4	20	12	4.0	27.4	n.a.	3.2	2	212	0.7	0.4	3.8	<0.5

Element.	Tm	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632424	0.3	<0.1	245	<1	14	1.8	113	34.5
632425	0.2	0.2	225	5	12	1.5	74	38.5
632426	0.1	0.1	174	3	9	1.3	94	25.2
632430	0.2	<0.1	165	<1	7	1.1	60	20.1
632431	0.2	<0.1	147	<1	8	0.8	53	19.5
632433	0.1	<0.1	129	1	8	1.1	69	23.5
632434	0.2	<0.1	209	<1	15	1.9	75	38.1
632436	0.1	6.6	19	1	5	0.7	66	76.8
632437	0.2	0.2	171	<1	10	1.2	72	26.0
*Dup 632424	0.3	<0.1	255	<1	15	1.9	99	35.4
*Blk BLANK	<0.1	<0.1	<5	<1	<1	<0.1	<5	<0.5
*Std SO3	0.2	1.0	32	<1	12	1.7	52	164

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632424	0.05
632425	0.22
632426	0.11
632430	<0.01
632431	0.07
632433	<0.01
632434	<0.01
632436	<0.01
632437	<0.01
*Dup 632424	0.05
*Std SL_1	1.29

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632424	0.5	0.4
632425	0.5	0.6
632426	0.1	0.6
632430	0.4	0.5
632431	0.3	0.7
632433	0.3	0.3
632434	0.5	0.2
632436	0.2	0.2
632437	0.1	0.2
*Dup 632424	0.4	0.4
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	>200	3.2

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064369

To: **Goldcorp Inc.**
Attn: T. Hughes

Date : 08/08/01

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Copy 1 to :

P.O. No.	:	
Project No.	:	TB
No. of Samples	:	42 Rock
Date Submitted	:	23/07/01
Report Comprises	:	Cover Sheet plus Pages 1 to 12

Distribution of unused material:
Pulps: Return
Rejects: Return

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

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

Work Order: 064369 **Date:** 08/08/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.6	14.8	10.9	11.7	1.35	0.43	9.28	0.16	0.372	0.04	0.06	2.35	100.0
632569	49.1	16.1	11.3	8.03	2.15	0.29	11.3	0.16	0.731	0.07	0.06	0.75	100.0
632570	48.8	17.8	14.0	4.08	0.84	0.60	11.5	0.49	0.559	0.04	0.08	1.60	100.5
632571	49.3	16.4	12.4	8.11	1.71	0.38	10.3	0.16	0.488	0.04	0.07	0.85	100.2
632572	50.5	17.6	8.43	4.68	4.05	1.21	10.8	0.12	1.277	0.54	0.01	0.70	100.0
632573	49.3	17.2	12.3	9.07	1.71	0.54	8.39	0.14	0.478	0.04	0.16	0.75	100.2
632574	46.5	15.9	10.1	13.5	1.17	0.15	11.1	0.17	0.438	0.04	0.09	1.20	100.4
632575	54.0	18.9	10.6	4.21	2.14	0.40	8.10	0.21	0.498	0.04	0.06	0.85	100.0
632576	47.6	22.3	11.9	4.71	1.97	0.73	8.11	0.12	0.553	0.05	0.03	2.10	100.1
632577	50.3	15.8	12.6	8.49	1.20	0.20	10.2	0.17	0.496	0.04	0.08	0.80	100.3
632578	49.9	17.5	12.6	5.83	3.02	0.14	8.03	0.19	0.453	0.04	0.06	2.30	100.1
632579	49.1	18.9	12.3	5.85	2.45	0.30	9.01	0.23	0.526	0.04	0.07	1.25	100.0
632580	48.9	16.2	10.2	10.3	2.12	0.48	9.85	0.15	0.446	0.04	0.05	1.20	100.0
632581	49.7	14.0	11.0	9.01	2.25	0.17	12.3	0.21	0.839	0.06	0.01	0.55	100.1
632582	50.2	15.4	11.8	9.38	1.35	0.17	10.5	0.18	0.516	0.04	0.07	0.65	100.3
632583	49.1	16.1	11.9	8.46	1.81	0.36	10.5	0.21	0.525	0.04	0.07	1.05	100.2
632584	49.3	16.0	11.4	9.05	1.99	0.19	10.6	0.19	0.516	0.05	0.07	0.70	100.2
632585	48.7	18.2	14.2	4.78	1.24	0.65	9.97	0.23	0.576	0.04	0.08	1.70	100.4
632586	49.7	15.4	12.7	9.10	1.16	0.21	9.56	0.16	0.445	0.03	0.06	1.50	100.0
632587	47.0	17.9	10.2	11.0	1.87	0.57	8.81	0.15	0.370	0.04	0.05	2.10	100.0
632588	47.9	15.4	7.55	10.2	2.67	0.51	12.2	0.23	0.946	0.09	0.05	2.25	100.1
632589	57.0	10.9	5.22	2.20	3.80	0.28	18.0	0.27	1.692	0.32	<0.01	0.35	100.0
632590	46.7	18.3	12.3	8.42	1.62	0.54	10.4	0.18	0.514	0.05	0.06	0.95	100.1
632591	48.0	17.7	10.5	8.67	1.87	0.55	9.96	0.19	0.479	0.05	0.06	2.15	100.2
632593	48.8	16.2	10.2	10.5	2.10	0.32	9.83	0.16	0.470	0.04	0.07	1.40	100.1
632595	46.3	15.1	9.61	12.3	1.25	0.63	11.7	0.15	0.427	0.04	0.05	2.50	100.0
632598	47.8	18.0	12.2	7.48	1.30	0.63	11.0	0.14	0.506	0.04	0.05	1.10	100.2
632600	54.5	17.9	11.5	4.22	2.15	0.39	8.19	0.20	0.466	0.04	0.07	0.70	100.4
632403	52.8	11.1	9.87	10.8	1.36	0.78	10.6	0.22	0.474	0.05	0.10	1.50	99.6
632404	46.8	16.0	10.2	12.5	1.30	1.09	9.92	0.17	0.422	0.04	0.09	1.45	99.9

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
632405	48.7	16.4	12.9	9.91	1.22	0.77	8.32	0.14	0.349	0.03	0.18	1.50	100.3
632406	50.0	15.3	12.3	8.20	1.43	0.31	9.69	0.17	0.728	0.03	0.07	1.75	100.1
632407	49.0	15.6	10.2	8.72	2.47	0.20	11.9	0.22	0.821	0.06	0.05	0.75	100.0
632410	46.4	19.2	10.1	6.85	2.17	1.29	12.6	0.15	0.582	0.05	0.06	0.55	100.0
632411	49.5	20.4	11.9	4.76	2.29	0.47	8.92	0.23	0.551	0.05	0.07	1.00	100.1
632412	47.3	19.4	12.1	6.73	0.86	0.30	11.7	0.39	0.594	0.06	0.08	0.75	100.2
632414	48.6	19.3	11.5	5.89	2.47	0.22	10.5	0.14	0.803	0.07	0.04	0.50	100.0
632415	51.8	13.2	9.24	10.2	2.33	0.54	10.7	0.19	0.542	0.05	0.07	1.30	100.1
632416	73.3	14.2	2.96	1.49	1.28	2.91	2.07	0.05	0.210	0.07	0.02	1.50	100.1
632417	72.2	14.5	2.09	0.78	4.50	2.01	2.31	0.03	0.228	0.07	0.02	1.60	100.3
632418	53.8	11.4	10.2	10.6	1.23	0.47	10.4	0.19	0.440	0.04	0.11	1.50	100.4
632419	72.7	14.3	2.48	1.58	0.91	3.15	2.47	0.06	0.232	0.06	0.02	2.15	100.2
632420	73.6	13.9	2.52	1.88	0.73	2.96	2.33	0.05	0.235	0.07	0.01	2.00	100.2
*Dup 632569	49.0	16.1	11.3	8.05	2.14	0.29	11.3	0.16	0.731	0.07	0.06	0.70	99.9
*Dup 632581	49.7	14.0	11.0	9.01	2.26	0.17	12.3	0.21	0.839	0.05	0.01	0.65	100.1
*Dup 632595	46.4	15.1	9.64	12.3	1.25	0.63	11.8	0.15	0.429	0.04	0.05	2.40	100.1
*Dup 632415	51.9	13.1	9.24	10.2	2.33	0.54	10.7	0.19	0.542	0.05	0.07	1.25	100.1

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632569	<1	50.7	<0.5	0.2	7.9	36.5	0.2	49	2.4	1.9	0.6	14	2.2	<1	0.7	3.5
632570	<1	93.0	<0.5	0.3	6.5	39.3	0.6	56	1.9	1.5	0.4	13	1.7	<1	0.5	3.0
632571	<1	41.3	<0.5	0.3	6.4	38.2	0.5	25	1.6	1.2	0.5	12	1.3	<1	0.4	2.8
632572	<1	375	<0.5	0.2	62.0	24.3	0.8	65	5.5	2.6	2.4	20	8.7	4	1.0	23.0
632573	<1	68.8	<0.5	0.3	6.3	32.7	0.3	24	1.5	1.1	0.4	11	1.3	<1	0.4	2.8
632574	<1	26.6	<0.5	0.1	4.4	57.2	0.2	40	1.7	1.0	0.3	12	1.4	<1	0.4	1.8
632575	<1	112	<0.5	0.3	13.5	43.5	0.5	66	1.7	1.2	0.5	13	1.9	1	0.4	5.6
632576	<1	211	<0.5	0.2	5.4	23.5	0.9	34	2.2	1.4	0.6	14	1.9	<1	0.4	2.3
632577	<1	10.1	<0.5	0.4	3.9	40.0	0.4	51	1.7	1.2	0.4	11	1.4	<1	0.5	1.5
632578	<1	66.3	<0.5	0.2	3.7	43.3	<0.1	91	1.6	1.3	0.4	12	1.4	<1	0.5	1.5
632579	<1	41.0	<0.5	0.2	4.1	41.9	0.2	48	1.8	1.3	0.5	13	1.7	<1	0.5	1.8
632580	<1	49.1	<0.5	0.2	4.1	40.4	2.0	17	1.6	1.2	0.3	11	1.2	<1	0.4	1.6
632581	<1	18.0	<0.5	0.1	5.0	35.0	<0.1	45	2.7	1.9	0.5	11	2.3	<1	0.7	1.9
632582	<1	19.5	<0.5	0.3	3.4	36.7	0.2	56	1.8	1.3	0.4	11	1.6	<1	0.5	1.4
632583	<1	35.3	<0.5	<0.1	3.4	41.0	0.8	63	1.7	1.4	0.4	11	1.5	<1	0.5	1.2
632584	<1	11.7	<0.5	0.4	3.3	35.4	0.2	17	1.9	1.3	0.3	11	1.4	<1	0.5	1.4
632585	<1	48.1	<0.5	0.1	4.6	41.7	3.0	128	2.2	1.6	0.5	12	1.6	<1	0.6	1.7
632586	<1	22.7	<0.5	<0.1	3.6	35.0	0.6	58	1.6	1.0	0.4	11	1.5	<1	0.4	1.6
632587	<1	55.4	<0.5	<0.1	3.2	36.9	2.5	49	1.2	1.0	0.3	11	1.0	<1	0.4	1.6
632588	<1	78.8	<0.5	0.1	7.5	37.8	1.1	34	3.2	2.3	0.7	12	2.7	1	0.8	2.9
632589	<1	21.0	<0.5	0.2	22.7	19.3	0.5	23	11.3	8.3	2.0	19	10.3	6	2.7	7.6
632590	<1	49.3	<0.5	0.3	4.8	42.7	1.2	42	1.8	1.3	0.5	12	1.4	<1	0.5	1.7
632591	<1	108	<0.5	<0.1	3.0	38.8	1.2	129	2.0	1.2	0.4	12	1.3	<1	0.5	1.2
632593	<1	45.5	<0.5	0.1	3.4	38.7	1.2	13	1.8	1.3	0.4	11	1.4	<1	0.4	1.1
632595	<1	85.5	<0.5	0.2	3.4	35.1	1.0	7	2.0	1.5	0.5	10	1.6	<1	0.5	1.4
632598	<1	194	<0.5	0.3	3.6	35.0	2.2	69	2.1	1.4	0.6	12	1.6	<1	0.5	1.6
632600	<1	49.7	<0.5	0.2	3.8	39.7	0.6	72	1.6	1.1	0.3	11	1.2	<1	0.4	1.5
632403	<1	81.7	<0.5	0.2	5.6	37.0	3.2	45	2.4	1.6	0.3	9	1.8	<1	0.6	2.6
632404	<1	120	<0.5	0.2	4.3	38.3	9.0	27	1.5	1.2	0.3	10	1.5	<1	0.4	1.8
632405	<1	71.3	<0.5	<0.1	3.2	29.9	4.6	19	1.2	0.7	0.3	10	0.8	<1	0.3	1.5

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632406	<1	25.9	<0.5	<0.1	5.2	31.1	1.5	20	2.6	1.5	0.5	11	1.8	<1	0.6	2.1
632407	<1	36.7	<0.5	0.1	5.6	34.8	0.4	36	3.2	2.1	0.6	13	2.6	2	0.8	1.9
632410	<1	280	<0.5	0.1	4.7	44.9	7.6	8	1.9	1.2	0.7	12	1.5	1	0.4	2.3
632411	<1	64.0	<0.5	0.2	4.4	52.0	1.0	83	1.6	1.3	0.4	14	1.3	<1	0.5	1.7
632412	<1	38.8	<0.5	0.1	3.8	40.3	0.6	14	2.0	1.3	0.5	13	1.6	<1	0.5	1.6
632414	<1	26.1	<0.5	<0.1	7.0	31.2	0.4	102	2.7	1.9	0.5	14	2.3	1	0.6	2.7
632415	<1	43.3	<0.5	0.3	6.7	33.8	4.7	30	2.1	1.5	0.4	9	1.8	<1	0.6	2.3
632416	<1	199	<0.5	0.2	28.3	3.3	3.4	7	0.5	0.3	0.5	15	0.9	3	0.1	16.3
*Blk BLANK	<1	<0.5	<0.5	0.1	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	324	<0.5	0.1	33.6	5.0	1.2	15	2.6	1.7	0.7	6	3.2	5	0.6	16.5
632417	<1	230	<0.5	<0.1	23.6	3.1	2.0	10	0.8	0.3	0.4	14	0.9	3	0.1	13.0
632418	<1	60.2	<0.5	0.1	4.9	38.0	1.7	17	2.1	1.5	0.4	9	1.7	<1	0.5	2.4
632419	<1	284	<0.5	<0.1	28.0	4.2	3.0	6	0.4	0.1	0.4	14	1.0	3	<0.1	16.8
632420	<1	227	<0.5	0.2	34.6	2.3	3.6	55	0.5	0.2	0.5	14	1.1	3	0.1	20.4
*Dup 632569	<1	57.2	<0.5	0.2	7.7	32.8	0.2	43	2.3	1.9	0.6	12	2.5	1	0.7	3.1
*Dup 632581	<1	18.1	<0.5	0.2	5.2	34.8	<0.1	42	2.6	1.8	0.6	11	2.3	<1	0.6	1.9
*Dup 632595	<1	98.0	<0.5	0.2	2.8	32.8	1.1	6	2.3	1.7	0.7	9	1.7	<1	0.5	1.1
*Dup 632415	<1	45.8	<0.5	0.1	5.9	29.9	5.1	24	2.2	1.8	0.4	9	1.7	<1	0.5	2.2
*Blk BLANK	<1	<0.5	<0.5	<0.1	0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	<0.1
*Std SO3	<1	305	<0.5	<0.1	33.8	5.0	1.2	14	2.9	1.9	0.8	6	3.2	5	0.6	15.8

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Tl
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	1	0.1	1	0.1	0.5	0.1	0.1	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632569	0.26	3	2	5.5	122	60	1.2	3.9	n.a.	1.5	<1	133	<0.5	0.4	0.4	<0.5
632570	0.20	<2	1	4.0	114	10	0.9	16.9	n.a.	1.3	<1	100	<0.5	0.3	0.4	<0.5
632571	0.18	<2	1	3.5	116	8	0.9	7.2	n.a.	1.0	<1	114	<0.5	0.3	0.3	<0.5
632572	0.25	<2	6	41.2	28	8	9.8	28.0	n.a.	9.8	2	745	<0.5	1.1	1.9	<0.5
632573	0.13	<2	1	3.5	126	<5	1.0	10.0	n.a.	1.2	<1	161	<0.5	0.3	0.2	<0.5
632574	0.16	<2	1	2.1	372	<5	0.7	2.5	n.a.	1.2	1	82.2	<0.5	0.2	0.1	<0.5
632575	0.17	4	2	7.0	170	<5	1.7	11.1	n.a.	1.6	<1	126	<0.5	0.3	1.2	<0.5
632576	0.11	<2	1	3.1	71	8	0.9	19.2	n.a.	0.9	<1	163	<0.5	0.3	0.2	<0.5
632577	0.20	<2	1	2.5	118	8	0.6	4.7	n.a.	1.1	<1	128	<0.5	0.3	0.1	<0.5
632578	0.16	<2	<1	2.2	150	<5	0.6	1.2	n.a.	0.9	<1	103	<0.5	0.2	0.1	<0.5
632579	0.18	<2	<1	2.9	166	<5	0.8	4.7	n.a.	1.0	<1	120	<0.5	0.3	0.2	<0.5
632580	0.16	<2	<1	2.9	167	<5	0.6	14.3	n.a.	1.0	<1	86.0	<0.5	0.2	0.2	<0.5
632581	0.26	<2	1	3.4	54	<5	1.0	1.7	n.a.	1.5	<1	64.3	<0.5	0.4	0.2	<0.5
632582	0.20	2	1	2.4	109	5	0.7	3.8	n.a.	1.0	<1	90.0	<0.5	0.3	0.2	<0.5
632583	0.17	5	1	2.3	109	6	0.6	10.4	n.a.	0.9	<1	85.2	<0.5	0.3	0.1	<0.5
632584	0.26	<2	1	3.1	113	<5	0.7	2.4	n.a.	1.4	<1	85.1	<0.5	0.3	0.1	<0.5
632585	0.26	7	1	3.9	111	12	0.8	32.7	n.a.	1.0	<1	92.2	<0.5	0.3	0.1	<0.5
632586	0.15	<2	<1	2.6	125	<5	0.6	4.8	n.a.	1.2	<1	99.1	<0.5	0.3	0.1	<0.5
632587	0.09	<2	<1	2.6	222	<5	0.6	15.8	n.a.	1.1	<1	112	<0.5	0.2	<0.1	<0.5
632588	0.33	2	2	6.2	104	<5	1.1	17.2	n.a.	2.5	<1	67.5	<0.5	0.5	0.3	<0.5
632589	1.25	<2	10	22.3	13	<5	4.3	3.8	n.a.	7.1	1	50.3	0.6	1.9	1.1	<0.5
632590	0.21	<2	1	3.2	191	<5	0.8	12.9	n.a.	1.2	<1	119	<0.5	0.3	0.2	<0.5
632591	0.17	<2	1	2.4	154	<5	0.5	14.6	n.a.	0.8	1	104	<0.5	0.3	0.2	<0.5
632593	0.15	<2	1	2.8	160	5	0.5	11.7	n.a.	1.3	<1	100	<0.5	0.3	0.2	<0.5
632595	0.20	<2	<1	3.1	161	<5	0.6	21.7	n.a.	1.2	<1	46.2	<0.5	0.3	0.1	<0.5
632598	0.15	<2	1	2.6	175	7	0.7	20.8	n.a.	1.0	<1	83.3	<0.5	0.3	0.1	<0.5
632600	0.14	<2	<1	2.7	148	<5	0.7	9.0	n.a.	1.2	<1	95.6	<0.5	0.2	0.2	<0.5
632403	0.28	<2	1	4.2	92	<5	0.9	34.7	n.a.	1.1	1	180	<0.5	0.4	0.4	<0.5
632404	0.14	<2	1	3.2	265	<5	0.7	47.1	n.a.	0.8	<1	96.4	<0.5	0.3	0.1	<0.5
632405	0.14	<2	1	1.8	143	<5	0.5	31.4	n.a.	0.6	<1	161	0.5	0.2	0.1	<0.5

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Tl
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	1	0.1	1	0.1	0.5	0.1	0.1	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632406	0.27	<2	2	4.3	92	5	1.0	8.4	n.a.	1.1	<1	96.1	<0.5	0.3	0.2	<0.5
632407	0.37	<2	2	4.9	105	<5	1.1	2.7	n.a.	1.6	<1	162	<0.5	0.5	0.3	<0.5
632410	0.19	<2	1	3.1	146	<5	0.8	51.0	n.a.	1.0	<1	140	<0.5	0.3	0.1	<0.5
632411	0.16	<2	1	2.5	192	<5	0.8	13.2	n.a.	1.1	<1	123	<0.5	0.3	0.2	<0.5
632412	0.16	<2	1	3.1	159	6	0.7	8.9	n.a.	1.3	1	58.3	<0.5	0.3	0.1	<0.5
632414	0.24	2	2	4.0	65	12	1.3	2.9	n.a.	1.8	<1	115	<0.5	0.4	0.3	<0.5
632415	0.24	<2	2	3.5	89	5	0.9	22.7	n.a.	1.1	<1	83.7	<0.5	0.3	0.5	<0.5
632416	<0.05	2	2	9.7	8	6	3.2	81.4	n.a.	1.6	<1	118	<0.5	0.1	4.4	<0.5
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	n.a.	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5
*Std SO3	0.20	<2	6	17.2	15	14	5.1	38.4	n.a.	3.1	1	205	<0.5	0.5	3.8	<0.5
632417	<0.05	<2	3	8.6	6	5	3.0	46.2	n.a.	1.4	<1	190	<0.5	0.2	3.4	<0.5
632418	0.18	<2	1	3.0	123	5	0.8	17.7	n.a.	1.0	<1	149	<0.5	0.3	0.7	<0.5
632419	<0.05	<2	3	8.6	8	5	3.2	83.2	n.a.	1.1	<1	67.1	<0.5	<0.1	5.6	<0.5
632420	<0.05	<2	3	11.6	13	7	3.9	77.3	n.a.	1.9	2	60.9	<0.5	0.2	5.4	<0.5
*Dup 632569	0.25	2	2	5.1	112	56	1.4	3.5	n.a.	1.4	<1	128	<0.5	0.4	0.3	<0.5
*Dup 632581	0.31	<2	1	3.8	50	<5	1.0	1.7	n.a.	1.6	<1	63.3	<0.5	0.4	0.2	<0.5
*Dup 632595	0.21	<2	<1	2.9	149	<5	0.6	19.9	n.a.	1.1	<1	45.5	<0.5	0.4	0.1	<0.5
*Dup 632415	0.25	<2	1	3.5	77	<5	0.9	22.2	n.a.	1.1	<1	83.1	<0.5	0.3	0.5	<0.5
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	n.a.	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5
*Std SO3	0.24	<2	6	16.6	11	12	4.9	36.9	n.a.	3.4	1	207	0.6	0.5	3.8	<0.5

Element.	Tm	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632569	0.3	<0.1	176	<1	16	1.9	79	33.1
632570	0.2	<0.1	187	<1	14	1.8	99	23.0
632571	0.2	<0.1	146	<1	10	1.0	67	20.4
632572	0.3	0.4	136	<1	25	2.0	111	120
632573	0.2	<0.1	147	<1	10	1.1	68	22.9
632574	0.2	<0.1	113	<1	9	1.1	116	16.9
632575	0.2	0.2	138	<1	11	1.3	54	33.8
632576	0.2	<0.1	109	<1	11	1.5	58	23.6
632577	0.2	<0.1	167	<1	11	1.2	62	19.7
632578	0.2	<0.1	144	<1	9	1.3	52	18.3
632579	0.2	<0.1	146	<1	10	1.3	70	21.7
632580	0.2	<0.1	137	<1	10	1.1	65	17.7
632581	0.3	<0.1	190	<1	14	2.0	78	33.0
632582	0.2	<0.1	160	<1	11	1.6	64	21.3
632583	0.2	<0.1	158	<1	11	1.4	69	21.2
632584	0.2	<0.1	155	<1	12	1.4	68	20.5
632585	0.3	<0.1	181	<1	14	1.9	90	22.8
632586	0.2	<0.1	126	<1	9	1.2	65	16.6
632587	0.2	<0.1	94	<1	8	1.1	84	15.4
632588	0.3	<0.1	185	<1	21	2.3	98	44.9
632589	1.1	0.1	18	<1	68	8.3	124	201
632590	0.2	<0.1	140	<1	12	1.3	61	23.3
632591	0.2	<0.1	126	<1	10	1.2	76	20.2
632593	0.2	<0.1	132	<1	10	0.9	57	19.5
632595	0.2	<0.1	113	<1	14	1.4	53	16.9
632598	0.2	<0.1	113	<1	10	1.3	76	22.7
632600	0.2	<0.1	132	<1	9	1.2	53	19.4
632403	0.2	<0.1	149	<1	14	1.7	88	25.8
632404	0.2	<0.1	100	<1	9	1.0	117	21.5
632405	0.1	<0.1	107	<1	8	0.8	69	12.2

Element.	Tm	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632406	0.3	<0.1	161	<1	13	1.8	90	22.8
632407	0.3	<0.1	162	<1	18	2.2	84	44.4
632410	0.2	<0.1	144	<1	10	1.3	128	25.6
632411	0.1	<0.1	150	<1	11	1.3	66	24.0
632412	0.2	<0.1	194	<1	11	1.3	79	25.2
632414	0.3	<0.1	168	<1	15	1.8	62	39.5
632415	0.2	<0.1	153	<1	14	1.5	103	29.2
632416	<0.1	1.2	26	2	3	0.3	22	113
*Blk BLANK	<0.1	<0.1	5	<1	<1	<0.1	<5	<0.5
*Std SO3	0.3	1.1	31	<1	14	1.5	44	161
632417	<0.1	1.0	23	<1	3	0.3	25	106
632418	0.2	<0.1	140	6	11	1.3	72	29.0
632419	<0.1	1.0	25	2	3	0.2	30	117
632420	<0.1	0.9	25	3	3	0.2	32	119
*Dup 632569	0.2	<0.1	160	<1	15	1.9	66	32.0
*Dup 632581	0.3	<0.1	185	<1	15	1.8	75	34.7
*Dup 632595	0.2	<0.1	97	<1	13	1.5	47	16.7
*Dup 632415	0.3	0.1	148	<1	14	1.7	89	29.5
*Blk BLANK	<0.1	<0.1	<5	<1	<1	<0.1	5	<0.5
*Std SO3	0.3	1.1	32	<1	15	1.8	45	164

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632569	<0.01
632570	0.07
632571	<0.01
632572	0.09
632573	<0.01
632574	<0.01
632575	0.12
632576	<0.01
632577	<0.01
632578	<0.01
632579	<0.01
632580	<0.01
632581	0.04
632582	0.04
632583	0.05
632584	<0.01
632585	0.15
632586	<0.01
632587	<0.01
632588	0.05
632589	0.07
632590	<0.01
632591	<0.01
632593	<0.01
632595	<0.01
632598	0.14
632600	0.08
632403	0.33
632404	<0.01
632405	<0.01

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632406	<0.01
632407	<0.01
632410	<0.01
632411	0.08
632412	<0.01
632414	<0.01
632415	0.03
632416	<0.01
632417	<0.01
632418	<0.01
632419	<0.01
632420	<0.01
*Dup 632569	<0.01
*Dup 632581	0.05
*Dup 632595	<0.01
*Dup 632415	0.04
*Std SO4	0.05

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632569	0.6	0.1
632570	0.8	0.1
632571	0.9	<0.1
632572	0.9	<0.1
632573	0.2	<0.1
632574	0.2	<0.1
632575	0.4	<0.1
632576	0.8	<0.1
632577	0.6	<0.1
632578	0.6	<0.1
632579	0.3	<0.1
632580	0.3	<0.1
632581	<0.1	<0.1
632582	<0.1	0.4
632583	0.5	0.2
632584	<0.1	<0.1
632585	0.3	0.6
632586	0.8	0.3
632587	0.2	0.2
632588	0.2	<0.1
632589	<0.1	<0.1
632590	0.2	<0.1
632591	0.4	0.3
632593	3.5	<0.1
632595	<0.1	0.2
632598	<0.1	0.3
632600	0.3	0.4
632403	0.2	0.3
632404	<0.1	<0.1
632405	0.2	0.2

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632406	0.2	0.2
632407	<0.1	0.2
632410	<0.1	0.2
632411	0.4	0.2
632412	0.2	0.4
632414	1.7	0.4
632415	0.1	<0.1
632416	0.1	<0.1
632417	0.4	<0.1
632418	0.3	<0.1
632419	0.2	<0.1
632420	0.2	<0.1
*Dup 632569	0.5	<0.1
*Dup 632581	0.1	0.1
*Dup 632595	<0.1	0.1
*Dup 632415	0.2	<0.1
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	>200	3.4

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064267

To: **Goldcorp Inc.**
Attn: T. Hughes

P.O. Box 190 HWY 125
COCHENOUR
ONTARIO/CANADA/P0V 1L0

Date : 26/07/01

Copy 1 to :

P.O. No.	:	
Project No.	:	TB
No. of Samples	:	18 Rock
Date Submitted	:	17/07/01
Report Comprises	:	Cover Sheet plus Pages 1 to 6

Distribution of unused material:
Pulps: Return
Rejects: Return

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

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

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 064267 **Date:** 26/07/01 **FINAL**

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum
Method.	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01A	0.01
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%
*Std XRAL04	48.6	14.8	10.9	11.7	1.36	0.43	9.27	0.16	0.382	0.04	0.06	2.40	100.1
632551	40.9	2.45	5.25	28.6	<0.01	0.04	11.9	0.18	0.234	0.02	0.31	10.3	100.2
632552	45.2	10.6	8.82	8.25	2.09	0.48	22.4	0.22	1.612	0.04	0.02	0.35	100.1
632553	49.6	12.3	9.23	13.1	1.27	0.40	12.2	0.21	0.507	0.05	0.19	0.70	99.7
632554	52.9	15.0	11.9	4.39	1.85	0.37	11.5	0.21	1.038	0.09	0.04	0.70	100.0
632555	52.5	15.9	8.30	6.12	3.46	0.28	11.6	0.31	0.889	0.08	0.05	0.60	100.1
632556	47.5	14.6	15.1	6.16	1.33	0.28	12.1	0.41	0.823	0.08	0.05	1.65	100.1
632557	53.1	16.0	13.5	3.95	1.52	0.23	9.11	0.28	0.902	0.08	0.05	1.45	100.1
632558	52.5	15.5	13.1	4.05	3.20	0.29	8.67	0.28	0.878	0.08	0.05	1.50	100.0
632559	55.5	17.7	7.77	3.63	5.24	0.24	8.24	0.15	1.009	0.09	0.05	0.55	100.1
632560	51.1	14.6	11.6	6.63	2.14	0.33	11.7	0.18	1.016	0.09	0.04	0.55	100.0
632561	52.0	14.8	10.4	6.99	2.26	0.78	10.2	0.16	0.855	0.07	0.05	1.60	100.0
632562	50.0	14.4	9.77	8.45	2.40	0.78	12.0	0.19	0.829	0.06	0.04	1.05	100.0
632563	49.4	14.6	10.1	8.30	2.16	0.72	13.1	0.19	0.705	0.06	0.05	0.65	100.0
632564	49.3	16.4	5.89	7.00	3.96	0.18	15.0	0.24	1.180	0.07	0.04	0.80	100.0
632565	49.7	14.4	12.7	6.31	2.44	0.48	11.9	0.24	1.028	0.09	0.04	0.65	100.0
632566	45.8	16.8	10.5	13.6	0.97	0.20	9.80	0.16	0.333	0.03	0.07	1.70	100.0
632567	46.1	16.6	11.1	11.5	1.09	0.55	10.7	0.17	0.516	0.05	0.07	2.05	100.4
632568	47.5	16.0	12.9	7.82	1.67	0.24	12.0	0.23	0.815	0.07	0.05	0.65	99.9
*Dup 632551	40.9	2.45	5.22	28.6	<0.01	0.04	11.9	0.18	0.234	0.02	0.31	10.3	100.2
*Dup 632563	49.3	14.6	10.1	8.29	2.16	0.72	13.1	0.19	0.704	0.06	0.05	0.75	100.0

Work Order: 064267 **Date:** 26/07/01 **FINAL**

Element.	Ag	Ba	Be	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	1	0.5	0.5	0.1	0.1	0.5	0.1	5	0.1	0.1	0.1	1	0.1	1	0.1	0.1
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632551	<1	18.0	<0.5	0.2	2.3	94.4	0.1	19	0.7	0.5	0.2	3	0.7	<1	0.2	1.1
632552	<1	125	<0.5	0.2	18.1	56.9	0.5	79	5.4	3.0	1.1	15	3.8	2	1.1	7.0
632553	<1	120	<0.5	0.2	5.3	53.4	6.6	32	2.1	1.5	0.5	10	1.7	1	0.4	2.4
632554	<1	46.8	<0.5	0.4	8.0	40.7	0.3	98	4.2	2.7	1.1	14	3.1	1	0.8	3.2
632555	<1	70.9	<0.5	0.1	6.1	42.1	0.5	42	3.3	2.3	0.7	13	2.5	2	0.7	2.2
632556	<1	35.9	<0.5	0.3	7.4	37.4	0.2	26	3.8	2.3	0.7	12	2.7	1	0.8	2.9
632557	<1	25.3	<0.5	0.2	7.6	42.2	0.3	97	3.2	2.5	0.9	12	2.9	1	0.8	2.9
632558	<1	104	<0.5	0.4	7.5	38.0	0.1	70	3.5	2.5	0.9	13	2.6	2	0.7	2.9
632559	<1	78.3	<0.5	0.5	7.8	33.0	<0.1	44	4.5	3.0	0.9	13	3.5	2	0.9	2.7
632560	<1	64.3	<0.5	0.2	13.9	31.3	<0.1	93	4.2	3.0	1.1	12	3.9	2	0.9	5.6
632561	<1	80.5	<0.5	0.4	7.7	30.0	0.5	106	3.6	2.2	0.9	11	2.5	1	0.6	2.8
632562	<1	150	<0.5	0.3	7.3	29.9	1.0	53	3.0	2.3	0.8	11	2.3	1	0.8	3.0
632563	<1	62.0	<0.5	0.3	5.4	28.8	1.7	47	2.7	2.0	0.7	9	2.1	1	0.6	2.3
632564	<1	44.9	<0.5	0.6	7.3	40.0	1.1	91	4.0	2.9	0.8	14	3.1	2	0.9	2.6
632565	<1	170	<0.5	0.3	8.4	29.8	0.3	77	3.9	2.8	1.0	12	3.4	2	0.8	3.2
632566	<1	36.1	<0.5	0.2	3.5	38.5	0.4	45	1.3	0.8	0.4	8	1.1	<1	0.2	1.6
632567	<1	113	<0.5	0.3	4.6	35.2	0.5	37	1.6	1.2	0.5	10	1.7	<1	0.4	1.8
632568	<1	64.1	<0.5	0.4	8.0	28.6	0.4	60	3.5	2.3	0.8	11	2.5	1	0.8	3.4
*Dup 632551	<1	15.5	<0.5	0.5	2.0	58.8	0.1	23	0.7	0.4	0.1	2	0.6	<1	0.1	0.9
*Dup 632563	<1	66.8	<0.5	0.3	5.4	27.5	1.7	48	3.0	1.8	0.6	9	2.3	1	0.6	2.1
*Blk BLANK	<1	<0.5	<0.5	0.4	<0.1	<0.5	<0.1	<5	<0.1	<0.1	<0.1	<1	<0.1	<1	<0.1	0.2
*Std SO3	<1	333	0.5	0.4	35.0	4.7	1.1	12	3.1	1.8	1.1	5	3.4	4	0.6	16.8

Element.	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Tl
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.05	2	1	0.1	5	5	0.2	0.2	1	0.1	1	0.1	0.5	0.1	0.1	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632551	0.10	2	<1	1.8	1070	44	0.5	1.2	n.a.	<0.1	<1	10.3	<0.5	0.1	0.9	<0.5
632552	0.40	2	4	12.1	63	6	2.8	4.5	n.a.	3.1	<1	160	<0.5	0.8	1.5	<0.5
632553	0.16	3	1	3.9	277	5	0.9	13.4	n.a.	1.0	<1	70.7	<0.5	0.3	0.7	<0.5
632554	0.30	3	2	6.7	83	5	1.4	3.9	n.a.	2.1	<1	118	<0.5	0.5	0.7	<0.5
632555	0.27	<2	2	6.2	136	<5	1.1	6.4	n.a.	1.9	<1	54.7	<0.5	0.5	0.8	<0.5
632556	0.35	2	2	6.8	124	<5	1.4	4.6	n.a.	1.6	<1	86.5	<0.5	0.6	0.8	<0.5
632557	0.30	3	2	6.4	115	<5	1.4	3.1	n.a.	2.0	<1	131	<0.5	0.6	0.4	<0.5
632558	0.33	3	2	6.7	110	<5	1.3	2.6	n.a.	1.7	<1	145	<0.5	0.5	0.7	<0.5
632559	0.45	3	2	7.8	96	<5	1.5	1.8	n.a.	2.3	<1	123	<0.5	0.6	0.4	<0.5
632560	0.30	3	2	9.7	97	<5	2.2	2.3	n.a.	2.2	<1	127	<0.5	0.6	0.6	<0.5
632561	0.32	<2	2	6.8	83	<5	1.4	18.9	n.a.	2.1	<1	117	<0.5	0.6	0.6	<0.5
632562	0.27	2	2	6.1	53	16	1.3	27.4	n.a.	1.9	<1	115	<0.5	0.5	1.6	<0.5
632563	0.25	19	1	5.2	66	<5	0.9	25.1	n.a.	1.7	<1	93.9	<0.5	0.4	0.8	<0.5
632564	0.40	4	3	7.4	93	6	1.3	3.9	n.a.	2.3	<1	56.2	<0.5	0.6	1.2	<0.5
632565	0.36	3	2	7.2	66	18	1.5	7.5	n.a.	2.3	<1	88.4	<0.5	0.7	0.8	<0.5
632566	0.06	<2	<1	2.7	260	5	0.6	4.9	n.a.	0.7	<1	89.0	<0.5	0.2	0.7	<0.5
632567	0.13	<2	1	4.3	191	33	0.7	17.2	n.a.	0.8	<1	124	<0.5	0.3	0.6	<0.5
632568	0.29	3	2	6.8	104	11	1.4	6.2	n.a.	1.6	<1	169	<0.5	0.5	0.6	<0.5
*Dup 632551	0.06	<2	<1	1.6	964	41	0.4	1.0	n.a.	<0.1	<1	7.9	<0.5	<0.1	0.6	<0.5
*Dup 632563	0.25	20	1	5.1	73	<5	1.0	24.4	n.a.	1.6	<1	92.7	<0.5	0.4	0.7	<0.5
*Blk BLANK	<0.05	<2	<1	<0.1	<5	<5	<0.2	<0.2	n.a.	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.5
*Std SO3	0.27	<2	5	18.3	14	14	4.8	35.2	n.a.	3.7	1	201	0.5	0.5	3.9	<0.5

Element.	Tm	U	V	W	Y	Yb	Zn	Zr
Method.	MS104	MS104	MS104	MS104	MS104	MS104	MS104	MS104
Det.Lim.	0.1	0.1	5	1	1	0.1	5	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
632551	<0.1	<0.1	17	<1	6	0.6	79	10.3
632552	0.4	0.3	543	<1	25	2.8	120	63.0
632553	0.2	<0.1	152	<1	13	1.8	95	40.3
632554	0.3	<0.1	281	<1	21	2.4	91	64.9
632555	0.3	<0.1	240	<1	19	2.2	81	53.7
632556	0.4	0.1	229	<1	20	2.4	96	53.5
632557	0.3	0.1	263	<1	19	2.2	99	60.0
632558	0.3	0.1	231	<1	18	2.1	79	55.7
632559	0.4	<0.1	257	<1	21	2.5	88	61.6
632560	0.5	0.2	242	<1	21	2.4	93	70.0
632561	0.3	<0.1	192	<1	17	2.1	60	51.1
632562	0.4	0.1	197	<1	17	2.0	90	51.1
632563	0.3	<0.1	183	<1	15	2.0	67	37.7
632564	0.5	0.1	258	<1	20	2.9	118	72.9
632565	0.4	<0.1	219	<1	20	2.7	87	60.2
632566	0.1	<0.1	72	<1	8	1.0	76	17.7
632567	0.2	<0.1	87	<1	11	1.4	57	30.0
632568	0.4	<0.1	150	<1	18	2.5	67	51.7
*Dup 632551	<0.1	<0.1	17	<1	5	0.4	72	8.6
*Dup 632563	0.3	<0.1	172	<1	15	1.8	70	36.2
*Blk BLANK	<0.1	<0.1	<5	<1	<1	<0.1	<5	1.0
*Std SO3	0.3	1.1	32	1	15	1.6	42	138

Element.	S
Method.	CHM112
Det.Lim.	0.01
Units.	%
632551	<0.01
632552	0.02
632553	<0.01
632554	0.06
632555	<0.01
632556	<0.01
632557	<0.01
632558	0.04
632559	<0.01
632560	0.07
632561	0.07
632562	0.03
632563	<0.01
632564	0.04
632565	0.06
632566	<0.01
632567	<0.01
632568	0.06
*Dup 632551	<0.01
*Dup 632563	<0.01
*Std SL_1	1.25

Element.	As	Se
Method.	AAH70	AAH70
Det.Lim.	0.1	0.1
Units.	ppm	ppm
632551	4.1	<0.1
632552	0.6	0.4
632553	13.1	<0.1
632554	0.3	0.3
632555	0.3	0.2
632556	0.8	<0.1
632557	0.7	0.2
632558	0.5	0.1
632559	0.3	0.2
632560	0.1	0.4
632561	2.3	0.2
632562	1.6	<0.1
632563	0.4	0.2
632564	0.2	0.5
632565	0.3	0.2
632566	0.3	0.1
632567	0.9	<0.1
632568	0.8	0.3
*Dup 632551	4.6	0.1
*Dup 632563	0.5	0.2
*Blk BLANK	<0.1	<0.1
*Std AA_CONTROL	>200	3.7

Appendix 5

Assay certificates from ALS CHEMEX Laboratories

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: LEA-MARIE BOWES-LYON CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 20-NOV-2001
Invoice #: I0128368
P.O. #:

IKH

QC DATA OF CERTIFICATE A0128368

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
PGMA-95	Std1	1	480	767	650	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	5.80	300	< 10	< 20	3.55	< 10	390	300	9560	19.95
CHEMEX MEAN	---	---	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670	19.10
370602	Dup	1-01	9	1.5	< 1	< 1	0.10	< 100	< 10	< 20	0.05	< 10	80	650	< 10	2.40
	Orig	1-01	6	0.5	< 1	< 1	0.15	< 100	< 10	< 20	0.05	< 10	80	800	< 10	2.65

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: LEA-MARIE BOWES-LYON CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 20-NOV-2001
Invoice #: I0128368
P.O. #:
IKH

QC DATA OF CERTIFICATE A0128368

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	0.009	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----			
SU1A-A22	Std1	1	0.8	2.45	1000	< 10	1.40	12200	-----	260	0.30	120	200			
CHEMEX MEAN	---	---	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208			
370602	Dup	1-01	< 0.1	19.80	820	< 10	< 0.05	1600	0.001	60	< 0.05	< 10	< 20			
	Orig	1-01	< 0.1	20.5	830	< 10	< 0.05	1660	0.001	70	< 0.05	< 10	< 20			

CERTIFICATION: _____ +

ALS Chemex

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5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0128368

Comments: ATTN: LEA-MARIE BOWES-LYON CC: MICHAEL DEHN

CERTIFICATE A0128368

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 20-NOV-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	20	RUSH Geo ring to approx 150 mesh
295	20	RUSH crush and split (0-3 Kg)
3202	20	Rock - save entire reject
290	20	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23r	20	Au ppb: Fuse 30g-ICPMS RUSH	FA-ICPMS	1	1000
Pt-MS23	20	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	20	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	20	Ag ppm: high grade 24 element	AAS	1	200
4031	20	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	20	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	20	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	20	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	20	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	20	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	20	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	20	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	20	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	20	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	20	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	20	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	20	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	20	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	20	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	20	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	20	Pb %: high grade 24 element	AAS	0.001	10.00
4047	20	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	20	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	20	V ppm: A22 ICP package	ICP-AES	10	50000
4050	20	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: LEA-MARIE BOWES-LYON CC: MICHAEL DEHN

Certificate Date: 20-NOV-2001
Invoice No. : I0128368
P.O. Number :
Account :IKH

CERTIFICATE OF ANALYSIS A0128368

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
370602	255	295	6	0.5	< 1	< 1	0.15	< 100	< 10	< 20	0.05	< 10	80	800	< 10	2.65
370603	255	295	< 1	< 0.5	< 1	< 1	8.55	300	< 10	< 20	0.65	< 10	< 10	80	< 10	1.35
370604	255	295	< 1	< 0.5	< 1	< 1	0.05	< 100	< 10	< 20	11.45	< 10	80	680	< 10	2.60
370605	255	295	< 1	< 0.5	< 1	< 1	0.10	< 100	< 10	< 20	2.90	< 10	90	900	< 10	2.95
370606	255	295	2	1.0	< 1	< 1	0.20	< 100	< 10	< 20	0.85	< 10	90	2710	< 10	3.90
370607	255	295	9	< 0.5	< 1	< 1	1.70	< 100	< 10	< 20	2.70	< 10	100	830	< 10	4.50
370608	255	295	2	< 0.5	< 1	2	8.80	700	< 10	< 20	1.35	< 10	30	110	10	5.05
370609	255	295	2	0.5	< 1	< 1	0.15	< 100	< 10	< 20	0.05	< 10	90	630	< 10	3.00
370610	255	295	1	2.0	< 1	1	1.25	< 100	< 10	< 20	0.70	< 10	100	1800	< 10	5.85
370611	255	295	< 1	2.5	< 1	< 1	5.60	< 100	< 10	< 20	5.45	< 10	50	580	< 10	5.20
370612	255	295	< 1	3.0	1	< 1	7.05	200	< 10	< 20	5.15	< 10	40	720	< 10	3.50
370613	255	295	< 1	2.5	< 1	< 1	1.30	< 100	< 10	< 20	2.65	< 10	50	1630	< 10	5.80
370614	255	295	< 1	0.5	< 1	1	0.20	< 100	< 10	< 20	0.05	< 10	110	1260	< 10	3.45
370615	255	295	< 1	< 0.5	< 1	< 1	7.85	< 100	< 10	< 20	0.15	< 10	10	130	< 10	4.30
370616	255	295	< 1	0.5	< 1	1	0.15	< 100	< 10	< 20	< 0.05	< 10	100	730	20	4.20
370617	255	295	1	1.0	< 1	< 1	0.35	< 100	< 10	< 20	0.05	< 10	120	1500	< 10	3.95
370618	255	295	< 1	6.5	1	< 1	6.95	100	< 10	< 20	6.50	< 10	30	160	10	2.80
370619	255	295	< 1	6.5	1	1	7.35	< 100	< 10	< 20	2.70	< 10	40	180	< 10	3.25
370620	255	295	1	2.5	2	< 1	6.70	< 100	< 10	< 20	5.45	< 10	40	210	< 10	3.75
370621	255	295	1800	4.0	5	47	2.05	< 100	< 10	100	3.95	< 10	510	390	3850	16.60

CERTIFICATION: _____ +

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: LEA-MARIE BOWES-LYON CC: MICHAEL DEHN

Certificate Date: 20-NOV-2001
Invoice No. : I0128368
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0128368

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
370602	255	295	< 0.1	20.5	830	< 10	< 0.05	1660	0.001	70	< 0.05	< 10	< 20			
370603	255	295	2.5	2.05	130	< 10	0.35	70	0.001	130	0.05	20	20			
370604	255	295	< 0.1	12.90	1830	< 10	< 0.05	1880	0.001	170	< 0.05	< 10	20			
370605	255	295	< 0.1	17.10	550	< 10	< 0.05	2170	< 0.001	60	< 0.05	< 10	< 20			
370606	255	295	< 0.1	18.80	1270	< 10	< 0.05	1930	0.001	30	< 0.05	10	20			
370607	255	295	< 0.1	16.30	1100	< 10	< 0.05	2170	< 0.001	90	< 0.05	10	60			
370608	255	295	1.8	3.65	680	< 10	2.60	210	0.002	360	0.25	110	100			
370609	255	295	< 0.1	18.55	570	< 10	< 0.05	2110	< 0.001	50	< 0.05	< 10	20			
370610	255	295	< 0.1	16.90	960	< 10	< 0.05	2000	< 0.001	30	< 0.05	50	60			
370611	255	295	0.3	10.10	820	< 10	1.20	840	0.001	60	0.10	90	60			
370612	255	295	0.6	6.65	640	< 10	2.95	480	0.001	100	0.25	130	60			
370613	255	295	< 0.1	14.75	1700	< 10	< 0.05	460	0.002	40	< 0.05	110	20			
370614	255	295	< 0.1	17.95	290	< 10	< 0.05	3150	< 0.001	60	< 0.05	< 10	20			
370615	255	295	0.1	8.25	400	< 10	0.95	90	< 0.001	30	< 0.05	30	140			
370616	255	295	< 0.1	18.95	720	< 10	< 0.05	2210	< 0.001	40	< 0.05	< 10	40			
370617	255	295	< 0.1	18.55	740	< 10	< 0.05	2510	< 0.001	60	< 0.05	10	40			
370618	255	295	0.2	4.30	710	< 10	3.70	200	< 0.001	200	0.25	160	100			
370619	255	295	1.8	6.85	590	< 10	1.90	540	0.001	60	0.15	200	80			
370620	255	295	0.6	4.40	770	< 10	2.30	340	< 0.001	90	0.05	140	60			
370621	255	295	0.1	2.55	1330	< 10	0.40	290	0.020	40	0.05	80	1480			

CERTIFICATION: _____ +

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 01-NOV-2001
Invoice #: I0127122
P.O. #:

IKH

QC DATA OF CERTIFICATE A0127122

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
PGMA-95	Std1	1	340	668	600	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	5.95	300	< 10	< 20	3.75	< 10	380	250	9400	19.60
CHEMEX MEAN	---	---	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670	19.10

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 01-NOV-2001
Invoice #: I0127122
P.O. #:

IKH

QC DATA OF CERTIFICATE A0127122

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	0.008	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----			
SU1A-A22	Std1	1	0.8	2.85	980	< 10	1.35	11550	-----	220	0.30	110	200			
CHEMEX MEAN	---	---	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208			

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
*Analytical Chemists * Geochemists * Registered Assayers*
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0127122

Comments: ATTN: T HUGHES CC: MICHAEL DEHN

CERTIFICATE A0127122

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 01-NOV-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	14	RUSH Geo ring to approx 150 mesh
295	14	RUSH crush and split (0-3 Kg)
3202	14	Rock - save entire reject
290	14	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23r	14	Au ppb: Fuse 30g-ICPMS RUSH	FA-ICPMS	1	1000
Pt-MS23	14	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	14	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	14	Ag ppm: high grade 24 element	AAS	1	200
4031	14	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	14	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	14	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	14	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	14	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	14	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	14	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	14	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	14	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	14	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	14	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	14	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	14	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	14	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	14	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	14	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	14	Pb %: high grade 24 element	AAS	0.001	10.00
4047	14	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	14	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	14	V ppm: A22 ICP package	ICP-AES	10	50000
4050	14	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T HUGHES CC: MICHAEL DEHN

Certificate Date: 01-NOV-2001
Invoice No. : I0127122
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0127122

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
370601	255	295	1	0.5	< 1	< 1	0.10	< 100	< 10	< 20	10.10	< 10	80	470	< 10	2.90
656438	255	295	8	7.0	6	< 1	4.50	100	< 10	< 20	5.90	< 10	60	1140	< 10	7.30
656439	255	295	23	< 0.5	3	< 1	5.40	100	< 10	< 20	5.20	< 10	50	90	60	8.45
656440	255	295	1	1.5	1	< 1	1.00	< 100	< 10	< 20	2.00	< 10	110	1280	< 10	7.65
656441	255	295	4	1.0	< 1	< 1	0.30	< 100	< 10	< 20	2.10	< 10	130	640	< 10	5.35
656442	255	295	28	4.5	< 1	< 1	0.20	< 100	< 10	< 20	7.90	< 10	110	650	< 10	4.80
656443	255	295	2	1.0	< 1	< 1	0.25	< 100	< 10	< 20	2.00	< 10	100	1210	< 10	5.45
656444	255	295	8	0.5	< 1	< 1	0.25	< 100	< 10	< 20	0.05	< 10	90	930	< 10	4.75
656445	255	295	2	< 0.5	< 1	< 1	0.20	< 100	< 10	< 20	1.15	< 10	100	500	< 10	4.40
656446	255	295	5	< 0.5	< 1	< 1	7.30	300	< 10	< 20	0.40	< 10	< 10	100	< 10	1.30
656447	255	295	< 1	0.5	< 1	< 1	0.15	< 100	< 10	< 20	1.55	< 10	120	820	< 10	4.95
656448	255	295	< 1	1.5	< 1	< 1	0.10	< 100	< 10	< 20	1.30	< 10	110	2150	< 10	4.75
656449	255	295	69	1.5	3	< 1	0.05	< 100	< 10	< 20	0.95	< 10	100	810	< 10	3.70
656450	255	295	14	0.5	2	< 1	0.05	< 100	< 10	< 20	1.55	< 10	100	560	< 10	4.65

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T HUGHES CC: MICHAEL DEHN

Page Number : -B
Total Pages : 1
Certificate Date: 01-NOV-2001
Invoice No. : I0127122
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0127122

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
370601	255	295	< 0.1	16.45	910	< 10	< 0.05	1820	0.001	80	< 0.05	< 10	< 20			
656438	255	295	1.0	8.00	1150	< 10	< 0.05	330	< 0.001	160	0.15	140	100			
656439	255	295	0.9	5.15	1370	< 10	0.55	710	< 0.001	80	0.15	60	100			
656440	255	295	< 0.1	18.65	1060	< 10	< 0.05	1610	< 0.001	10	< 0.05	50	20			
656441	255	295	< 0.1	22.9	730	< 10	< 0.05	2380	0.001	40	< 0.05	10	20			
656442	255	295	< 0.1	16.15	1180	< 10	< 0.05	1640	0.001	70	< 0.05	10	20			
656443	255	295	< 0.1	22.3	680	< 10	< 0.05	1540	0.001	< 10	< 0.05	10	20			
656444	255	295	< 0.1	21.5	540	< 10	< 0.05	1970	< 0.001	10	< 0.05	10	< 20			
656445	255	295	< 0.1	21.0	960	< 10	< 0.05	2020	0.001	< 10	< 0.05	< 10	20			
656446	255	295	1.5	0.90	110	< 10	3.40	30	< 0.001	50	0.15	10	20			
656447	255	295	< 0.1	23.5	440	< 10	< 0.05	2420	< 0.001	10	< 0.05	10	< 20			
656448	255	295	< 0.1	17.95	470	< 10	< 0.05	2740	< 0.001	< 10	< 0.05	10	60			
656449	255	295	< 0.1	20.8	450	< 10	< 0.05	2450	0.001	20	< 0.05	< 10	20			
656450	255	295	< 0.1	19.55	520	< 10	< 0.05	2390	0.001	20	< 0.05	< 10	< 20			

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
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5175 Timberlea Blvd., Mississauga
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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: MIDDLE BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 10-SEP-2001
Invoice #: I0123780
P.O. #: IKH

QC DATA OF CERTIFICATE A0123780

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
PGMA-95	Std1	1	380	686	650	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	5.65	400	< 10	< 20	3.60	< 10	360	260	9490	19.50
CHEMEX MEAN	---	---	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670	19.10

CERTIFICATION: _____

ALS Chemex

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5175 Timberlea Blvd., Mississauga
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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: MIDDLE BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 10-SEP-2001
Invoice #: I0123780
P.O. #:
IKH

QC DATA OF CERTIFICATE A0123780

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	0.008	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----			
SU1A-A22	Std1	1	0.8	2.70	970	< 10	1.35	11000	-----	220	0.30	110	200			
CHEMEX MEAN	---	---	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208			

CERTIFICATION: _____

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0123780

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0123780

(IKH) - GOLDCORP INC.

Project: MIDDLE BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 10-SEP-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	9	RUSH Geo ring to approx 150 mesh
295	9	RUSH crush and split (0-3 Kg)
3202	9	Rock - save entire reject
290	9	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23	9	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	9	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	9	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	9	Ag ppm: high grade 24 element	AAS	1	200
4031	9	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	9	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	9	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	9	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	9	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	9	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	9	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	9	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	9	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	9	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	9	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	9	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	9	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	9	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	9	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	9	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	9	Pb %: high grade 24 element	AAS	0.001	10.00
4047	9	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	9	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	9	V ppm: A22 ICP package	ICP-AES	10	50000
4050	9	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

Aurora Laboratory Services Ltd.
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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : MIDDLE BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Page Number : 1-A
Total Pages : 1
Certificate Date: 10-SEP-2001
Invoice No. : I0123780
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0123780

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
656420	255	295	2	2.0	1	< 1	0.15	< 100	< 10	< 20	0.10	< 10	< 10	60	10	>30.0
656421	255	295	17	1.5	2	< 1	0.85	< 100	< 10	< 20	0.25	< 10	30	190	120	21.0
656422	255	295	13	< 0.5	< 1	< 1	0.10	< 100	< 10	< 20	0.05	< 10	< 10	130	50	10.90
656431	255	295	1	0.5	< 1	< 1	< 0.05	< 100	< 10	< 20	11.85	< 10	< 10	120	< 10	1.80
656432	255	295	< 1	< 0.5	< 1	< 1	< 0.05	< 100	< 10	< 20	18.50	< 10	< 10	30	< 10	1.65
656433	255	295	65	< 0.5	< 1	< 1	0.05	< 100	< 10	< 20	13.60	< 10	< 10	90	10	2.70
656434	255	295	340	11.5	14	13	4.90	< 100	< 10	< 20	1.05	< 10	110	1410	2700	13.40
656435	255	295	6	3.5	3	1	2.25	< 100	< 10	< 20	13.00	< 10	50	950	50	6.70
656436	255	295	1	5.5	4	< 1	3.20	< 100	< 10	< 20	10.00	< 10	70	2020	30	8.15

CERTIFICATION: _____

ALS Chemex

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5175 Timberlea Blvd., Mississauga
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To: GOLDCORP, INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : MIDDLE BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Num 1-B
Total Pages :1
Certificate Date: 10-SEP-2001
Invoice No. : I0123780
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0123780

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
656420	255	295	< 0.1	2.45	11200	< 10	0.10	10	0.001	< 10	< 0.05	10	160
656421	255	295	< 0.1	1.60	5430	< 10	0.10	70	0.001	< 10	< 0.05	10	80
656422	255	295	< 0.1	0.40	1150	< 10	0.10	10	< 0.001	20	< 0.05	< 10	20
656431	255	295	< 0.1	6.45	4130	< 10	0.05	10	0.001	< 10	< 0.05	< 10	< 20
656432	255	295	< 0.1	9.70	5490	< 10	0.05	10	0.001	50	< 0.05	< 10	< 20
656433	255	295	< 0.1	6.95	3980	< 10	0.10	30	0.002	20	< 0.05	< 10	100
656434	255	295	0.1	7.40	4670	< 10	0.15	1120	< 0.001	40	0.30	180	120
656435	255	295	0.1	7.20	2880	< 10	0.10	470	0.001	100	0.05	100	80
656436	255	295	< 0.1	7.50	2840	< 10	0.10	710	0.001	80	0.10	120	140

CERTIFICATION:

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 03-SEP-2001
Invoice #: I0123224
P.O. #:

IKH

QC DATA OF CERTIFICATE A0123224

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
PGMA-95	Std1	1	260	731	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	5.80	300	< 10	20	3.55	< 10	350	280	9420	18.85
CHEMEX MEAN	---	---	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670	19.10

CERTIFICATION: _____ +

ALS Chemex

Aurora Laboratory Services Ltd.
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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 03-SEP-2001
Invoice #: I0123224
P.O. #:

IKH

QC DATA OF CERTIFICATE A0123224

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	0.007	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----			
SU1A-A22	Std1	1	0.7	2.65	970	< 10	1.35	10830	-----	230	0.30	110	200			
CHEMEX MEAN	---	---	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208			

CERTIFICATION: _____

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0123224

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0123224

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 03-SEP-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	8	RUSH Geo ring to approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
290	8	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23	8	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	8	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	8	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	8	Ag ppm: high grade 24 element	AAS	1	200
4031	8	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	8	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	8	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	8	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	8	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	8	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	8	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	8	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	8	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	8	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	8	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	8	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	8	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	8	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	8	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	8	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	8	Pb %: high grade 24 element	AAS	0.001	10.00
4047	8	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	8	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	8	V ppm: A22 ICP package	ICP-AES	10	50000
4050	8	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Page Number :1-A
Total Pages :1
Certificate Date: 03-SEP-2001
Invoice No. :I0123224
P.O. Number :
Account :IKH

CERTIFICATE OF ANALYSIS A0123224

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
632529	255	295	12	4.0	5	< 1	1.60	< 100	< 10	< 20	0.55	< 10	120	3340	40	5.25
632530	255	295	12	< 0.5	< 1	< 1	8.70	400	< 10	< 20	0.80	< 10	10	110	130	1.80
632532	255	295	680	6.0	5	4	3.20	< 100	< 10	< 20	1.15	< 10	140	2630	170	14.50
632534	255	295	17	8.5	7	< 1	4.10	< 100	< 10	< 20	6.80	< 10	70	1500	40	8.60
632537	255	295	3600	< 0.5	< 1	22	3.95	< 100	< 10	< 20	0.20	30	90	190	2980	8.60
632538	255	295	125	10.0	10	3	4.50	< 100	< 10	< 20	3.90	< 10	60	1060	660	11.75
632539	255	295	530	4.0	4	5	1.55	< 100	< 10	< 20	1.20	< 10	370	820	1160	21.8
632540	255	295	110	2.0	< 1	1	1.25	< 100	< 10	< 20	8.00	< 10	80	180	110	18.80

CERTIFICATION: _____

ALS Chemex

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PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 03-SEP-2001
Invoice No. : I0123224
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0123224

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
632529	255	295	< 0.1	19.00	510	< 10	0.15	1840	< 0.001	< 10	0.05	50	60			
632530	255	295	3.0	0.70	120	< 10	1.70	100	< 0.001	60	0.10	20	< 20			
632532	255	295	< 0.1	3.95	1870	< 10	0.15	800	0.001	< 10	0.10	110	80			
632534	255	295	0.1	7.95	2290	< 10	0.30	480	< 0.001	50	0.15	150	80			
632537	255	295	1.2	0.60	500	< 10	0.70	130	0.010	< 10	0.05	10	7060			
632538	255	295	< 0.1	5.15	2270	< 10	0.15	250	0.002	40	0.20	180	200			
632539	255	295	< 0.1	1.55	1680	< 10	0.20	470	0.012	< 10	0.05	60	100			
632540	255	295	< 0.1	6.00	11830	< 10	0.15	450	0.001	50	< 0.05	60	40			

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0122508

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0122508

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 24-AUG-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	5	RUSH Geo ring to approx 150 mesh
295	5	RUSH crush and split (0-3 Kg)
3202	5	Rock - save entire reject
290	5	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23	5	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	5	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	5	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	5	Ag ppm: high grade 24 element	AAS	1	200
4031	5	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	5	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	5	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	5	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	5	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	5	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	5	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	5	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	5	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	5	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	5	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	5	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	5	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	5	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	5	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	5	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	5	Pb %: high grade 24 element	AAS	0.001	10.00
4047	5	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	5	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	5	V ppm: A22 ICP package	ICP-AES	10	50000
4050	5	Zn ppm: A22 ICP package	ICP-AES	20	100000

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 24-AUG-2001
Invoice No. :I0122508
P.O. Number :
Account :IKH

CERTIFICATE OF ANALYSIS A0122508

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
632495	255	295	750	< 0.5	< 1	29	2.90	100	< 10	< 20	5.55	140	10	160	2660	3.50
632496	255	295	3200	< 0.5	< 1	44	3.35	100	< 10	< 20	0.25	60	< 10	130	4930	1.30
632497	255	295	16	< 0.5	< 1	< 1	8.05	200	< 10	< 20	3.30	< 10	< 10	110	40	1.45
632508	255	295	7	5.5	< 1	< 1	1.95	< 100	< 10	< 20	1.55	< 10	20	60	160	25.1
632515	255	295	1	< 0.5	< 1	1	0.95	< 100	< 10	< 20	2.80	< 10	< 10	110	10	20.1

CERTIFICATION: _____

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Certificate Date: 24-AUG-2001
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CERTIFICATE OF ANALYSIS A0122508

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
632495	255	295	0.8	2.15	1210	10	0.15	10	0.147	80	0.05	10	15100			
632496	255	295	1.3	0.20	90	< 10	0.15	10	0.009	50	0.05	10	6160			
632497	255	295	1.4	0.80	230	< 10	1.05	< 10	0.001	120	0.15	20	120			
632508	255	295	0.1	3.30	3950	< 10	0.20	10	0.004	10	0.05	50	100			
632515	255	295	0.1	1.65	2850	< 10	0.25	10	0.002	70	< 0.05	< 10	60			

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 14-AUG-2001
Invoice #: I0121528
P.O. #:
IKH

QC DATA OF CERTIFICATE A0121528

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb RUSH	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
LT-2	Std1	1	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LT-2	Std2	1	-----	250	0.5	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	230	230	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PGMA-95	Std1	1	-----	740	707	660	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-1	Blnk	1	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-A2	Blnk	1	-----	-----	-----	-----	-----	0.30	< 100	< 10	< 20	< 0.05	< 10	< 10	10	10
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	0.35	< 100	< 10	< 20	< 0.05	< 10	< 10	< 10	< 10
SIO2-I2	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std2	1	-----	-----	-----	-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	-----	5.45	300	< 10	< 20	3.30	< 10	350	270	9400
SU1A-A22	Std2	1	-----	-----	-----	-----	-----	5.50	300	< 10	< 20	3.35	< 10	360	270	9720
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670
632445	Dup	1-01	-----	2	3.5	3	< 1	6.20	200	< 10	< 20	1.50	< 10	30	1140	380
	Orig	1-01	-----	1	2.5	3	< 1	6.25	200	< 10	< 20	1.55	< 10	40	1160	370

CERTIFICATION: _____

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 14-AUG-2001
Invoice #: I0121528
P.O. #:
IKH

QC DATA OF CERTIFICATE A0121528

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)		
LT-2	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
LT-2	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SIO2-1	Blnk	1	-----	-----	-----	-----	-----	-----	-----	< 0.001	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	0.001	-----	-----	-----	-----		
SIO2-A2	Blnk	1	0.05	< 0.1	< 0.05	< 10	< 10	< 0.05	< 10	-----	270	< 0.05	< 10	< 20		
CHEMEX MEAN	---	---	< 0.05	< 0.1	< 0.05	< 10	< 10	< 0.05	< 10	-----	240	< 0.05	< 10	< 20		
SIO2-I2	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	-----	0.008	-----	-----	-----	-----		
SU-1A	Std2	1	-----	-----	-----	-----	-----	-----	-----	0.008	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----		
SU1A-A22	Std1	1	19.90	0.7	2.65	910	< 10	1.30	10980	-----	220	0.30	120	180		
SU1A-A22	Std2	1	20.3	0.7	2.65	910	< 10	1.35	10900	-----	230	0.30	120	180		
CHEMEX MEAN	---	---	19.10	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208		
632445	Dup	1-01	7.65	2.5	2.10	1830	< 10	1.00	230	< 0.001	60	0.30	110	120		
	Orig	1-01	7.95	2.6	2.15	1840	< 10	1.00	240	< 0.001	60	0.30	110	140		

CERTIFICATION: _____

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0121528

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0121528

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 14-AUG-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	38	RUSH Geo ring to approx 150 mesh
272	38	RUSH 4-7 Kg crush and split
3202	38	Rock - save entire reject
290	38	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-AA23r	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
Au-MS23	32	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	32	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	32	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	38	Ag ppm: high grade 24 element	AAS	1	200
4031	38	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	38	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	38	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	38	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	38	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	38	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	38	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	38	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	38	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	38	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	38	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	38	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	38	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	38	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	38	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	38	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	38	Pb %: high grade 24 element	AAS	0.001	10.00
4047	38	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	38	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	38	V ppm: A22 ICP package	ICP-AES	10	50000
4050	38	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

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TO: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 14-AUG-2001
Invoice No. : I0121528
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0121528

SAMPLE	PREP CODE	Au ppb RUSH	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
632445	255 272	-----	1	2.5	3	< 1	6.25	200	< 10	< 20	1.55	< 10	40	1160	370
632447	255 272	-----	8	33.5	190	< 1	9.25	< 100	< 10	< 20	8.05	< 10	80	330	690
632456	255 272	< 5	-----	-----	-----	< 1	8.00	1200	< 10	< 20	0.15	< 10	< 10	100	20
632457	255 272	< 5	-----	-----	-----	< 1	6.60	500	< 10	< 20	0.55	< 10	< 10	150	70
632458	255 272	10	-----	-----	-----	< 1	6.75	600	< 10	< 20	0.45	< 10	10	140	60
632459	255 272	< 5	-----	-----	-----	< 1	7.45	1700	< 10	< 20	0.15	< 10	< 10	160	40
632460	255 272	15	-----	-----	-----	< 1	2.40	200	< 10	< 20	3.45	< 10	30	1800	280
632461	255 272	1655	-----	-----	-----	4	4.85	300	< 10	< 20	0.80	< 10	20	580	2180
633051	255 272	-----	125	143.0	630	< 1	3.00	< 100	< 10	< 20	1.05	< 10	50	1020	870
633052	255 272	-----	240	34.5	140	< 1	3.50	< 100	< 10	< 20	1.45	< 10	60	700	280
633053	255 272	-----	20	4.5	21	< 1	1.65	< 100	< 10	< 20	0.70	< 10	10	80	140
633054	255 272	-----	12	6.5	25	< 1	1.45	< 100	< 10	< 20	0.90	< 10	10	130	60
633055	255 272	-----	8	48.0	210	< 1	3.20	< 100	< 10	< 20	2.95	< 10	70	1150	350
633056	255 272	-----	22	106.0	430	< 1	4.45	< 100	< 10	< 20	3.45	< 10	100	1340	980
633057	255 272	-----	4	16.5	79	< 1	1.65	< 100	< 10	< 20	0.95	< 10	20	80	140
633058	255 272	-----	91	88.5	370	< 1	5.35	< 100	< 10	< 20	6.85	< 10	120	1590	870
633059	255 272	-----	47	126.5	500	1	2.75	< 100	< 10	< 20	3.00	< 10	90	760	1280
633060	255 272	-----	30	125.0	480	< 1	3.60	< 100	< 10	< 20	5.15	< 10	110	1570	1440
633061	255 272	-----	26	104.0	300	< 1	4.15	< 100	< 10	< 20	4.70	< 10	70	1050	860
633062	255 272	-----	310	192.0	1000	1	5.45	< 100	< 10	< 20	1.10	< 10	200	1770	2360
633063	255 272	-----	4	3.5	9	< 1	5.70	< 100	< 10	< 20	5.35	< 10	40	160	110
633064	255 272	-----	6	4.0	12	< 1	6.00	< 100	< 10	< 20	3.85	< 10	40	150	100
633065	255 272	-----	3	3.0	3	1	5.95	< 100	< 10	< 20	4.40	< 10	40	130	140
633066	255 272	-----	35	2.0	3	2	5.05	200	< 10	< 20	4.85	< 10	30	140	100
633067	255 272	-----	80	50.5	195	1	6.70	400	< 10	< 20	5.80	< 10	70	670	550
633068	255 272	-----	31	106.0	610	1	3.15	100	< 10	< 20	2.00	< 10	200	940	2370
633069	255 272	-----	35	152.5	630	< 1	4.70	< 100	< 10	< 20	3.80	< 10	110	1900	1400
633070	255 272	-----	20	80.0	430	1	5.10	< 100	< 10	< 20	4.35	< 10	100	1400	690
633071	255 272	-----	540	45.0	230	< 1	1.20	< 100	< 10	< 20	1.75	< 10	10	60	340
633072	255 272	-----	37	12.0	31	< 1	7.45	100	< 10	< 20	6.75	< 10	60	820	110
633073	255 272	-----	38	73.5	300	1	5.85	< 100	< 10	< 20	4.65	< 10	100	1970	600
633074	255 272	-----	12	47.5	190	< 1	6.15	< 100	< 10	< 20	5.35	< 10	100	1190	480
633075	255 272	-----	1200	124.0	510	1	6.25	< 100	< 10	< 20	3.85	< 10	80	2500	590
633076	255 272	-----	290	120.0	490	1	2.75	< 100	< 10	< 20	1.30	< 10	40	550	1070
633077	255 272	-----	18	4.0	11	1	6.15	< 100	< 10	< 20	2.25	< 10	30	190	90
633078	255 272	-----	14	3.0	9	1	4.35	< 100	< 10	< 20	1.00	< 10	30	210	200
633079	255 272	-----	115	0.5	2	1	1.95	< 100	< 10	< 20	1.35	< 10	10	210	120
633080	255 272	-----	430	2.5	3	1	6.35	< 100	< 10	< 20	0.75	< 10	40	240	140

CERTIFICATION: *+

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Page Number : 1-B
Total Pages : 1
Certificate Date: 14-AUG-2001
Invoice No. : I0121528
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Account : IKH

CERTIFICATE OF ANALYSIS A0121528

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)		
632445	255 272	7.95	2.6	2.15	1840	< 10	1.00	240	< 0.001	60	0.30	110	140		
632447	255 272	7.95	0.4	5.45	950	10	1.60	1240	< 0.001	110	0.25	160	60		
632456	255 272	1.55	3.7	0.60	90	< 10	0.50	10	0.001	< 10	0.15	50	< 20		
632457	255 272	2.60	1.4	0.75	130	10	2.90	40	0.001	110	0.05	30	< 20		
632458	255 272	2.50	1.5	0.60	100	20	2.95	10	0.001	100	0.05	30	< 20		
632459	255 272	2.40	3.2	0.50	90	< 10	0.95	10	< 0.001	30	0.15	40	< 20		
632460	255 272	9.30	0.6	3.90	2040	10	0.50	530	0.001	60	0.15	130	80		
632461	255 272	4.00	2.0	4.80	310	< 10	0.10	300	0.002	10	0.05	10	200		
633051	255 272	>30.0	< 0.1	2.90	1550	< 10	0.05	1130	< 0.001	< 10	0.05	80	140		
633052	255 272	>30.0	< 0.1	2.90	1210	10	0.10	910	0.001	10	0.15	100	120		
633053	255 272	26.1	< 0.1	2.65	1390	< 10	0.05	230	< 0.001	30	< 0.05	10	140		
633054	255 272	>30.0	< 0.1	1.80	640	< 10	0.10	160	< 0.001	10	< 0.05	10	80		
633055	255 272	27.4	< 0.1	7.35	910	< 10	0.05	1370	< 0.001	50	0.05	80	60		
633056	255 272	27.6	< 0.1	6.70	1230	< 10	0.15	2370	0.001	40	0.15	130	80		
633057	255 272	>30.0	< 0.1	2.05	750	< 10	0.10	380	< 0.001	< 10	< 0.05	10	120		
633058	255 272	18.50	< 0.1	5.70	1120	< 10	0.75	2760	0.001	80	0.20	150	80		
633059	255 272	25.2	< 0.1	4.25	860	< 10	0.25	3130	0.001	40	0.05	60	80		
633060	255 272	25.6	< 0.1	6.15	1180	< 10	0.25	3480	< 0.001	40	0.10	90	60		
633061	255 272	26.5	< 0.1	4.40	940	< 10	0.15	1510	< 0.001	30	0.10	90	100		
633062	255 272	25.1	< 0.1	2.90	1010	< 10	0.15	2510	< 0.001	10	0.20	130	220		
633063	255 272	15.70	0.3	4.50	1670	< 10	0.15	100	0.001	50	0.65	240	140		
633064	255 272	18.15	0.1	5.65	1280	< 10	0.35	130	< 0.001	30	0.70	250	200		
633065	255 272	15.20	0.1	5.00	990	< 10	0.55	110	< 0.001	50	0.70	260	140		
633066	255 272	15.35	0.6	4.05	1490	< 10	0.10	90	< 0.001	60	0.55	220	100		
633067	255 272	14.20	0.9	4.90	1230	< 10	0.40	1150	0.001	60	0.65	270	120		
633068	255 272	27.4	< 0.1	7.00	800	< 10	0.20	8130	< 0.001	70	0.10	80	60		
633069	255 272	18.15	< 0.1	9.30	930	< 10	0.30	3030	0.001	60	0.15	120	80		
633070	255 272	17.40	< 0.1	8.90	1000	< 10	0.20	1820	< 0.001	50	0.15	120	80		
633071	255 272	>30.0	< 0.1	2.05	790	< 10	0.05	390	< 0.001	< 10	< 0.05	< 10	80		
633072	255 272	7.70	0.4	7.50	1260	< 10	1.30	410	0.001	80	0.20	160	60		
633073	255 272	17.70	< 0.1	8.10	1150	< 10	0.60	2060	< 0.001	50	0.20	140	80		
633074	255 272	19.00	0.1	6.15	1120	< 10	0.50	1830	< 0.001	60	0.20	150	80		
633075	255 272	25.9	0.1	4.75	1190	< 10	0.25	1800	0.001	10	0.20	160	220		
633076	255 272	>30.0	< 0.1	3.15	1180	< 10	0.05	960	0.001	< 10	0.05	60	160		
633077	255 272	19.45	0.1	3.20	1790	< 10	0.20	120	< 0.001	10	0.70	230	140		
633078	255 272	19.50	< 0.1	2.20	1480	10	0.05	80	< 0.001	< 10	0.45	170	80		
633079	255 272	11.75	< 0.1	1.40	1150	< 10	< 0.05	50	< 0.001	< 10	0.15	60	60		
633080	255 272	>30.0	< 0.1	3.00	1570	< 10	0.05	90	< 0.001	< 10	0.70	260	140		

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 14-AUG-2001
Invoice #: I0121814
P.O. #:

IKH

QC DATA OF CERTIFICATE A0121814

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
PGMA-95	Std1	1	730	724	680	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	5.35	300	< 10	< 20	3.30	< 10	340	260	9110	19.30
CHEMEX MEAN	---	---	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670	19.10
632462	Dup	1-01	5700	13.0	15	< 1	6.90	100	< 10	< 20	0.05	< 10	40	250	90	5.75
	Orig	1-01	6800	15.0	17	< 1	7.10	100	< 10	< 20	0.05	< 10	40	300	90	6.05

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 14-AUG-2001
Invoice #: I0121814
P.O. #:

IKH

QC DATA OF CERTIFICATE A0121814

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	0.007	-----	-----	-----	-----			
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----			
SU1A-A22	Std1	1	0.7	2.55	900	< 10	1.30	10850	-----	220	0.30	120	200			
CHEMEX MEAN	---	---	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208			
632462	Dup	1-01	2.0	1.35	680	< 10	0.30	150	< 0.001	50	0.25	170	80			
	Orig	1-01	2.0	1.40	710	< 10	0.20	170	< 0.001	50	0.25	160	60			

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
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PHONE: 905-624-2806 FAX: 905-624-6163

TO: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0121814

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0121814

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 14-AUG-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	18	RUSH Geo ring to approx 150 mesh
295	18	RUSH crush and split (0-3 Kg)
3202	18	Rock - save entire reject
290	18	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23	18	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	18	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	18	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	18	Ag ppm: high grade 24 element	AAS	1	200
4031	18	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	18	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	18	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	18	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	18	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	18	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	18	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	18	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	18	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	18	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	18	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	18	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	18	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	18	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	18	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	18	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	18	Pb %: high grade 24 element	AAS	0.001	10.00
4047	18	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	18	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	18	V ppm: A22 ICP package	ICP-AES	10	50000
4050	18	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
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PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 14-AUG-2001
Invoice No. : I0121814
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0121814

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
632462	255	295	6800	15.0	17	< 1	7.10	100	< 10	< 20	0.05	< 10	40	300	90	6.05
632463	255	295	20	19.5	24	< 1	10.45	300	< 10	< 20	0.05	< 10	40	220	150	9.15
632464	255	295	57	17.5	19	< 1	8.25	100	< 10	< 20	< 0.05	< 10	50	240	120	10.45
632465	255	295	610	22.0	23	< 1	9.20	100	< 10	< 20	0.15	< 10	60	90	90	14.50
632466	255	295	560	18.5	20	1	7.40	< 100	< 10	< 20	0.70	< 10	50	100	140	15.15
632467	255	295	7	16.5	19	< 1	7.55	300	< 10	< 20	4.55	< 10	50	110	70	7.85
632468	255	295	1460	23.0	25	< 1	8.25	300	< 10	< 20	0.60	< 10	50	110	160	9.65
632469	255	295	480	5.5	6	< 1	1.95	< 100	< 10	< 20	13.25	< 10	30	100	30	5.90
632470	255	295	9100	2.0	4	4	1.25	< 100	< 10	< 20	2.80	30	300	480	500	17.95
632471	255	295	6	< 0.5	1	< 1	2.25	< 100	< 10	< 20	0.30	< 10	< 10	320	70	2.50
632472	255	295	185	2.5	2	2	5.55	< 100	< 10	< 20	0.10	< 10	50	820	1170	9.00
632473	255	295	83	2.0	3	12	2.70	100	< 10	< 20	6.45	< 10	150	1500	2560	5.80
632474	255	295	8	< 0.5	2	< 1	0.05	< 100	< 10	< 20	16.90	< 10	< 10	30	< 10	4.95
632475	255	295	54	< 0.5	1	< 1	0.10	< 100	< 10	< 20	15.65	< 10	< 10	60	30	7.05
632476	255	295	230	1.5	11	4	0.40	< 100	< 10	< 20	9.90	< 10	20	40	500	>30.0
632477	255	295	41	1.0	7	< 1	0.15	< 100	< 10	< 20	16.60	< 10	< 10	50	80	8.85
632479	255	295	7	6.0	5	< 1	4.10	100	< 10	< 20	7.55	< 10	40	780	80	3.95
632481	255	295	1	0.5	1	< 1	5.10	500	< 10	< 20	1.45	< 10	10	220	20	4.35

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 14-AUG-2001
Invoice No. : I0121814
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0121814

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
632462	255	295	2.0	1.40	710	< 10	0.20	170	< 0.001	50	0.25	160	60			
632463	255	295	2.7	2.05	940	< 10	0.30	150	< 0.001	80	0.30	270	120			
632464	255	295	1.6	2.35	1040	< 10	0.30	200	0.001	30	0.25	230	100			
632465	255	295	1.1	2.85	2840	< 10	0.10	150	< 0.001	20	0.45	350	280			
632466	255	295	0.5	3.35	3190	< 10	0.35	230	0.001	10	0.35	290	180			
632467	255	295	1.4	3.60	1390	< 10	0.60	130	0.003	100	0.35	250	140			
632468	255	295	2.2	1.90	1540	< 10	0.30	180	< 0.001	30	0.40	300	160			
632469	255	295	0.1	5.65	6060	< 10	< 0.05	80	< 0.001	40	0.05	80	100			
632470	255	295	0.1	4.05	9880	< 10	< 0.05	1240	0.002	20	< 0.05	20	3700			
632471	255	295	0.6	0.55	360	< 10	0.05	40	< 0.001	10	< 0.05	< 10	20			
632472	255	295	1.2	2.15	920	< 10	0.25	270	< 0.001	30	0.15	70	80			
632473	255	295	0.8	3.60	2910	< 10	0.15	710	0.002	80	0.05	90	20			
632474	255	295	< 0.1	7.25	8040	< 10	< 0.05	10	< 0.001	50	< 0.05	< 10	< 20			
632475	255	295	< 0.1	6.00	7070	< 10	< 0.05	60	< 0.001	40	< 0.05	< 10	< 20			
632476	255	295	< 0.1	3.55	13200	< 10	< 0.05	160	0.003	40	< 0.05	10	60			
632477	255	295	< 0.1	6.10	8050	< 10	< 0.05	30	< 0.001	30	< 0.05	< 10	< 20			
632479	255	295	0.7	3.30	1930	< 10	0.40	330	< 0.001	140	0.20	110	60			
632481	255	295	2.4	1.95	740	< 10	0.20	40	< 0.001	60	0.15	50	20			

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 02-AUG-2001
Invoice #: I0121169
P.O. #:

IKH

QC DATA OF CERTIFICATE A0121169

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb RUSH	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
PGMA-95	Std1	1	-----	240	696	630	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	-----	5.65	300	< 10	20	3.50	< 10	360	280	9370
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 02-AUG-2001
Invoice #: I0121169
P.O. #: IKH

QC DATA OF CERTIFICATE A0121169

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)		
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	-----	0.008	-----	-----	-----	-----		
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----		
SU1A-A22	Std1	1	20.2	0.7	2.60	960	< 10	1.35	10830	-----	240	0.30	110	180		
CHEMEX MEAN	---	---	19.10	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208		

CERTIFICATION: _____

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Aurora Laboratory Services Ltd.
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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0121169

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0121169

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 02-AUG-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	8	RUSH Geo ring to approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
290	8	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-AA23r	1	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
Au-MS23	7	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	7	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	7	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	8	Ag ppm: high grade 24 element	AAS	1	200
4031	8	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	8	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	8	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	8	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	8	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	8	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	8	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	8	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	8	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	8	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	8	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	8	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	8	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	8	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	8	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	8	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	8	Pb %: high grade 24 element	AAS	0.001	10.00
4047	8	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	8	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	8	V ppm: A22 ICP package	ICP-AES	10	50000
4050	8	Zn ppm: A22 ICP package	ICP-AES	20	100000

ALS Chemex

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 02-AUG-2001
Invoice No. : I0121169
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0121169

SAMPLE	PREP CODE		Au ppb RUSH	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
632421	255	295	-----	43	11.0	13	1	5.80	< 100	< 10	< 20	0.90	< 10	70	2270	260
632422	255	295	-----	23	0.5	< 1	< 1	1.95	400	< 10	< 20	0.20	< 10	10	290	50
632423	255	295	-----	25	1.5	2	< 1	4.20	900	< 10	< 20	10.60	< 10	10	170	100
632427	255	295	-----	< 1	< 0.5	< 1	< 1	0.20	< 100	< 10	< 20	1.65	< 10	10	90	< 10
632428	255	295	-----	< 2	< 0.5	< 1	< 1	0.40	< 100	< 10	< 20	3.95	< 10	10	110	30
632429	255	295	-----	< 3	7.0	8	< 1	8.30	< 100	< 10	< 20	4.90	< 10	50	290	< 10
632435	255	295	-----	1	1.0	< 1	< 1	3.30	100	< 10	< 20	2.25	< 10	10	200	50
632438	255	295	25	-----	-----	-----	< 1	8.75	800	< 10	< 20	1.85	< 10	10	120	30

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CERTIFICATE OF ANALYSIS A0121169

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)		
632421	255	295	14.10	0.4	2.05	5670	< 10	0.70	650	0.003	100	0.25	200	360		
632422	255	295	3.90	0.7	0.40	340	< 10	0.20	40	< 0.001	40	< 0.05	10	20		
632423	255	295	7.25	1.5	5.80	11240	< 10	0.15	110	0.002	100	0.15	50	80		
632427	255	295	>30.0	< 0.1	1.35	1200	< 10	< 0.05	10	< 0.001	10	< 0.05	< 10	60		
632428	255	295	24.0	< 0.1	2.10	1020	< 10	0.05	40	0.001	< 10	< 0.05	< 10	60		
632429	255	295	7.25	0.4	8.75	1260	< 10	0.95	160	< 0.001	60	0.20	130	80		
632435	255	295	11.95	0.5	2.15	1760	< 10	0.40	10	< 0.001	40	0.10	50	120		
632438	255	295	3.75	1.2	1.40	390	< 10	3.85	10	< 0.001	250	0.30	70	40		

CERTIFICATION: *+

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Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-A
Tot QC Pg: 1
Date: 31-JUL-2001
Invoice #: I0121075
P.O. #: IKH

QC DATA OF CERTIFICATE A0121075

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
PGMA-95	Std1	1	770	697	620	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	380	725	670	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU1A-A22	Std1	1	-----	-----	-----	-----	5.80	300	< 10	< 20	3.55	< 10	370	270	9480	19.50
CHEMEX MEAN	---	---	-----	-----	-----	-----	5.40	290	< 10	25	3.20	< 10	410	220	9670	19.10

CERTIFICATION: _____

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M5H 3T7

Project: TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

QC Page #: 1-B
Tot QC Pg: 1
Date: 31-JUL-2001
Invoice #: I0121075
P.O. #:

IKH

QC DATA OF CERTIFICATE A0121075

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
PGMA-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A	Std1	1	-----	-----	-----	-----	-----	-----	0.007	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	0.010	-----	-----	-----	-----
SU1A-A22	Std1	1	0.8	2.70	960	< 10	1.45	11240	-----	240	0.30	110	200
CHEMEX MEAN	---	---	0.8	2.70	1070	< 10	1.35	12330	-----	220	0.29	110	208

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2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

A0121075

Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

CERTIFICATE A0121075

(IKH) - GOLDCORP INC.

Project: TROUT BAY
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 31-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
255	10	RUSH Geo ring to approx 150 mesh
295	10	RUSH crush and split (0-3 Kg)
3202	10	Rock - save entire reject
290	10	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS23	10	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	10	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	10	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
1263	10	Ag ppm: high grade 24 element	AAS	1	200
4031	10	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	10	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	10	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	10	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	10	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	10	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	10	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	10	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	10	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	10	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	10	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	10	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	10	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	10	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	10	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	10	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	10	Pb %: high grade 24 element	AAS	0.001	10.00
4047	10	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	10	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	10	V ppm: A22 ICP package	ICP-AES	10	50000
4050	10	Zn ppm: A22 ICP package	ICP-AES	20	100000

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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TROUT BAY
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 31-JUL-2001
Invoice No. : I0121075
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0121075

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
632401	255	295	2	3.5	6	1	7.70	< 100	< 10	< 20	7.35	< 10	50	190	60	8.55
632402	255	295	< 1	5.5	7	< 1	9.55	< 100	< 10	< 20	9.15	< 10	50	440	120	7.80
632408	255	295	3	0.5	1	1	0.65	< 100	< 10	< 20	0.80	< 10	< 10	60	20	>30.0
632409	255	295	< 1	3.5	3	< 1	8.65	200	< 10	< 20	7.70	< 10	60	260	30	9.60
632413	255	295	2	< 0.5	1	< 1	0.60	< 100	< 10	< 20	1.20	< 10	10	30	280	29.7
632592	255	295	< 1	5.5	6	< 1	9.95	< 100	< 10	< 20	7.60	< 10	50	310	20	5.30
632594	255	295	< 1	8.0	9	< 1	10.55	< 100	< 10	< 20	7.10	< 10	40	350	10	5.50
632596	255	295	< 1	0.5	< 1	< 1	0.20	< 100	< 10	< 20	0.20	< 10	< 10	80	10	>30.0
632597	255	295	1	2.0	2	< 1	0.65	< 100	< 10	< 20	0.95	< 10	< 10	50	20	>30.0
632599	255	295	< 1	1.0	1	< 1	0.05	< 100	< 10	< 20	2.40	< 10	< 10	170	10	10.25

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A0121075

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
632401	255	295	0.2	3.20	1170	< 10	0.95	240	< 0.001	200	0.80	290	100			
632402	255	295	0.3	6.00	1190	< 10	1.50	410	< 0.001	70	0.40	200	140			
632408	255	295	< 0.1	1.55	2180	< 10	< 0.05	90	< 0.001	10	< 0.05	10	140			
632409	255	295	0.7	5.10	1290	< 10	1.40	330	< 0.001	160	0.75	260	120			
632413	255	295	< 0.1	5.30	3450	< 10	< 0.05	90	0.001	10	< 0.05	10	240			
632592	255	295	0.4	7.65	940	< 10	1.30	440	< 0.001	130	0.15	100	60			
632594	255	295	0.3	6.80	950	< 10	1.85	260	< 0.001	120	0.20	150	60			
632596	255	295	< 0.1	1.00	660	< 10	< 0.05	10	< 0.001	< 10	< 0.05	< 10	120			
632597	255	295	< 0.1	1.75	2710	< 10	0.05	80	< 0.001	< 10	< 0.05	10	160			
632599	255	295	< 0.1	1.40	8460	< 10	< 0.05	80	< 0.001	< 10	< 0.05	< 10	20			

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Project : TROUT BAY
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Page Number :1-A
Total Pages :1
Certificate Date: 31-JUL-2001
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CERTIFICATE OF ANALYSIS A0121075

SAMPLE	PREP CODE		Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
632401	255	295	2	3.5	6	1	7.70	< 100	< 10	< 20	7.35	< 10	50	190	60	8.55
632402	255	295	< 1	5.5	7	< 1	9.55	< 100	< 10	< 20	9.15	< 10	50	440	120	7.80
632408	255	295	3	0.5	1	1	0.65	< 100	< 10	< 20	0.80	< 10	< 10	60	20	>30.0
632409	255	295	< 1	3.5	3	< 1	8.65	200	< 10	< 20	7.70	< 10	60	260	30	9.60
632413	255	295	2	< 0.5	1	< 1	0.60	< 100	< 10	< 20	1.20	< 10	10	30	280	29.7
632592	255	295	< 1	5.5	6	< 1	9.95	< 100	< 10	< 20	7.60	< 10	50	310	20	5.30
632594	255	295	< 1	8.0	9	< 1	10.55	< 100	< 10	< 20	7.10	< 10	40	350	10	5.50
632596	255	295	< 1	0.5	< 1	< 1	0.20	< 100	< 10	< 20	0.20	< 10	< 10	80	10	>30.0
632597	255	295	1	2.0	2	< 1	0.65	< 100	< 10	< 20	0.95	< 10	< 10	50	20	>30.0
632599	255	295	< 1	1.0	1	< 1	0.05	< 100	< 10	< 20	2.40	< 10	< 10	170	10	10.25

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Page Number : 1-B
Total Pages : 1
Certificate Date: 31-JUL-2001
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CERTIFICATE OF ANALYSIS A0121075

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)			
632401	255	295	0.2	3.20	1170	< 10	0.95	240	< 0.001	200	0.80	290	100			
632402	255	295	0.3	6.00	1190	< 10	1.50	410	< 0.001	70	0.40	200	140			
632408	255	295	< 0.1	1.55	2180	< 10	< 0.05	90	< 0.001	10	< 0.05	10	140			
632409	255	295	0.7	5.10	1290	< 10	1.40	330	< 0.001	160	0.75	260	120			
632413	255	295	< 0.1	5.30	3450	< 10	< 0.05	90	0.001	10	< 0.05	10	240			
632592	255	295	0.4	7.65	940	< 10	1.30	440	< 0.001	130	0.15	100	60			
632594	255	295	0.3	6.80	950	< 10	1.85	260	< 0.001	120	0.20	150	60			
632596	255	295	< 0.1	1.00	660	< 10	< 0.05	10	< 0.001	< 10	< 0.05	< 10	120			
632597	255	295	< 0.1	1.75	2710	< 10	0.05	80	< 0.001	< 10	< 0.05	10	160			
632599	255	295	< 0.1	1.40	8460	< 10	< 0.05	80	< 0.001	< 10	< 0.05	< 10	20			

CERTIFICATION: _____

Appendix 6

Diamond drill log for Noramco drill hole NDC87-5 and assay results of resampling

GoldCorp Inc.

Diamond Drill Hole Report

Drilling

Azimut:	225	
Dip:	45	
Length:	73.00	meters
Started:		
Completed:		
Logged:		
Wedged :	No	
Wedged from:		

Casing

Length:	3.50	meters
Pulled:	No	
Capped:	No	
Cemented:	No	

Core

Dimension:	BQ
Original Units:	M
Storage:	

Location

Township:	BALL
Claim No:	
NTS:	
Surface Hole :	Yes

Coordinate- Gemcom	Coordinate - UTM	Coordinate- Grid
East:	**East:**	**East:**
North:	**North:**	**North:**
Elevation:	**Elevation:**	**Elevation:**
	UTM Zone:	**Grid Name:**

Target: Presumably tested zinc mineralisation exposed in old pit.

Comments: Hole not located in field.
Hole retrieved from MNDM core farm, Red Lake, following >3000 ppb Au grab sample from a pit.
DDH considered to have tested the mineralisation, based on geology, DDH map & Noramco report.
Core returned to Red Lake MNDM core library.

Deviation Tests

Distance	Azimuth	Dip	Type
0.00	225.00	45.00	C

goldcorp

Goldcorp Inc.

Geological Description

Hole Number : **NDC87-5**
Project : **TROUT BAY**
Project Number: **10**

From	To				Fabric 1			Fabric 2			Fabric 3			Structure			Alteration										Sulphide (%)						Veins (%)				
(m)	(m)	Rock Description	V.G.	Mag	Type	St.	Ang.	Type	St.	Ang.	Type	St.	Ang.	Bxn	Shr	Vn	Ble	Sil	Dol	Cal	Bio	Ser	Chl	Tlc	Oth	Oth%	Py	Po	Cp	Sp	Oth	Oth%	Qz	Fe	Cal	Oth	Oth%
0.00	**3.50**	**OVERBURDEN (0B)**	No	-		-	-		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-
3.50	**9.75**	**Dacite (Ash)-Lapilli Tuff (2C)** Medium grained, with abundant altered, rounded, poorly flattened plagioicase, with chilled edges. Av diameter, <0.5 mm. Well sorted, self-supported, with inor coalescent or atoll-style feldspar & sparse qz. Atoll stuctures reflect either fine opaques or silica within feldspars. <1% irregular, detrital pseudofiamme of bte +/- <0.1% py. Lineation defined by bte or very fine albitic+/- micaceous slips. CAF at 70+. Nil matrix carbonate, & <0.1% veining. Gradational lower contact, with incresing chlorite in matrix. Foliated.	No	0	FOL	2	72		-	-		-	-	-	-	-	-	-	-	-	-	1	-	1	-		-	0	-	-	-		-	0	-	0		-
9.75	**16.30**	**GABBRO (6G)** Medium grained, not coarse, with wide chilled margins. Trace magnetite. Abundant sub-idioblastic amphibole. Massive to lineated, with slight alignment of amphibole. Mafics to 2 mm diameter, (average); locally porphyroblastic or felty-bladed, more actinolitic, though defined more by bladed plagioicase. Very poorly chloritised.	No	1	FOL	1	72		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	AM	1	-	-	-	-		-	-	-	-		-
16.30	**33.30**	**Dacite Tuff (2C)** Grey, locally, pale grey. Scattered, weakly elongate to 3:1 plagioclase to 2 mm, set in a grey, fine grained, occasionally very silicic matrix. Section appears annealed, flattened & may well be welded in part, with recrystallisation, present over dm widths. Effect is an irregular, discontinuous <1mm wide lamellar fabric. S-planes >75, often 85 to CA. Sparse, <0.2%, thin bte flamme (ss). Some colouration producing vague banding reflects cyclical pulses of variable qz & feldspar content & grain size. (High T laminar ash flows).	No	0	RIB	1	75		-	-		-	-	-	-	-	-	-	-	-	-	1	-	1	-		-	0	-	-	-		-	-	-	-		-

From (m)	To (m)	Rock Description	V.G.	Mag	Fabric 1 Type	Fabric 1 St.	Fabric 1 Ang.	Fabric 2 Type	Fabric 2 St.	Fabric 2 Ang.	Fabric 3 Type	Fabric 3 St.	Fabric 3 Ang.	Structure Bxn	Structure Shr	Structure Vn	Alteration Ble	Alteration Sil	Alteration Dol	Alteration Cal	Alteration Bio	Alteration Ser	Alteration Chl	Alteration Tlc	Alteration Oth	Alteration Oth%	Sulphide (%) Py	Sulphide (%) Po	Sulphide (%) Cp	Sulphide (%) Sp	Sulphide (%) Oth	Sulphide (%) Oth%	Veins (%) Qz	Veins (%) Fe	Veins (%) Cal	Veins (%) Oth	Veins (%) Oth%
		27.5-28.6 Qz veining with weak calcite & late to post-kinematic. Weak interstitial chlorite. Still in a weakly welded dacite tuff. Veining at 40 & 80 to CA. High angle veining is weakly dolomitic, & may be associated with felty chlorite banding. At depth, more plagiolcase blastic/phyric, lineated, with <0.2% very fine bte & opaques, trace py. Merges into:																																			
33.30	38.40	**Dacite Lapilli Tuff (2C)** More equigranular, with intersitial fine bte & opaques more prominent. Very weakly lineated, with some 2% sub-vitreous to white, 55-75 to CA, qz+/-chlorite+/-tourmaline. Abundant fine, quenched plagioclase lapilli in a recrystallised, weakly silicic matrix. Well soretd. Probably a single pyroclastic eruptive event.	No	0	FOL	1	-		-	-		-	-									1	-	-	-		-						-					-
38.40	40.60	**Dacite Tuff (2C)** As preceding, with 60% possibly welded or quite silicic, finer, with distinct fine sericite threads, OR lineated, finely sericitic. <0.2% carbonate+/-chlorite threads/veinlets, associated with localised feldspathic blastisation. CAF 60-48.	No	0	FOL	1	-		-	-		-	-														-						-					-
40.60	73.00	**Dacite Lapilli Tuff (2C)** Comprises some 80% feldspar to 2 mm diameter. Sub-idioblastic to rounded, set in s fine, weakly silicic matrix. 0.2 to 3% fleck lineate, rarely very finely fragmental biotitic, to 2 mm in length. Non-magnetic, trace py. CAB averages 72. Locally bleached, more massive, medium grained, annealed, still feldspathic. Unit may contain dm-0.5 m wide concentrations of patchy silicic, truly welded tuff, e.g. 67.5-68.1; OR very fine blastic ash bedded, e.g. 55-55.1. Possible laminar ?surge deposits, being finely layered. 57.8-59.2 3% late qz veining, with <1% py-cp-sp. Sulphides are late, undeformed. Host is weakly	No	0	FOL	1	-		-	-		-	-									1	-	1	-	AB	1	1	0	0	0		-	1	-	1		-

From	To				Fabric 1			Fabric 2			Fabric 3			Structure			Alteration									Sulphide (%)						Veins (%)				
(m)	(m)	Rock Description	V.G.	Mag	Type	St.	Ang.	Type	St.	Ang.	Type	St.	Ang.	Bxn	Shr	Vn	Ble	Sil	Dol	Cal	Bio	Ser	Chl	Tlc	Oth	Oth%	Py	Po	Cp	Sp	Oth	Oth%	Qz	Fe	Cal	Oth	Oth%
		lineated to lamellar-banded, chloritic. Possible exhalative section. Contains 1-2% thin, fabric parallel py. Fabric at 80-65 to CA. Note: Upper contact zone exhibits a <5 m wide chloritisation of the sparse interstitial mafics in matrix. However, still strongly feldspathic. Lowermost 0.4m is plagioclase phyric, slightly coarser, to 4 mm diameter, though coarse fraction (3-4mm), comprises <0.2% of section. 72.1-73 Weakly flattened, with scattered mm long to 2x3 mm plagioclase. Very weakly matrix chloritic. Finely banded, with well-developed strain shadows in the plagioclase lapilli. Medium grained, grey to finer, dk grey. Relatively soft, & can be scratched with knife. (Clinozoisite alteration, + fine mica). At bottom, finely laminar, 7 again, possible a surge deposit, with very fine bte-chlorite fiamme. CAF 72-75 <0.2% calcite threads																																			

goldcorp

Goldcorp Inc.

Assay Report

Hole Number NDC87-5
Project TROUT BAY
Project Number 10

From (m)	To (m)	Sample	Length	SG (t/m3)	Au (ppb)	Cu (ppm)	Pt (ppb)	Ni (%)	Cu (%)	Ni (ppm)	Pd (ppb)	Zn (%)	Ag (ppm)	Pb (%)	Au (g/t)	Rh (ppb)	Au (Oz/t)	Zn (ppm)	S (%)
20.00	21.50	630042	1.50	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26.50	28.20	630043	1.70	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45.50	47.00	630044	1.50	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56.30	57.80	630045	1.50	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57.80	59.20	630046	1.40	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59.20	60.70	630047	1.50	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72.30	73.00	630048	0.70	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Noramco **Diamond drill hole: NDC87-5**

Assay results of resampling (see last page of log for sampling intervals)

Sample No.	Au	Ag	Al%	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
630042	<5	3	8.15	800	<10	<20	2.80	<10	10	100	40	3.05	1.80	1.15	550	<10	2.45	10	<0.001	480	0.30	70	80
630043	<5	2	8.60	400	<10	<20	1.85	<10	<10	110	20	1.95	2.40	0.85	350	<10	1.45	<10	<0.001	130	0.20	30	20
630044	5	<1	8.25	300	<10	<20	3.35	<10	20	150	60	3.50	1.30	1.95	590	<10	2.10	40	<0.001	230	0.25	80	60
630045	10	<1	8.15	300	<10	<20	3.65	<10	20	160	60	4.00	1.30	2.20	650	<10	2.15	50	<0.001	220	0.25	100	60
630046	<5	<1	8.20	300	<10	<20	1.85	<10	<10	90	30	2.15	1.20	0.80	290	<10	3.15	10	<0.001	240	0.20	40	40
630047	<5	<1	8.10	300	<10	<20	1.10	<10	<10	70	10	1.75	1.00	1.15	170	<10	3.30	<10	<0.001	220	0.15	30	20
630048	<5	<1	8.40	600	<10	<20	2.95	<10	10	90	40	2.85	1.6	1.1	450	<10	2.55	10	0.001	390	0.3	70	60

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TB
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Page Number :1-A
Total Pages :1
Certificate Date: 19-SEP-2001
Invoice No. :I0124101
P.O. Number :
Account :IKH

CERTIFICATE OF ANALYSIS A0124101

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
630042	255	295	< 5	3	8.15	800	< 10	< 20	2.80	< 10	10	100	40	3.05	1.8	1.15
630043	255	295	< 5	2	8.60	400	< 10	< 20	1.85	< 10	< 10	110	20	1.95	2.4	0.85
630044	255	295	5	< 1	8.25	300	< 10	< 20	3.35	< 10	20	150	60	3.50	1.3	1.95
630045	255	295	10	< 1	8.15	300	< 10	< 20	3.65	< 10	20	160	60	4.00	1.3	2.20
630046	255	295	< 5	< 1	8.20	300	< 10	< 20	1.85	< 10	< 10	90	30	2.15	1.2	0.80
630047	255	295	< 5	< 1	8.10	300	< 10	< 20	1.10	< 10	< 10	70	10	1.75	1.0	1.15
630048	255	295	< 5	< 1	8.40	600	< 10	< 20	2.95	< 10	10	90	40	2.85	1.6	1.10

CERTIFICATION:_____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
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To: GOLDCORP INC.

2700 - 145 KING ST., W.
TORONTO, ON
M5H 3T7

Project : TB
Comments: ATTN: T. HUGHES CC: MICHAEL DEHN

Certificate Date: 19-SEP-2001
Invoice No. : I0124101
P.O. Number :
Account : IKH

CERTIFICATE OF ANALYSIS A0124101

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)					
630042	255	295	550	< 10	2.45	10	< 0.001	480	0.30	70	80					
630043	255	295	350	< 10	1.45	< 10	< 0.001	130	0.20	30	20					
630044	255	295	590	< 10	2.10	40	< 0.001	230	0.25	80	60					
630045	255	295	650	< 10	2.15	50	< 0.001	220	0.25	100	60					
630046	255	295	290	< 10	3.15	10	< 0.001	240	0.20	40	40					
630047	255	295	170	< 10	3.30	< 10	< 0.001	220	0.15	30	20					
630048	255	295	450	< 10	2.55	10	0.001	390	0.30	70	60					

CERTIFICATION:

Work Report Summary

Transaction No: W0220.01100 **Status:** APPROVED
Recording Date: 2002-JUN-27 **Work Done from:** 2001-JUN-01
Approval Date: 2002-SEP-13 **to:** 2001-OCT-30

Client(s):

125824 GOLDCORP INC.

Survey Type(s):

ASSAY GCHEM GEOL

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
G 2000207	$800	$800	$0	$0	$800	800	$0	$0	
G 2000208	$400	$400	$0	$0	$400	400	$0	$0	
G 2000209	$400	$400	$0	$0	$400	400	$0	$0	
G 2000215	$400	$400	$0	$0	$400	400	$0	$0	
G 2000243	$450	$450	$0	$0	$450	450	$0	$0	
G 2000259	$200	$200	$0	$0	$200	200	$0	$0	
G 2000260	$400	$400	$0	$0	$400	400	$0	$0	
G 2020080	$400	$400	$0	$0	$400	400	$0	$0	
G 2020081	$1,200	$1,200	$0	$0	$1,200	1,200	$0	$0	
G 2020082	$600	$600	$0	$0	$600	600	$0	$0	
G 2020123	$400	$400	$0	$0	$400	400	$0	$0	
G 2020124	$1,000	$1,000	$0	$0	$1,000	1,000	$0	$0	
G 2020125	$600	$600	$0	$0	$600	600	$0	$0	
KRL 870130	$2,500	$2,500	$900	$900	$1,600	1,600	$0	$0	2006-AUG-29
KRL 1143622	$1,200	$1,200	$0	$0	$600	600	$600	$600	2004-MAY-31
KRL 1143623	$500	$500	$400	$400	$100	100	$0	$0	2007-MAY-31
KRL 1143645	$2,800	$2,800	$0	$0	$0	0	$2,800	$2,800	2004-MAY-31
KRL 1184316	$2,000	$2,000	$400	$400	$1,600	1,600	$0	$0	2007-JUN-01
KRL 1184317	$600	$600	$0	$0	$0	0	$600	$600	2007-JUN-01
KRL 1184909	$2,000	$2,000	$2,400	$2,400	$0	0	$800	$800	2005-SEP-27
KRL 1184910	$5,000	$5,000	$4,800	$4,800	$0	0	$200	$200	2005-SEP-27
KRL 1184911	$400	$400	$0	$0	$0	0	$400	$400	2004-SEP-27
KRL 1184912	$400	$400	$0	$0	$0	0	$400	$400	2004-SEP-27
KRL 1184914	$450	$450	$0	$0	$450	450	$0	$0	2004-SEP-27
KRL 1184915	$800	$800	$0	$0	$800	800	$0	$0	2004-SEP-27
KRL 1184916	$300	$300	$0	$0	$300	300	$0	$0	2004-SEP-27
KRL 1185190	$2,250	$2,250	$0	$0	$2,250	2,250	$0	$0	2004-SEP-27
KRL 1234022	$800	$800	$0	$0	$0	0	$800	$800	2005-JUN-28
KRL 1234029	$900	$900	$800	$800	$100	100	$0	$0	2007-JUN-28
KRL 1234039	$200	$200	$0	$0	$0	0	$200	$200	2005-JUN-28
KRL 1234051	$400	$400	$800	$800	$0	0	$0	$0	2007-JUN-28
KRL 1234065	$400	$400	$400	$400	$0	0	$0	$0	2005-APR-21
KRL 1234066	$2,500	$2,500	$0	$0	$2,500	2,500	$0	$0	2005-APR-21
KRL 1234067	$1,650	$1,650	$0	$0	$1,650	1,650	$0	$0	2005-APR-21
KRL 1234081	$500	$500	$0	$0	$0	0	$500	$500	2004-NOV-24

Work Report Summary

Transaction No: W0220.01100 **Status:** APPROVED
Recording Date: 2002-JUN-27 **Work Done from:** 2001-JUN-01
Approval Date: 2002-SEP-13 **to:** 2001-OCT-30

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
KRL 1234082	$9,500	$9,500	$1,200	$1,200	$8,300	8,300	$0	$0	2004-NOV-24
KRL 1234083	$8,500	$8,500	$2,400	$2,400	$0	0	$6,100	$6,100	2005-NOV-24
KRL 1234084	$7,500	$7,500	$5,600	$5,600	$0	0	$1,900	$1,900	2005-NOV-24
KRL 1234140	$1,700	$1,700	$800	$800	$0	0	$900	$900	2005-JUL-04
KRL 1234141	$500	$500	$400	$400	$100	100	$0	$0	2005-JUL-04
KRL 1234142	$400	$400	$0	$0	$0	0	$400	$400	2004-JUL-04
KRL 1234143	$2,500	$2,500	$0	$0	$0	0	$2,500	$2,500	2004-JUL-04
KRL 1234144	$200	$200	$0	$0	$0	0	$200	$200	2004-JUL-04
KRL 1234148	$200	$200	$0	$0	$200	200	$0	$0	2005-JUL-27
KRL 1234155	$800	$800	$0	$0	$0	0	$800	$800	2004-OCT-05
KRL 1234156	$700	$700	$0	$0	$0	0	$700	$700	2004-OCT-05
KRL 1234157	$800	$800	$0	$0	$0	0	$800	$800	2004-OCT-05
KRL 1234159	$0	$0	$6,400	$6,400	$0	0	$0	$0	2004-FEB-08
KRL 1234160	$0	$0	$6,400	$6,400	$0	0	$0	$0	2004-FEB-08
KRL 1234161	$0	$0	$6,400	$6,400	$0	0	$0	$0	2004-FEB-08
KRL 1234170	$200	$200	$800	$800	$0	0	$0	$0	2005-JUN-07
KRL 1234245	$0	$0	$4,800	$4,800	$0	0	$0	$0	2006-JUL-06
KRL 1234259	$0	$0	$1,600	$1,600	$0	0	$0	$0	2005-JUN-21
	$69,300	$69,300	$47,700	$47,700	$27,800	$27,800	$21,600	$21,600	

External Credits: $0

Reserve:

$21,600 Reserve of Work Report#: W0220.01100

$21,600 Total Remaining

Status of claim is based on information currently on record.

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Date: 2002-SEP-16

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

Tel: (888) 415-9845
Fax:(877) 670-1555

GOLDCORP INC.
SUITE 2700
145 KING STREET WEST
TORONTO, ONTARIO
M5H 1J8 CANADA

Submission Number: 2.23827
Transaction Number(s): W0220.01100

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at bruce.gates@ndm.gov.on.ca or by phone at (705) 670-5856.

Yours Sincerely,

Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist

Goldcorp Inc.
(Claim Holder)

Michael Alexander Dehn
(Agent)

Assessment File Library

Goldcorp Inc.
(Assessment Office)

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue Jul 2 2002 15:24h Eastern

TOWNSHIP / AREA	PLAN
BALL	G-3740

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Red Lake
Land Titles/Registry Division	KENORA
Ministry of Natural Resources District	RED LAKE

TOPOGRAPHIC

LAND TENURE

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Mineral Rights
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Land Use Permit
Client Pit Permit
Water Power Lease Agreement
1239687 Mining Claim

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition
Mining Act Withdrawal Types
Wkns Surface And Mining Rights Withdrawn
Wk Surface Rights Only Withdrawn
Wm Mining Rights Only Withdrawn
Order in Council Withdrawal Types
Wkns Surface And Mining Rights Withdrawn
Wk Surface Rights Only Withdrawn
Wm Mining Rights Only Withdrawn

Na IMPORTANT NOTICES

1:20000
0 500 1000 1500 2000m

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
9830	Wkm	Jan 1 2001	LUND LAKE RESERVE #21 EM M 580
266	Wkm	Jan 1 2001	PENDING APP FOR EXPLORATORY LICENSE OIL NATURAL GAS (REG 7650 NWR
WLL P2378	Wkm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 20016101 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
WLL P2376	Wkm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 20016101 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
WLL P2376	Wkm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 20016101 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
WLL P2370	Wkm	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 20016101 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
559	Wkm	Jan 1 2001	WOODLAND CARIBOU PROVINCIAL PARK

IMPORTANT NOTICES

Areas below which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

2.23827

GEOL

ASSAY

GCHEM

52M01SE2018 2.23827 TODD

200

UTM Zone 15
1:50000 grid

These wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on it may be compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may be obtained through the local Lands Tribe or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office Toll Free
Walter Gordon Miller Centre Tel: 1 (800) 465 9945
933 Ramsey Lake Road Fax: 1 (877) 670 1444
Sudbury, ON P3E 6B5
Home Page: www.gov.on.ca/MNDM/MINES/MRO/mromaps.html

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show all registered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licenses, or other forms of dispositions of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit the entry to stake mining claims may not be illustrated.

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue Jul 2 2002 15:42h Eastern

TOWNSHIP / AREA	PLAN
MULCAHY	G-3755

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Red Lake
Land Titles/Registry Division	KENORA
Ministry of Natural Resources District	RED LAKE

TOPOGRAPHIC

LAND TENURE

Freehold Patent

Leasehold Patent

Licence of Occupation

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
9940	Wdrn	Jan 1 2001	MINE RESERVE FILE NO.N-9003 DATE 9 MARCH, 1978
244	Wdrn	Jan 1 2001	PENDING APP FOR EXPLORATORY LICENSE OIL NATURAL GAS (REG 705) NHR
WLL P2370	Wdrn	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 2001-01 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being processed for registration and may be subject to further change.
WLL P2375	Wdrn	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 2001-01 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being processed for registration and may be subject to further change.
WLL P2376	Wdrn	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 2001-01 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being processed for registration and may be subject to further change.
WLL P2378	Wdrn	Nov 21 2001	Mining and Surface rights withdrawn Section 35 of the Mining Act RSO 1990 Order # WLL 2001-01 ONT. Nov. 21, 2001 Note: this boundary closely represents the area that is being processed for registration and may be subject to further change.

IMPORTANT NOTICES

Please select which special regulations, limitations or conditions exist to affect normal prospecting, staking and mineral development activities.

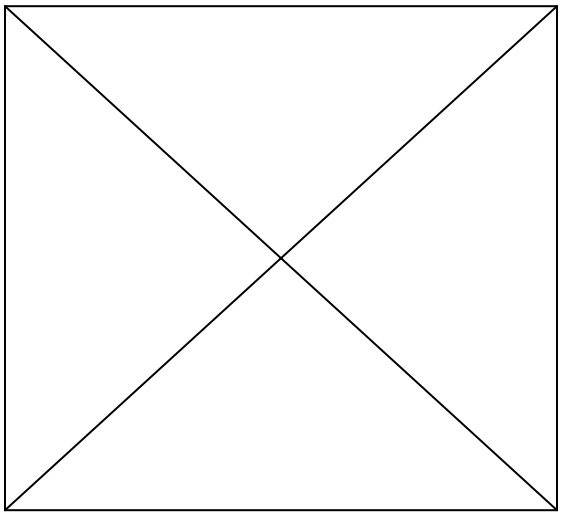
223827
GEOL
ASSAY
GCHEM

Problem Page
The original page in this document had a problem when scanned and as a result was unable to convert to Portable Document Format (PDF).

We apologize for the inconvenience.

Problème de conversion de page
Un problème est survenu au moment de balayer la page originale dans ce document. La page n'a donc pu être convertie en format PDF.

Nous regrettons tout inconvénient occasionné par ce problème.



TIF_JPG_Conversion_Failure_Bad_Header_MNDM111x1

409500 mE
411000 mE
412500 mE
5657000 mN
5656500 mN
5654000 mN

L-043+00E
L-050+00E
L-055+00E
L-063+00E
L-065+50E
L-068+00E
L-070+50E
L-076+00E
L-080+00E
TL-94+00N
TL-089+00N
Dean Creek

632496 Au:3200 Pt:<.5 Pd:<1
632495 Au:750 Pt:<.5 Pd:<1
632630 Au:12 Pt:<.5 Pd:<1
632456 Au:<5 Pt:— Pd:—
632460 Au:15 Pt:— Pd:—
632459 Au:<5 Pt:— Pd:—
632458 Au:10 Pt:— Pd:—
632457 Au:<5 Pt:— Pd:—
632438 Au:25 Pt:— Pd:—
632447 Au:8 Pt:33.5 Pd:190
632445 Au:1 Pt:2.5 Pd:3
632429 Au:<3 Pt:7 Pd:8
632427 Au:<1 Pt:<.5 Pd:<1
632408 Au:3 Pt:0.5 Pd:1.1
632409 Au:<1 Pt:3.5 Pd:3
632402 Au:<1 Pt:3.5 Pd:7
632401 Au:2 Pt:3.5 Pd:6
632597 Au:1 Pt:2 Pd:2
632596 Au:<1 Pt:0.5 Pd:<1
632599 Au:<1 Pt:1 Pd:1
632592 Au:<1 Pt:5.5 Pd:6
632594 Au:<1 Pt:8 Pd:9
632413 Au:2 Pt:<.5 Pd:1
632422 Au:23 Pt:0.5 Pd:<1
632423 Au:25 Pt:1.5 Pd:2
632421 Au:43 Pt:11 Pd:13
632481 Au:1 Pt:0.5 Pd:1
656433 Au:65 Pt:<.5 Pd:<1
656431 Au:1 Pt:0.5 Pd:<1
656432 Au:<1 Pt:<.5 Pd:<1
632479 Au:7 Pt:6 Pd:5
632477 Au:41 Pt:1 Pd:7
632476 Au:230 Pt:1.5 Pd:11
632475 Au:54 Pt:<.5 Pd:1
632474 Au:8 Pt:<.5 Pd:2

Legend

- s2 cleavage
- s1 cleavage
- Banding
- Bedding
- Glacial striae
- Crenulation
- Lineation
- s3 cleavage
- Inferred contact
- Fault
- Mag high
- Tertiary road
- Secondary road
- Assay sample
- XRF sample

- 8A Quartz Monzonite
- 7C Quartz Feldspar Porphyry
- 7S Alkali Feldspar Quartz Syenite
- 6 Ultramafic
- 6A Diorite
- 6C Peridotite
- 6G Glomerophyric Gabbro
- 6I Melano Gabbro
- 6M Amphibolite
- 5A Chert
- 5B Oxide Facies Iron Formation
- 5D Sulphide Facies Iron Formation
- 5M Dolomite
- 4 Clastic Sediments
- 4A Siltstone
- 3C Felsic Volcanic
- 2A Intermediate Volcanic
- 2C Intermediate Volcanic
- 2E Andesite
- 1A Mafic Volcanic
- 1C Mafic Volcanic

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Detail Map of the northwestern portion of the Trout Bay Property

Date:5/12/2001
Author: L-M.B.-L.
Office: Cochenour
Drawing: Detail Map 2
Scale: 1:5000
Projection: UTM Zone 15 (NAD 27 for Canada)

0 75 150 300
metres

52M018E2018 2.23827 TODD

230

Legend

- s2 cleavage
- Banding
- s1 cleavage
- Bedding
- Glacial striae
- Assay sample
- XRF sample
- Rivers, streams
- Tertiary road
- Secondary road
- Highway
- Property outline

- 8 Felsic - Intermediate Intrusion
- 8A Granite, Quartz Monzonite
- 8B Granodiorite, Trondhjemite
- 7S Syenite
- 6A Diorite
- 6B Pyroxenite
- 6G Gabbro
- 6H Leucogabbro
- 6M Amphibolite
- 5B Oxide Facies Iron Formation
- 4B Wacke, Arkose, Sandstone
- 2A Intermediate Volcanic, Massive
- 2C Intermediate Volcanic, Tuff
- 2P Intermediate Volcanic, Pillowed
- 1A Mafic Volcanic, Massive
- 1C Mafic Volcanic Tuff

Johnson Lake

Leitch Lake

TL-52+00N
TL-67+00N
TL-82+00N
L-140+50E
L-145+00E
L-152+50E
L-157+00E
L-163+00E
L-169+00E

413000 mE
414500 mE
416000 mE
5649500 mN
5648500 mN

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Detail Map of the southern portion of the Trout Bay property

Date:5/12/2001
Author: L.-M.B.-L.
Office: Cochenour
Drawing: Detail Map 1
Scale: 1:5000
Projection: UTM Zone 15 (NAD 27 for Canada)

0 75 150 300
metres

52M018E2018 2.23827 TODD 240

Pipestone Bay

Middle Bay

Bridget Lake

Trout Bay

Pipestone Narrows

West Narrows

414500 mE

416000 mE

417500 mE

5666500 mN

5665000 mN

5663500 mN

656443
Au:2 Pt:1 Pd:<1

656444
Au:8 Pt:0.5 Pd:<1

656438
Au:8 Pt:7 Pd:6

656439
Au:23 Pt:<.5 Pd:3

656441
Au:4 Pt:1 Pd:<1

656440
Au:1 Pt:1.5 Pd:1

656447
Au:<1 Pt:0.5 Pd:<1

656448
Au:<1 Pt:1.5 Pd:<1

656449
Au:69 Pt:1.5 Pd:3

370617
Au:1 Pt:1 Pd:<1

370615
Au:<1 Pt:<.5 Pd:<1

370618
Au:<1 Pt:6.5 Pd:1

370616
Au:<1 Pt:0.5 Pd:<1

370619
Au:<1 Pt:6.5 Pd:1

370620
Au:1 Pt:2.5 Pd:2

370605
Au:<1 Pt:<.5 Pd:<1

370604
Au:<1 Pt:<.5 Pd:<1

370602
Au:6 Pt:0.5 Pd:<1

370603
Au:<1 Pt:<.5 Pd:<1

370606
Au:2 Pt:1 Pd:<1

370601
Au:1 Pt:0.5 Pd:<1

370613
Au:<1 Pt:2.5 Pd:<1

370612
Au:<1 Pt:3 Pd:1

370607
Au:9 Pt:<.5 Pd:<1

370608
Au:2 Pt:<.5 Pd:<1

370609
Au:2 Pt:0.5 Pd:<1

370621
Au:1800 Pt:4 Pd:5

632497
Au:16 Pt:<.5 Pd:<1

632540
Au:110 Pt:2 Pd:<1

632537
Au:3600 Pt:<.5 Pd:<1

632538
Au:125 Pt:10 Pd:10

632539
Au:530 Pt:4 Pd:4

632534
Au:17 Pt:8.5 Pd:7

632470
Au:9100 Pt:2 Pd:4

632462
Au:6800 Pt:15 Pd:17

632463
Au:20 Pt:19.5 Pd:24

632464
Au:57 Pt:17.5 Pd:19

632465
Au:610 Pt:22 Pd:23

632466
Au:560 Pt:18.5 Pd:20

632467
Au:7 Pt:18.5 Pd:19

632468
Au:480 Pt:5.5 Pd:6

632469
Au:1460 Pt:23 Pd:25

632471
Au:6 Pt:<.5 Pd:1

632472
Au:185 Pt:2.5 Pd:2

632473
Au:83 Pt:2 Pd:3

656434
Au:340 Pt:11.5 Pd:14

632426
Au:<2 Pt:<.5 Pd:<1

656420
Au:2 Pt:2 Pd:1

656421
Au:17 Pt:1.5 Pd:2

656422
Au:13 Pt:<.5 Pd:<1

632508
Au:7 Pt:5.5 Pd:<1

632515
Au:1 Pt:<.5 Pd:<1

Legend

- Assay sample
- XRF sample
- Bedding
- s1 cleavage
- s2 cleavage
- Lineation
- Rivers, streams
- Property outline
- 8B Granodiorite, Trondhjemite
- 6 Ultramafic Intrusion
- 6A Diorite
- 6B Pyroxenite
- 6C Peridotite
- 6G Glomerophyric Gabbro
- 6I Melano Gabbro
- 6M Amphibolite
- 6S Serpentinite?
- 5A Chert
- 5B Oxide Facies Iron Formation
- 5C Chert-Dolomite Formation
- 5M Dolomite
- 4A Siltstone
- 4C Conglomerate
- 3C Felsic Volcanic
- 2A Intermediate Volcanic
- 2C Intermediate Volcanic
- 1A Mafic Volcanic
- 1P Mafic Volcanic

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Detail map of the Middle Bay and Pipestone Bay properties

Date:6/12/2001
Author: L.-M.B.-L.
Office: Cochenour
Drawing: Detail Map 3
Scale: 1:5000
Projection: UTM Zone 15 (NAD 27 for Canada)

0 75 150 300 metres

52M01SE2018 2.23827 TODD 250