# GM 54633

ASSESSMENT REPORT ON THE REVERSE CIRCULATION DRILLING PROGRAMS, PONTIAC RECONNAISSANCE PROPERTY

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# ASSESSMENT REPORT

# ON THE

# NOVEMBER 1995, MARCH 1996 and

# NOVEMBER 1996

# REVERSE CIRCULATION DRILLING PROGRAMS

# SUDBURY CONTACT MINES LTD.

# PONTIAC RECONNAISSANCE PROPERTY

# BABY, GUIGUES and DUHAMEL TOWNSHIPS

# ROUYN-NORANDA MINING DISTRICT


**PREPARED BY:**

**Jens T. Paterson, M.Sc., Michel Plasse, B.Sc.**
**and Raymond J. Knowles, B.Sc.**

**W.A. HUBACHECK CONSULTANTS LTD.**


**January 31, 1997**



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# SUMMARY

Sudbury Contact Mines Ltd. is involved in the regional exploration of a group of claims in Baby, Guigues and Duhamel Townships, informally referred to as their Pontiac Reconnaissance Project. The property comprises 183 claims which cover approximately 7 572.4 hectares. The current exploration is oriented towards diamond and gold.

Drilling in November 1995 and March 1996 was conducted as part of a continuing reconnaissance-level exploration program. As such, holes were placed in east-west transects in the central and northern portions of the claim group. The November 1996 drilling program was conducted to test four separate geophysical targets.

A total of 96 till samples and 1 gravel sample were obtained from 42 holes during the November 1995 drill program, followed by 64 till samples and 5 gravel samples from 30 holes during the March and April 1996 program, and 6 till samples from 4 holes during the November 1996 drill program. Results from these samples indicate a range in the number of kimberlite indicator minerals across the property, with low levels of kimberlite indicator mineral (KIM) concentrations reflecting background levels in this anomalous region, and high KIM concentrations delineating up to four dispersal trains. The November 1996 drilling failed to intersect kimberlite.

Gold grain counts were generally low across the study area, and may suggest a distal location to a gold source, with perhaps numerous, small local sources producing low level, isolated anomalies.

It is recommended that a comprehensive review of the results from all reverse circulation drilling and till pit programs is completed, and is used in conjunction with airborne and ground geophysical data to define geophysical targets suitable for test drilling. A limited RC drilling program could be conducted in order to separate the Guigues pipe as a source for some of the dispersal trains as well as to further define the shape and source direction of the current dispersal trains. A selection of the most likely targets should have ground magnetic surveys conducted and if warranted RC drill testing.

# INTRODUCTION

The Pontiac Reconnaissance Property of Sudbury Contact Mines Ltd. discussed in this report consists of a group of 183 claims, which covers approximately 7 572.4 hectares in Baby, Guigues and Duhamel Townships.

This report documents results from three reverse circulation drilling programs on the property, conducted by W.A. Hubacheck Consultants Ltd. on behalf of Sudbury Contact Mines Ltd. The first ran from November 6 to November 26, 1995, and consisted of forty-two holes which were arranged in east-west transects of up to eight holes, in order to follow up previously documented dispersal trains as part of a continuing reconnaissance-level exploration program. The second drilling program extended from March 20 to March 26 and April 1 to April 4, 1996, and consisted of thirty holes which were also arranged in short east-west transects to follow up previously documented dispersal trains. The most recent program ran from November 13 to November 15, 1996, and consisted of four holes which were drilled to test separate geophysical targets.

The coordination and implementation of the various technical tasks were conducted by W.A. Hubacheck Consultants Ltd. under the supervision of P. Hubacheck, D. Christie, R. Knowles, M. Plasse and J. Paterson.

# PROPERTY AND PROJECT AREA DESCRIPTION

The Sudbury Contact Mines Ltd. Pontiac Reconnaissance Property discussed in this report consists of a group of 183 contiguous claims covering 7 572.4 hectares in Baby, Guigues and Duhamel Townships, within the Rouyn-Noranda Mining District (Table 1):

Table 1. List of Claims

| CLAIM NUMBER | TOWNSHIP | DATE RECORDED | AREA (HECTARES) |
|---|---|---|---|
| 5009043 | Baby | 93/11/17 | 40 |
| 5009044 | Baby | 93/11/17 | 40 |
| 5009045 | Baby | 93/11/17 | 40 |
| 5009046 | Baby | 93/11/17 | 40 |
| 5009047 | Baby | 93/11/17 | 40 |
| 5009048 | Baby | 93/11/17 | 40 |
| 5009049 | Baby | 93/11/17 | 40 |
| 5009050 | Baby | 93/11/17 | 40 |
| 5009051 | Baby | 93/11/17 | 40 |
| 5009052 | Baby | 93/11/17 | 40 |
| 5009053 | Baby | 93/11/17 | 40 |
| 5009054 | Guigues | 93/11/17 | 40 |
| 5009055 | Guigues | 93/11/17 | 40 |
| 5009056 | Guigues | 93/11/17 | 40 |
| 5009057 | Guigues | 93/11/17 | 40 |
| 5009058 | Guigues | 93/11/17 | 40 |
| 5009174 | Guigues | 93/11/17 | 40 |
| 5009175 | Guigues | 93/11/17 | 40 |
| 5009176 | Guigues | 93/11/17 | 40 |
| 5009177 | Guigues | 93/11/17 | 40 |
| 5009178 | Guigues | 93/11/17 | 40 |
| 5009179 | Guigues | 93/11/17 | 40 |
| 5009180 | Guigues | 93/11/17 | 40 |
| 5009181 | Guigues | 93/11/17 | 40 |
| 5009182 | Guigues | 93/11/17 | 40 |
| 5009183 | Guigues | 93/11/17 | 40 |
| 5009185 | Guigues | 93/11/17 | 40 |
| 5009186 | Guigues | 93/11/17 | 40 |
| 5009187 | Guigues | 93/11/17 | 40 |
| 5009188 | Guigues | 93/11/17 | 40 |
| 5009189 | Guigues | 93/11/17 | 40 |
| 5009190 | Guigues | 93/11/17 | 40 |
| 5009241 | Guigues | 93/11/17 | 40 |
| 5009242 | Guigues | 93/11/17 | 40 |
| 5009243 | Guigues | 93/11/17 | 40 |
| 5009244 | Guigues | 93/11/17 | 40 |
| 5009245 | Guigues | 93/11/17 | 40 |
| 5009671 | Guigues | 93/11/17 | 40 |
| 5009672 | Guigues | 93/11/17 | 40 |
| 5009673 | Guigues | 93/11/17 | 40 |
| 5009674 | Guigues | 93/11/17 | 40 |
| 5009675 | Guigues | 93/11/17 | 40 |
| 5009676 | Guigues | 93/11/17 | 40 |

| CLAIM NUMBER | TOWNSHIP | DATE RECORDED | AREA (HECTARES) |
|---|---|---|---|
| 5009702 | Guigues | 93/11/17 | 40 |
| 5009703 | Guigues | 93/11/17 | 40 |
| 5009704 | Guigues | 93/11/17 | 62 |
| 5009705 | Duhamel | 93/11/17 | 67 |
| 5009706 | Duhamel | 93/11/17 | 40 |
| 5009707 | Duhamel | 93/11/17 | 40 |
| 5009708 | Duhamel | 93/11/17 | 40 |
| 5009714 | Guigues | 93/11/17 | 40 |
| 5009715 | Guigues | 93/11/17 | 40 |
| 5009716 | Guigues | 93/11/17 | 40 |
| 5009717 | Guigues | 93/11/17 | 40 |
| 5009718 | Guigues | 93/11/17 | 40 |
| 5009719 | Guigues | 93/11/17 | 40 |
| 5009720 | Guigues | 93/11/17 | 40 |
| 5009721 | Guigues | 93/11/17 | 40 |
| 5009722 | Guigues | 93/11/17 | 40 |
| 5009723 | Guigues | 93/11/17 | 40 |
| 5009724 | Guigues | 93/11/17 | 40 |
| 5009725 | Guigues | 93/11/17 | 40 |
| 5009726 | Guigues | 93/11/17 | 40 |
| 5009727 | Guigues | 93/11/17 | 40 |
| 5009728 | Guigues | 93/11/17 | 40 |
| 5009729 | Guigues | 93/11/17 | 40 |
| 5009730 | Guigues | 93/11/17 | 66 |
| 5009731 | Duhamel | 93/11/17 | 66 |
| 5009732 | Duhamel | 93/11/17 | 40 |
| 5009733 | Duhamel | 93/11/17 | 40 |
| 5009735 | Guigues | 93/11/17 | 40 |
| 5009867 | Baby | 93/11/17 | 40 |
| 5009869 | Baby | 93/11/17 | 90 |
| 5009870 | Baby | 93/11/17 | 120 |
| 5116521 | Guigues | 93/11/17 | 40 |
| 5116523 | Guigues | 93/11/17 | 40 |
| 5116524 | Guigues | 93/11/17 | 40 |
| 5116525 | Guigues | 93/11/17 | 40 |
| 5116526 | Guigues | 93/11/17 | 40 |
| 5117055 | Guigues | 93/11/17 | 40 |
| 5117057 | Guigues | 93/11/17 | 40 |
| 5117058 | Guigues | 93/11/17 | 40 |
| 5117115 | Guigues | 93/11/17 | 40 |
| 5120746 | Guigues | 94/03/10 | 40 |
| 5134377 | Guigues | 95/10/13 | 40 |
| 5134378 | Guigues | 95/10/13 | 40 |
| 5134379 | Guigues | 95/10/13 | 40 |
| 5134380 | Guigues | 95/10/13 | 40 |
| 5141801 | Guigues | 95/06/05 | 40 |
| 5142741 | Guigues | 95/06/05 | 40 |
| 5142742 | Guigues | 95/06/05 | 40 |
| 5142743 | Guigues | 95/06/05 | 40 |
| 5142744 | Guigues | 95/06/05 | 40 |
| 5142745 | Guigues | 95/06/05 | 40 |
| 5142746 | Guigues | 95/06/05 | 40 |
| 5142747 | Guigues | 95/06/05 | 40 |
| 5142748 | Guigues | 95/06/05 | 40 |

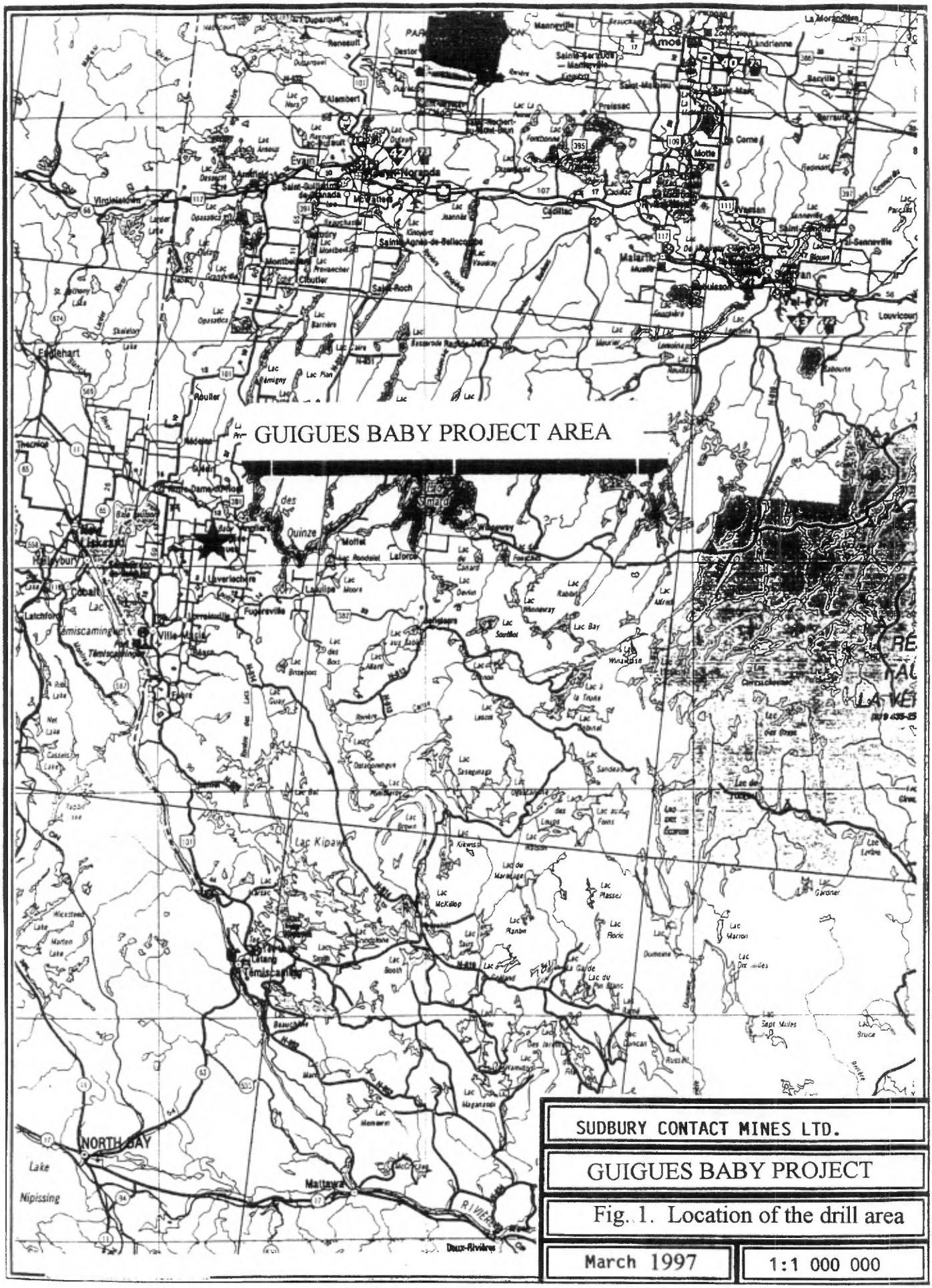
| CLAIM NUMBER | TOWNSHIP | DATE RECORDED | AREA (HECTARES) |
|---|---|---|---|
| 5142749 | Guigues | 95/06/05 | 40 |
| 5142752 | Guigues | 95/06/05 | 40 |
| 5142753 | Guigues | 95/06/05 | 40 |
| 5142754 | Guigues | 95/06/05 | 40 |
| 5142755 | Guigues | 95/06/05 | 40 |
| 5142756 | Guigues | 95/06/05 | 40 |
| 5142757 | Guigues | 95/06/05 | 40 |
| 5142758 | Guigues | 95/06/05 | 40 |
| 5142760 | Guigues | 95/06/05 | 40 |
| 5142761 | Guigues | 95/06/05 | 40 |
| 5142762 | Guigues | 95/06/05 | 40 |
| 5142763 | Guigues | 95/06/05 | 40 |
| 5142764 | Guigues | 95/06/05 | 40 |
| 5142765 | Guigues | 95/06/05 | 40 |
| 5142766 | Guigues | 95/06/05 | 40 |
| 5142767 | Guigues | 95/06/05 | 40 |
| 5142768 | Guigues | 95/06/05 | 40 |
| 5142769 | Guigues | 95/06/05 | 40 |
| 5142770 | Guigues | 95/06/05 | 40 |
| 5142771 | Guigues | 95/06/05 | 40 |
| 5142772 | Guigues | 95/06/05 | 40 |
| 5142773 | Guigues | 95/06/05 | 40 |
| 5142774 | Guigues | 95/06/05 | 40 |
| 5142775 | Guigues | 95/06/05 | 40 |
| 5142776 | Guigues | 95/06/05 | 40 |
| 5142777 | Guigues | 95/06/05 | 40 |
| 5142778 | Guigues | 95/06/05 | 40 |
| 5142779 | Guigues | 95/06/05 | 40 |
| 5142780 | Guigues | 95/06/05 | 40 |
| 5152979 | Guigues | 95/10/13 | 40 |
| 5152980 | Guigues | 95/10/13 | 40 |
| 5152981 | Guigues | 95/10/13 | 40 |
| 5152982 | Guigues | 95/10/13 | 40 |
| 5152983 | Guigues | 95/10/13 | 40 |
| 5153124 | Guigues | 95/10/13 | 40 |
| 5153125 | Guigues | 95/10/13 | 40 |
| 5153126 | Guigues | 95/10/13 | 40 |
| 5153127 | Guigues | 95/10/13 | 40 |
| 5153128 | Guigues | 95/10/13 | 40 |
| 5153129 | Guigues | 95/10/13 | 40 |
| 5153130 | Guigues | 95/10/13 | 40 |
| 5153131 | Guigues | 95/10/13 | 40 |
| 5153132 | Guigues | 95/10/13 | 40 |
| 5153133 | Guigues | 95/10/13 | 40 |
| 5153134 | Guigues | 95/10/13 | 40 |
| 5153135 | Guigues | 95/10/13 | 40 |
| 5153136 | Guigues | 95/10/13 | 40 |
| 5153137 | Guigues | 95/10/13 | 40 |
| 5153138 | Guigues | 95/10/13 | 40 |
| 5153139 | Guigues | 95/10/13 | 40 |
| 5153140 | Guigues | 95/10/13 | 40 |
| 5157613 | Baby | 96/02/02 | 40 |
| 5157614 | Baby | 96/02/02 | 40 |
| 5157615 | Baby | 96/02/02 | 40 |

| CLAIM NUMBER | TOWNSHIP | DATE RECORDED | AREA (HECTARES) |
|---|---|---|---|
| 5157616 | Baby | 96/02/02 | 40 |
| 5157617 | Baby | 96/02/02 | 40 |
| 5157618 | Baby | 96/02/02 | 40 |
| 5157619 | Baby | 96/02/02 | 40 |
| 5157620 | Baby | 96/02/02 | 40 |
| 5157621 | Baby | 96/02/02 | 40 |
| 5157622 | Guigues | 96/02/02 | 45 |
| 5157623 | Guigues | 96/02/02 | 45 |
| 5158873 | Guigues | 96/04/02 | 44.8 |
| 5158874 | Guigues | 96/04/02 | 44.8 |
| 5158875 | Guigues | 96/04/02 | 44.8 |
| 5158934 | Guigues | 96/01/26 | 39 |
| 5158935 | Guigues | 96/01/26 | 39 |
| 5158936 | Guigues | 96/01/26 | 39 |
| 5158938 | Guigues | 96/06/20 | 40 |
| 5158939 | Guigues | 96/06/20 | 40 |
| 5159024 | Guigues | 96/05/17 | 40 |
| 5159025 | Guigues | 96/05/17 | 40 |
| 5159026 | Guigues | 96/05/17 | 40 |
| 5169654 | Guigues | 96/11/25 | 40 |
| 5169655 | Guigues | 96/11/25 | 40 |
| 5169656 | Guigues | 96/11/25 | 40 |
| 5169657 | Guigues | 96/11/25 | 40 |
| 5169658 | Guigues | 96/11/25 | 40 |
| 5169791 | Guigues | 96/11/25 | 40 |
| 5169793 | Guigues | 96/11/25 | 40 |
| 5169794 | Guigues | 96/11/25 | 40 |
| 5169795 | Guigues | 96/11/25 | 40 |
| 5169796 | Guigues | 96/11/25 | 40 |
| 5169797 | Guigues | 96/11/25 | 40 |
| 5169798 | Guigues | 96/11/25 | 40 |
| 5169799 | Guigues | 96/11/25 | 40 |

**Total: 183 claims** **7 572.4 hectares**

## LOCATION AND ACCESS

The Sudbury Contact Mines Ltd. property is located in the Lac Témiscamingue area southeast of Notre Dame du Nord and northeast of Ville Marie. The claim group covers much of southeastern and east-central Guigues Township, a small portion of west-central Baby Township and extends into northeastern Duhamel Township (Fig. 1 and Fig. 2, in back pocket). Ready access to the claims is via Highways 101, 382 and 392, their connectors, and numerous lot and range roads.




W.A. HUBACHECK CONSULTANTS LTD.

## LOGISTICS

| | |
|---|---|
| Technical Consultants: | W.A. Hubacheck Consultants Ltd.<br>141 Adelaide St. W., Suite 1401<br>Toronto, Ontario<br>M5H 3L5 |
| Reverse Circulation Drilling | Heath and Sherwood Drilling (1986) Ltd.<br>Kirkland Lake, Ontario |
| Mineral Processing: | Overburden Drilling Management Ltd.<br>Nepean, Ontario |
| Geochemical Processing: | Activation Laboratories Ltd.<br>Ancaster, Ontario |
| Senior Geologist: | Peter C. Hubacheck, P. Geol.<br>2401 Pyramid Cres.<br>Mississauga, Ontario<br>L5K 1E1 |
| Project Geologist: | David W. Christie, B.Sc.<br>104 Douglas Ave<br>Toronto, Ontario<br>M5M 1G6 |
| Contract Project Geologist: | Raymond J. Knowles, B.Sc.<br>79-13th St<br>Etobicoke, Ontario<br>M8V 3H5 |

| | | |
|---|---|---|
| Contract Geologists: | (1995)<br>Michel Plasse, B.Sc.<br>2918, rue Des Voiliers<br>Rouyn-Noranda, Quebec<br>J9X 5A3 | (1996)<br>Jens Paterson, M.Sc.<br>6 Hampstead Place<br>St. Catharines, Ontario<br>L2R 6P5 |
| Samplers: | Larry Robidoux<br>Larder Lake, Ontario | Gord Hume<br>Larder Lake, Ontario |

## REGIONAL GEOLOGY

The property is underlain by rocks of various lithologies which range in age from Archean, Proterozoic to Paleozoic. In Baby and eastern Guigues Townships, an Archean volcanic suite of lithologies includes mafic pillowed and subvolcanic flows, intermediate volcaniclastic sediments, and distal flows and related chemical sediments. These are commonly intruded by intermediate to mafic dykes and bodies. The mafic volcanic rocks are locally sheared and associated with alteration minerals, including magnetite. On regional magnetic maps, these Archean rocks are represented by east-west trending magnetic highs and lows.

The northern portion of Baby Township is dominantly underlain by metasedimentary rocks of the Pontiac Group. Micaceous schists are the primary lithology, and are represented by a relatively uniform response on regional magnetic maps. This area was intruded by a Late Archean granitic to granodioritic pluton which is seenn as circular magnetic high on regional magnetic surveys.

The northeastern portion of Duhamel Township and the southeastern portion of Baby Township is primarily underlain by an altered granodioritic complex composed of granitic to dioritic phases. It is characterized by a porphyritic texture, blue quartz "eyes" and disseminated pyrite. On regional magnetic maps these rocks have a variable signature.

The central and west portions of Baby Township are underlain by Proterozoic Huronian-aged sandstone, arkose, greywacke and siltstone. An outlier of Paleozoic limestone overlies the Huronian sediments southeast of St. Bruno de Guigues. The magnetic signature of these rocks is similar to that of the late intermediate intrusive rocks previously described.

## REGIONAL QUATERNARY GEOLOGY

The basal till in the area is correlated with the Matheson Till, which was deposited during the Late Wisconsinan Substage. A regional southward ice flow direction was developed during glaciation maximum, but is not documented very strongly in the area east of Lake Timiskaming. Instead, southeasterly (130° - 170°; rarely trending 90°) ice flow indicators dominate this area (Veillette, 1988; Veillette and McClenaghan, 1996), and were produced during deglaciation when the Laverlochere Moraine was deposited by a small ice lobe centred on the Upper Lake Timiskaming valley (Veillette, 1983). East of the Laverlochere Moraine, south-southwestward ice flow directions indicators are evident (Veillette, 1988).

Directly following the retreat of the Late Wisconsinan ice, Glacial Lake Barlow occupied the upper Lake Timiskaming basin by approximately 10 ka BP (Veillette, 1983, 1994). At this time water levels were controlled by a narrow bedrock gorge of the Ottawa River known as the Rankin Constriction, located 5 kilometres east of Mattawa (Veillette, 1994). Continued flooding of the isostatically depressed Timiskaming basin occurred during deglaciation, until isostatic recovery caused water levels to recede. The Late Témiscamingue phase of Lake Barlow occupied the Timiskaming basin at levels just above the present day lake levels from 9 ka to 8.2 ka BP (Veillette, 1994).

As a result, glaciolacustrine sediments drape the irregular surface of the underlying till and ice-contact units, and produces a relatively flat-lying to gently rolling topography. The thickness of overburden is variable, ranging from 5 to 20 metres thick in areas adjacent to bedrock-dominated terrain, up to 50 metres. The stratigraphy of the overburden normally consists of up to several metres of basal till, overlain by a thick glaciolacustrine unit which fines upwards from sand, to rhythmically laminated silt and clay, to massive silt at the surface. Lower areas, local depressions and paleovalleys are normally filled by a similar, but thicker stratigraphy.

An extensive moraine system (Laverlochere Moraine?) trends northwest-southeast across northern Guigues Township in numerous parallel segments. One segment trends southeast from the north shore of Baie Paulson on Lac Témiscamingue for over 6 kilometres, a second segment trends south-southeast from the central portion of Baie Paulson at Highway 101 for 4 kilometres, and a third segment trends southeast from Highway 391 to the north shore of Lac Baby. These moraines consist of thick deposits of poorly to well sorted stratified sand and gravel.

An esker system trends southwards along the west shore of Lac Baby, where it becomes partially buried, but continues towards Laverlochere, and finally trends south-southwest towards Lorrainville.

# REVERSE CIRCULATION DRILLING METHODOLOGY

The purpose of sampling specific types of glacigenic sediments is to obtain a geochemical signature of subcropping ore bodies which have been eroded by glacial action and distributed in a "dispersal train" down-ice of the ore body. Reverse-circulation drilling permits a cost-effective method of sampling these sediments (Figs 4 and 5).

Glacial action has reduced much of the material to sand and silt size, and it is grains of this size fraction which are examined in a laboratory for gold, sulphide minerals and other minerals indicative of potentially economic deposits (Fig. 6). Coarser material (gravel and boulder chips) can be examined and described at the drill by a geologist.

Case histories, Quaternary geological studies, and examination of the local glacial record provide a data base which can be used to interpret the mineralogical results from a reverse circulation drilling program.

The most important material to sample during a reverse circulation program is commonly termed till. Till is poorly sorted debris which is normally transported directly down-ice from its point of entrainment, remaining at or near the base of the glacier until it is deposited (smeared) along bedrock surfaces, filling depressions and valleys. Basal till is found lying directly on bedrock. Minerals found in this material can normally be traced by their relative abundance and morphology directly back up-ice to their source.

Till can also be reworked or redeposited by water and a number of other mechanisms, including rafted ice flows, and caused to move along paleoslopes, causing misinterpretations. Therefore, a large database is necessary for defining patterns based on numerous data points rather than isolated anomalous values.

Samples of till and gravel were taken, and sent to Overburden Drilling Management Ltd. for processing to recover sand and silt size gold grains and kimberlite indicator minerals. A clay-silt size fraction split (-63 micron) and the heavy mineral concentrate (HMC) were then sent to Activation Laboratories Ltd. for multi-element analysis using ICP and/or INAA to obtain a geochemical signature and to determine the fine fraction and HMC content of desired elements.

In addition to glacial material, chips of bedrock are obtained at each drill hole, making this a valuable mapping/prospecting tool in areas of poor bedrock exposure.

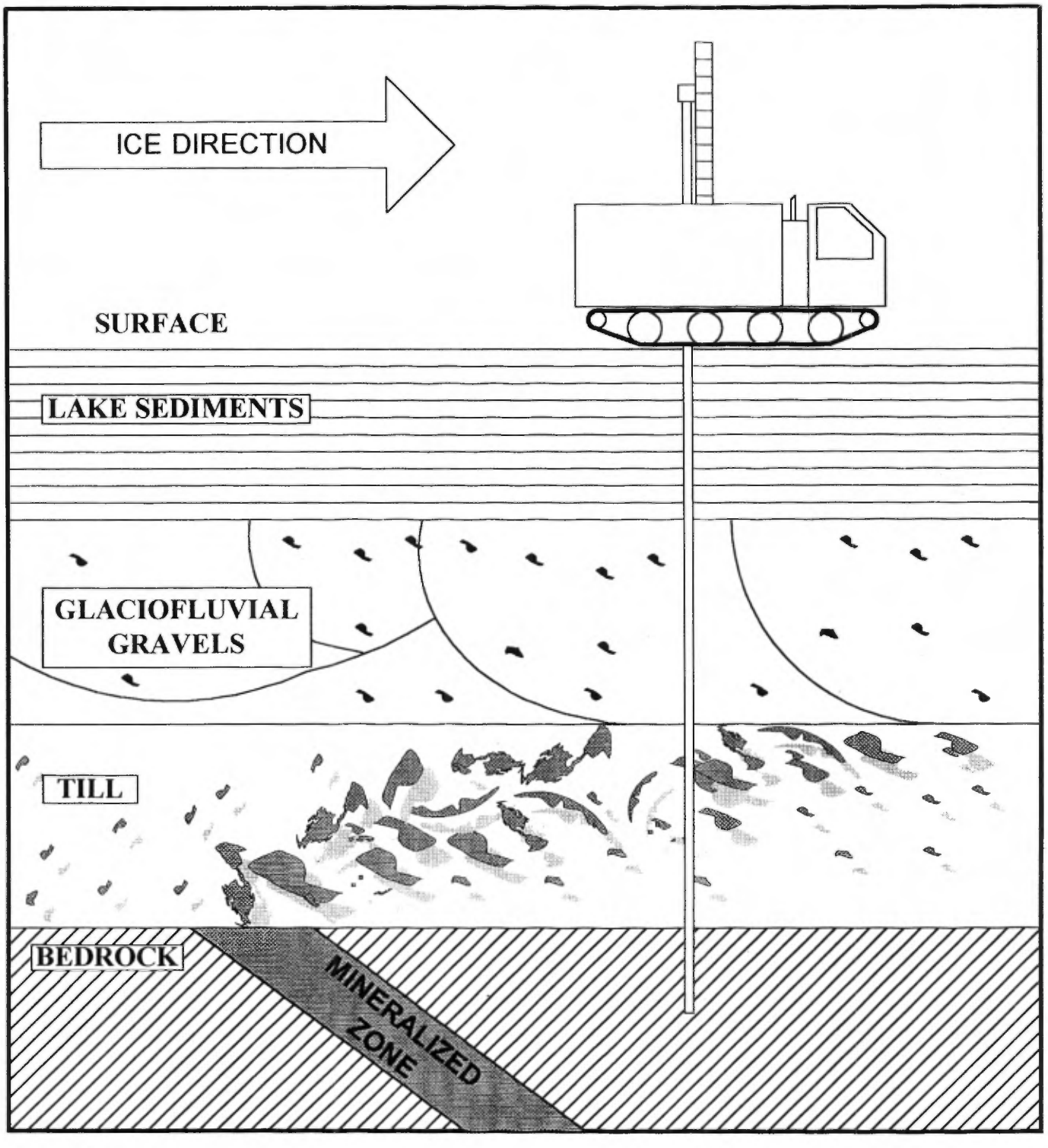
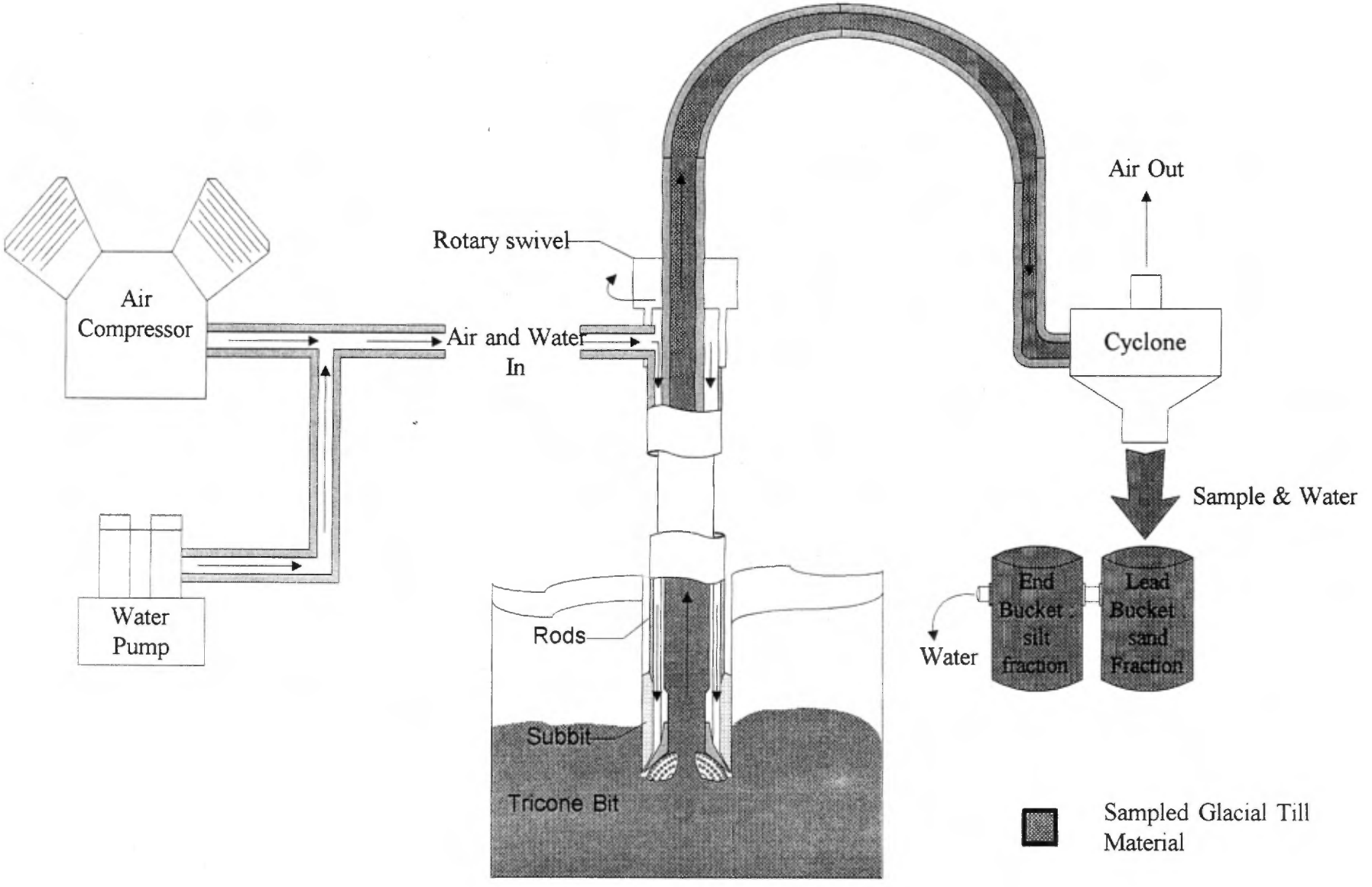
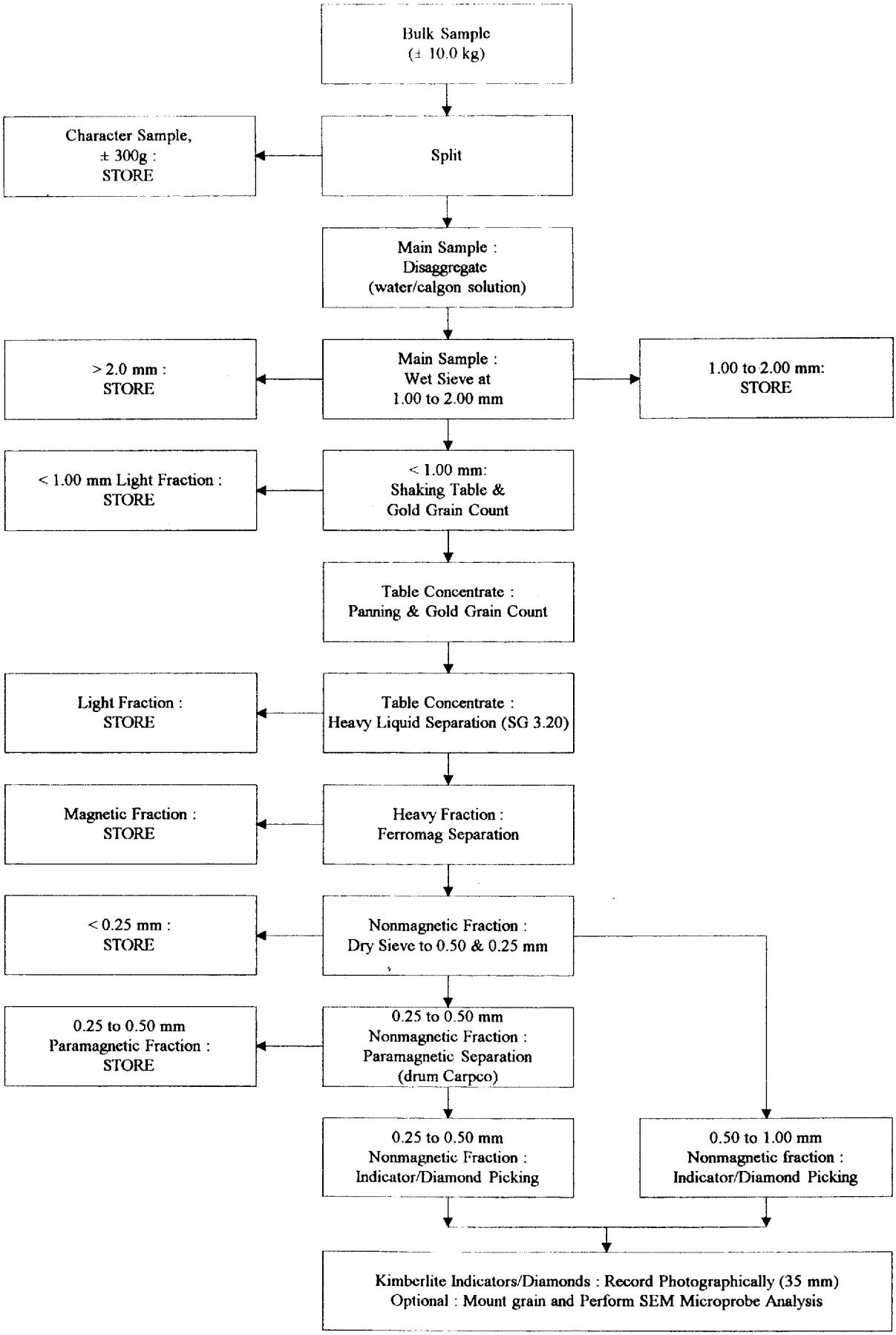



**FIGURE 4** Idealized conceptual model illustrating the use of basal till as a prospecting medium in glacial terrain, using reverse circulation drilling as a sampling technique.

FIGURE 5 SCHEMATIC OF RC DRILLING METHOD



# FIGURE 6 FLOW SHEET UNWEATHERED TILL



## REVERSE CIRCULATION DRILLING RESULTS

### DRILL HOLE STRATIGRAPHY

The sediment stratigraphy is consistent across the property as demonstrated by the lateral continuity of the glacigenic units (Fig. 7a-p, sections include PRQ holes from earlier drilling, Knowles, 1995). Most of the drill holes terminated in mafic volcanic rocks. The remainder of the holes terminated in diorite/gabbro (GB-95-1, 3, 4, 7, 8, 42), felsic to intermediate intrusive rock (GB-96-23, 24, 29), metasedimentary rock (GB-95-38, 39), felsic volcanic rock (GB-95-25) and limestone (GB-95-40, GB-96-25 to 28). A sandy basal till unit up to 5.1 m thick normally overlies bedrock; however, in areas underlain by limestone, a silty clay till was intersected (e.g., GB-96-25). Overlying the till is a fining-upwards glaciolacustrine package which graded from a basal unit of sand up to 38.3 m thick to a rhythmically laminated silt and clay unit up to 42.2 m thick, and a massive clay unit up to 3.3 m thick at the top of some holes. A surficial unit of sand was also intersected in some holes (e.g., Fig. GB-95-7). A detailed documentation of the stratigraphy is given in the individual drill logs in Appendix B.

There are notable exceptions to this general stratigraphy. Holes drilled into buried paleochannel systems (e.g., along the Loutre Rivière valley) are comprised of a thicker glacigenic sediment stratigraphy, which often exhibits a thicker basal till unit (e.g., GB-96-6, Fig. 7b; GB-95-35, Fig. 7c). In hole GB-96-23 (Fig. 7g), part of the thicker till unit was comprised of a clayey silt till which was encountered below the sandy till, and may represent a pre-Matheson ice advance. Other holes along this buried paleochannel were drilled into stratified ice-contact deposits (GB-96-29, 30; Fig. 7f) and are comprised of a thick unit of sand and gravel.

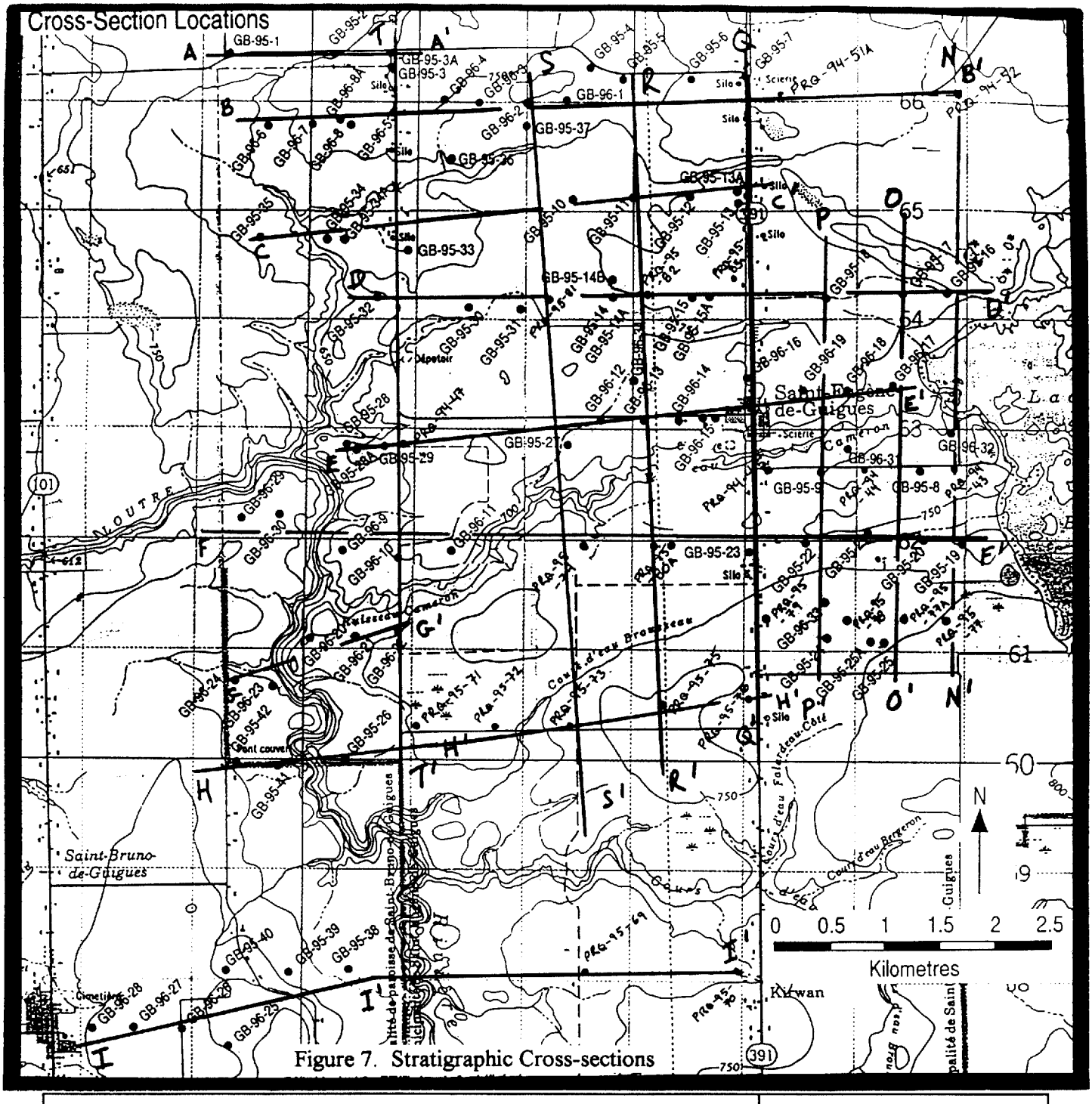
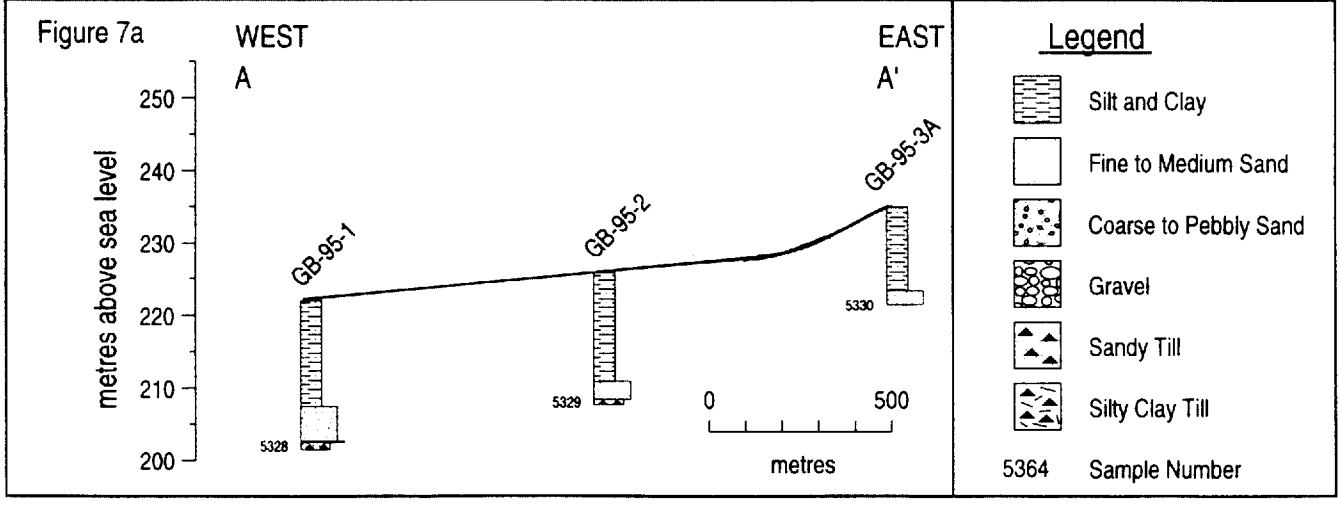



Figure 7. Stratigraphic Cross-sections

Figure 7a



# Microfilm

**PAGE DE DIMENSION HORS STANDARD**

**MICROFILMÉE SUR 35 MM ET**

**POSITIONNÉE À LA SUITE DES**

**PRÉSENTES PAGES STANDARDS**

# Numérique

**PAGE DE DIMENSION HORS STANDARD**

**NUMÉRISÉE ET POSITIONNÉE À LA**

**SUITE DES PRÉSENTES PAGES STANDARDS**

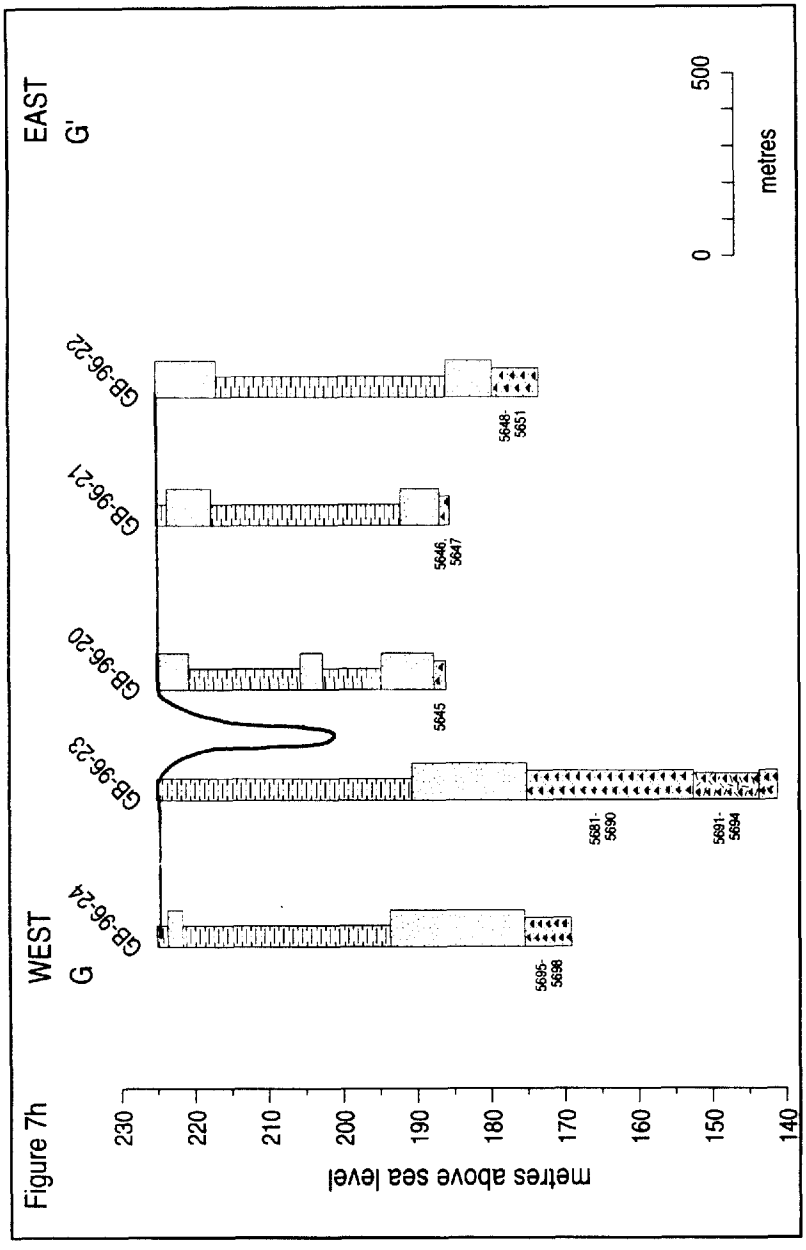


Figure 7h
WEST
G
EAST
G'
GB-96-24
GB-96-23
GB-96-20
GB-96-21
GB-96-22
5695-5698
5681-5690
5691-5694
5645
5646, 5647
5648-5651
metres above sea level
230
220
210
200
190
180
170
160
150
140
0
500
metres

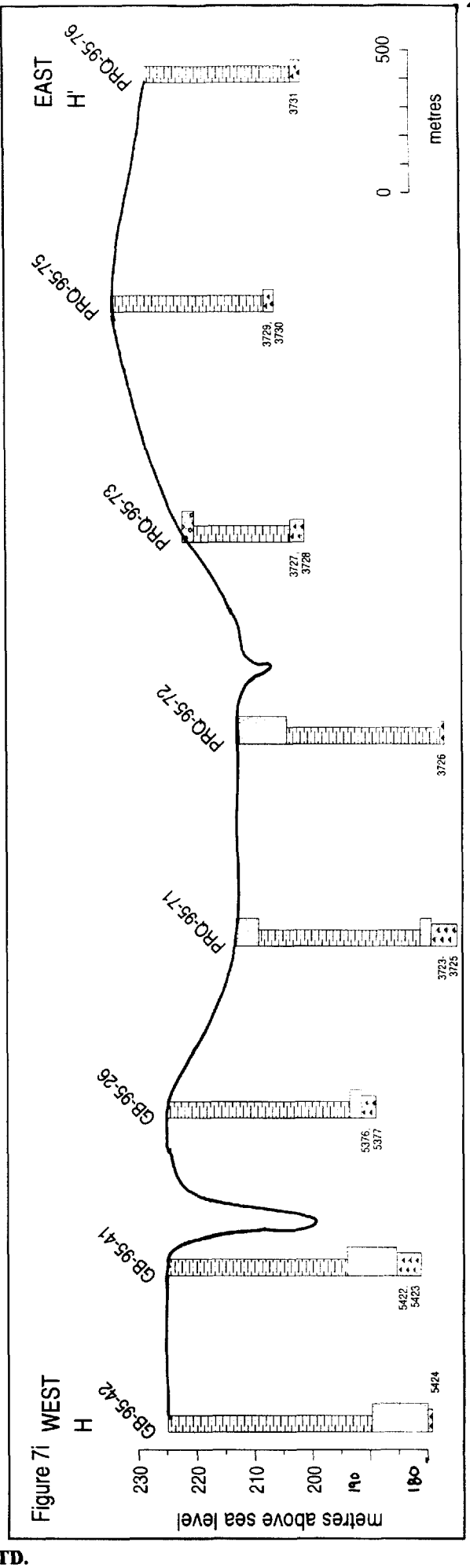


Figure 7i
WEST
H
EAST
H'
GB-95-42
GB-95-41
GB-95-26
PRO-95-71
PRO-95-72
PRO-95-73
PRO-95-75
PRO-95-76
5424
5422, 5423
5376, 5377
3723-3725
3726
3727, 3728
3729, 3730
3731
metres above sea level
230
220
210
200
190
180
0
500
metres

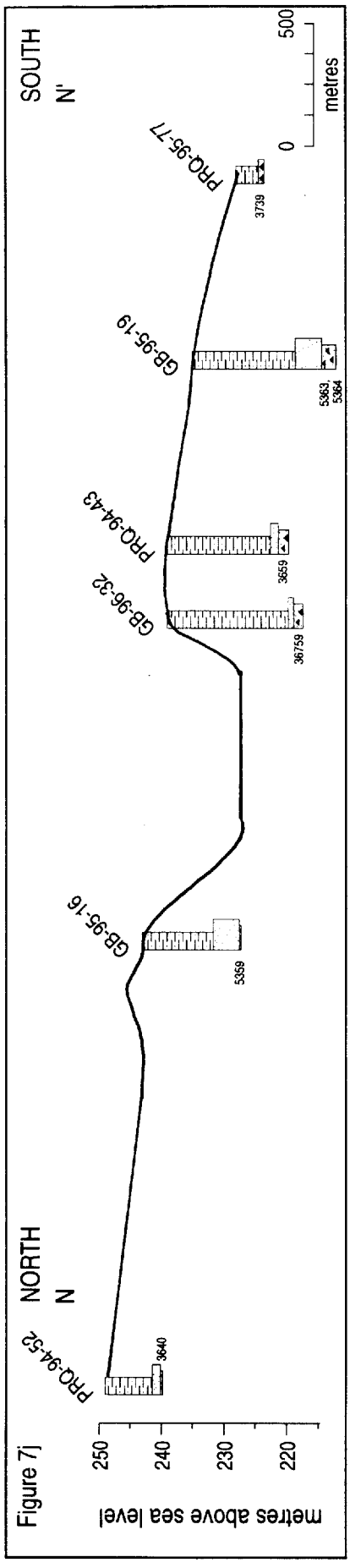



Figure 7j

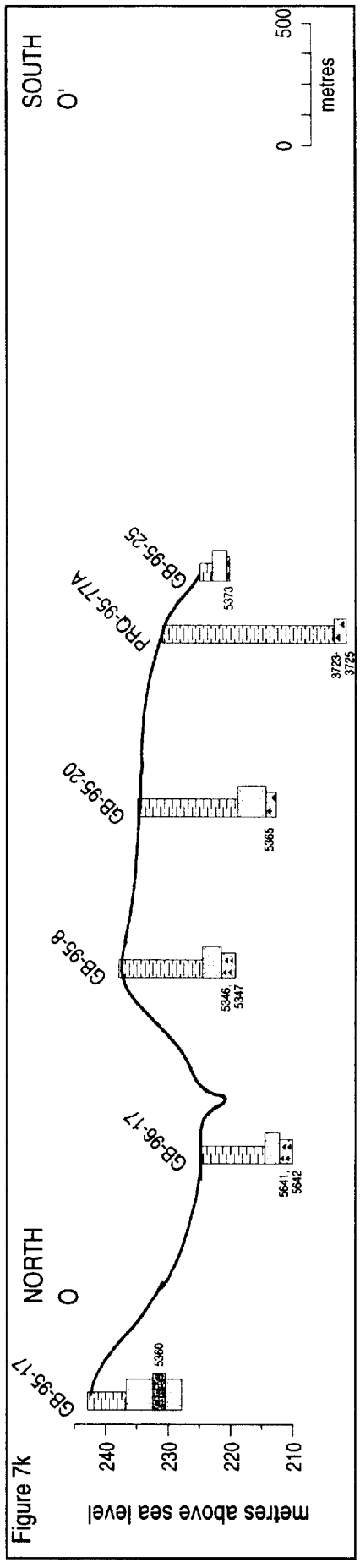



Figure 7k

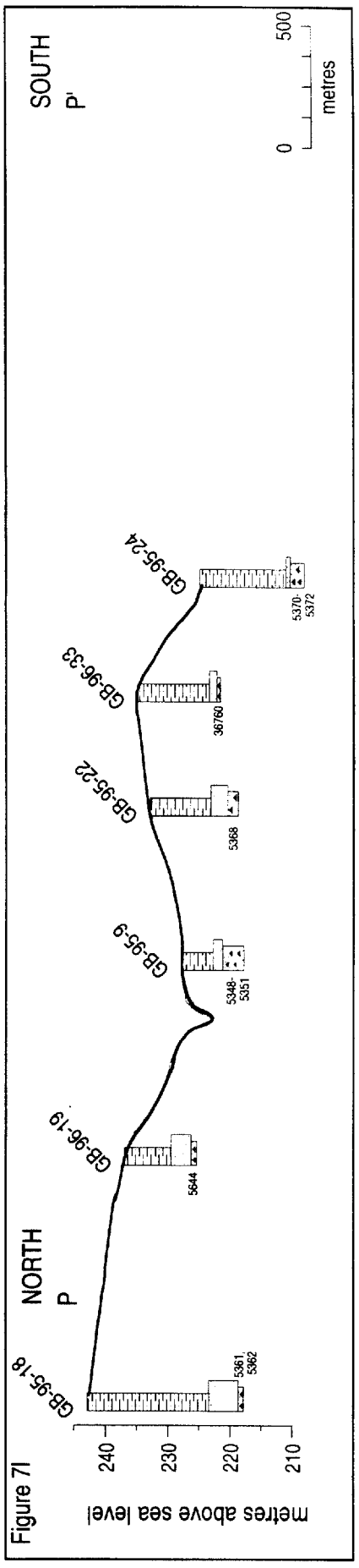



Figure 7l

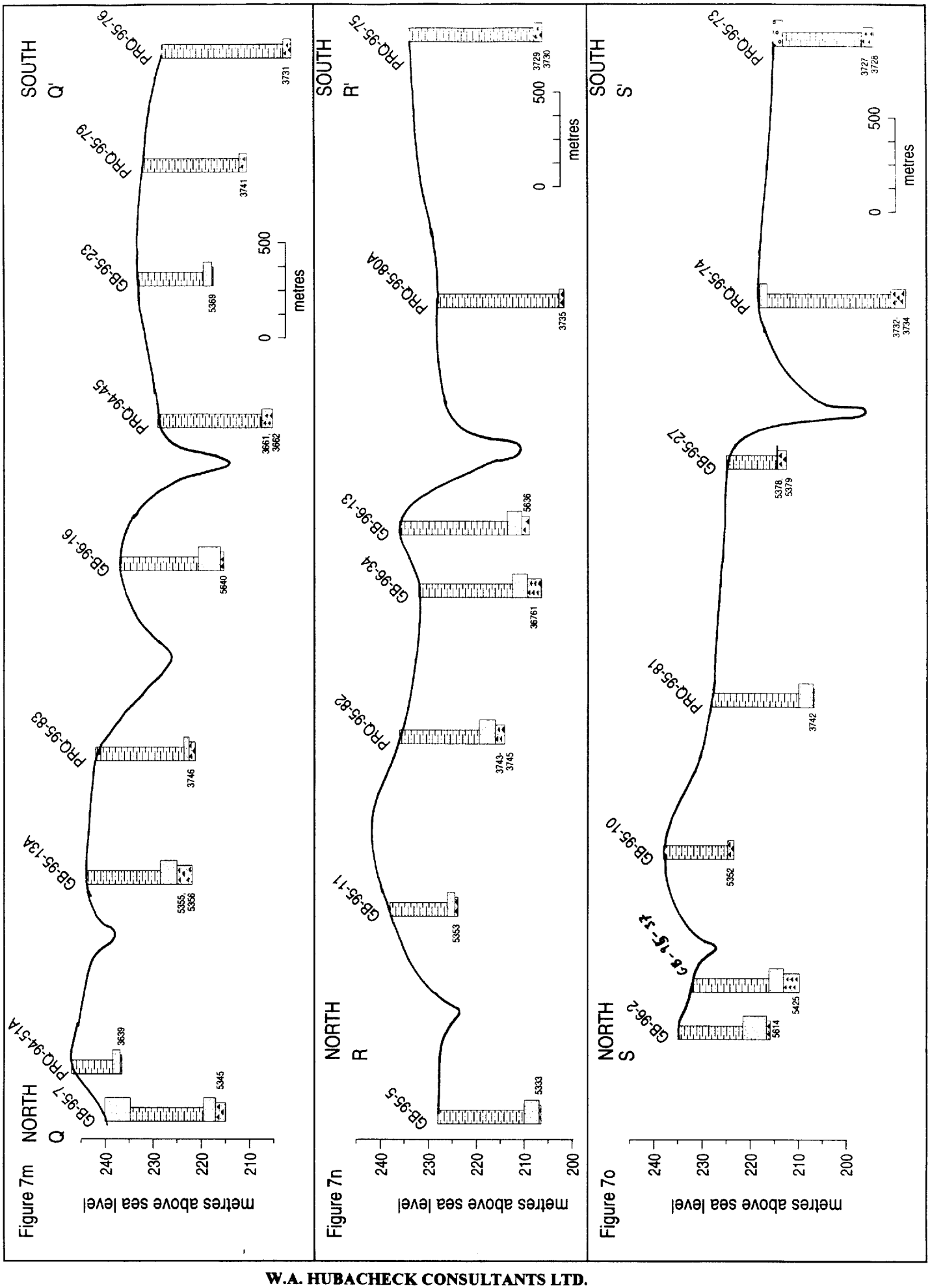


Figure 7m
NORTH
Q
SOUTH
Q'
PRO-94-51A
GB-95-7
GB-95-13A
PRO-95-83
GB-96-16
PRO-94-45
GB-95-23
PRO-95-79
PRO-95-76
3639
5345
5355,
5356
3746
5640
3661,
3662
5369
3741
3731
0
500
metres
metres above sea level
240
230
220
210
Figure 7n
NORTH
R
SOUTH
R'
GB-95-5
GB-95-11
PRO-95-82
GB-96-34
GB-96-13
PRO-95-80A
PRO-95-75
5333
5353
3743-
3745
36761
5636
3735
3729
3730
0
500
metres
metres above sea level
240
230
220
210
200
Figure 7o
NORTH
S
SOUTH
S'
GB-96-2
GB-95-10
PRO-95-81
GB-95-27
PRO-95-74
PRO-95-73
5614
5425
5352
3742
5378
5379
3732
3734
3727
3728
0
500
metres
metres above sea level
240
230
220
210
200

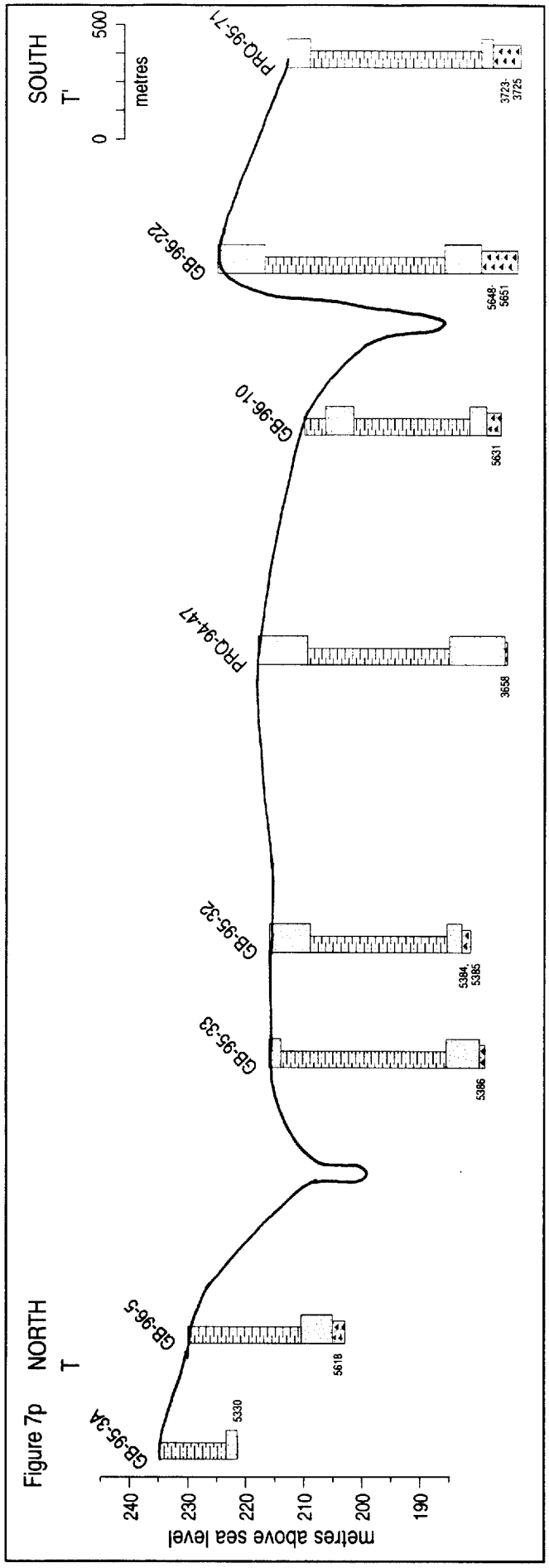

SOUTH
T'
0
500
metres
PRO-95-71
3723-
3725
GB-96-22
5648-
5651
GB-96-10
5631
PRO-94-47
3658
GB-95-32
5384-
5385
GB-95-33
5386
GB-96-5
5618
GB-95-34
5330
NORTH
T
240
230
220
210
200
190
metres above sea level

Figure 7p

## SAMPLING RESULTS

In general, only material interpreted to be till or esker (proximal, ice-contact) gravel was sampled during these program s. A brief summary of the sample results is given in Table 2 (November, 1995), Table 3 (March, 1996) and Table 4 (November, 1996). A detailed discussion of the November, 1996 drilling results is also given ( GB-96-31 to 34). Material weights and grain counts indicate the amount of sample processed and subsequent recovery of gold and kimberlite indicator mineral grains. To allow for easy comparison, the data was normalized to provide the average count of total kimberlite indicator minerals (KIMs) in all samples per hole per kilogram of processed sample (table feed weight); **(KIM's/kg)**. Also presented are the total and normalized counts of pyrope, chrome diopside and ilmenite grains per hole. Individual sample results are found in Appendix C.

GB-96-31

A 2.9 m thickness of till overlies 2 m of intersected mafic volcanic bedrock, and underlies 3.3 m of glaciolacustrine sand, and 22.5 m of glaciolacustrine silt and clay. A total of 3 pristine, 8 modified and 14 reshaped gold grains were recovered from 3 samples (27.55 kg of table feed). A total of 1239 pyrope, 1 chrome diopside and 206 ilmenite grains were recovered **(83.23 KIM's/kg)**. This is a strong response, and suggests this hole is located in the proximal zone of a kimberlite indicator mineral dispersal train.

GB-96-32

A 1.5 m thickness of till overlies 2 m of intersected mafic volcanic bedrock, and underlies 0.9 m of glaciolacustrine sand, and 19.3 m of glaciolacustrine silt and clay. Six reshaped gold grains were recovered from 1 sample (7.25 kg of table feed). A total of 211 pyrope and 307 ilmenite grains were recovered **(72.97 KIM's/kg)**. This is a strong response and suggests this hole is located in the proximal zone of a kimberlite indicator mineral dispersal train.

GB-96-33

A 0.5 m thickness of till overlies 2 m of intersected mafic volcanic bedrock, and underlies 1.3 m of glaciolacustrine sand, and 11.5 m of glaciolacustrine silt and clay. Two reshaped gold grains were recovered from 1 sample (6.2 kg of table feed). A total of 300 pyrope, 1 chrome diopside and 230 ilmenite grains were recovered **(90.32 KIM's/kg)**. This is a strong response and suggests this hole is located in the proximal zone of a kimberlite indicator mineral dispersal train.

GB-96-34

A 2.8 m thickness of till overlies 2 m of intersected mafic volcanic bedrock, and underlies 3.2 m of glaciolacustrine sand and 19.5 m of glaciolacustrine silt and clay. No gold grains were recovered from 1 sample (8.25 kg of table feed). A total of 77 pyrope and 35 ilmenite grains were recovered **(14.42 KIM's/kg)**. This is a moderate response and suggests this hole is located in the medial zone of a kimberlite indicator mineral dispersal train.

The results from the November 1995 and March 1996 programs indicate the kimberlite indicator mineral concentrations are extremely variable across the study area, ranging from **0** to **1287 KIM's/kg** (GB-96-3). Sixteen holes have greater than **50 KIM's/kg**, suggesting a location within a proximal zone of a kimberlite indicator mineral dispersal train or trains. Another 25 holes averaged **10** to **50 KIM's/kg**, suggesting a location within a medial to proximal zone of a kimberlite indicator mineral dispersal train. These clusters suggest that there are at least two or more dispersal trains across the study area; two or three are located just west of Lac Baby, and one which seems to originate near the north-central portion of the study area, just north of regional road 391, and displays both a older NE to SW trend and a younger NW to SE trend. An additional trend is observed in the area where La Rivière de Loutre runs south to north before it bends to the west. Some of the anomalous till can be attributed to input from the Guigues pipe, however, the numbers and trends identified from work to date indicate that two or more other sources are present in the study area. These are yet to be identified due to the noisy nature of the background magnetic signature of the rocks in the area.

The November 1996 drilling was primarily intended to test some more obvious magnetic targets that existed as possible explanations for the highly anomalous till trends. All four holes failed to intersect kimberlite. They did add to the data base and help define anomalous trends.

Gold grain counts were generally low across the study area. A maximum of 63 grains (3 pristine) were recovered from a single hole (GB-95-6; 11 samples). The low values with small peaks suggests a distal location to a gold source, and/or perhaps numerous small, local sources.

**TABLE 2. SUMMARY OF RESULTS FROM THE NOVEMBER 1995 REVERSE CIRCULATION DRILLING PROGRAM**

| Hole # | Sample Material | Depth (m) | No. of Samples | Total Table Weight (kg) | Total KIM's | Total KIM's/kg | Total Pyropes | Pyropes per kg | Total Cr-diop. | Cr-diopside per kg | Total Ilmenite | Ilmenites per kg | Total Au Grains | Total Prist. Au Grains | Total Mod. Au Grains | Total Reshpd. Au Grains |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GB-95-01 | Till | 19.5-20.6 | 1 | 3.95 | 3 | 0.76 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 5 | 2 | 0 | 3 |
| GB-95-02 | Till | 17.5-18.2 | 1 | 9.15 | 90 | 9.84 | 80 | 8.74 | 5 | 0.55 | 3 | 0.33 | 11 | 2 | 4 | 5 |
| GB-95-03A | Till | 13.5-13.6 | 1 | 12.20 | 36 | 2.95 | 32 | 2.62 | 2 | 0.16 | 2 | 0.16 | 16 | 1 | 4 | 11 |
| GB-95-04 | Till | 30.7-33 | 2 | 23.80 | 232 | 9.75 | 160 | 6.72 | 4 | 0.17 | 59 | 2.48 | 21 | 0 | 10 | 11 |
| GB-95-05 | Till | 21.1-21.4 | 1 | 11.50 | 136 | 11.83 | 83 | 7.22 | 4 | 0.35 | 45 | 3.91 | 7 | 1 | 0 | 6 |
| GB-95-06 | Till | 21.8-25.7 | 11 | 121.00 | 2419 | 19.99 | 1681 | 13.89 | 105 | 0.87 | 586 | 4.84 | 63 | 3 | 14 | 46 |
| GB-95-07 | Till | 13-15.1 | 1 | 7.40 | 1526 | 206.22 | 897 | 121.22 | 14 | 1.89 | 576 | 77.84 | 0 | 0 | 0 | 0 |
| GB-95-08 | Till | 16.3-18.7 | 2 | 11.20 | 835 | 74.55 | 419 | 37.41 | 4 | 0.36 | 383 | 34.20 | 7 | 0 | 5 | 2 |
| GB-95-09 | Till | 6.7-10.2 | 4 | 29.75 | 3465 | 116.47 | 1999 | 67.19 | 16 | 0.54 | 1317 | 44.27 | 16 | 1 | 4 | 0 |
| GB-95-10 | Till | 13.8-14.7 | 1 | 8.80 | 774 | 87.95 | 526 | 59.77 | 3 | 0.34 | 234 | 26.59 | 1 | 0 | 0 | 1 |
| GB-95-11 | Till | 13.5-14.2 | 1 | 12.80 | 431 | 33.67 | 218 | 17.03 | 0 | 0.00 | 195 | 15.23 | 5 | 0 | 3 | 2 |
| GB-95-12 | Till | 10.6-10.9 | 1 | 14.40 | 62 | 4.31 | 34 | 2.36 | 1 | 0.07 | 27 | 1.88 | 10 | 0 | 0 | 10 |
| GB-95-13A | Till | 19-22.2 | 2 | 13.10 | 735 | 56.11 | 248 | 18.93 | 4 | 0.31 | 461 | 35.19 | 4 | 0 | 0 | 4 |
| GB-95-14B | Till | 10.2-10.4 | 1 | 2.60 | 3 | 1.15 | 2 | 0.77 | 0 | 0.00 | 1 | 0.38 | 0 | 0 | 0 | 0 |
| GB-95-15A | Till | 7.2-7.7 | 1 | 4.10 | 10 | 2.44 | 5 | 1.22 | 0 | 0.00 | 5 | 1.22 | 6 | 0 | 1 | 5 |
| GB-95-16 | Till | 15.5-15.75 | 1 | 11.65 | 228 | 19.57 | 178 | 15.28 | 7 | 0.60 | 37 | 3.18 | 9 | 0 | 7 | 2 |
| GB-95-17 | Gravel | 10.5-11 | 1 | 3.00 | 83 | 27.67 | 62 | 20.67 | 3 | 1.00 | 17 | 5.67 | 4 | 0 | 4 | 0 |
| GB-95-18 | Till | 24.3-25.5 | 2 | 25.30 | 72 | 2.85 | 45 | 1.78 | 2 | 0.08 | 24 | 0.95 | 4 | 0 | 1 | 3 |
| GB-95-19 | Till | 20.7-23 | 2 | 20.75 | 11122 | 536.00 | 5252 | 253.11 | 38 | 1.83 | 5384 | 259.47 | 15 | 1 | 6 | 8 |
| GB-95-20 | Till | 20.5-22.2 | 1 | 10.40 | 2272 | 218.46 | 1444 | 138.85 | 4 | 0.38 | 728 | 70.00 | 4 | 0 | 0 | 4 |
| GB-95-21 | Till | 12.2-13.7 | 2 | 23.85 | 5380 | 225.58 | 2460 | 103.14 | 32 | 1.34 | 2760 | 115.72 | 5 | 0 | 1 | 4 |
| GB-95-22 | Till | 12.5-14.2 | 1 | 9.70 | 459 | 47.32 | 260 | 26.80 | 3 | 0.31 | 190 | 19.59 | 2 | 0 | 2 | 0 |
| GB-95-23 | Till | 18.3-18.8 | 1 | 9.70 | 10 | 1.03 | 10 | 1.03 | 0 | 0.00 | 0 | 0.00 | 9 | 0 | 3 | 6 |
| GB-95-24 | Till | 14.7-17 | 3 | 30.60 | 216 | 7.06 | 155 | 5.07 | 1 | 0.03 | 54 | 1.76 | 2 | 0 | 0 | 2 |
| GB-95-25 | Till | 4.4-4.7 | 1 | 0.95 | 18 | 18.95 | 12 | 12.63 | 2 | 2.11 | 4 | 4.21 | 0 | 0 | 0 | 0 |
| GB-95-25A | Till | 17.1-21.8 | 3 | 19.50 | 375 | 19.23 | 284 | 14.56 | 3 | 0.15 | 82 | 4.21 | 19 | 0 | 5 | 14 |
| GB-95-26 | Till | 31.6-36.1 | 2 | 16.20 | 112 | 6.91 | 78 | 4.81 | 2 | 0.12 | 75 | 4.63 | 7 | 0 | 2 | 5 |
| GB-95-27 | Till | 10.7-12.6 | 2 | 13.40 | 254 | 18.96 | 167 | 12.46 | 6 | 0.45 | 75 | 5.60 | 3 | 0 | 3 | 0 |
| GB-95-29 | Till | 33.5-34.6 | 1 | 9.80 | 270 | 27.55 | 199 | 20.31 | 4 | 0.41 | 64 | 6.53 | 0 | 0 | 0 | 0 |
| GB-95-30 | Till | 35.5-35.9 | 1 | 3.90 | 94 | 24.10 | 64 | 16.41 | 1 | 0.26 | 28 | 7.18 | 2 | 0 | 2 | 0 |
| GB-95-31 | Till | 30.6-37.6 | 2 | 12.90 | 239 | 18.53 | 178 | 13.80 | 0 | 0.00 | 57 | 4.42 | 7 | 0 | 2 | 5 |
| GB-95-32 | Till | 33.2-34.7 | 2 | 10.55 | 71 | 6.73 | 59 | 5.59 | 5 | 0.47 | 1 | 0.09 | 1 | 0 | 0 | 1 |
| GB-95-33 | Till | 36.2-37.2 | 1 | 5.10 | 19 | 3.73 | 16 | 3.14 | 0 | 0.00 | 3 | 0.59 | 5 | 0 | 4 | 1 |
| GB-95-34A | Till | 54.6-58.3 | 4 | 29.40 | 945 | 32.14 | 594 | 20.20 | 31 | 1.05 | 302 | 10.27 | 8 | 1 | 2 | 5 |
| GB-95-35 | Till | 46.8-64.5 | 14 | 137.00 | 1392 | 10.16 | 1044 | 7.62 | 196 | 1.43 | 139 | 1.01 | 57 | 2 | 18 | 37 |
| GB-95-36 | Till | 39.7-49.5 | 11 | 99.55 | 13001 | 130.60 | 10745 | 107.94 | 126 | 1.27 | 2727 | 27.39 | 43 | 0 | 2 | 41 |
| GB-95-37 | Till | 19.7-22.3 | 1 | 8.80 | 666 | 75.68 | 222 | 25.23 | 0 | 0.00 | 429 | 48.75 | 1 | 0 | 0 | 1 |
| GB-95-38 | Till | 45.2-47.2 | 1 | 6.50 | 9 | 1.38 | 7 | 1.08 | 0 | 0.00 | 0 | 0.00 | 0 | 0 | 0 | 6 |
| GB-95-39 | Till | 9-12.9 | 2 | 13.15 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 7 | 0 | 0 | 7 |
| GB-95-40 | Till | 6.2-8.5 | 1 | 4.10 | 7 | 1.71 | 7 | 1.71 | 0 | 0.00 | 0 | 0.00 | 2 | 0 | 0 | 2 |
| GB-95-41 | Till | 39.6-43.8 | 2 | 14.90 | 118 | 7.92 | 88 | 5.91 | 0 | 0.00 | 28 | 1.88 | 2 | 0 | 0 | 2 |
| GB-95-42 | Till | 45-45.8 | 1 | 10.25 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0 | 0 | 0 |

**TABLE 3. SUMMARY OF RESULTS FROM THE MARCH/APRIL 1996 REVERSE CIRCULATION DRILLING PROGRAM**

| Hole # | Sample Material | Depth (m) | No. of Samples | Total Table Weight (kg) | Total KIM's | Total KIM's/kg | Total Pyropes | Pyropes per kg | Total Cr-diop. | Cr-diopside per kg | Total Ilmenite | Ilmenites per kg | Total Au Grains | Total Prist. Au Grains | Total Mod. Au Grains | Total Reshpd. Au Grains |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GB-96-01 | Till | 20.2-20.4 | 1 | 7.90 | 44 | 5.57 | 39 | 4.94 | 0 | 0.00 | 5 | 0.63 | 9 | 0 | 1 | 8 |
| GB-96-02 | Till | 18.4-19.2 | 1 | 4.30 | 2663 | 619.30 | 1942 | 451.63 | 8 | 1.86 | 675 | 156.98 | 2 | 0 | 0 | 2 |
| GB-96-03 | Till | 19.7-24.8 | 2 | 16.10 | 20 720 | 1286.96 | 12052 | 748.57 | 340 | 21.12 | 5200 | 322.98 | 14 | 0 | 8 | 6 |
| GB-96-04 | Till | 13.5-14.4 | 1 | 3.05 | 10 | 3.28 | 10 | 3.28 | 0 | 0.00 | 0 | 0.00 | 1 | 0 | 1 | 0 |
| GB-96-05 | Till | 24.9-27 | 1 | 5.90 | 75 | 12.71 | 37 | 6.27 | 1 | 0.17 | 7 | 1.19 | 7 | 0 | 2 | 5 |
| GB-96-06 | Till | 33.4-46.7 | 7 | 46.9 | 1411 | 30.09 | 1172 | 24.99 | 110 | 2.35 | 106 | 2.26 | 9 | 0 | 2 | 7 |
| GB-96-07 | Till | 18.5-21.6 | 2 | 11.25 | 205 | 18.22 | 172 | 15.29 | 5 | 0.44 | 25 | 2.22 | 0 | 0 | 0 | 0 |
| GB-96-08 | Till | 16.6-17.2 | 1 | 1.45 | 18 | 12.41 | 15 | 10.34 | 0 | 0.00 | 3 | 2.07 | 1 | 0 | 1 | 0 |
| GB-96-08A | Till | 19.7-20.5 | 1 | 4.95 | 156 | 31.52 | 125 | 25.25 | 0 | 0.00 | 33 | 6.67 | 2 | 0 | 2 | 0 |
| GB-96-09 | Till | 40.7-42.1 | 1 | 6.2 | 133 | 21.45 | 119 | 19.19 | 6 | 0.97 | 30 | 4.84 | 0 | 0 | 0 | 0 |
| GB-96-10 | Till | 31.4-33.8 | 1 | 4.05 | 96 | 23.7 | 72 | 17.78 | 2 | 0.49 | 21 | 5.19 | 0 | 0 | 0 | 0 |
| GB-96-11 | Till | 21.8-22.6 | 1 | 2.15 | 15 | 6.98 | 12 | 5.58 | 0 | 0.00 | 3 | 1.40 | 1 | 0 | 1 | 0 |
| GB-96-12 | Till | 25.4-31.8 | 3 | 17.4 | 1142 | 65.63 | 756 | 43.45 | 8 | 0.46 | 349 | 20.06 | 1 | 1 | 0 | 0 |
| GB-96-13 | Till | 25.5-27.1 | 1 | 8 | 463 | 57.88 | 332 | 41.50 | 0 | 0.00 | 133 | 16.63 | 0 | 0 | 0 | 0 |
| GB-96-14 | Till | 11.6-12.6 | 1 | 7.55 | 194 | 25.7 | 124 | 16.42 | 0 | 0.00 | 66 | 8.74 | 1 | 1 | 0 | 0 |
| GB-96-15 | Till | 23.3-23.5 | 1 | 0.85 | 4 | 4.71 | 3 | 3.53 | 0 | 0.00 | 1 | 1.18 | 0 | 0 | 0 | 0 |
| GB-96-15A | Till | 20.5-21.2 | 1 | 4.85 | 157 | 32.37 | 118 | 24.33 | 0 | 0.00 | 36 | 7.42 | 0 | 0 | 0 | 0 |
| GB-96-16 | Till | 21-21.7 | 1 | 8.3 | 483 | 58.19 | 318 | 38.31 | 0 | 0.00 | 154 | 18.55 | 3 | 0 | 3 | 0 |
| GB-96-17 | Till | 12.8-14.9 | 2 | 10.8 | 3345 | 309.72 | 1571 | 145.46 | 8 | 0.74 | 1705 | 157.87 | 11 | 3 | 4 | 4 |
| GB-96-18 | Till | 12.8-13.2 | 1 | 6.7 | 142 | 21.19 | 90 | 13.43 | 0 | 0.00 | 50 | 7.46 | 6 | 3 | 1 | 2 |
| GB-96-19 | Till | 10.7-11.6 | 1 | 2.5 | 18 | 7.2 | 11 | 4.40 | 0 | 0.00 | 7 | 2.80 | 1 | 0 | 0 | 1 |
| GB-96-20 | Till | 41.6-43.2 | 1 | 6.6 | 41 | 6.21 | 27 | 4.09 | 0 | 0.00 | 12 | 1.82 | 1 | 0 | 1 | 0 |
| GB-96-21 | Till | 38.8-40.2 | 2 | 4.5 | 29 | 6.44 | 21 | 4.67 | 1 | 0.22 | 7 | 1.56 | 1 | 0 | 1 | 0 |
| GB-96-22 | Till | 45.5-51.8 | 3 | 32.85 | 1437 | 43.74 | 1005 | 30.59 | 17 | 0.52 | 393 | 11.96 | 9 | 0 | 4 | 5 |
| GB-96-23 | Upper Till | 50-72.6 | 11 | 80.6 | 3577 | 44.38 | 2446 | 30.35 | 22 | 0.27 | 1068 | 13.25 | 15 | 0 | 9 | 6 |
| | Lower Till | 72.6-81.5 | 4 | 37.55 | 21 | 0.56 | 7 | 0.19 | 0 | 0.00 | 14 | 0.37 | 0 | 0 | 0 | 0 |
| GB-96-24 | Till | 49.7-57.1 | 4 | 26.7 | 99 | 3.71 | 76 | 2.85 | 0 | 0.00 | 22 | 0.82 | 6 | 0 | 1 | 5 |
| GB-96-25 | Till | 0.4-2.6 | 1 | 4.35 | 2 | 0.46 | 2 | 0.46 | 0 | 0.00 | 0 | 0.00 | 2 | 0 | 0 | 2 |
| GB-96-26 | Till | 13.6-16.3 | 1 | 7.8 | 12 | 1.54 | 9 | 1.15 | 0 | 0.00 | 2 | 0.26 | 0 | 0 | 0 | 0 |
| GB-96-27 | Till | 19.9-22.5 | 2 | 8.15 | 1 | 0.12 | 1 | 0.12 | 0 | 0.00 | 0 | 0.00 | 0 | 0 | 0 | 0 |
| GB-96-28 | Till | 19.4-20.3 | 1 | 8.4 | 9 | 1.07 | 0 | 0.00 | 0 | 0.00 | 1 | 0.12 | 3 | 0 | 0 | 3 |
| GB-96-29 | Gravel | 30.6-43.5 | 5 | 19.6 | 56 | 2.86 | 41 | 2.09 | 14 | 0.71 | 1 | 0.05 | 1 | 0 | 1 | 0 |
| | Till | 51.2-54 | 1 | 5.95 | 43 | 7.23 | 40 | 6.72 | 2 | 0.34 | 1 | 0.17 | 4 | 0 | 0 | 4 |
| GB-96-30 | Till | 49.7-50 | 1 | 5.4 | 4 | 0.74 | 3 | 0.56 | 1 | 0.19 | 0 | 0.00 | 4 | 0 | 1 | 3 |

**TABLE 4. SUMMARY OF RESULTS FROM THE NOVEMBER 1996 REVERSE CIRCULATION DRILLING PROGRAM**

| Hole # | Sample Material | Depth (m) | No. of Samples | Total Table Weight (kg) | Total KIM's | Total KIM's/kg | Total Pyropes | Pyropes per kg | Total Cr-diop. | Cr-diopside per kg | Total Ilmenite | Ilmenites per kg | Total Au Grains | Total Prist. Au Grains | Total Mod. Au Grains | Total Reshpd. Au Grains |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GB-96-31 | Till | 25.8-28.7 | 3 | 27.55 | 2293 | 83.23 | 1239 | 44.97 | 1 | 0.04 | 206 | 7.48 | 25 | 3 | 8 | 14 |
| GB-96-32 | Till | 20.2-21.7 | 1 | 7.25 | 529 | 72.97 | 211 | 29.10 | 0 | 0.00 | 307 | 42.34 | 6 | 0 | 0 | 6 |
| GB-96-33 | Till | 12.8-13.3 | 1 | 6.20 | 560 | 90.32 | 300 | 48.39 | 1 | 0.16 | 230 | 37.10 | 2 | 0 | 0 | 2 |
| GB-96-34 | Till | 22.7-25.5 | 1 | 8.25 | 119 | 14.42 | 77 | 9.33 | 0 | 0.00 | 35 | 4.24 | 0 | 0 | 0 | 0 |

## CONCLUSIONS

1) Kimberlite indicator mineral concentrations were generally high, but ranged from background levels to **1287 KIM's/kg** (GB-96-3).

2) Four maybe five distinct dispersal trains have been identified and most likely not attributed to the Guigues pipe. Therefor at least four as yet undiscovered pipes are indicated in the study area.

3) The four magnetic anomalies tested were not kimberlites.

4) Gold grain counts were generally low from the study area, and may suggest a distal location to a gold source, with perhaps numerous, small local sources producing small, isolated anomalies.

## RECOMMENDATIONS

1) A comprehensive review of the results from all reverse circulation drilling and till pit programs should be completed, and used in conjunction with airborne and ground geophysical data to define geophysical targets suitable for test drilling.

2) Some limited detailed RC drill traverses could be conducted to separate the questionable dispersal trains from the Guigues pipe and also better define the shape and possible source direction of the trains.

3) Selection, conduction of ground magnetic surveys and if suitable, RC drill testing should then be completed on the highest potential targets.

## REFERENCES

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Veillette, J.J. 1988. Ice movements, till sheets and glacial transport in Abitibi-Timiskaming, Quebec and Ontario. *In* Drift Prospecting, *edited by* R.N.W DiLabio and W.B. Coker. Geological Survey of Canada, Paper 89-20, pp. 239-154.

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Veillette, J.J. and McClenaghan, M.B. 1996. Sequence of glacial ice flows in Abitibi-Timiskaming; Implications for mineral exploration and dispersal of calcareous rocks from Hudson Bay Basin, Quebec and Ontario. Geological Survey of Canada, Open File Report 3033, map 1:500 000.

CERTIFICATE OF QUALIFICATIONS

I, Jens Paterson, of the City of St. Catharines, in the Province of Ontario, Canada, do hereby certify that:

1) I am an Exploration Geologist, residing at 6 Hampstead Place, St. Catharines, Ontario, contracted to W.A. Hubacheck Consultants Ltd., 141 Adelaide St. West, Suite 1401, Toronto, Ontario

2) I am a graduate of Queen's University, where I received my Bachelor of Science degree in Geological Sciences in 1991, and of Brock University, where I received a Master of Science degree in Earth Sciences in 1995, and I have been practicing my profession as an Exploration Geologist continuously since graduation.

3) I am a member of the Geological Association of Canada and the Geological Society of America.

4) This report is based on personal examination of the property in March 1996.

5) I have no direct interest in the properties or securities of Sudbury Contact Mines Ltd.

Dated at Toronto, Ontario
This 31st day of January, 1997

Jens Paterson, M.Sc.

CERTIFICATE OF QUALIFICATIONS

I, Raymond J. Knowles, of the City of Etobicoke, in the Province of Ontario, Canada, do hereby certify that:

1) I am an Exploration Geologist, residing at 79 Thirteenth Street, Etobicoke, Ontario, M8V 3H5, under contract to W. A. Hubacheck Consultants Ltd., 141 Adelaide St. West, Suite 1401, Toronto, Ontario.

2) I am a graduate of the University of Toronto where I received a Bachelor of Science degree in Geology in 1985, and have been practicing my profession as an Exploration Geologist continuously since graduation.

3) I am a Fellow of the Geological Association of Canada, a member of the Canadian Institute of Mining and Metallurgy and the Prospectors and Developers Association of Canada.

4) This report is based on personal examination of the property in 1995 and 1996.

5) I have no direct interest in the properties or securities of Sudbury Contact Mines Ltd..

Dated at Toronto, Ontario
This 31st day of January, 1997

Raymond J. Knowles, B.Sc.

**W.A. HUBACHECK CONSULTANTS LTD.**

CERTIFICATE OF QUALIFICATIONS

I, Michel Plasse, of the City of D'Alembert, in the Province of Quebec, Canada, do hereby certify that:

(1) I am an Exploration Geologist, residing at 274 Boulevard D'Alembert, D'Alembert, Quebec contracted to W.A. Hubacheck Consultants Ltd., 141 Adelaide St. West, Suite 1401 Toronto, Ontario.

(2) I am a graduate of Laval University and received, in 1994, my Bachelor of Science degree in Geology , and have been practising my profession as an Exploration Geologist continuously since graduation.

(3) I am a member of the Quebec Prospectors Association.

(4) This report is based on personal examination of the property in October and November 1995.

(5) I have no direct interest in the properties or securities of Sudbury Contact Mines Ltd.

D'Alembert, Quebec
March 18, 1997

Michel Plasse, B.Sc.

# APPENDIX B

## REVERSE CIRCULATION OVERBURDEN DRILL LOGS

W.A. HUBACHECK CONSULTANTS LTD.

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TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

claim S/153126

COMPANY Sudbury Contact Mines HOLE No. GB-95-01, Lot 49, Rang 6, Guigues Twp,
CONTRACTOR Heath & Sherwood LOCATION EASTING: 619225 NORTHING: 5266450, ELEV. 222 m
DRILLER Jim Howe BIT No. CBT 1008 BIT FOOTAGE 0 to 22.5+1.34=156
MOVE TO HOLE Float from New Lisk Road Area + Set up 6:30 to 9:15
DRILL 9:15 To 11:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 6, 1995
OTHER 11:00 to 11:15 Pull Rods SHIFT TO
MOVE TO NEXT HOLE 11:15 to 12:30 To GB-95-02 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robichaux CONTRACT HOURS
Landowner: Norma Heath
Michel Plasse

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 2.5 | | | Tan-brown clay |
| 2.5 to 4.5 | | | Tan-grey clay |
| 4.5 to 14.5 | | | Varved grey clay<br>[13.5-14.5] silt |
| 14.5 to 19.3 | | | Fine Sand with silt |
| 19.3 to 19.5 | | | Pebble layer |
| 19.5 to 20.6 | | | Till<br>Silty, Sandy, pebbly, well compacted poorly sorted till with 50% clasts of 30% Pink granite, 15% siltstone 40% matic Intrusive, 10% Limestone |
| [20.1-20.5] | | | Pebbely to Cobbely<br>20% siltstone, 40% granite 30% matic intrusive 10% limestone |
| [20.5] | | | 5-10 cm large Cobble/boulder of granite? |
| 19.5 | | 95 | |
| 20 | | 5328 | |
| 20.6 | | | 20.6-22.2 Bedrock<br>Diorite |
| 22.2 | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-02, Easting: 620150 Northing: 5266450, Elev. 226 m, Quigley twp 6t49 Rg 6, claim S153126
CONTRACTOR Heath & Sherwood LOCATION
DRILLER Jim Hough BIT No. CB71053 BIT FOOTAGE 0-6 19.5
MOVE TO HOLE 11:15 to 12:30 From GB-95-01
DRILL 12:30 to 2:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 6, 1995
OTHER SHIFT TO
MOVE TO NEXT HOLE 2:00 to 3:00 TO GB-95-03 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Landowners: Norma Heath

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 0.4 – Clay<br>0.4 to 1.8 – Sand with clay seams<br>1.8 to 4.5 – No Return (clogged rods) |
| 4.5 | | | 4.5 To 15.0 – Grey Varved Clay<br>[14.0-15.0] silt |
| 15.0 | | | 15.0 to 17.5 – Fine Sand with 20-30% silt<br>[16.1] clay seam cm<br>[17.3] clay seam cm |
| 17.5 | | 5329 | 17.5 to 18.2 – Till<br>Silty, Sandy, Cobbely, well compacted, poorly sorted till.<br>50% clast of: 60% matic Intrusive vole<br>20% siltstone<br>5% quartz<br>15% pink granite<br>Note: matrix contains 20-25% Rock flour; washed sample.<br>[18.1-18.2] boulders of Matic Intrus. |
| 18.5 | | | 18.2-19.6 Bedrock<br>Green matic Intrusive/ coarse Baby volcanic |
| 19.6 | | E04 | 19.6 – E04 |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-03, Lot 49 Rg 6 Guigues, claim S153126
EASTING: 620450
CONTRACTOR Heath & Sherwood LOCATION NORTHING: 5366250, ELEV. 235
DRILLER Jim Howey BIT No. CB71053 BIT FOOTAGE 0-5.10+19.5' = 29.2
MOVE TO HOLE 2:00 to 3:00 from GB-95-02
DRILL 3:20 to 5:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 6, 1995
OTHER 5:00 to 5:30 pull rods SHIFT TO
MOVE TO NEXT HOLE TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Norma Heath

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 3.4 - Hard tan-brown Clay |
| 1 | | | |
| 2 | | | 3.4 to 8.2 - Grey Varved Clay |
| 3 | | | [5.6-8.2] fine sand in silt fraction, 380 cm thick silt beds |
| 4 | | | |
| 5 | | | 8.2 - 10.0 - Bedrock |
| 6 | | | Mafic Intrusive (diorite)/ coarse Baby Volcanic |
| 7 | | | [9.0/9.5] 5cm calcite veinlet |
| 8 | | | |
| 9 | | | 10.0 - EOH |
| 10 | EOH | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-03A, Lot 49, Rg 6, Guigues, claim 5153,
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620750 NORTHING: 5266350, elev. 235m
DRILLER Jim Hoey BIT No. CR71053 BIT FOOTAGE 0-A 15+29.5=44.5
MOVE TO HOLE 7:00 to 7:15 4om GB-95-03
DRILL 7:30 to 9:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 7, 95
OTHER 7:15 to 7:30 fill tanks SHIFT TO
MOVE TO NEXT HOLE 9:30 to 11:00 TO GB-95-04 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Lanny Robidoux CONTRACT HOURS

Landowner: Norma Heath

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 1.5 - Hard tan-brown clay |
| | | | 1.5 to 5.0 - Hard grey clay (poss. varved) |
| | | | 5.0 to 10.3 - Grey varved clay |
| | | | 10.3 to 11.6 - Silt |
| | | | 11.6 to 13.4 - Silt with Fine sand |
| | | | 13.4 to 13.5 - Pebbles with sand |
| | | | 13.5 to 13.6 - Very thin Till Veneer<br>Silty, Sandy, well compacted, poorly sorted Till with 50% clasts:<br>70% matic Intrusive/volc<br>25% granite<br>5% qtz<br>Note: Washed several times |
| | | 13.5<br>13.6<br>14.2 C5350 | 13.6-15.0 — Bedrock<br>matic Intrusive/coarse Baby Volcanic with calcite veinlets at 14.5 m. |
| | EOH | | 15.0 - EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-04, 6t 49, Rg 8, Guigues, claim S 1529
CONTRACTOR Heath & Sherwood LOCATION EAST. NAD: 622400, Northing: 5266500, elev. 232 m
DRILLER Jim Hoag BIT No. CB71053 BIT FOOTAGE 0-35+44,5=79.
MOVE TO HOLE 9:30 to 11:00 From GB-95-03A
DRILL 11:00 To 12:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 7, 95
OTHER 12:30 to 1:00 Pull Rods SHIFT TO
MOVE TO NEXT HOLE 1:00 to 2:30 To GB-95-05 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Lanny Rabidoux CONTRACT HOURS

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 25 | | | 0 to 0.4 – Road Gravel<br>0.4 to 2.3 – Hard tan-brown clay<br>2.3 to 25 – Grey varved clay |
| 25.0 to 30.7 | | | 25.0 to 30.7 – Silt with 30% very fine sand |
| 30.7 to 31.2 | | | 30.7 to 31.2 – Till<br>Silty, sandy, well compacted, poorly sorted till with 50% clasts of:<br>50% matic intrusive/vole<br>20% granite<br>10% limestone<br>15% siltstone<br>5% quartz |
| 31.2 to 33.6 | | | 31.2 to 33.6 – Very well compacted clay with Rock fragments.<br>[31.5 - 33.6] 60-70% matic intrusive clasts/chips<br>Note: Sampled but probably fault gouge |
| 30.7 | | | 30.7 |
| 31.2 | | 5331 | 31.2 |
| | | 5332 | |
| 33.6 – 35.0 | | | 33.6 – 35.0 – Bedrock |
| 33.0 | | | 33.0 matic Intrusive/coarse Baby vole.<br>[34.1 to 35.0] 20% clay |
| 35 | | | 35.0 – EOH |
| EOH | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-05 lot 48, Rg 8, Guigues, claim 51529
CONTRACTOR Heath & Sherwood LOCATION EASTING: 622775 NORTHING: 5266300, elev. 228m
DRILLER Jim Haug BIT No. CB71053 BIT FOOTAGE 0-023 + 79.5 = 102.5
MOVE TO HOLE 1:00 to 2:30 from GB-95-04
DRILL 2:30 to 5 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 7, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE Nov. 8: 7:00 to 8:00 to GB-95-06 TOTAL HOURS
GEOLOGIST Michel Plaa SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Simon Falardeau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 – 4 | | | 0 to 0.8 – Dark grey clay<br>0.8 to 2.4 – Silt & sand<br>2.4 to 18.0 – Grey Varved clay<br>[16.5 – 18.0] thick silt beds<br>cm thick clay seams (17.0m) |
| 8 – 12 | | | 18.0 to 21.1 – Silt with 30% Very fine to fine Sand |
| 12 – 16 | | | 21.1 to 21.4 – Till<br>Silty, Sandy, well compacted, poorly sorted Till with 50-60% clasts of:<br>60% matic intrusive/volc<br>20% granite<br>15% siltstone<br>5% quartz<br>Note: washed sample |
| 16 – 20 | | | 21.4 – 23.0 Bedrock<br>Baby volcanics (matic)<br>tr-1% Py |
| 20 – 23 | | 5333 | 23.0 – EOH<br>21.4<br>21.6 |

EOH

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## REVERSE CIRCULATION DRILL HOLE LOG

5152

COMPANY Sudbury Contact Mines HOLE No. GB-95-06, Lot 48 Rg 8, Guigues, claim ~~S1584~~

CONTRACTOR Heath & Sherwood LOCATION EASTING: 623495, NORTHING: 5266300, elev. 234 m

DRILLER Jim Hovey BIT No. CB71053 BIT FOOTAGE 0-125.8 + 102.5 = 128

MOVE TO HOLE 7:00 to 8:00 from GB-95-05

DRILL 8:00 to 10:30 MECHANICAL DOWN TIME

DRILLING PROBLEMS 3 broken rods, 2 left downhole + bit & subbit couldn't tap DATE Nov. 8, 95

OTHER 10:30 to 11:00 went for water truck (Todd) SHIFT TO

MOVE TO NEXT HOLE 11:00 to 12:15 To GB-95-07 TOTAL HOURS

GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner: Simon Falardeau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 3.3 - Hard tan-brown clay |
| | | | 3.3 to 18.5 - Grey Varved clay |
| | | | 18.5 to 21.8 - Silt with fine Sand [21.1-21.2] matic intrusive boulder (diorite |
| | | | 21.8 to 25.7 - Till |
| 21.8 | | 5334 | Very Sandy, very well compacted, poorly sorted till with some silt and 30-40% clasts 70-80% matic int./volc., 15-20% granite 5-10% quartz. Some sand pockets. [23.7-24.0] diorite boulder Note: hard/slow drilling - well compacted coarse sand matrix |
| 22.2 | | 5335, 5336 | |
| 22.7 | | 5337 | |
| 23.0 | | 5338 | |
| 23.7 | | NS | |
| 24.0 | | 5339 | |
| 24.9 | | 5340 | |
| 25.3 | | 5341 | |
| 25.7 | | 5342-5344 | 25.7 - boulder / bedrock broken rods - EOH |
| 26 | EOH | | Sample: 5335 → 22.2 - 22.5; 5336 → 22.5 - 22.7; 5342 → 25.3 - 25.4 m; 5343 → 25.4 - 25.5 m; 5344 → 25.6 - 25.7 m |
| 27 | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines — HOLE No. GB-95-07, 6749, Rg8, Guigues, claim 5153977
CONTRACTOR Heath & Sherwood — LOCATION Northing: 5266300, elev. 240 m (EASTING: 624000)
DRILLER Jim Mougg — BIT No. CB71009 + bitsub — BIT FOOTAGE 0 to 16.5
MOVE TO HOLE 11:00 To 12:15 from GB-95-05
DRILL 12:15 to 2:15 — MECHANICAL DOWN TIME
DRILLING PROBLEMS — DATE Nov. 8, 95
OTHER 2:15 to 3:00 pull rods — SHIFT — TO
MOVE TO NEXT HOLE Float 4:00 To 5:00 To GB-95-08 — TOTAL HOURS
GEOLOGIST Michel Plasse — SAMPLER Larry Robidoux — CONTRACT HOURS

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 1.5 — Sand and silt |
| 1 | | | 1.5 to 5.3 — Silt with very fine sand |
| 2 | | | 5.3 to 10.5 — Grey varved clay |
| 3 | | | [8.8 to 10.5] m thick silt beds with fine sand |
| 4 | | | 10.5 to 13.0 — Sand with some pebbles |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | 13.0 to 15.1 — Sandy Till (SFG) |
| 9 | | | Pebbely, coarse sand matrix, well compacted poor-mod sorted till with tr. silt. |
| 10 | | | 40-50% clast of: 50% matic Int./volc. 30% granite 10-15% siltstone 10% limestone |
| 11 | | | — 70-80% of clast are pebble size |
| 12 | | | — Cobbely from 14.9 to 15.1 |
| 13 | | 130 | 15.1 - 16.5 - Bedrock |
| 14 | | 5345 | Diorite / Baby volc. (matic) very hard, calcite vein (10 cm) at 16.0 m |
| 15 | | 15.1 | |
| 16 | | | 16.5 - EOH |
| 17 | EOH | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

5009241

COMPANY Sudbury Contact Mines HOLE No. GB-95-08, lot 34, Rg 9, Garrison, claim ~~S098496~~
CONTRACTOR Heath & Sherwood LOCATION EASTING: 623600 Northing: 5262650, elev: 238 m
DRILLER Jim Hoag BIT No. CB71009 BIT FOOTAGE 0-D 20.2+16.5=36.
MOVE TO HOLE 4:00 to 5:00 (Nov 8, 95) from GB-95-07
DRILL 7:00 to 9:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 9, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 9:30 to 10:45 To GB-95-09 TOTAL HOURS
GEOLOGIST Michel Plante SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Weshta

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 2.8 — Hard tan-brown clay |
| | | | 2.8 to 13.5 — Grey varved clay |
| | | | 13.5 to 16.3 — Silt with fine Sand |
| | | | 16.3 to 18.7 — Till<br>Silty, sandy, well compacted, poorly sorted till with 40% clasts of:<br>70% Gabbro / Baby volc<br>10% granite pink<br>10% quartz<br>5% siltstone<br>5% limestone<br>- some cobbles from 16.8 m<br>[18.0 - 18.7] very well compacted |
| | | | 18.7 - 20.0 Bedrock<br>Gabbro / diorite with some calcite veinlets at 20.0 m |
| 16 | | | 16.3 |
| 17 | | 5346 | 20.0 - EOH |
| 17.5 | | | 17.5 |
| 18 | | 5347 | |
| 18.7 | | | 18.7 |
| 19 | | | |
| 20 | | | EOH |
| 21 | | | |

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TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

5009241

COMPANY Sudbury Contact Mines HOLE No. GB-95-09 (pt 34, Rg 9, Guigues, claim ~~S3988~~)
EASTING: 624900

CONTRACTOR Heath & Sherwood LOCATION NORTHING: 5362 650, elev. 228 m

DRILLER Jim Haug BIT No. CB71009 BIT FOOTAGE 0-11.7+36.7=48.4

MOVE TO HOLE 9:30 to 10:45 From GB-95-08

DRILL 10:45 to 1:00 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE Nov. 9, 95

OTHER 1:15 to 3:00 wait for Haul SHIFT TO

MOVE TO NEXT HOLE 3:00 to 5:00 To GB-95-10 TOTAL HOURS

GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner: Weshta

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 1.5 – Hard tan-brown clay |
| | | | 1.5 To 5.2 – Grey Varved clay |
| | | | 5.2 to 6.7 – Silt with fine sand |
| | | | 6.7 to 10.2 – Till |
| | | | silty, sandy, cobbely (from 7.1), well compacted, poorly sorted till with 50 to 65% clasts of: |
| | | | 60-75% matic Int / volc |
| | | | 15% granite |
| | | | 5% quartz |
| | | | 5-10% siltstone |
| 6.7 | | | [9.5-10.2] Pebbely till, not many cobbles |
| 7.5 | | 5348 | 50% clasts of same type & proportions |
| 8.2 | | 5349 | Silty, sandy, well compacted, |
| 8.5 | | NS | poorly sorted |
| 9.5 | | 5350 | |
| 10.2 | | 5351 | 10.2-11.7 – Bedrock |
| | | | Gabbro / Baby matic Volc. |
| | | | tr. Py, |
| | | | [10.5] 5cm altered zone FeC |
| | | | [10.9] 2-5cm calcite veinlets |
| 12 | EOH | | 11.7 – EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-10, Lot 44, Rg8, Guigues, claim 5116525
CONTRACTOR Heath & Sherwood LOCATION EASTING: 662450 NORTHING: 5765100, elev. 238 m
DRILLER Jim Mous BIT No. CB71009 BIT FOOTAGE 0-16.5=48.4=64.9
MOVE TO HOLE 3:00 to 5:00 (Nov 9) from GB-95-09
DRILL 7:30 to 9:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 10, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 9:30 to 10:30 To GB-95-11 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Simon Falardeau

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 4.0 – Hard tan-brown clay |
| | | | 4.0 to 13.3 – Grey varved clay |
| | | | 13.3 to 13.8 – Diorite / matic volc. (coarse) boulder |
| | | | 13.8 to 14.7 – Till<br>silty, sandy, pebbly, well compacted, mod sorted till with 40-50% clasts of:<br>40% matic volc/Int.<br>30% diorite<br>10% granite<br>5% quartz<br>5% limestone<br>Note: - Clasts were mostly Pebbles - washed sample |
| | | | 14.7-16.5 – Bedrock<br>Matic Volc. (Baby volc.)<br>[15.9] 10cm hematite alteration |
| 14 | | 5352 | 13.8 |
| 15 | | | 14.9 |
| 16 | | | 16.5 – EOH |
| 17 | EOH | | |
| 18 | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-11 claim 5116525, elev. 238,
CONTRACTOR Heath & Sherwood LOCATION EASTING: 625050 NORTHING: 5265130, Lot 44, Rg 8, Grigsus
DRILLER Jim Hovey BIT No. CB71009 BIT FOOTAGE 0-15.7+64.9=80.
MOVE TO HOLE 9:30 to 10:30 from GB-95-10
DRILL 10:30 to 1:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 10, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 1:00 to 1:30 To GB-95-12 TOTAL HOURS
GEOLOGIST Michael Plante SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Simon Falardeau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 4.2 – Hard tan-brown clay some sand in the first 60cm |
| | | | 4.2 to 12.0 – Grey unsrted clay |
| | | | 12.0 to 13.5 – Silt & fine sand |
| | | | 13.5 to 14.2 – TILL<br>Silty, Sandy, mod. compacted, poorly sorted till with 40% clasts:<br>75% mafic volc./intrusive ± tr. Py<br>10% granite<br>10% limestone<br>5% quartz<br>- clasts: mostly Pebbles,<br>- washed several times |
| | | 5353 | 14.2–15.7 – Bedrock<br>Coarse Baby Volc. with granite dykelets at: 15.1–15.2<br>15.4–15.5 |
| EOH | | | 15.7 – EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-12 claim 5116525, elev. 238m
CONTRACTOR Heath & Sherwood LOCATION EASTing: 623600 Northing: 5265130, lot 44, Rg 8, Graig Twp
DRILLER Jim Hoag BIT No. CB71009 BIT FOOTAGE 0 to 12.5 + 80.6 = 93
MOVE TO HOLE 1:00 to 1:30 From GB-95-11
DRILL 1:30 to 2:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 10, 95
OTHER 2:45 to 3:00 pull rods SHIFT TO
MOVE TO NEXT HOLE 3:00 to 4:00 To GB-95-13 TOTAL HOURS
GEOLOGIST Michel Plante SAMPLER Larry Robidoux CONTRACT HOURS

Landowner : Simon Falardeau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 2.0 | | | Hard tan-brown clay |
| 2.0 to 7.5 | | | Grey varved clay |
| 7.5 to 10.6 | | | Silt with fine sand and some pebbles |
| 10.6 to 10.9 | | 5354 | Till<br>silty, very sandy matrix, well compacted, poorly sorted till with 35-40% clasts:<br>50% mafic volcanic<br>15% granite (pink)<br>20% granite (white)<br>5% quartz<br>– sample may contain rock flour |
| 10.9 – 12.5 | | | Bedrock<br>mafic volcanic contain small felsic dykelets |
| 12.5 | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-13 claim 5116525, elev. 244m
CONTRACTOR Heath & Sherwood LOCATION EASTING: Northing: 5265050, Lot 44, Rg 8, Guigues Twp
DRILLER Jim Hovis BIT No. CB71083 BIT FOOTAGE 0-b 13.5
MOVE TO HOLE 3:30 to 4:00 (Nov. 10) from GB-95-12
DRILL 7:00 to 8:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 11, 95
OTHER 8:30 to 8:45 pull rods SHIFT TO
MOVE TO NEXT HOLE 8:45 to 9:00 To GB-95-13A TOTAL HOURS
GEOLOGIST Michel Piroton SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Simon Falardeau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 2.0 - Hard tan-brown clay |
| 1 | | | |
| 2 | | | 2.0 to 9.8 - Grey varved clay |
| 3 | | | |
| 4 | | | 9.8 to 12.0 - Silt with fine sand |
| 5 | | | 12.0-13.5 - Bedrock |
| 6 | | | Coarse, mottled, mafic volcanic |
| 7 | | | [12.3-12.4] granite dykelet |
| 8 | | | [12.6-13.1] fractured - bad return loss of water |
| 9 | | | 13.5 - EOH |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | EOH | | |
| 15 | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-13A claim 5116525, elev. 244
CONTRACTOR Heath & Sherwood LOCATION EASTING: 624023 NORTHING: 5265115, Lot 44 RgB Guisinec Twp
DRILLER Jim Haug BIT No. CB7D183 BIT FOOTAGE ~~23.7~~ 13.5 = 37.2
MOVE TO HOLE 8:45 To 9:00 From GB-95-13
DRILL 9:00 to 11:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 11, 95
OTHER 11:15 to 11:30 pull rods SHIFT TO
MOVE TO NEXT HOLE 11:30 to 1:00 To GB-95-14 TOTAL HOURS
GEOLOGIST Michel Plante SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Simon Falgedean

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 1.8 – Hard tan-brown clay |
| 1–3 | | | 1.8 to 15.5 – Grey varved clay |
| 4–5 | | | 15.5 to 19.0 – Silt with very fine to fine sand. A few dropstones |
| 8 | | | 19.0 to 22.2 – Till |
| 9–11 | | | [19.0 – 19.6] Silty, Sandy, very well compacted poorly sorted till with 40–50% clasts of: 50% matic volc. 25% pink granite 15% siltstone 5% quartz 5% limestone |
| 12–15 | | | [19.6 to 22.2] Silty, Sandy, Cobbly, bouldery till with 60–70% clasts: 50% matic volc. 25% pink granite 15% siltstone 5–10% limestone 5% white granite – mostly cobbles & boulder from 21.5 m |
| 16–18 | | | 22.2 – 23.7 – Bedrock |
| 19 | | 5355 | Coarse, mottled, matic volcanic |
| 19.0 | | | |
| 19.5 | | | |
| 20–21 | | 5356 | 23.7 – EOH |
| 22.2 | | | |
| 23 | | | |
| 24 | EOH | | |

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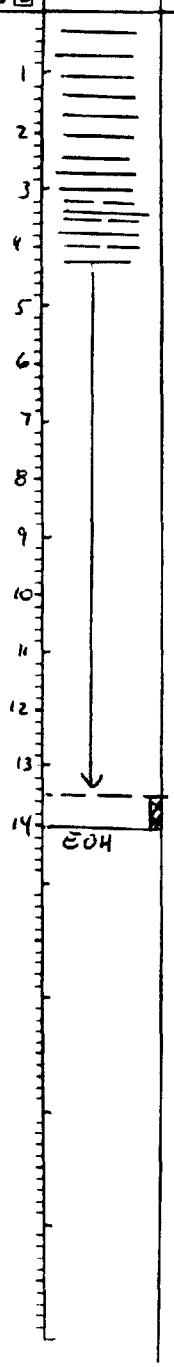
## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-14 claim 5117057 elev. 238 m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 622950 NORTHING: 5264300, Lot 41 Rg 8 Guigues Twp.
DRILLER Jim Hough BIT No. CB701B3 BIT FOOTAGE 0-13.5+37.2=50.
MOVE TO HOLE 11:30 to 1:00 from GB-95-13A
DRILL 1:00 to 2:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS Loss of return at 13.5m moved and Redrilled DATE Nov. 11, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 5 feet To GB-95-14A TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Lanny Robidoux CONTRACT HOURS

Landowner: Laurice Jacques

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 14 |  | | 0 to 3.0 – Hard tan-brown clay<br><br>3.0 to 13.5 – Grey varved clay<br>[10.4-13.5] metre thick silt beds, cm thick clay seams, sand in silt fraction<br><br>13.5 – Bedrock?<br>Loss of return, drilled to 14m still no return.<br><br>14.0 EOH |

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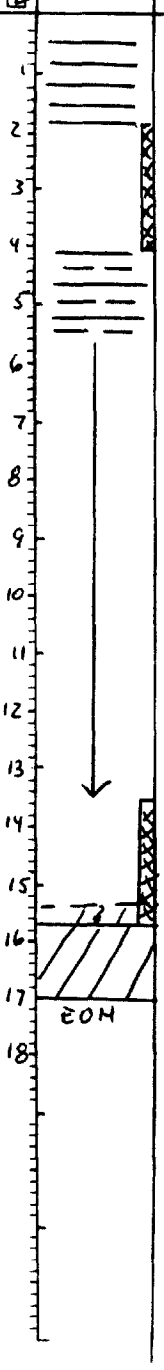
## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-14A claim 5117057, elev. 238
EASTING: 622750
CONTRACTOR Heath & Sherwood LOCATION NORTHING: 5264300, Lot 41, Rg 8, Grigsun Twp
DRILLER Jim Howey BIT No. CA70183 BIT FOOTAGE 0 to 16.5 + 50.7 = 67.
MOVE TO HOLE N/A (5 feet moved) From GB-95-14
DRILL 2:45 to 5:00 & 7:00 to 10:30 MECHANICAL DOWN TIME Change swivel
DRILLING PROBLEMS Loss of return at 13.5m DATE Nov. 11, 95
OTHER _____ SHIFT _____ TO _____
MOVE TO NEXT HOLE 10:30 to 10:45 Nov. 12 To GB-95-14B TOTAL HOURS _____
GEOLOGIST Michel Plasse SAMPLER Larry Rebideux CONTRACT HOURS _____
Michel Plasse

Landowner: Laurier Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to ≃ 1.8 – Hard tan-brown clay |
| | | | 1.8 to 4.0 – No Return ; Rods clogged |
| | | | 4.0 to 13.5 – Grey Varved clay |
| | | | [10.4-13.5] metre thick silt beds, cm thick clay seams Sand in silt fraction |
| | | | 13.5 to 15.7 – Very poor to No Return (a few mafic volc/Intr. Rock chips) |
| | | | [15.4] probable bedrock very slow drilling |
| | | | 15.7-17.0 – Bedrock Mafic volcanic, coarse |
| | | | 17.0 – EOH |



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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-14B claim 5117057, elev. 238
CONTRACTOR Heath & Sherwood LOCATION Easting: 622450 Northing: 5264400, Lot 41, Rg 8, Graigmont Twp
DRILLER Jim Howe BIT No. CB71084 BIT FOOTAGE 0 to 11.9
MOVE TO HOLE 10:30 to 10:45 From GB-95-14A
DRILL 10:45 to 1:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS used mud for bedrock sample DATE Nov. 12, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 1:00 to 2:00 To GB-95-15 TOTAL HOURS
GEOLOGIST Michel Plessis-Belair SAMPLER Larry Robideux CONTRACT HOURS

Landowner: Laurier Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 4.0 | | | Hard tan-brown clay |
| 4.0 to 7.5 | | | Grey varved clay |
| 7.5 to 8.8 | | | Silt with fine Sand |
| 8.8 to 10.2 | | | Sand with some pebbles |
| 10.2 to 10.4 | | 5357 (10.2 – 10.4) | Thin till Veneer? Silty, Sandy, Pebbely, mod. compacted mod. to poorly sorted till with 40% clasts of: 90% mafic volc. 10% granite Note: Washed several times |
| 10.4-12.0 | | | Bedrock Green mafic volcanic |
| 12.0 | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-15 claim 5117057, elev. 238m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 623625 NORTHING: 5264300, lot 41, Rg 8 Guigues Tp
DRILLER Jim Hoag BIT No. CB71084 BIT FOOTAGE 6.5+11.9=18.4
MOVE TO HOLE 1:00 to 2:00 From GB-95-14B
DRILL 2:00 to 4:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 12, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 7:00 to 7:45 Nov. 13 To GB-95-16 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Lavoie Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 1.4 – Hard tan-brown clay |
| 1 | | | |
| 2 | | | 1.4 to 4.3 – Grey Varved clay |
| 3 | | | |
| 4 | | | |
| 4.3 | | | 4.3 to 4.5 – THIN Till Veneer? |
| 4.5 | | | Sandy, well compacted, poorly sorted till with 40% clasts of: 90% matic volc 10% granite |
| 5 | | | Note: - matrix poor: Rx grit mostly - Not enough material to sample |
| 6 | | | |
| 7 | EOH | | 4.5 to 6.5 – Bedrock |
| 8 | | | Coarse matic volcanic, Rusty |
| 9 | | | [5.1-5.9] poor return: fractures? |
| | | | [6.1-6.3] fault gouge |
| | | | 6.5 – EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-15A, claim S117057, elev. 240.
CONTRACTOR Heath & Sherwood LOCATION EASTING: 623775 NORTHING: 5264300, lot 41, Rg 8, Guigues Twp
DRILLER Jim Howg BIT No. CB71084 BIT FOOTAGE 9.2+18.4=27.6
MOVE TO HOLE 7:00 to 7:45 from GB-95-15
DRILL 7:15 to 9:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 13, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 9:15 to 10:45 To GB-95-16 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner: Laurier Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 3.2 – Tan-brown clay |
| | | | 3.2 to 6.4 – Grey varved clay |
| | | | [5.0-6.4] metre thick silt beds with fine sand, cm thick clayseam |
| | | | 6.4 to 7.2 – Fine Sand |
| 7.2 | | 5358 | 7.2 to 7.7 – Till ? |
| 7.7 | | | trace silt, some sand, mod. compact, mod. sorted. 60% clasts of: 90% matic volc., 10% granite Rock flour matrix, Altered, broken-up bedrock? Very small sample |
| | | | 7.7 to 9.2 – Bedrock |
| | | | Matic volcanic, coarse grained |
| | | | 9.2 E O H |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-16 claim 5142772, elev. 243 m
CONTRACTOR Heath & Sherwood LOCATION Easting 625850 Northing 5264200, lot 41, Rg 9, Guigues Twp
DRILLER Jim Howy BIT No. CB71085 BIT FOOTAGE 0-0 17.5
MOVE TO HOLE 9:15 to 10:45 from GB-95-15A
DRILL 10:45 to 1:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 13, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 1:30 To 2:00 To GB-95-17 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: A. Kunz

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 15 | | | 0 to 1.5 - Tan-brown clay<br>1.5 to 11.4 - Grey varved clay<br>[9.8-11.4] thick, sandy, silt beds on thick clay seams |
| 11.4 to 14.0 | | | 11.4 to 14.0 - Sand with some dropstones |
| | | | 14.0 to 15.5 - No Return |
| 15.5 to 15.75 | | | 15.5 to 15.75 - Sand & Gravel or Sandy Till<br>Silty, Sandy, mod. compacted, mod. sorted till with 30% Pebbely clasts<br>60% matic Volc.<br>20% granite<br>10% siltstone<br>10% pink granite |
| 15.75 to 17.5 | | | 15.75 to 17.5 - Bed rock<br>Matic Volcanic, slight epidote alteration.<br>Calcite veinlet at 16.5 (cm) |
| 15.5 / 15.2 | | 5359 | 17.5 - EOH |
| EOH | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-17 claim 5142777, elev. 243
CONTRACTOR Heath & Sherwood LOCATION Easting: 625 325 Northing: 5264320, lot 41, Rg 9, Guigues Tw
DRILLER Jim Howey BIT No. CB71085 BIT FOOTAGE 0 16.5+17.5=34
MOVE TO HOLE 1:30 to 2:00 from GB-95-16
DRILL 2:00 to 4:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 13, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 4:30 to 5:30 To GB-95-18 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Lanny Robidoux CONTRACT HOURS
Michel Plasse

Landownee: A. Kunz

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 2.0 - Tan-brown clay |
| | | | 2.0 to 4.5 - Plugged rod: no return |
| | | | 4.5 to 6.2 - Varved clay<br>sandy silt fraction |
| | | | 6.2 to 10.0 - Medium Sand |
| | | | 10.0 to 10.5 - Fine to Medium Sand |
| | | | 10.5 to 11.0 - Sand & Gravel<br>Poorly compacted, mod. to poorly sorted, silty, sandy, 30% clasts of: 50% mafic Volc, 30% granite, 20% pink granite<br>- Small sample |
| | | | 11.0 to 12.5 - Gravel with sand<br>moderately compacted Pebbles & gravel, 10-20% sand matrix, clasts: 50% mafic volcanics, 20% pink granite, 20% granite, 10% siltstone. No to trace fines.<br>Poor return from 11.4-12.5 |
| | | 5360 (10.5–11.0) | |
| | | | 12.5 to 15.1 - Medium to Fine Sand |
| | | | 15.1 to 15.8 - boulder: mafic volc. |
| | | | 15.8 to 15.9 - Clasts (chips) with 5% sand: 40% mafic Volc, 10% pink granite |
| | | | 15.9 to 16.6 - Bedrock<br>Mafic meta volcanic, calcite veinlets 15.9-16.1 |
| | | | 16.6 - EOH |
| | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-18 claim 5142777 elev. 243
CONTRACTOR Heath & Sherwood LOCATION EASTING: 624675 NORTHING: 5264200, lot 41, Rg 9, Guigues Twp
DRILLER Jim Hogg BIT No. CB7,086 BIT FOOTAGE 0 to 27.5
MOVE TO HOLE 4:30 to 5:30 Nov. 13 from GB-95-17
DRILL 7:00 to 10:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 14, 95
OTHER 10:15 to 10:30 pull rods SHIFT TO
MOVE TO NEXT HOLE 10:30 to 11:00 move 10:30 - 11 + 12 - ? To GB-95-19 TOTAL HOURS
GEOLOGIST Michel Plasse Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: A. Kunz

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 3 – Tan-brown clay |
| | | | 3 to 19.5 – Grey varved clay |
| | | | [16.2–19.5] approx. 80cm thick silt beds with sand 10 cm clay beds |
| | | | 19.5 to 24.3 – Fine Sand with a few dropstones |
| | | | 24.3 to 25.2 – SFG or Sandy Till |
| | | | Silty, Sandy (fine to med. sand), Pebbly, mod. compacted, mod. sorted, 25-30% clasts: 20% pink granite, 50% matic Volc., 10-15% white granite, 10% siltstone, 2-5% mica, clast content increases to 35% at 25 m |
| | | | 25.2 to 27.5 – Bedrock |
| | | | Matic Volcanic |
| | | | 27.5 – EOH |
| | | 5361 | 24.3 – 24.7 |
| | | 5362 | 24.7 – 25.2 |
| | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-19 claim SD09243, elev. 235 m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 625900 NORTHING: 5761950, Lot 32, Rg 9, Guigues Twp
DRILLER Jim Hovig BIT No. CB71086 BIT FOOTAGE 0-24.5+27.5=52
MOVE TO HOLE 10:30 to 1:00 from GB-95-18
DRILL 1:00 to 3:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 14, 95
OTHER 3:30 to 4:00 pull rods SHIFT TO
MOVE TO NEXT HOLE 4-5:00 to GB-95-20 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Emilien Dubeau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 0.8 – Tan-brown clay |
| | | | 0.8 to 16.5 – Grey Varved clay |
| | | | 16.5 to 20.3 – Silt with 5-10% Fine Sand and some dropstones |
| | | | 20.3 to 20.7 – Sand with pebbles (washed till?) – no time to switch buckets |
| | | | 20.7 to 23.0 – Till |
| | | | [20.7-21.7] – silty, sandy, stony, mod. compact poorly sorted till with 60% clasts: 50% matic Volc., 20% pink granite, 10% limestone, 10% diorite, 5% clear quartz |
| | | | [21.7-23.0] Same till as before but Pebbly, cobbly. |
| | | | [21.8-22.5] magnetic pink granite boulder, magnetite |
| | | | 23.0 to 24.5 – Bedrock |
| | | | Matic Volcanic, calcite veined at 23.3 |
| | | | EOH 24.5 |
| 21 | | 5363 | 20.3 |
| 22 | | NS | 21.7 |
| 23 | | 5364 | |
| 24 | | | |

EOH: 24.5

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-20 claim SD09243, elev. 235
CONTRACTOR Heath & Sherwood LOCATION EASTING: 625500 Northing: 5261980, Lot 32, Rg 9, Guigues Twp
DRILLER Jim Howes BIT No. CB71086 BIT FOOTAGE 24+52 = 76
MOVE TO HOLE 4:00 to 5:00 Nov 14 from GB-95-20
DRILL 7:00 to 8:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 15, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 8:15 to 8:45 To GB-95-21 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Lenny Rebidoux CONTRACT HOURS
Michel Plasse

Landowner: Emilien Daveau

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 16.0 | | | 0 to 1.5 – Tan brown clay<br>1.5 to 16.0 – Grey varved clay<br>Silt beds are thicker ≃ 80cm from 13.0m |
| 16.0 to 19.5 | | | 16.0 to 19.5 – Silt with 5-10% Fine Sand |
| 19.5 to 20.5 | | | 19.5 to 20.5 – Sand with 10% Pebbles |
| 20.5 to 22.2 | | | 20.5 to 22.2 – Till<br>Silty, Sandy, mod. compacted, poorly sorted, Till with 50% clasts of:<br>60-65 matic volc.<br>10% pink granite<br>10% granite<br>10% diorite<br>5% limestone<br>- Clasts 1.5cm-20cm pebbles<br>- well compacted from 22.0m |
| 22.2 to 24.0 | | | 22.2 to 24.0 – Bedrock<br>Altered, Rusty, matic Volcanic with tr. 2% pyrite, calcite veinlets from 23.0m |
| 24.0 | | | 24.0 EOH |
| 20.5 | | 5365 | 20.5 |
| 22.2 | | | 22.2 |

EOH

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-21 claim 5009243, elev. 237
CONTRACTOR Heath & Sherwood LOCATION EASTING: 625100 NORTHING: 5262100, lot 32, Rg 9, Guigues Tw
DRILLER Jim Howg BIT No. CR71086 BIT FOOTAGE 0 to 15+76 = 91
MOVE TO HOLE 8:15 to 8:45 from GB-95-20
DRILL 8:45 to 10:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 15, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 10:15 to 10:30 To GB-95-22 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner: Emilien Darveau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 1.5 | | | Hard grey clay |
| 1.5 to 11.4 | | | Grey varved clay |
| [9.0 to 11.4] | | | metre thick silt beds cm thick clay seams sand in silt fraction from 10.5m. |
| 11.4 to 12.2 | | | Sand |
| 12.2 to 13.7 | | | Till |
| [12.2 to 13.0] | | | silty, sandy, pebbly, mod. sorted, mod compacted till with 60% clasts of: 50-60% matic volc. 20% pink granite 10% siltstone 10-15% Diorite – well compacted, cobbely at 12.8m |
| [13.0 to 13.2] | | 5366 | matic volc. boulder |
| | | NS | |
| [13.2 to 13.7] | | 5367 | silty, sandy, cobbely, well compacted, poorly sorted till Clasts content is to previous till. |
| 13.7 to 15.0 | | | Bedrock |
| | | | Hard, matic Volcanic. 1 to 3% calcite. |
| [14.8–15.0] | | | calcite veinlets 30% |
| 15.0 | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-22 claim SD09243, elev. 233
CONTRACTOR Heath & Sherwood LOCATION EASTING: 624625 Northing: 5262150 Lot 32, Rg 7, Grenville Twp
DRILLER Jim Hoag BIT No. CR71086 BIT FOOTAGE 0 to 15.8 + 91 = 106.8
MOVE TO HOLE 10:15 to 10:30 from GB-95-21
DRILL 10:30 to 12:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 15, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 12:15 to 1:00 To GB-95-23 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Emilien Daveau

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 1.0 – Tan-brown clay |
| 1 | | | 1.0 to 9.8 – Grey Varved clay |
| 2 | | | |
| 3 | | | 9.8 to 12.0 – Silt with 1-5% Fine Sand |
| 4 | | | |
| 5 | | | 12.0 to 12.5 – Sand |
| 6 | | | |
| 7 | | | |
| 8 | | | 12.5 to 14.2 – Till |
| 9 | | | Silty, Sandy, mod. compacted, poorly sorted till with 50% clasts of: |
| 10 | | | 70-80% matic volcanics |
| 11 | | | 10-15% pink granite |
| 12 | | | 5-10% white granite |
| 13 | | 5368 | - Cobbely from 13.4 |
| 14 | | | [13.0-13.1] – matic volc. Boulder |
| 14.2 | | | 14.2 to 15.8 – Bedrock |
| 15 | | | Gabbro / matic volcanic. |
| 16 | EOH | | 2-5% Py cubes |
| 17 | | | [14.6] calcite veinlets 5%, 10cm |
| | | | 15.8 – EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-23 claim 5009185, elev. 23
CONTRACTOR Heath & Sherwood LOCATION Easting: 624075 Northing: 5261950, lot 32, Rg 8, Guigues
DRILLER Jim Hoag BIT No. CB71086 BIT FOOTAGE 0 to 20 + 1068 = 126.6
MOVE TO HOLE 12:15 to 1:00 from GB-95-22
DRILL 1:00 to 3:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 15, 95
OTHER 3:15 to 3:30 Pull rods SHIFT TO
MOVE TO NEXT HOLE 3:30 to 5:15 To GB-95-24 TOTAL HOURS
GEOLOGIST Michel Ptasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Ptasse

Landowner: Robeet

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 0.4 - Tan-brown clay |
| | | | 0.4 to 13.5 - Grey varved clay |
| | | | [0.4-2.4] hard grey varved clay |
| | | | [2.4-13.5] grey varved clay |
| | | | [13.5-16.5] thicker silt beds |
| | | | 16.5 to 18.3 - Silt with fine Sand |
| | | | 18.3 to 18.6 - Thin Till Veneer |
| | | | Silty, Sandy, mod.-well compacted, poorly sorted till with 40-50% clasts: |
| | | | 60% matic Volc. |
| | | | 15% pink granite |
| | | | 10-15% diorite |
| | | | 5% limestone |
| | | | Note: Washed sample |
| | | | 18.6 to 20.0 - Bedrock |
| | | | Matic Volcanic, hard, slow drilling. |
| | | | 20.0 - EOH |
| 18.3 | | 5369 | |
| 18.8 | | | |
| EOH | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-24 claim 5009245, elev. 225
CONTRACTOR Heath & Sherwood LOCATION EASTING: 623050 NORTHING: 5261500, lot 30, Rg 9, Guigues Tw
DRILLER Jim Hoag BIT No. CB71087 BIT FOOTAGE 0 to 18.5 m
MOVE TO HOLE 3:30 to 5:15 Nov 15 From GB-95-23
DRILL 8:00 to 11:30 MECHANICAL DOWN TIME 11:30 to 11:45 change swivel
DRILLING PROBLEMS DATE Nov. 16, 95
OTHER 7:00 to 8:00 snow drifted, need GT to pull sleeve SHIFT TO
MOVE TO NEXT HOLE 11:45 to 12:15 To GB-95-25 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robideux CONTRACT HOURS

Michel Plasse

Landowner: Gaetan Lacroix

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 1.0 - Hard grey clay |
| | | | 1.0 to 14.0 - Grey varved clay |
| | | | [10.5-14.0] - metre thick silt beds, cm clay seams. - 5% fine in silt fraction from 13.5. |
| | | | 14.0 to 14.7 - Fine Sand |
| | | | 14.7 to 15.3 - Till |
| | | | Silty, Sandy, stoney, well compacted, mod. - poorly sorted Till with 60% clasts 80% Diorite 30-40% matic volc 10% granite 5% limestone - Diorite boulders & cobbles from 15.2m |
| | | | 15.3 to 15.9 - Diorite / Granodiorite Boulder. 10-15% pink granite. slightly mag. |
| | | 14.7 | |
| | | 5370 | |
| | | 15.3 | |
| | | NS | |
| | | 15.9 | |
| | | 5371 | 15.9 to 17.0 - Till |
| | | 5372 | 17.0 |
| | | | Silty, Sandy, well compacted, poorly sorted till with 50% clasts of: 40% matic volc. 20% diorite 10% granite 30% felsic volc. - Cobbly, bouldery from 16.2m |
| | | | 17.0 to 18.5 - Bedrock |
| | | | Matic Volcanic, coarse grained tr-2% pyrite, non-magnetic calcite veinlets at 17.1 & 18.1 |
| | | EOH | |

18.5 - EOH

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-25 claim 5009245, elev. 225
EASTING: 628480
CONTRACTOR Heath & Sherwood LOCATION NORTHING: 5261350, lot 30, Rg 9, Grenigues Twp
DRILLER Jim Hurley BIT No. CB71087 BIT FOOTAGE 0 to 6.2 + 18.3 = 24.
MOVE TO HOLE 11:45 to 12:15 from GB-95-24
DRILL 12:15 to 3:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 16, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 3:15 to 3:30 To GB-95-25A TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Gaetan Lacroix

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0 to 1.5 – Hard grey Varved clay |
| | | | 1.5 to 2.0 – Grey varved clay |
| 2 | | | 2.0 to 4.4 – Silt with Fine Sand |
| 3 | | | |
| 4 | | | 4.4 to 4.7 – Till |
| 4.4 | | 5373 | Silty, Sandy, mod. compacted, poorly sorted Till. Cobbely from 4.6m. 50% clasts content of: 70% matic Volc/Intr. 20% felsic Volc. 10% pink granite |
| 4.7 | | | |
| 5 | | | |
| 5.0 | | | |
| 6 | | | Note: very small sample, washing not successful |
| | EOH | | 4.7 to 6.2 – Bedrock |
| 7 | | | Diorite / coarse Baby Volcanics |
| | | | 6.2 – EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-25A, claim S009245, elev. 225

CONTRACTOR Heath & Sherwood LOCATION EASTING: 625500 NORTHING: 5261350, Lot 30, Rg 9, Guigues Tp

DRILLER Jim Hoang BIT No. CB71088 + bit sub BIT FOOTAGE 0 to 22.5

MOVE TO HOLE 3:15 to 3:30 from GB-95-25

DRILL 3:30 to 7:15 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE Nov. 16, 95

OTHER SHIFT TO

MOVE TO NEXT HOLE 7:15 to 8:15 Nov. 16, 7:00 to 9:15 Nov. 17 TOTAL HOURS

GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner: Gaetan Lacroix

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 16.2 - Grey varved clay |
| | | | [0-2.5] Hard |
| | | | [13.5-16.2] metre thick silt beds with Fine sand cm thick clay seams |
| | | | 16.2 to 17.1 - Sand |
| | | | 17.1 to 17.5 - Fine Sand & 20% Pebbles Silty, Sandy, poor-mod compacted, mod. sorted with 30% clasts; 70% matic Volc. 10% granite 15% felsic Volc. Very Sandy, fine Sand matrix. |
| | | | 17.5-18.0 - Boulder, coarse matic Volc. |
| | | | 18.0 to 20.8 - Till Silty, Sandy, very well compacted, poorly sorted till with 40-50% clasts: 60% matic Volc 15% felsic Volc. 20% granite [18.7-19.5] Cobbely, bouldery [19.5-20.5] Pebbely, stony: 40% matic Volc 40% felsic Volc 20% granite [20.5-20.8] Cobbely bouldery |
| | | | 20.8 to 22.5 - Bedrock cream colored felsic volcanic. |
| 17 | | 5374 | 17.1 |
| 17.5 | | NS | 17.5 |
| 18 | | | 18.0 |
| 19 | | 5374 | |
| | | | 19.5 22.5 - EOH |
| 20 | | 5375 | |
| 20.8 | | | |
| 21 | | | |
| 22 | | | |
| 23 | EOH | | |

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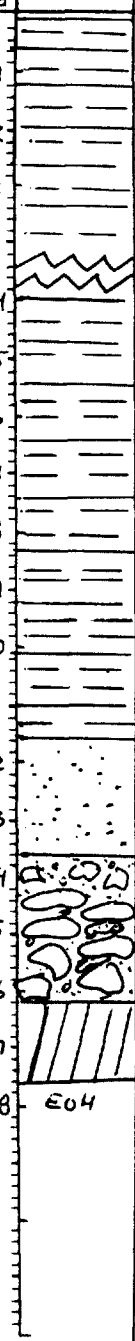
## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-26 claim 3142756, elev. 225m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620375 NORTHING: 5259950, Lot 25, Rg 6, Guigues Twp
DRILLER Jim Haug BIT No. CB 71088 BIT FOOTAGE 37.5+22.5=60
MOVE TO HOLE 7:15 to 8:15 Nov.16, 7:00 to 9:15 Nov.17 from GB-95-25A
DRILL 9:15 to 10:30 & 21:30 to 0:15 MECHANICAL DOWN TIME 9:30 to 9:45 change swivel
DRILLING PROBLEMS 10:30: driller thought rods were broken ran casing DATE Nov 17, 95
OTHER → Rods not broken SHIFT _____ TO _____
MOVE TO NEXT HOLE 1:00 to 2:00 & 9:45 to 11:00 To GB-95-27 TOTAL HOURS _____
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS _____
Michel Plasse

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–38 |  | | 0 to 31.5 – Grey banded clay<br>[25.5-31.5] 70-100 cm thick silt beds with sand., cm thick clay seams |
| | | | 31.5 to 33.6 – Fine Sand |
| | | | 33.6 to 36.1 – Till<br>[33.6-34.3] Silty, Sandy, well compacted, poorly sorted till with 50% clasts of: 50% matic volc.<br>10% pink granite<br>10% granite<br>20% Diorite<br>10% Siltstone |
| | | | [34.3-36.1] Cobbely, bouldery, silty, Sandy well compacted, mod. sorted till with 70% clasts:<br>50% matic volc<br>10% pink granite<br>30% Diorite<br>10% siltstone<br>- some good till between boulders. |
| 34 | | 5376 | 33.6 |
| 35 | | 5377 | 34.3 |
| 36 | | | 36.1 to 37.6 – Bedrock<br>36.1 Green matic Volc. / Diorite tr Py, calcite veinlets. |
| 38 | EOH | | 37.6 - EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GrB-95-27 claim 5009174, elev. 235m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 622425 Northing: 5262825, Lot 35, Rg 7, Garson Twp.
DRILLER Jim Haug BIT No. CB 70177 BIT FOOTAGE 0 to 14.1
MOVE TO HOLE 1:00 to 2:00 & 9:45 to 11:00 from GrB-95-26
DRILL 11:00 to 3:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 18, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 3:45 to 5:00 & 7:00 to 7:30 Nov #9 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–15 | | | 0 to 1.5 – Hard tan to grey clay<br>1.5 to 10.5 – Grey varved clay<br>[1.5–4.5] Hard<br>[8.5–10.5] metre thick silt beds cm thick clay seams<br>10.5 to 10.7 – Sand |
| | | | 10.7 to 10.9 – Boulder, matic Volc. |
| | | | 10.9 to 12.6 – Till<br>Silty, Sandy, well compacted, mod. sorted bouldery till. 70% clasts of:<br>60-70% matic volc/intr.<br>20% pink granite<br>15% siltstone<br>– Rx. Horn. matrix |
| | | | [11.2–11.7] Diorite Boulder<br>[12.0–12.5] clasts size: cobbles |
| | | 10.7 | |
| | | 5378 | |
| | | 11.2 | |
| | | NS | |
| | | 11.7 | |
| | | 5379 | |
| | | | 12.6 to 14.2 – Bedrock<br>Matic Volcanic, 1-2% Pyrite |
| | | EOH | |
| | | | 14.2 – EOH |

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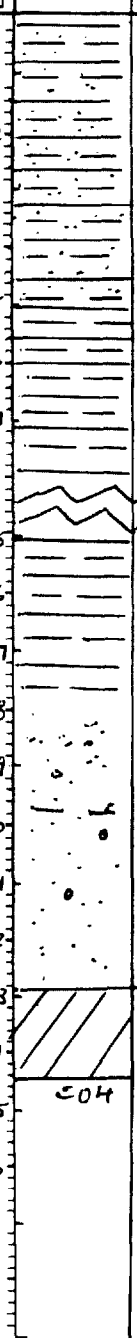
## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-28 claim 5142745, elev. 218
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620480 NORTHING: 5262775, Lot 36, Rg 6, Guigues Twp
DRILLER Jim Haug BIT No. CB71077 BIT FOOTAGE 345+14.1 = 486
MOVE TO HOLE 7:00 To 7:30 + 3:45 5:00 (Nov 18) Comm GB-95-27
DRILL 8:00 to 9:30 MECHANICAL DOWN TIME 7:30 to 8:00 change swivel
DRILLING PROBLEMS DATE Nov. 19, 95
OTHER 9:30 to 9:45 SHIFT TO
MOVE TO NEXT HOLE 9:45 to 10:00 To GB-95-28A TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Gaetan Lacroix

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–36 |  | | 0 to 5.0 – Tan-brown varved clay with sand in silt fraction<br><br>5.0 to 28.0 – Grey varved clay<br><br>28.0 to 32.9 – Fine sand with trace silt & some (1-5%) dropstones<br><br>32.9 to 34.5 – Bedrock<br>coarse mafic volcanic/diorite<br>[34.0] cm calcite veinlet<br><br>34.5 – EOH |

EOH

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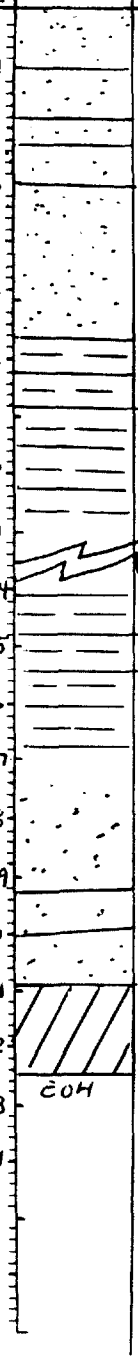
## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-28A claim 5142745, elev 2
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620450 NORTHING: 5262825, Lot 36, Rg 6, Grenfell Twp
DRILLER Jim Hough BIT No. CD71077 BIT FOOTAGE 32.5+48.6=81.
MOVE TO HOLE 9:45 to 10:00 from GB-95-28
DRILL 10:00 - 11:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 19, 95
OTHER 11:15 to 11:30 pull rods SHIFT TO
MOVE TO NEXT HOLE 11:30 to 11:45 To GB-95-29 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Land owner : Gaetan Lacoin

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–34 |  | | 0 to 5.4 – Fine sand with cm clay seams (lacustrine)<br>5.4 to 27.5 – Grey varved clay [25.5-27.5] ≃ 70 cm thick silt beds cm thick clay<br>27.5 - 30.9 – Fine sand with cm clay seams<br>30.9 to 32.5 - Bedrock<br>Green matic volcanic coarse grained.<br>32.5 - EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-29 claim 5142745, elev 218-

CONTRACTOR Heath & Sherwood LOCATION CASTING: 620695 NORTHING: 5262750, Lot 36, Pg 6, Guigues Tw

DRILLER Lisa Hovey BIT No. CB71077 BIT FOOTAGE 0-36.1 + 81.1 = 117

MOVE TO HOLE 11:30 to 11:45 from GB-95-28A

DRILL 11:45 to 3:00 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE Nov. 19, 95

OTHER 3:00 to 3:15 pull rods SHIFT TO

MOVE TO NEXT HOLE 3:15 to 4:00 To GB-95-30 TOTAL HOURS

GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner : Gaetan Lacroix

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 1.2 – No Return |
| 1 | | | 1.2 to 6.4 – Fine Silty Sand with cm clay seams |
| 2 | | | |
| 3 | | | 6.4 to 31.0 – Grey varved clay |
| 4 | | | [19.5 - 28.5] m thick silt beds cm clay seams |
| 5 | | | |
| 6 | | | [28.5 to 31.0] coarse silt with cm clay seam |
| 7 | | | |
| 8 | | | 31.0 to 33.5 – Fine Sand |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 23 | | | 33.5 to 34.6 – Till |
| 24 | | | Cobbely, Silty, Sandy, well compacted, mod to poorly sorted till. 50% clasts of: |
| 25 | | | 60-70% matic volc. |
| 26 | | | 10-20% pink granite |
| 27 | | | 15-20% siltstone |
| 28 | | | matrix not well developed : mostly Rock grit |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| 32 | | | |
| 33 | | | |
| 34 | | 5380 | 33.5 |

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### REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GB-95-29 Pg 2of2

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST Michel Plante SAMPLER _____ CONTRACT HOURS _____

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 34.6 | | 5380 | 34.6 to 36.1 - Bedrock<br>Diorite / granodiorite |
| 35 | | | |
| 36 | | | 36.1 - EOH |
| | EOH | | |
| 37 | | | |
| 38 | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-30 claim 5134379, elev. 22

CONTRACTOR Heath & Sherwood LOCATION EASTING : 621350 NORTHING : 5264150, Lot 40, Rg 7, Guigues Twp

DRILLER Jim Hovey BIT No. CB71077 BIT FOOTAGE 37.5 + 117.2 = 15

MOVE TO HOLE 3:15 to 4:00 from GB-95-29

DRILL 4:00 to 6:30 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE Nov. 19, 95

OTHER 6:30 to 6:45 pull rods SHIFT TO

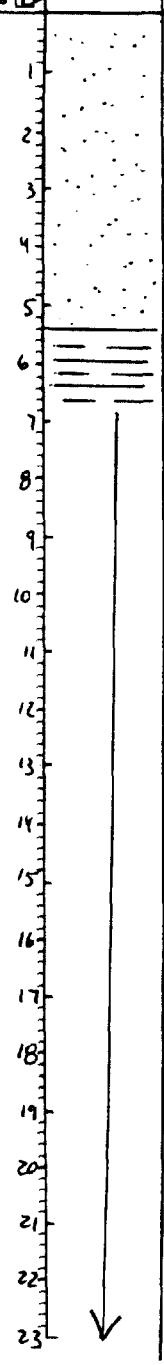
MOVE TO NEXT HOLE 7:15 to 7:45 (Nov 20, 95) TOTAL HOURS

GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner : Richard Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 5.4 | | | Sand<br>[0-1] med-fine sand<br>[1-4] coarse sand<br>[4-5.4] Fine sand |
| 5.4 to 27.8 | | | Grey varved clay<br>[24.5-27.8] thicker silt beds |
| 27.8 to 34.2 | | | Coarse Silt & Fine Sand wit un clay seams |
| 34.2 to 35.5 | | | Fine Sand |



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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GB-95-30 pg 2 of 2
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE _____
OTHER _____ SHIFT _____ TO _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST Michel Plante Michel Plante SAMPLER _____ CONTRACT HOURS _____

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 | | | 35.5 to 35.9 - Till |
| 25 | | | Silty, Sandy, well compacted, mod sorted cobbely, bouldery Till. 50% clasts of: |
| 26 | | | 50-60% matic volc, |
| 27 | | | 25% granite |
| 28 | | | 20% siltstone |
| 29 | | | - Washed sample |
| 30 | | | 35.9 to 37.5 - Bedrock |
| 31 | | | Matic Volcanic (Baby Volc.) |
| 32 | | | 37.5 - EOH |
| 33 | | | |
| 34 | | | |
| 35 | | | |
| 36 | | 5381 | |
| 37 | | | |
| 38 | EOH | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-31 claim S134378, elev. 224m
CONTRACTOR Heath & Sherwood LOCATION Northing: 5264150, Lot 41, Bg 7, Guigues Twp
DRILLER Jim Hurry BIT No. CB71086 BIT FOOTAGE 0-0.40+126.8=166.
MOVE TO HOLE 7:15 to 7:45 from GB-95-30
DRILL 7:45 to 12:30 MECHANICAL DOWN TIME 8:30 to 9:00 change swivel
DRILLING PROBLEMS DATE Nov. 20, 95
OTHER 12:30 to 12:45 pull rods SHIFT TO
MOVE TO NEXT HOLE 12:45 to 1:30 To GB-95-32 TOTAL HOURS
GEOLOGIST Michel Plesse SAMPLER Larry Robicloux CONTRACT HOURS
Michel Plesse

Landowner: Laurier Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 2.4 | | | Coarse to med Sand with some pebbles |
| 2.4 to 30.6 | | | Grey varved clay<br>[25.5-30.6] m thick silt beds cm thick clay seams with sand in silt |
| 30.6 to 37.6 | | | Cobbely Till<br>Silty, Sandy, Cobbely, Bouldery Till. well compacted, mod-poorly sorted. 50-60% clasts of: 70% matic Volc. 10% felsic Volc. 15% granite 5% siltstone |
| | | | Matrix composed of 70% Rock silt. 80% matic volc. boulders from 34.0<br>[37.0-37.3] - matic volc. boulder |
| 37.6 to 40.0 | | | Bedrock<br>Matic volc., coarse grained, with 5% granite clyKelets. Not competent (fractured) |
| 40.0 - EOH | | | |

30.6
5382
34.5
5383
37.1
EOH

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-32 claim 5153133 elev. 216
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620375 NORTHING: 5264400 Lot 42, Rg 6, Guigues Tw
DRILLER Jim Young BIT No. CBT1079 + bitsub BIT FOOTAGE 0 - 37.5
MOVE TO HOLE 12:45 To 1:30 from GB-95-31
DRILL 1:30 To 3:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 20, 95
OTHER 3:45 to 4:00 pull rods SHIFT TO
MOVE TO NEXT HOLE 4:00 to 4:45 TOTAL HOURS
GEOLOGIST Michel Plasse Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Seege Lachapelle

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–39 | | | 0 to 4.0 - Medium to Coarse sand with cm clay seams |
| | | | 4.0 to 7.0 - Fine sand with silt and cm clay seams |
| | | | 7.0 to 30.6 - Grey varved clay |
| | | | [29.5-30.6] fine sand in metre thick silt beds, cm clay seams |
| | | | 30.6 to 33.2 - Fine Sand |
| | | | [32.9] cm clay seam |
| | | | 33.2 to 34.0 - Till |
| | | | Silty, Sandy, well compacted, poorly sorted till with 50% clasts of: 50% matic volc. 20% gneiss 10% granite 20 diorite |
| 33.2 | | 5384 | [33.5] cobbly, stony |
| 34.0 | | 5385 | 34.0 to 34.7 - Coarse Sand Sandy Till |
| 34.7 | | | Well compacted, mod sorted, med-coarse sand matrix, silt gravelly Till(?). 60-70% clasts: 30% matic volc, 15 to 20% gneiss 25-30% granite, 15% diorite |
| | | | 34.7 to 37.5 - Bedrock |
| | | | Meta volcanic, talc alteration biotite, Ultramafic? |
| | | | [37.0 to 37.3] clay fault gouge |
| EOH | | | 37.5 - EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-33 claim 5153140, elev. 216 m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620950 NORTHING: 5264575, Lot 43, Rg 7, Garrison Tw
DRILLER Jim Hoag BIT No. CB71079 BIT FOOTAGE 0 to 38.7 + 37.5 = 76.2
MOVE TO HOLE 4:00 to 4:45 (Nov 20) from GB-95-32
DRILL 7:15 to 10:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 21, 95
OTHER 10:00 to 10:15 pull rods SHIFT TO
MOVE TO NEXT HOLE 10:15 to 11:00 To GB-95-34 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robideux CONTRACT HOURS

Michel Plasse

Landowner: Laurier Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–40 | | | 0 to 2.0 – Fining upwards Sand fine to coarse<br>2.0 to 3.5 – Grey varved clay<br>[28.5-30.5] ± 80cm thick silt beds<br>[30.5-34.5] Silt with Sand and cm clay seams. Silt 30%.<br>34.5 to 36.2 – Fine Sand<br>36.2 to 37.2 – Till<br>[36.2-36.5] Silty, Sandy, mod compacted, mod sorted Till. 30% clasts of:<br>60% matic Volc.<br>10% pink granite<br>15% white granite<br>[36.5-36.8] Silty, Sandy, well compacted mod sorted, cobbely, stony Till. 50-60% clasts of<br>70% matic Volc.<br>10-15% pink granite<br>10% white granite<br>[36.8-36.9] Matic Volc. Boulder<br>37.2 to 38.8 – Bedrock<br>Matic Volc., fine to medium grained, non-mag<br>38.8 – EOH |
| 37 | | 5386 | |
| 39 | EOH | | |

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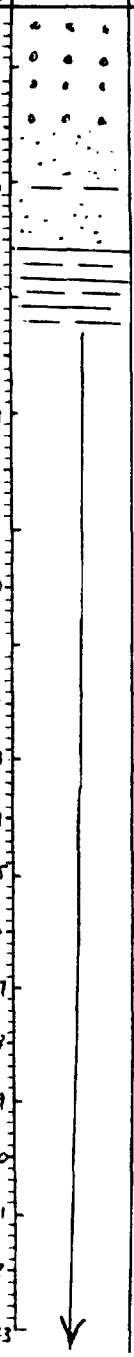
## REVERSE CIRCULATION DRILL HOLE LOG

Pg 1 of 2

COMPANY Sudbury Contact Mines HOLE No. GB-95-34 claim S153132, elev. 215±
CONTRACTOR Heath & Sherwood LOCATION Easting: 620050 Northing: 5264700, lot 43, Rg 6, Guigues Twp
DRILLER Jim Howg BIT No. CB71079 BIT FOOTAGE 0-46.5; 76.2-122
MOVE TO HOLE 10:15 to 11:00 from GB-95-33
DRILL 11:00 to 1:30 MECHANICAL DOWN TIME 2:00 to 2:15 fix GT track
DRILLING PROBLEMS DATE Nov. 21, 95
OTHER 1:30 to 2:00 pull rods SHIFT TO
MOVE TO NEXT HOLE 2:15 to 2:25 To GB-95-34A TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Lamin Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–23 |  | | 0 to 2.0 – Coarse Sand with some gravel<br><br>2.0 to 4.0 - Fine Sand with 5% silt<br><br>4.0 to 30.0 - Grey Varved clay<br>[23.0 to 30.0] 70 cm thick silt beds |

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### REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GB-95-34 pg 2 of 2

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

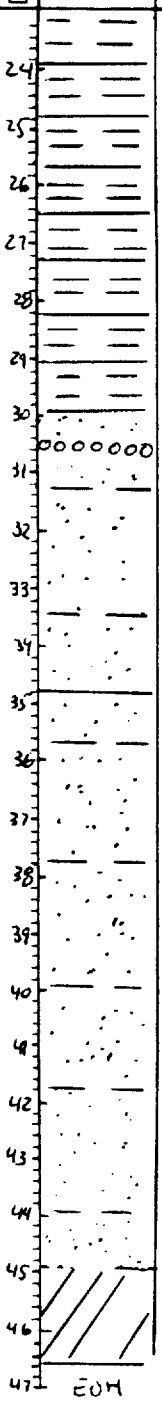
DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST Michel Plante SAMPLER _____ CONTRACT HOURS _____

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24–47 |  | | 30.0 to 44.9 - Fine Sand with 10-15% silt and cm clay seams.<br>[30.5] pebble layer<br><br>44.9 to 46.6 Bedrock<br>Fine grained matic Volcanic<br>tr- 1% dissiminated Pyrite<br><br>46.6 - EOH |

EOH

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## REVERSE CIRCULATION DRILL HOLE LOG



COMPANY Sudbury Contact Mines HOLE No. GB-95-34A, claim 5153132, elev. 215 m

CONTRACTOR Heath & Sherwood LOCATION EASTING: 620150 NORTHING: 5264700, lot 43, Rg 6, Guigues Twp

DRILLER Jim Hoag BIT No. SB71078 BIT FOOTAGE on 61.5

MOVE TO HOLE 2:15 to 2:25 FROM GB-95-34

DRILL 2:25 to 6:30 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE Nov. 21, 95

OTHER 6:30 to 7:15 pull rods SHIFT TO

MOVE TO NEXT HOLE 7:15 to 8:00 To GB-95-35 TOTAL HOURS

GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Michel Plasse

Landowner: Laurier Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–3 | | | 0 to 2.0 – Coarse Sand with some gravel<br>2.0 to 3.0 – Fine Sand |
| 4–7 | | | 3.0 to 30.0 – Grey varved clay<br>[27.0 to 30.0] 10 cm thick silt beds<br>30.0 to 54.6 – Fine Sand with 10-20% silt & some cm clay seams |
| 26–29 | | | 54.6 to 58.3 Till (stoney)<br>Silty, Sandy, very well compacted, poorly sorted till: 40-50% clasts of:<br>40% metic volc. (Pyrite)<br>30% diorite<br>15% pink granite<br>10% granite (white)<br>5-10% limestone |
| 30–34 | | | [54.9 to 55.1] cobbles, stoney<br>[55.3 to 55.4] cobbles<br>[56.3 to 58] cobbely, bouldery, matrix mostly Rock cut |
| 50–53 | | | |
| 54–56 | | 5387<br>5388 | 54.6<br>55.5 |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GB-95-34A pg 2 of 2

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

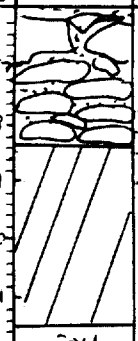
DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST Michel Plante SAMPLER _____ CONTRACT HOURS _____

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 57 |  | 5388 | 58.3 61.5 Bedrock |
| 58 | | 5389 | 57.7 58.0 fractured matic volcanic, 10% granite dykelets, some (<2%) massive sulphide globs |
| 59 | | NS | 58.9 |
| 60 | | 5390 | 59 |
| 61 | | | 61.5 - EOH |
| 62 | EOH | | |
| 63 | | | |

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**REVERSE CIRCULATION DRILL HOLE LOG** Pg 1 of 2

COMPANY Sudbury Contact Mine HOLE No. GB-95-35, claim S153132, elev. 215 m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 619400 NORTHING: 5264760, lot 43, Rg 6, Guigues Twp
DRILLER Jim Howg BIT No. CB71078 BIT FOOTAGE 70.5+61.5=132
MOVE TO HOLE 7:15 to 8:00 (Nov 21) + 7:00 to 7:30 Nov 22 from GB-95-34A
DRILL 7:30 to 19:30; 16:30-19:15 Nov 23 MECHANICAL DOWN TIME GT Transmission: 7:15 to 15:30 Nov 23
DRILLING PROBLEMS No Return, hole tightens up at 70.0m DATE Nov. 22, 95
OTHER 18:30 to 19:30 pull rods (Nov 22) SHIFT ____ TO ____
MOVE TO NEXT HOLE 19:15 to 20:00 (Nov 23, 95) TOTAL HOURS ____
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS ____

Landowner: Lauzon Jacques

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–5, 23–30, 45–54 | | | 0 to 2.4 – Fine sand with 10% silt<br>2.4 to 25.5 – Grey Varved clay<br>25.5 to 46.8 – Fine Sand some Pebbles & cm clay seams |
| 47–54 | | 5391 NS | 46.8 to 61.5 – Till |
| | | 5391 | 46.8 |
| | | 5392 | 47.2 |
| | | 5393 | 47.5 |
| | | 5394 | 48.4 |
| | | 5395 | 49.7 |
| | | 5396 | 51.9 |
| | | | 52.5 |
| | | | 53.5 |

[46.8–47.8] Silty, Sandy, gravelly, Pebbly Till. well compacted, poorly sorted. 40% clasts of:
50% PINK granite (GR)
30-40% Mafic Volc. (MV)
10-20% Diorite (MI)
– 47.2 to 47.5: PINK granite boulder
– 47.5 to 47.6: Cobbles & boulders 70% GR, 30% MV

[47.8 to 49.5] Silty, Sandy, Cobbely well compacted, mod sorted till. 50-60% clasts of:
60-70% MV, 30 to 40% GR
Pyrite (tr-10%) in MV.
5-10% gneissic granite (GN)
– 48.4 to 49.5: Mafic Volc

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GR-95-35 pg 2 of 2

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

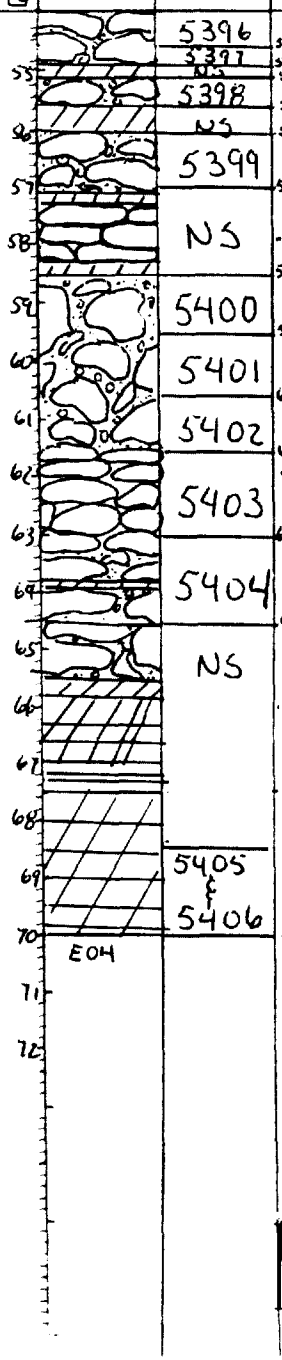
DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST Michel Plouffe SAMPLER _____ CONTRACT HOURS _____

DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG




[49.5 to 55.1] Silty, Sandy, gravelly, Pebbly till with 50 to 70% clasts of: 40-50% MV, 20-25 GR, 15 GN, IV/MV 10-15%
- cobbles at 53.8m
- 54.9 to 55.1: boulder of white gneissic granite

[55.1 to 65.5] Silty, Sandy, Cobbely, boulder Till. well compacted, mod. sorted. Matrix contains 60-70% Rock grit. 60% clasts of: 40-50% MV, 30-40% GR, IV/MV 1:2, 10-30 MS, tr-5% LS

[55.5-57.1] Pink magmatic granite boulder

[57.1-57.3] Gneissic granite boulder

[57.3-58.5] Granite(mag), Matic Volc boulders

[61.5-63.3] Cobbles & boulders 80% Rock grit (matrix)

[63.8-63.9] Meta volcanic boulder

[64.5-65.5] 5-10% clay balls in till(?). Cobbles & boulders.

65.5 to 68.8 - Boulders/fractured bedrock(?) with clay. pink granite dykelets in soft Meta Volcanic

[65.8-66.3] 30% granite dykelets

[66.3] clay seam

[66.6] clay & Meta volc.

[66.9-67.0] 20% clay in Meta Volc w GR dykelets

[67.0-67.5] gritty clay

[67.5-68.8] 10-20% clay in Meta Volc.

[68.8-70.0] 70 to 80% gritty in soft Meta volc?

Sample 5405: bedrock from bag & end buckets
5406: clay & Rock from Sieve

70.0m: EOH + hole too tight (too much friction) &

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## REVERSE CIRCULATION DRILL HOLE LOG

Pg 1 of 2

COMPANY Sudbury Contact Mines HOLE No. GB-95-36, claim S153138, elev. 215 m.
CONTRACTOR Heath & Sherwood LOCATION EASTING: 614400 NORTHING: 5264760, Lot 45, Rg 7, Guigues Tw
DRILLER Jim Haug BIT No. CR71080 + bit sub BIT FOOTAGE 0-6 51.2
MOVE TO HOLE 7:00 to 7:15 (Nov 24) + 7:15 to 8:00 (Nov 23) From GB-95-35; 7-7:15 Nov 24
DRILL 7:15 to 4:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 24, 95
OTHER 4:00 to 4:30 pull rods SHIFT TO
MOVE TO NEXT HOLE 4:30 to 5:30 To GB-95-36 TOTAL HOURS
GEOLOGIST Michel Plesse SAMPLER Larry Robichaux CONTRACT HOURS

Michel Plesse

Landowner: Serge Lachapelle

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 33.6 | | | Grey Varved clay |
| 1–3 | | | [31.0-33.6] Very Fine Sand in silt beds |
| 30–33 | | | 33.6 to 39.7 – Fine Sand, 20-25% silt |
| | | | [35.2] pebble layer |
| | | | [39.0-39.7] pebbles in sand |
| 34–39 | | | 39.7 to 49.5 – Till |
| | | | [39.7-40.0] Silty, Sandy, mod. compacted poorly-mod. sorted, till with 30% clasts of: 50% matic volc. (MV) 30% Granite (GR) 10-20% metased. (MS) 5-10% Limestone (LS) - Fine sand matrix with 15% silt |
| | | | [40.0-40.7] Granite boulder, magnetic (magnetite) |
| 40 | | 5407 | 39.7 |
| | | MS | 40.0 |
| 41 | | 5408 | 40.7 |
| | | | [40.7-43.8] Very well compacted, poorly sorted Silty, Sandy, Pebbely till with 40-50% clasts of: 50-60% MV 15% GR 20-25% MS 10% LS - Cobbely, bouldery from 43.7m |
| 42 | | 5409 | 42.0 |
| 43 | | | [43.8-44.0] Diorite/coarse matic volc. boulder |
| | | 5410 | 43.5 43.8 |
| 44 | | MS 5411 | 44.0 44.5 |
| 45 | | 5412 | 45.5 |
| 46 | | 5413 | 46.5 |
| | | | [44.0-49.5] Silty, Sandy, Cobbely, boulder well compacted, mod sorted till with 50% clasts of: 60-70% MV, 10% LS, 5-10% GR 15-25% MS. - Pyrite (1-10%) in MV clasts - 10-40% Rock grit in matrix |
| 47 | | 5414 | 47.5 |
| | | 5415 | 48.0 |
| 48 | | 5416 | 49.0 |
| 49 | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GB-95-36 pg 2 of 2
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE _____
OTHER _____ SHIFT _____ TO _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST Michel Plasse Michel Plasse SAMPLER _____ CONTRACT HOURS _____

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 50 | | 5417 | 49.5 | 49.5 to 51.2 - Bedrock<br>Mafic volcanic, silicified, medium grained texture. Pyrite 1-3%<br>[49.5 - 50.5] fractured, broken-up<br>[50.5+] competent<br>[50.4] 20 cm calcite vein |
| 51 | EOH | | 51.2 - EOH |
| 52 | | | |
| 53 | | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-37 claim 5153136, elev. 232
CONTRACTOR Heath & Sherwood LOCATION EASTING: 622075 NORTHING: 5265950, lot 47, Rg 7, Guigues
DRILLER Jim Hoey BIT No. C871081 BIT FOOTAGE 0 to 24+51.2=75.
MOVE TO HOLE 4:30 to 5:30 from GB-95-36
DRILL 5:30 to 7:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 24, 95
OTHER 7:15 to 7:45 pull rods SHIFT TO
MOVE TO NEXT HOLE 7:45 to 9:30 + 9:30 to 11:30 (Nov 25) TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Serge Lachapelle

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 5.0 – Tan-brown varved clay |
| | | | 5.0 to 16.0 – Grey varved clay |
| | | | [15.0 to 16.0] fine sand in silt fraction |
| | | | 16.0 to 19.0 – Fine Sand |
| | | | 19.0 to 19.7 – Boulder, magnetic pink granite (mtl) |
| | | | 19.7 to 22.3 – bouldery Till |
| | | | Silty, Sandy, Cobbely till, mod compact, mod sorted, 50% clasts of: |
| | | | 70-80% matic Volc/um ab Talc |
| | | | 10% white granite |
| | | | 5-10 pink granite |
| | | | 5-10 siltstone |
| | | | Matrix mostly Rock grit |
| | | | 22.3 to 24.0 – Bedrock |
| | | | [22.3-22.50 ft, talc Rich, matic Volc. |
| | | | [22.7+] 10cm section of competent, non-alt. volcanic |
| | | | 24.0 – EOH |
| 19 | | | 19.7 |
| 20 | | 5425 | |
| 22 | | | 22.3 |
| 24 | | | EOH |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-38 claim SD09714, elev. 225
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620800 NORTHING: 5258040, Lot 17, Rg 6, Guigues T.
DRILLER Jim Howe 9:45 to 10:30 NOV 24 BIT No. CB71081 BIT FOOTAGE 0 → 51.5 + 75.2 = 12
MOVE TO HOLE 9:30 to 10:30 Heat, 10:30 to 11:30 move to hole from GB-95-37
DRILL 11:30 to 4:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS 1:30 to 2:45 wait for water DATE Nov. 25, 95
OTHER 4:00 to 4:30 pull rods SHIFT TO
MOVE TO NEXT HOLE 4:30 to 5:00 TOTAL HOURS
GEOLOGIST Michel Plasse Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS

Landowner: Lise Gelinas

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 3.0 – Tan-brown varved clay with sand |
| 3.0 | | | 3.0 to 45.2 – Grey varved clay<br>[6.2-7.8] sand in silt fraction |
| 45.2 | | | 45.2 to 47.2 – Till<br>[45.2-46.2] Silty, Sandy, well compacted, poorly sorted till, 40-50% clasts of:<br>30% mafic Volc.<br>30% sericitic shist, Py 5% → Metased?<br>10% limestone<br>5-10% granite<br>10% siltstone |
| 46.2 | | | [46.2 to 46.5] Cobbely<br>[46.5 to 47.2] Silty, Sandy, bouldery till well compacted, mod sorted<br>50% clasts of:<br>60% sericitic schist → metased<br>20% mafic Volc.<br>10% granite<br>5% siltstone |
| 47.2 | | 5418 | 47.2 to 49.5 – Metased boulders |
| 49.5 | | | 49.5 to 51.5 – Bedrock<br>Hard, competent, Metasediment<br>20% mica |
| 51.5 | | | 51.5 – EOH |
| 52 | EOH | | |

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-39 claim 5009714, elev. 225m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 620100 NORTHING: 5258000, lot 17, Rg 6, Guigues
DRILLER Jim Hogg BIT No. CBT1081 BIT FOOTAGE 0 to 15.5 + 1267 = 14;
MOVE TO HOLE 4:30 To 5:00 (Nov 25) From GB-95-38
DRILL 7:30 to 9:15 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 26, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 9:15 to 10:00 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Lise Gelinas

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0 to 1.0 – Hard tan-brown clay |
| | | | 1.0 to 4.5 – Hard tan-brown clay possibly varved |
| | | | 4.5 to 9.0 – Grey varved clay |
| | | | 9.0 to 12.9 – Till |
| | | | [9.0 – 11.0] Silty, Sandy, mod compacted poorly sorted till. 40% clasts of: 20% matic Volc. 50% meta sed 20% Siltstone 10% limestone – well compacted from 10.5m |
| | | | [11.0 – 12.9] Cobbely, bouldery till |
| 9.0 | | | Silty, Sandy, well compacted, poorly sorted. 40% clasts of: 60% meta sed 20% siltstone 10% limestone 10% matic Volc. |
| 10 | | 5419 | |
| 11 | | NS | |
| 11.9 | | | Matrix: 30-40% Rock grit |
| 12 | | 5420 | [11.3 to 11.9] Pink arkosic metased Boulder in till |
| 12.9 | | NS | |
| 13 | | | 12.9 to 13.5 – Boulders of grey meta sediments (sandstone to micro conglomerate) |
| 14 | | | |
| 15 | | | |
| 16 | EOH | | |
| 17 | | | 13.5 to 15.5 – Bedrock |
| | | | Sericitized, Meta sediment Schist, 10% mica. |
| | | | [14.0+] Rusty |
| | | | 15.5 – EOH |

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TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mine HOLE No. GB-95-40 claim SD09714, elev. 225
CONTRACTOR Heath & Sherwood LOCATION EASTING: 619350 NORTHING: 5258100, Lot 17, Rg 6, Graham T.
DRILLER Jim Hovey BIT No. CB71081 BIT FOOTAGE 10+142.2=152
MOVE TO HOLE 9:15 to 10:00 From GB-95-39
DRILL 10:00 to 10:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 26, 95
OTHER SHIFT TO
MOVE TO NEXT HOLE 10:45 to 12:00 To GB-95-41 TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plasse

Landowner: Lisa Gelinas

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0 to 1.5 – tan-brown clay, sandy |
| 1 | | | 1.5 to 6.2 – Grey varved clay |
| 2 | | | |
| 3 | | | |
| 4 | | | 6.2 to 8.5 – Till |
| 5 | | | boulder, silty, sandy, well compacted, mod. sorted. 40% clast of: |
| 6 | | | 20% Arkose |
| 7 | | 5421 | 50% Limestone |
| 8 | | | 20% metased |
| 9 | | | 10% mafic Volc. in |
| 10 | EOH | | tr-2% clay balls, 40% Rock grit matrix |
| 11 | | | [7.4-7.5] Metased (sandstone) Boulder |
| | | | -Matrix is better from 7.5 to 8.5 m |
| | | | 8.5 to 10.0 - Bedrock |
| | | | Grainy Limestone |
| | | | 10.0 - EOH |

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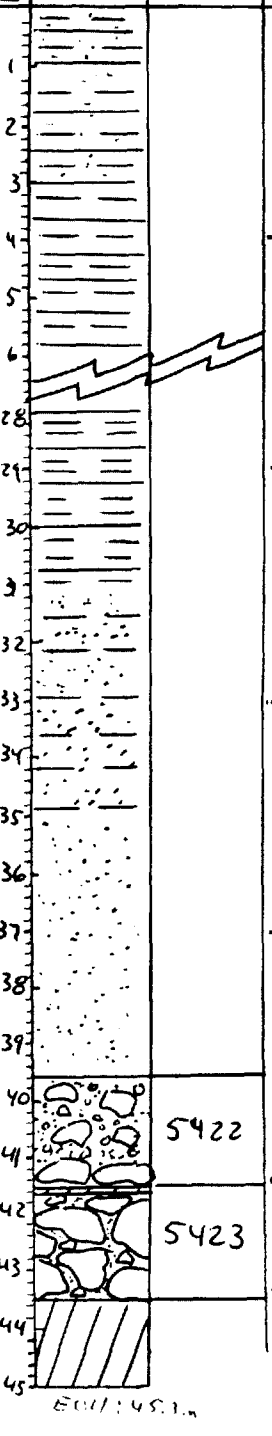
## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines HOLE No. GB-95-41 claim 5142756, elev. 225m
CONTRACTOR Heath & Sherwood LOCATION EASTING: 619825 NORTHING: 5260050, lot 25, Rg 6, Garigues
DRILLER Jim Hoag BIT No. CB71081 BIT FOOTAGE 0-43.3+153.2=19
MOVE TO HOLE 10:45 to 12:00 from GB-95-40
DRILL 12:00 To 2:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov 26, 95
OTHER 2:30 to 2:45 pull rods SHIFT TO
MOVE TO NEXT HOLE 2:45 to 3:00 To GB-95-42 TOTAL HOURS
GEOLOGIST Michel Plamondon SAMPLER Larry Robidoux CONTRACT HOURS
Michel Plamondon

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–45 |  | 5422 (39.6–41.5); 5423 (41.5–43.5) | 0 to 3.0 – Sandy tan-brown clay (varved)<br>3.0 to 31.0 – Grey varved clay<br>[28.0-31.0] 60:40 silt & clay sand in silt fraction<br>31.0 to 35.0 – Fine Sand with 50% silt<br>35.0 to 39.6 – Fine Sand<br>39.6 to 43.8 – Till<br>[39.6 to 41.5] Silty, Sandy, well compacted poorly sorted. 50% clasts of<br>30-40% mafic Vdc.<br>15-20% limestone<br>15% meta sed<br>10% granite<br>– 2-5% ssilty clay balls<br>[41.0-41.5] bouldery<br>[41.5-41.6] limestone boulder/cobble<br>[41.6-43.8] same bouldery till as before but clast content: 50% of<br>50-60% mafic Vdc<br>20-25% limestone<br>10% siltstone<br>10% granite<br>– bivalve fossils tr-1%<br>43.8 to 45.3 – Bed rock<br>Diorite / Granodiorite<br>39.6<br>45.3 – E.O.H.<br>41.5<br>43.5<br>EOH: 45.3m |

**W.A.H.UBACHECK CONSULTANTS LTD.**
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## REVERSE CIRCULATION DRILL HOLE LOG

Pg 1 of 2

COMPANY Sudbury Contact Mines HOLE No. GB-95-42 claim 5142756, elev. 225
EASTING: 619475
CONTRACTOR Heath & Sherwood LOCATION NORTHING: 5260000, Lot 25, Rg 6, Gunigum Tp
DRILLER Jim Howe BIT No. CB71091 BIT FOOTAGE 47.3+197.5=244
MOVE TO HOLE 2:45 To 3:00 from GB-95-41
DRILL 3:00 to 5:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE Nov. 26, 95
OTHER 5:45 to 6:00 Pull rods SHIFT TO
MOVE TO NEXT HOLE N/A Demobe TOTAL HOURS
GEOLOGIST Michel Plasse SAMPLER Larry Rebidoux CONTRACT HOURS
Michel Plasse

| DEPTH Feet ☐ Metres ☑ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 to 4.6 | | | 0 to 1.5 – tan-brown varved clay<br>1.5 to 35.2 – Grey varved clay<br>[4.2 - 7.0] metre thick silt bed w Fine Sand cm clay seams<br>[31.0 - 35.2] metre thick silt cm clay seam |
| 35.2 to 43.5 | | | 35.2 to 43.5 – Fine sand & coarse silt |
| 43.5 to 45.0 | | | 43.5 to 45.0 – Fine Sand |

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TORONTO, ONTARIO, CANADA

### REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. GB-95-42 ps 2 of 2

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST Michel Plasse Michel Plasse SAMPLER _____ CONTRACT HOURS _____

| DEPTH Feet / Metres | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 43 | | | 45.0 to 45.8 – Till (Sandy) |
| 44 | | | Silty, Sandy, well compacted, poorly sorted till. 40% clasts of: |
| 45 | | | 60% mafic Volc / Intr. |
| | | | 15% limestone |
| | | | 10-15% granite |
| | | | 10% siltstone |
| | | 5424 | 45.0 – Washed sample 45.8 |
| 46 | | | 45.8 & 47.3 – Bedrock |
| 47 | | | Diorite / Granodiorite |
| | EOH | | 47.3 – EOH |
| 48 | | | |
| 49 | | | |

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TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-01 (elevation 235 m)
LOCATION Guiges Township; 622225 E 5266000 N
Rang VII, Lot 48; claim number 5153135
CONTRACTOR Heath and Sherwood
BIT No. CB 71167 BIT FOOTAGE 0→22+102.2=124.2
new CB 71181 22→22.7=0.7
DRILLER Gyles Howg
MOVE TO HOLE walk back out to road 4 - 5:30; wait until Monday the 19th to float to GB-96-1 2 - 5; Mar 20 walk to hole and set up 9 - 11
DRILL 11 - 1:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 20,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 1:30 - 1:45 to GB-96-02
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0-1.5 buff silty clay with rare silt lenses |
| | | | 1.5-3.4 buff to mottled silty clay with rare silt |
| | | | 3.4-5.5 grey, rhythmically laminated silty clay and silt |
| | | | 5.5-15.5 soupy, laminated clay silt and silt with minor very fine sand laminae |
| | | | 15.5-16.5 mainly silt with rare clay laminae; rare dropstones |
| | | | 16.5-19.5 fining upward sequences from slightly pebbly fine to medium sand, to silt<br>19.5-20.2 pebbly fine sand<br>20.2-20.4 fine to very fine sand till<br>-moderately dense and compact<br>-fairly well sorted |
| 20.2<br>20.4 | | 5615 | -washed 3 times to get sample (get some of overlying sand)<br>-clasts ≈ 60%; 10%FI, 90%MV<br>20.4-22.7 bedrock:<br>-intermediate to mafic volcanics, quartz veins<br>-zones of sulfides, chalco, pyrite |
| 22.7 EOH | | | 22.7 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-02 (elevation 235 m)
LOCATION Guiges Township; 621900 E 5266000 N
Rang VII, Lot 48; claim number 515335
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71181
BIT FOOTAGE 0→21+0.7=21.7
MOVE TO HOLE 1:30 - 1:45 from GB-96-01
DRILL 1:45 - 3:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 20,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3:15 - 3:30 to GB-96-03
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-1.5 mottled silty clay |
| 2 | | | 1.5-4.5 grey clay with rare silt laminae |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | 4.5-13.5 grey, rhythmically laminated silt and clayey silt; increase in very fine sand laminae towards 13.5 |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | 13.5-16.5 fining upward sequences from very fine sand (rarely fine sand) to silt |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | 16.5-17.4 fine sand<br>17.4-18.4 pebbly fine to medium sand<br>18.4-19.2 fine sand till<br>-moderately dense and compact |
| 18 | | | 18.4 -clasts ≈ 70%; 85%MV, 10%FI, 5% QTZ,<5%MI |
| 19 | | 5614 | -not many cobbles or boulders<br>19.2 |
| 20 | | | 19.2-21 bedrock:<br>-dark green mafic volcanics with thin quartz veins<br>-sulfides including chalcopyrite |
| 21 | EOH | | 21 EOH |

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TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-03 (elevation 237 m)
LOCATION Guiges Township; 621600 E 5266000 N
Rang VII, Lot 48; claim number 5153135
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71181
BIT FOOTAGE 0→26.5+21.7=48.2
MOVE TO HOLE 3:15 - 3:30 from GB-96-02
DRILL 3:30 - 5
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 20,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 5 - 5:15 to GB-96-04
TOTAL HOURS
GEOLOGIST Jens Peterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 | | | 0-1 mottled, soil<br>1-3.1 buff silty clay with rare silt laminae |
| 11 12 13 14 15 16 17 18 19 | | | 3.1-17.6 grey, soupy, rhythmically laminated silt and silty clay<br>-@13.5 increase in silt, with rare very fine sand laminae |
| 20 21 22 23 24 25 26 27 | EOH | 5615<br>5616 | 17.6-19.7 fining upward sequences from fine sand to silt<br>19.7<br>19.7-24.8 fine sand till<br>-moderately dense and compact<br>-clasts ≈ 70%; 80% MV to IV, 10%FI (pink and white gr), 5%MI, 5%QTZ<br>22.2<br>-not much matrix<br>24.8-26.5 bedrock<br>24.8-24.9 dark green mafic volcanics<br>24.9-25.7 (#1) dark brown gabbro? (med grained)with thin quartz veinlets<br>25.7-26.5 dark green mafic volcanics with quartz veinlets<br>26.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-04 (elevation 238 m)
LOCATION Guiges Township; 621200 E 5266000 N
CONTRACTOR Heath and Sherwood — Rang VII, Lot 48; claim number 5153135
DRILLER Gyles Howg — BIT No. CB 71181 — BIT FOOTAGE 0→16+48.2=64.2
MOVE TO HOLE 5 - 5:15 from GB-96-03
DRILL 7 - 10:45 — MECHANICAL DOWN TIME 8:15-9:30 compressor drive coupling gone
DRILLING PROBLEMS — DATE March 21,1996
OTHER compressor down 7-9:30; drill with just water through clay 7-8:15; shut down 8:15-9:30 when near till — SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE move to road 10:45-11:15; float 11:15-12 to GB-96-05 — TOTAL HOURS
GEOLOGIST Jens Paterson — SAMPLER Gord Hume — CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–4 | | | 0-1 mottled soil<br>1-1.5 buff silty clay<br>1.5-4.5 tan silty clay with silt laminae |
| 5–8 | | | 4.5-13.4 grey to buff laminated silty clay and silt |
| 9–12 | | | -@ 10.5 get rare very fine sand laminae |
| 13 | | | 13.4-13.5 white granite boulder |
| 14 | | 5617 | 13.5-14.4 no return, but bouldery<br>-washed no return zone to get sample<br>-probably a washed till; not much matrix<br>-clasts ≈ 80%; 80%MV, 10%FI, 5%MI, 5%QTZ<br>-moderately sorted to poorly sorted? |
| 15–16 | EOH | | 14.4-16 bedrock: dark green mafic volcanics<br>-some thin quartz veins<br>-hard drilling<br>16 EOH |

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TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-05 (elevation 230 m)
LOCATION Guiges Township; 620800 E 5265650 N
Rang VI, Lot 46; claim number 515329
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. new CB 71182
BIT FOOTAGE 0→29.5
MOVE TO HOLE move to road 10:45-11:15 from GB-96-04; float 11:15-12 to GB-96-05
DRILL 12 - 1:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 21,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 1:30-5 drill off float; get excavator, 2nd float; float 5 - 5:30; Mar 22 walk to GB-96-06 7 - 8:15
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 | | | 0-0.8 ditch<br>0.8-1.5 mottled-buff silty clay<br>1.5-3.4 laminated silty clay and silt |
| | | | 3.4-19.5 grey, rhythmically laminated silt and silty clay |
| 16 17 18 19 20 21 | | | @ 10.5 get rare very fine sand laminae |
| | | | 19.5-22.5 fining upward sequences from fine sand to silty clay ≈ 0.4 m thick |
| 22 23 24 25 26 27 | | 5618 | 22.5-24.9 fine to very fine sand<br>24.9-25.7 washed till?<br>-not much matrix; clasts ≈ 80%, mainly pebbles to small cobbles<br>24.9<br>25.7-25.9 mafic volcanic boulder<br>25.9- better sandy till; more matrix<br>-moderately dense and compact<br>-clasts ≈ 60%; 15%Fl, 65%gn MV, 15% bl. MV, 5%qtz |
| 28 29 30 EOH | | | 27-29.5 bedrock: black and dark green ultramafic to mafic volcanics<br>-some serpentinization? talc? white to trans. mineral, soft<br>29.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-06 (elevation 216 m)
LOCATION Guiges Township; 619600 E 5265650 N
Rang VI, Lot 46; claim number 515129
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71182
BIT FOOTAGE 0→48.2+29.5=77.7
MOVE TO HOLE 1:30-5 drill off float; get excavator, 2nd float; float 5 - 5:30; Mar 22 walk to GB-96-06 7 - 8:15
DRILL 8:15 - 12:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 22,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 12:15 - 12:30 to GB-96-07
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

Jens Pat

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 |  | | 0-1 organics<br>1-1.5 mottled silty clay |
| 2 | | | 1.5-3 silty clay and silt |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | 3-22.5 grey, rhythmically laminated silt and silty clay |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | -@ 19.5 some minor very fine sand |
| 20 | | | |
| 21 | | | |
| 22 | | | 22.5-23.4 silt with rare fine sand laminae |
| 23 | | | |
| 24 | | | 23.4-25.5 laminated fine to very fine sand with rare silt lam. |
| 25 | | | |
| 26 | | | |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-06
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE March 22,1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 27 28 29 30 | | | 25.5-28.5 fine sand with rare dropstones |
| 31 32 33 34 | | | 28.5-33.4 fine sand with very fine sand laminae<br>33.4-34 slightly gritty fine sand with rare pebbles |
| 35 36 37 | | 5619<br>5620 | 34-39.7 fine to very fine sand till? probably gravel<br>-matrix very fine to coarse sand<br>-moderately dense and compact<br>-bouldery<br>-clasts ≈ 80%; 50% FI; 40%MV, 5%QTZ, 5%MI<br>-some matrix-poor zones |
| 38 39 | | 5621 | |
| 40 | FI | N.S. | 39.7-40.2 granite boulder |
| 41 42 | | 5622 | 40.2-42 gravel; increase in matrix |
| | FI | N.S. | 42-42.4 granite boulder |
| 43 44 45 | | 5623<br>5624 | 42.4-46.5 fine to very fine sand till<br>-clasts ≈ 60%; 15%FI, 70%MV, 15%MI<br>-harder than overlying gravel<br>-not as bouldery as overlying gravel |
| 46 47 | | 5625 | 46.5-46.7 harder, more compact fine to very fine sand till<br>≈ 40% small angular clasts; 80% MV, 20% FI<br>46.7-48.2 bedrock: mafic volcanics |
| 48 49 | EOH | | 48.2 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-07 (elevation 223 m)
LOCATION Guiges Township; 620000 E 5265650 N
Rang VI, Lot 46; claim number 515312-9
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71182
BIT FOOTAGE 0→23.2+77.7=100.9
MOVE TO HOLE 12:15 - 12:30 from GB-96-06
DRILL 12:30 - 2
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 22,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 2 - 2:15 to GB-96-08
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-1 organics |
| 2 | | | 1-6 buff silty clay |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | 6-12.5 grey, rhythmically laminated silty clay and silt |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | 12.5-13.5 laminated fine to very fine sand with rare silt |
| 14 | | | |
| 15 | | | 13.5-18.5 laminated fine sand with rare very fine sand laminae |
| 16 | | | |
| 17 | | | |
| 18 | | | 18.5-21.6 fine to very fine sand till<br>-moderately dense and compact<br>-poorly sorted<br>-few boulders<br>-clasts ≈ 60%; 15%FI, 70% MV, 5% QTZ, 10% MI |
| 19 | | | |
| 20 | | 5626 | |
| 21 | | 5627 | 21.6-23.2 mafic to ultramafic volcanics<br>-sulfides including chalco |
| 22 | | | |
| 23 | | | 23.2 EOH |

EOH

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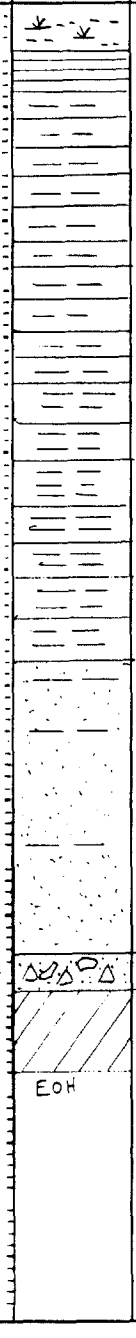
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

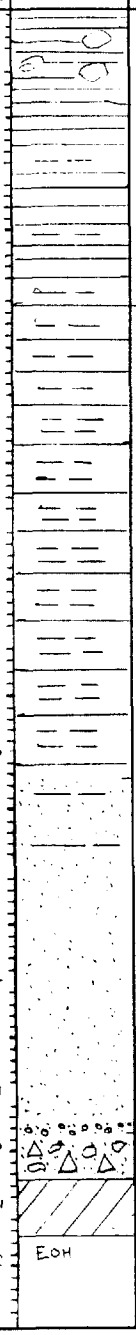
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-08 (elevation 223 m)
LOCATION Guiges Township; 620400 E 5265650 N
Rang VI, Lot 46; claim number 5153121
CONTRACTOR Heath and Sherwood
BIT FOOTAGE 0→18.7+100.9= 119.6
DRILLER Gyles Howg
BIT No. CB 71181
MOVE TO HOLE 2 - 2:15 from GB-96-7
DRILL 2:15 - 3:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 22,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3:30 - 3:45 to GB-96-08A
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 |   | 5628 | 0-0.8 mottled organics and clay silt<br>0.8-1.5 grey silty clay<br>1.5-11.5 grey, rhythmically laminated silt and silty clay<br>11.5-16.6 laminated fine to very fine sand; rare silt laminae<br>16.6-17.2 fine to very fine sand till?<br>-tough to tell because poor return; had to wash<br>-clasts ≈ 60%; similar composition to other tills<br>-very small sample<br>17.2-18.7 bedrock: mafic and ultramafic volcanics<br>-numerous thin quartz veins<br>-no visible sulfides<br>18.7 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

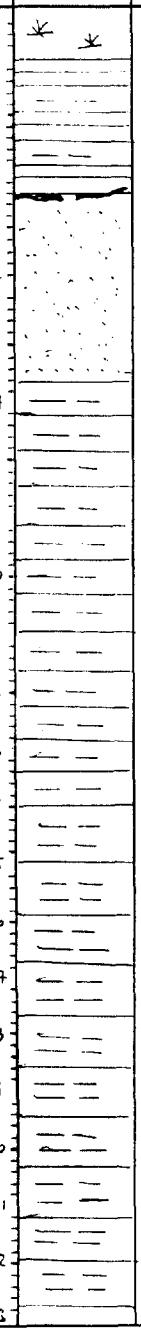
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-08A (elevation 223 m)
LOCATION Guiges Township; 620300 E 5265650 N
Rang VI, Lot 46; claim number 515312 '1
CONTRACTOR Heath and Sherwood
BIT FOOTAGE 0→21.5+119.6= 141.1
DRILLER Gyles Howg
BIT No. CB 71181
MOVE TO HOLE 3:30 - 3:45 from GB-96-08
DRILL 3:45 - 4:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 22,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE walk to road 4:45 - 5:45; float to next drill road 5:45 - 6:30; Mar 23 walk to GB-96-09 7 - 8:15
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 |   | 5629 | 0-1.5 mottled silty clay with gravel (anthropogenic)<br><br>1.5-4.5 buff silty clay<br><br>4.5-7.5 buff laminated silt and silty clay<br><br>7.5-13.5 grey, rhythmically laminated silt and silty clay<br><br>13.5-19.5 laminated fine to very fine sand, with a few discernible fining upward sequences from fine sand to sandy silt<br><br>19.5-19.7 gritty, slightly pebbly sand<br><br>19.7-20.5 washed till?<br>-not much matrix; fine to coarse sand<br>-not very bouldery<br>19.7 -moderately dense and compact<br>-clasts ≈ 70%; 70%MV, 15%FI, 5%QTZ, 10%MI<br>20.5 -wash to get sample<br><br>20.5-21.5 bedrock: mafic volcanics<br>-same as GB-96-08<br><br>21.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

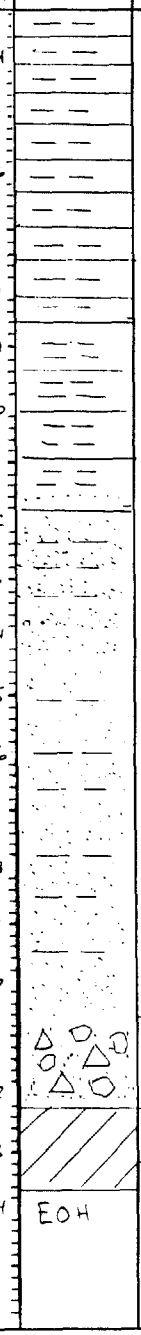
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-09 (elevation 208 m)
LOCATION Guiges Township; 620400 E 5261950 N
Rang VI, Lot 32; claim number 5142749
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. new CB 71184
BIT FOOTAGE 0→43.5
MOVE TO HOLE walk to road 4:45 - 5:45; float to next drill road 5:45 - 6:30; Mar 23 walk to GB-96-09 7 - 8:15
DRILL 8:15 - 10:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 23,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 10:30 - 12 to GB-96-10 (11:15 - 11:45 ran out of fuel for drill)
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 |  | | 0-0.8 organics<br><br>0.8-3 buff silty clay<br><br>3-3.1 thin wood layer<br><br>3.1-6.2 mottled, oxidized fine sand (alluvium?)<br><br>6.2-22.5 grey, rhythmically laminated silt and silty clay |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

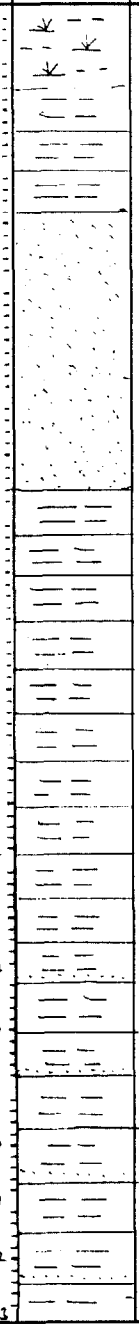
COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-09
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE March 23,1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 |   | 5630 | 22.5-28.5 grey, rhythmically laminated silt and clay<br><br>28.5-31.5 grey, laminated silt and clay silt with rare very fine sand laminae<br><br>31.5-33.6 fining upward sequences rom very fine sand to silt, ≈ 0.4 m thick<br><br>33.6-34.5 fine sand<br><br>34.5-40.7 fining upward sequences from fine sand to silt ≈ 0.4 m thick; rare pebbles in fine sand<br><br>40.7-42.1 washed till? (not much matrix)<br>-matrix fairly poorly sorted, very fine to coarse sand<br>40.7 -not very dense and compact<br>-clasts ≈ 80%; 15%FI, 70%MV, 10%MI, 5%QTZ<br>-washed twice to get sample<br>42.1<br>42.1-43.5 bedrock: mafic volcanics<br>-some visible sulfides; chalco, pyrite<br><br>43.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

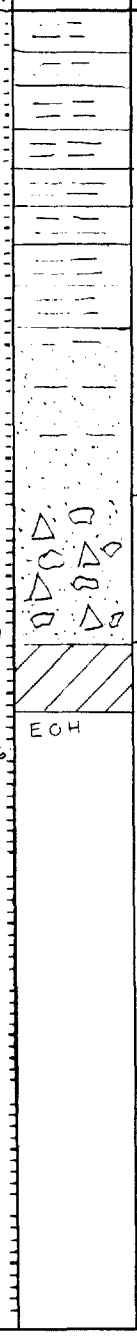
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-10 (elevation 210 m)
LOCATION Guiges Township; 620850 E 5261800 N
Rang VI, Lot 32; claim number 5142 349
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71184
BIT FOOTAGE 0→35.3+43.5=78.8
MOVE TO HOLE 10:30 - 12 from GB-96-09 (11:15 - 11:45 ran out of fuel for drill)
DRILL 12 - 3
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 23,1996
OTHER wait for water 1:45 - 2:30 (GT not filled in morning)
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3 - 3:45 to GB-96-11
TOTAL HOURS
GEOLOGIST Jens Patterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 |  | | 0-1.5 mottled organics and brown silty clay<br>1.5-3.6 laminated buff silty clay and silt<br>3.6-6.6 oxidized fine sand<br>6.6-8.5 grey very fine sand<br>8.5-22.5 grey, rhythmically laminated silt and silty clay with rare very fine sand laminae |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

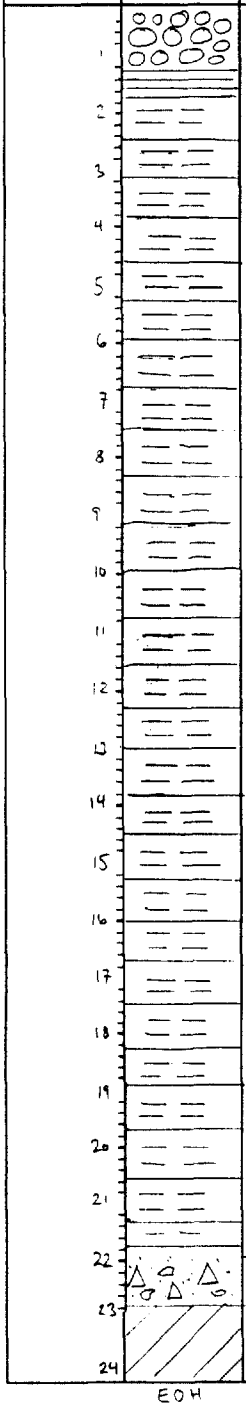
COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-10
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE March 23,1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 25 26 27 28 29 30 31 32 33 34 35 36 |   | 5631 | 22.5-28.5 grey, rhythmically laminated silt and silty clay<br><br>28.5-31.4 fining upward sequences from fine sand to silt = 0.5 m thick<br><br>31.4-33.8 washed till?<br>-matrix-poor; also poor return<br>-not very dense and compact<br>-clasts ≈ 80%; 5%FI, 80%MV and UMV, 10%MI<br>-washed 3 times to get sample<br><br>33.8-35.3 bedrock: mafic volcanics<br>-some sulfides visible; pyrite<br><br>35.3 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-11 (elevation 210 m)
LOCATION Guiges Township; 62 300 E 5261800 N
Rang VII, Lot 32; claim number 5cc9177
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71184
BIT FOOTAGE 0→24.1+78.8=102.9
MOVE TO HOLE 3 - 3:45 to GB-96-11
DRILL 3:45 - 5
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 23,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE Mar 23: walk out to road 5 - 6; Mar 24 walk to GB-96-12 7 - 8
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–24 |  | 5632 | 0-1.2 well sorted sandy gravel (beach?)<br>1.2-1.5 buff silty clay and silt<br>1.5-21.8 grey, rhythmically laminated silt and silty clay<br>21.8-22.6 fine to very fine sand till<br>-moderate return of clast and matrix<br>-moderately dense and compact<br>mafic volcanic boulders<br>21.8 -clasts ≈ 70%; 5%FI, 80%MV, 5%MI, 10%QTZ<br>22.6-24.1 bedrock: mafic to intermediate volcanics<br>22.6<br>24.1 EOH |

EOH

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-12 (elevation 231 m)
LOCATION Guiges Township; 622500 E 5263100 N
Rang VIII Lot 36; claim number 3151025
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71184
BIT FOOTAGE 0→33.1+102.9=13
MOVE TO HOLE Mar 23: walk out to road 5 - 6 from GB-96-11; Mar 24 walk to GB-96-12 7 - 8
DRILL 8 - 10
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 24,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 10 - 10:15 to GB-96-13
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0-1.5 ditch |
| | | | |
| | | | 1.5-13.5 grey, rhythmically laminated silt and clay silt |
| | | | 13.5-19.5 no return (rods blocked) |
| | NO RETURN | | |
| | | | 19.5-22.5 laminated silty clay and silt with rare very fine sand laminae |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-12
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE March 24,1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 | | | 22.5-25.4 fining upward sequences from very fine sand to silt ≈ 0.5 m thick |
| 25 | | | 25.4 |
| 26 | | 5633 | 25.4-26.2 gritty pebbly silty very fine sand diamict |
| 27 | | | 26.2-28.8 slightly silty fine to very fine sand till<br>-cobbly, bouldery<br>-clasts ≈ 70%; 5%FI, 85%MV, 10%MI<br>-moderately dense and compact |
| 28 | | 5634 | |
| 29 | MV | | 28.8 |
| 30 | | | 28.8-30.5 mafic volcanic boulder |
| 31 | | 5635 | 30.5 |
| 32 | | | 30.5-31.8 till |
| 33 | EOH | | 31.8 |
| | | | 31.8-33.1 bedrock: mafic volcanics |
| | | | 33.1 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

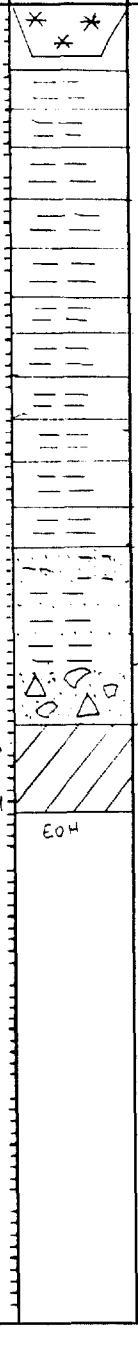
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-13 (elevation 236 m)
LOCATION Guiges Township; 622900 E 5263100 N
Rang VIII Lot 36; claim number 5159025
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. new CB 71185
BIT FOOTAGE 0→28.5
MOVE TO HOLE 10 - 10:15 from GB-96-12
DRILL 10:15 - 11:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 24,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 11:30 - 12 to GB-96-14
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0-1 snow and ditch |
| | | | 1-1.5 buff silty clay with pebbles |
| | | | 1.5-3.4 buff silty clay with silt laminae |
| | | | 3.4-22.5 grey, rhythmically laminated silt and silty clay |
| | | | -@ 10.5 get increase in silt content; laminated clay silt and silt with rare very fine sand laminae |
| | | | -@ 19.5 increase in clay content; laminated silt and silty clay |
| | | | 22.5-25.5 fining upward sequences from very fine sand to silt ≈ 0.6 m thick |
| | | | 25.5-27.1 fine sand till |
| 25.5 | | | -moderately dense and compact |
| | | | -poorly sorted; maybe washed? |
| | | 5636 | -few cobbles |
| | | | -clasts ≈ 75%; 10%FI, 80%MV, 5%siltst., 5%QTZ |
| 27.1 | | | 27.1-28.5 bedrock: mafic volcanics with thin quartz veins |
| | | | -pyrite |
| | | | 28.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

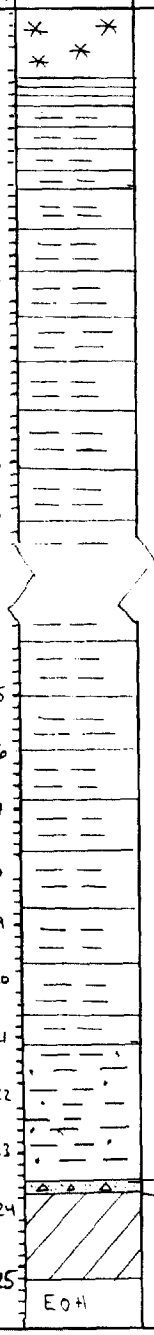
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-14 (elevation 235 m)
LOCATION Guiges Township; 623300 E 5263100 N
Rang VIII Lot 36; claim number 5159025
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71185
BIT FOOTAGE 0→14.1+28.5=42.6
MOVE TO HOLE 11:30 - 12 from GB-96-13
DRILL 12 - 1:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 24,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 1:45 - 2 to GB-96-15
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 |   | 5637 | 0-1 ditch and snow<br><br>1-7.5 buff laminated silty clay and silt<br><br>7.5-9.5 grey, rhythmically laminated silt and silty clay<br><br>9.5-10.2 buff to yellow brown silty, slightly gritty and pebbly very fine sand (poor return)<br><br>10.2-11.6 silt with rare very fine sand laminae; rare pebbles<br><br>11.6-12.6 fine to very fine sand till<br>-moderately dense and compact<br>-cobbly and bouldery<br>-clasts = 60%; 5%FI, 80%MV and UMV, 5%MI, 5%siltst.<br><br>12.6-14.1 bedrock: mafic to intermediate volcanics<br>-thin quartz veinlets<br>-pyrite<br><br>14.1 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-15 (elevation 230 m)
LOCATION Guiges Township; 623700 E 5263100 N
Rang VIII Lot 36; claim number 5159025
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71185
BIT FOOTAGE 0→25+42.6=67.6
MOVE TO HOLE 1:45 - 2 from GB-96-14
DRILL 2 - 3:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 24,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3:15 - 3:30 to GB-96-15A
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 |  | | 0-1 snow and ditch<br>1-1.5 buff silty clay with pebbles<br>1.5-3.2 buff laminated clay and silt |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 14 | | | 3.2-21 grey, rhythmically laminated silt and silty clay |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | 21-23.3 sandy silt and very fine sand |
| 23 | | | |
| 24 | | 5638 | 23.3-23.5 pebbly, gritty silty sand<br>23.1 -small sample<br>23.5<br>23.5-25 bedrock: mafic volcanics with sulfides , quartz veinlets |
| 25 | EOH | | 25 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

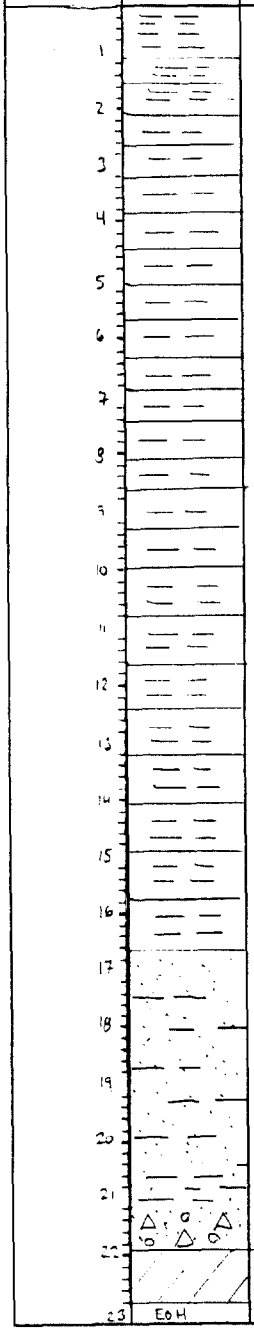
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-15A (elevation 231 m)
LOCATION Guiges Township; 623600 E 5263100 N
CONTRACTOR Heath and Sherwood
Rang VII, Lot 36; claim number 5159025
DRILLER Gyles Howg
BIT No. CB 71185
BIT FOOTAGE 0→22.7+67.6=90.3
MOVE TO HOLE 3:15 - 3:30 from GB-96-15
DRILL 3:30 - 4:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 24,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE Mar 25: float 8:30 - 9:15; walk 9:15 - 9:30 to GB-96-16
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-0.4 ditch<br>0.4-0.8 roadbed? |
| 2 | | | 0.8-1.5 buff silty clay |
| 3 | | | 1.5-4.5 buff silty clay with silt laminae |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | 4.5-19 grey, rhythmically laminated silt and silty clay |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | 19-20 slightly gritty sandy silt |
| 19 | | | 20-20.5 pebbly sandy silt |
| 20 | | | |
| 21 | | 5639 | 20.5 20.5-21.2 fine sand till; washed?<br>-moderately dense and compact<br>-moderately sorted<br>21.2 -clasts ≈ 80%; 80%MV, 10%FI, 5%IV, 5%QTZ |
| 22 | | | 21.2-22.7 bedrock: mafic volcanic |
| 23 | EOH | | 22.7 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-16 (elevation 237 m)
LOCATION Guiges Township; 624000 E 5263500 N
Rang VIII Lot 38; claim number 511745
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71185
BIT FOOTAGE 0→22.5+90.3=112.8
MOVE TO HOLE float 8:30 - 9:15; walk 9:15 - 9:30 to GB-96-16
DRILL 9:15 - 10:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 25,1996
OTHER tower down and wait for float 7 - 8:30
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE float 10:30 - 11:15; walk 11:15 - 12 to GB-96-17
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 |   | 5640 | 0-0.8 mottled clayey silt<br>0.8-1.5 buff to mottled silty clay with dropstones<br>1.5-16.5 grey, rhythmically laminated silt and silty clay<br>16.5-20.2 laminated silty very fine sand and silt with rare pebbles<br>20.2-21slightyl gritty, pebbly sandy silt<br>21-21.7 fine to very fine sand till<br>-washed till?<br>-clasts ≈ 80%; 10%FI, 85%MV, <5%MI, <5%QTZ<br>21.7-22.5 bedrock: mafic volcanic<br>22.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-17 (elevation 225 m)
LOCATION Guiges Township; 625300 E 5263300 N
CONTRACTOR Heath and Sherwood
Range X, Lot 37; claim number 515213
BIT No. CB 71185
BIT FOOTAGE 0→15.5+112.8=128
DRILLER Gyles Howg
new CB71186
15.5→16.5=1
MOVE TO HOLE float 10:30 - 11:15; walk 11:15 - 12 to GB-96-17
DRILL 12 - 2:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 25,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 2:30 - 2:45 to GB-96-18
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-1 mottled clayey silt |
| 2 | | | 1-1.5 buff silty clay and silt |
| 3 | | | 1.5-8.6 grey, rhythmically laminated silt and silty clay |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | 8.6-10.5 silty very fine sand with rare silt laminae |
| 10 | | | |
| 11 | | | 10.5-12.8 fine to very fine sand with pebbly lenses (fining upward sequences? |
| 12 | | | |
| 13 | | | 12.8-14.9 fine to very fine sand till (washed?) |
| 12.8 | | | -moderately dense and compact to loose |
| | | | -moderately sorted |
| 14 | | 5641 | -clasts ≈ 80%; 10%FI, 70%MVand UMV, 15%MI, 5%QTZ |
| 14.4 | | | -moderately cobbly, bouldery |
| | | 5642 | |
| 14.9 | | | |
| 15 | | | 14.9-16.5 bedrock: mafic volcanic |
| 16 | | | -medium-grained; thin quartz veins |
| 16.5 | | | 16.5 EOH |
| 17 | EOH | | -hole making water after pulling out; stopped after 5 minutes |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

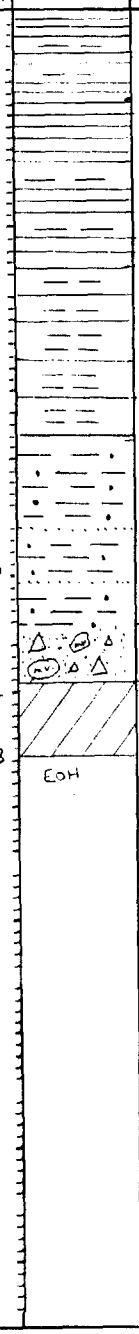
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-18 (elevation 230 m)
LOCATION Guigas Township; 624900 E 5263300 N
Rang IX , Lot 37; claim number 5152573
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71186
BIT FOOTAGE 0→14.7+1=15.1
MOVE TO HOLE 2:30 - 2:45 from GB-96-17
DRILL 2:45 - 4:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 25,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 4:30 - 4:45 to GB-96-19
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0-0.5 mottled silty clay (anthropogenic) |
| 1 | | | 0.5-4.5 buff silty clay |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | 4.5-9.2 grey, rhythmically laminated silt and silty clay |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | 9.2-11.8 sandy silt with rare grits and very fine sand laminae |
| 10 | | | |
| 11 | | | |
| 12 | | | 11.8-12.8 slightly pebbly fine sand |
| 13 | | 5643 | 12.8-13.2 fine sand till (washed?)<br>-moderately dense and compact<br>-not very cobbly, bouldery<br>-moderately soted<br>-clasts ≈ 80%; 10%FI, 80%MV, 5%MI, 5%QTZ |
| 14 | | | 13.2-14.7 bedrock: mafic volcanic<br>-trace pyrite visible |
| 15 | EOH | | 14.7 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

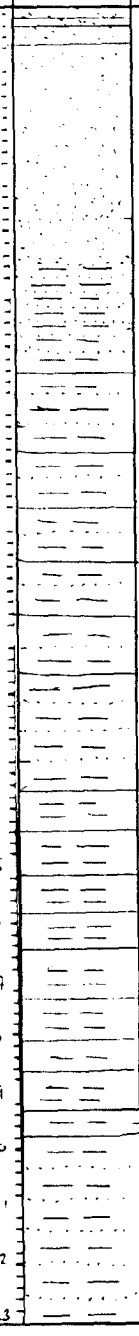
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-19 (elevation 237 m)
LOCATION Guiges Township; 624500 E 5263300 N
Rang IX, Lot 37; claim number 515073
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71186
BIT FOOTAGE 0→13.1+15.1=28.2
MOVE TO HOLE 4:30 - 4:45 from GB-96-18
DRILL 4:45 - 5:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 25,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE Mar 26 walk drill to road and wait for float 7 - 7:45; float 7:45 - 8:30; walk to GB-96-20 8:30 - 10
TOTAL HOURS
GEOLOGIST Jens Patterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 |   | 5644 | 0-0-4 buff silty clay<br><br>0.4-1.5 grey, rhythmically laminated silt and silty clay<br><br>1.5-4.5 clay with minor silt laminae; fairly compact with rare grits<br><br>4.5-7.5 grey to buff rhythmically laminated silt and silty clay<br><br>7.5-10.7 mainly silty very fine sand to sandy silt with rare grits and pebbles<br><br>10.7-11.6 fine sand till (washed?)<br>-moderately dense and compact<br>-not very cobbly, bouldery<br>-moderately sorted<br>-clasts ≈ 80%; 10%FI, 85%MV, 5%MI<br><br>11.6-13.1 bedrock: mafic volcanic with thin quartz veinlets, and visible trace pyrite/chalcopyrite<br><br>13.1 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-20 (elevation 225 m)
LOCATION Guiges Township; 620000 E 5261150 N
Rang VI, Lot 29; claim number 514252
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 71186
BIT FOOTAGE 0→44.7+28.2=72.
MOVE TO HOLE Mar 26 walk drill to road from GB-96-19 and wait for float 7 - 7:45; float 7:45 - 8:30; walk to GB-96-20 8:30 - 10
DRILL 11 - 3:30
MECHANICAL DOWN TIME 11:45 - 2
DRILLING PROBLEMS
DATE March 26,1996
OTHER GT fuel filter clogged 10 - 2; have to wait for GT 11:45 - 2
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3:30 - 3:45 to GB-96-21
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 |  | | 0-0.2 mottled silty clay with sand (anthropogenic)<br>0.2-3.6 buff fine sand<br>3.6-4.4 grey fine sand with minor very fine sand laminae<br>4.4-5.6 grey laminated silt and very fine sand<br>5.6-19.5 grey, rhythmically laminated clayey silt and silt to very fine sand<br>-@ 13.5 get laminated silty clay and silt<br>19.5-22.5 laminated fine sand with silt to very fine sand laminae |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

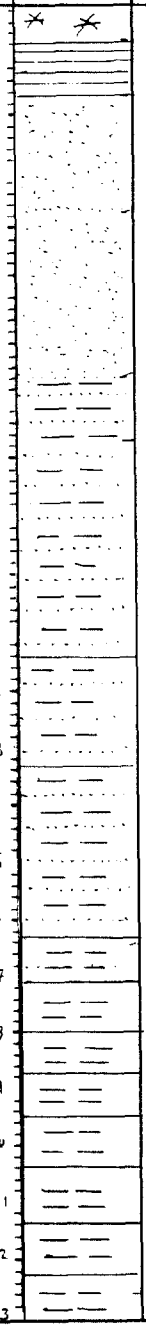
COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-20
CONTRACTOR LOCATION
DRILLER BIT No. BIT FOOTAGE
MOVE TO HOLE
DRILL MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE March 26,1996
OTHER SHIFT
MOVE TO NEXT HOLE TOTAL HOURS
GEOLOGIST SAMPLER CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 25 26 27 28 29 30 31 32 33 34 | | | |
| | | | 22.5-34.5 grey, rhythmically laminated silt and clayey silty |
| | | | -@ 31.5 start to see fine sand laminae |
| 35 36 37 38 39 | | | 34.5-40.5 fining upward sequences from fine sand to silt |
| 40 41 42 43 | | 5645 | 40.5-41.6 fine to very fine sand with dropstones<br>41.6-43.2 fine to very fine sand till<br>-moderately dense and compact<br>41.6 -fairly poorly sorted<br>-numerous cobbles, boulders<br>-clasts ≈ 70%; 10%FI, 50%MV, 30% UMV, 5%MI, 5%BIF? |
| 44 45 | EOH | | 43.2<br>43.2-44.7 bedrock: mafic and ultramafic volcanics<br>-trace pyrite<br>44.7 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

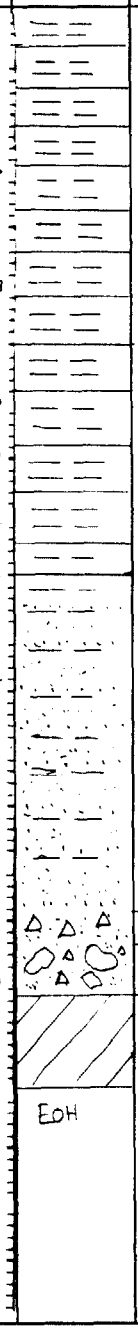
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-21 (elevation 225 m)
LOCATION Guiges Township; 620450 E 5261150 N
Rang VI, Lot 29; claim number 5142752
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. new CB 70190
BIT FOOTAGE 0→41.8
MOVE TO HOLE 3:30 - 3:45 from GB-96-20
DRILL 3:45 - 5:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 26,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 5:15 - 5:30 to GB-96-22
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 |  | | 0-0.4 snow<br>0.4-1.5 buff silty clay<br>1.5-3.6 buff to yellow fine sand<br>3.6-6.4 grey fine sand<br>6.4-7.5 grey, rhythmically laminated very fine sand and silt<br>7.5-16.5 grey, rhythmically laminated clayey silt and silty very fine sand<br>16.5-22.5 grey, rhythmically laminated silt and silty clay |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

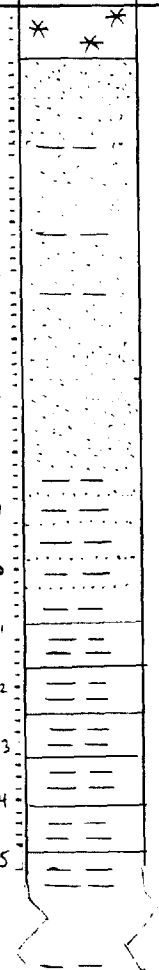
COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-21
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE March 26,1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 |   | 5646<br>5647 | 22.5-33 grey, rhythmically laminated silt and silty clay<br><br>33-38.8 fining upward sequences from fine sand to silt ≈ 0.5 m thick<br><br>38.8-39.4 fine to very fine sand till<br>-moderately dense and compact<br>-clasts ≈ 80%; 10%FI, 80%MV, 10%MI<br>-cobbly<br><br>39.4-40.2 till? fine to very fine sand matrix<br>-clasts ≈ 99%MV; lots of sulfides (sulfide-rich boulder?)<br>-moderately dense and compact<br><br>40.2-40.3 pink-orange silty clay balls with clasts of MV<br><br>40.3-41.8 bedrock: mafic to intermediate volcanic, thin quartz veins<br><br>41.8 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-22 (elevation 225 m)
LOCATION Guiges Township; 620800 E 5261150 N
Rang VI, Lot 29; claim number 514252
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 70190
BIT FOOTAGE 0→47.3+41.8=89.1
MOVE TO HOLE 5:15 - 5:30 from GB-96-21
DRILL 5:30 - 9
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE March 26,1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE walk out to road 9 - 10:30 ; Mar 27 float to Bucke Twshp
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–15 |  | | 0-0.8 snow<br>0.8-1.5 buff fine sand<br>1.5-6.5 buff fine sand with silt laminae<br>6.5-8.2 grey fine to very fine sand<br>8.2-10.5 grey, rhythmically laminated clay silt and silty very fine sand |
| 33–39 | | | 10.5-39.2 grey, rhythmically laminated silt and silty clay |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

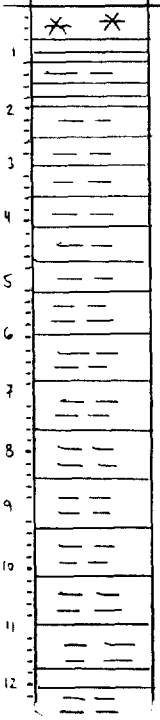
COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-22
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE March 26,1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 40 41 42 43 | | | 39.2-41 fining upward sequences from fine sand to silt ≈ 0.3 m thick<br>41-43.1 mainly fine to very fine sand, rare silt laminae |
| 43 44 45 46 | Fl | 5648 | 43.1-44.2 granodiorite boulder<br>44.2-45.5 fine sand<br>45.5-46.6 fine to very fine sand till<br>-moderately dense and compact<br>-clasts ≈ 80%; 10%Fl, 85%MV and UMV, 5%MI<br>-cobbly, bouldery<br>46.6-47 better matrix return, same till<br>-clasts ≈ 65%; 10%Fl, 80%MV and UMV, 5%MI, 5%QTZ |
| 46 47 | | 5649 | |
| 47 48 | F-IV | N.S. | 47-47.6 felsic to intermediate volcanic boulder<br>47.6-47.8 fine sand |
| 48 49 | | 5650 | 47.8-49.2 till; much softer drilling than overlying till |
| 49 50 | MV | N.S. | 49.2-49.5 mafic volcanic boulder |
| 50 51 | | 5651 | 49.5-51.8 fine to very fine sand till; noticeably less dense and compact; clasts mainly M to I volcanic, some Fl<br>-melt-out till? |
| 51 52 53 | | | 51.8-53.3 bedrock: felsic to intermediate volcanics<br>-making water in bedrock @ 52.5 |
| 53 54 | EOH | | 53.3 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-23 (elevation 225 m)
LOCATION Guiges Township; 619700 E 5260650 N
Rang VI, Lot 27; claim number 5142754
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 70190
BIT FOOTAGE 0→64+89.1=153.1
MOVE TO HOLE Mar 30: 1 - 2:30 walk to road; Mar 31: standby; April 1: float 8 - 10; walk to hole and raise rods10 - 12
DRILL April 1: 12 - 6; April 2 7 - 3:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 1,21996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3:30 - 3:45 to GB-96-24
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 |  | | 0-0.5 snow<br>0.5-1.5 buff silty clay to silt |
| | | | 1.5-34 grey, rhythmically laminated silt and clayey silt |
| 31 32 33 34 35 36 37 38 39 40 | | | -@ 13.5 grey, rhythmically laminated silt and silty clay<br>34-34.5 slightly sandy, gritty silt<br>34.5-39.5 fining upward sequences from fine sand to silty clay ≈ 0.5 m thick<br>39.5-40.5 mainly sandy silt |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-23
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE April 1,21996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 41 42 43 44 45 46 47 48 49 50 | | | 40.5-46.5 fining upward sequences from fine-to-medium sand to silt ≈ 0.5 m thick |
| | | | 46.5-50 laminated fine to very fine sand and sandy silt |
| 50 | | 5681 | 50-52.5 fine sand till<br>-moderately dense and compact<br>-moderately cobbly<br>-clasts ≈ 50%; 15%FI, 40%MV, 10%MI, 35%HMS: siltst., ls? |
| 51 | MV | N.S. | |
| 52 | | 5681 | |
| 53 | | 5682 | 52.5 |
| 54 | MV | | |
| 55 | | 5683 | |
| 56 | | 5684 | |
| 57 | MV | | 52.5-63.3 sandy till<br>-fairly loose to moderately dense and compact<br>-melt-out till?<br>-clasts ≈ 80%; 5%FI, 85%MV, 5%MI, 5%HMS<br>-cobbly, bouldery |
| 58 | | 5685 | |
| 59 | | | |
| 60 | | 5686 | |
| 61 | | | |
| 62 | | 5687 | |
| 63 | | | |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

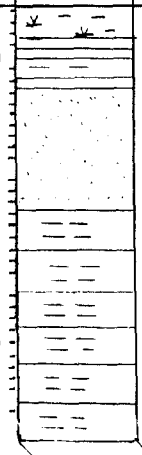
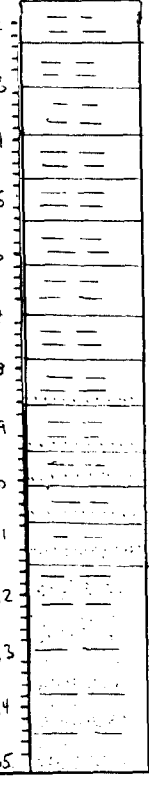
COMPANY Sudbury Contact Mines Ltd. | HOLE No. GB-96-23
CONTRACTOR | LOCATION
BIT No. old bit @ 64 m, new CB 70186 | BIT FOOTAGE 64→73.3, 73.3→85.5=12.2
DRILLER
MOVE TO HOLE
DRILL | MECHANICAL DOWN TIME
DRILLING PROBLEMS | DATE April 1,21996
OTHER | SHIFT
MOVE TO NEXT HOLE | TOTAL HOURS
GEOLOGIST | SAMPLER | CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 64 | MV | 5687 N.S. | 63.3-64.2 mafic volcanic boulder |
| 65 66 67 | | 5688 | 64.2-67.2 very fine sand to silt till<br>-moderately dense and compact (harder than above)<br>-clasts ≈ 70%; 10%Fl, 80%MV (with py), 5%Ml, 5%HMS<br>-poorly sorted |
| 68 | MV | N.S. | 67.2-67.6 mafic volcanic boulder |
| 69 | | 5689 | 67.6-70.6 till; fairly dense and compact |
| 70 | | N.S. 5690 | |
| 71 | | N.S. | 70.6-70.8 granite/granodiorite boulder |
| 72 | | 5690 | 70.8-72.6 sandy till; same as above |
| 73 | | 5691 | 72.6-73 balls of red clay with MV fragments, ls?, siltst.<br>-silty clay till?<br>72.6<br>73-73.3 grey silty clay with no clasts (glaciolac?)<br>73.3 |
| 74 75 76 | | 5692 | 73.3-74.5 more slightly gritty, pebbly silty clay till<br>-balls of till; clast poor ≈ 5%; Ls, some MV<br>-very hard drilling<br>74.5-76.3 grey silty clay<br>-almost no clasts; few grits |
| 77 | | | 76.3-76.5 sandy silt till |
| 78 79 | | 5693 | 76.5-81.5 slightly sandy clay silt till<br>-not as hard to drill<br>-clasts≈ 5-10%; 95%Ls, trace MV, Fl<br>-@78-79.5 clast-poor sandy clay silt silt |
| 80 81 | | 5694 | 79.5 |
| 82 | Fl | N.S. | 81.5<br>81.5-82.7 felsic to intermediate intrusive boulder<br>-grey, medium-grained; maybe clasts above are gy Fl clasts? |
| 83 84 | | | 82.7-84 sandy til; almost complety Fl boulders with very little matrix |
| 85 | | | 84-85.5 bedrock: felsic to intermediate intrusive with pink quartz veinlets |
| 86 | EOH | | 85.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-24 (elevation 225 m)
LOCATION Guiges Township; 619300 E 5260650 N
Rang VI, Lot 27; claim number S142754
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 70190
BIT FOOTAGE 0→57+12.5=69.5
MOVE TO HOLE 3:30 - 3:45 from GB-96-23
DRILL April 2: 3:45 - 6:30; April 3: 7 - 9:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 2,3 1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 9:30 - 11 to GB-96-25
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–7 |  | | 0-0.5 mottled soil<br>0.5-1.5 buff silty clay<br><br>1.5-3.5 buff fine sand |
| 22–35 |  | | 3.5-31.5 grey, rhythmically laminated silt and silty clay<br><br>-@ 28.5, get some very fine sand laminae<br><br>31.5-37.5 fining upward sequences from fine sand to sandy silt ≈ 0.5 m thick |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

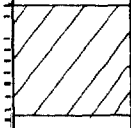
COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-24
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. old CB 70060 BIT FOOTAGE 57→58.1
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE April 2,3 1996
OTHER _____ SHIFT _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 36 37 38 39 40 41 42 43 44 45 46 47 48 49 | | | 37.5-49.7 fine sand |
| 50 51 | | 5695 | 49.7-54 fine to very fine sand till<br>-very matrix-rich; melt-out till or gravel?<br>-not very dense and compact<br>-clasts ≈ 50%; 20%FI, 40%MV, 20%MI, 20% red clay balls with MV fragments |
| 52 | | | 52.5 |
| 53 54 | | 5696 | 54-55.5 very bouldery till; not much matrix<br>-clasts ≈ 85%MI, 5%FI, 10%MV |
| 55 | | | 55.5-56 till |
| 56 | | 5697 | 56-56.8 mafic intrusive boulder<br>56.8-57.1 MI boulders, rare FI clasts, crushed MI rock fragments as matrix |
| | | N.S. | 56.8 |
| 57 | | 5698 | 57.1-58.1 bedrock: mafic intrusive; granodiorite? |
| | | | 57.1 |
| 58 | | | 58.1 EOHs |
| | EOH | | |

# W.A. HUBACHECK CONSULTANTS LTD.
## TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-25 (elevation 225 m)
LOCATION Guiges Township; 619250 E 5257300 N
Rang V, Lot 15a; claim number S12c 746
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. new CB 69483
BIT FOOTAGE 0→4.5
MOVE TO HOLE 9:30 - 11 from GB-96-24
DRILL 11 - 11:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 3 1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 11:45 - 12:15 to GB-96-26
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 2 |  | 5699 | 0-0.4 buff silty clay with limestone clasts<br><br>0.4-2.6 red-orange sandy silt clay till<br>-clasts: 70%Ls, 30%FI (boulder?), trace MV, MI<br>-moderately dense and compact to loose<br>-balls of sandy clay silt till |
| 3 4 |  | | 2.6<br>2.6-4.5 bedrock: limestone |
| 5 | EOH | | 4.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-26 (elevation 225 m)
LOCATION Guiges Township; 618850 E 5257500 N
Rang V, Lot 15a; claim number 5126 746
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 69483
BIT FOOTAGE 0→18.5+4.5=23
MOVE TO HOLE 11:45 - 12:15 from GB-96-25
DRILL 12:15 - 1:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 3 1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 1:30 - 1:45 to GB-96-27
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-1.3 organics |
| 2 | | | 1.3-1.5 buff silty clay with rare grits |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | 1.5-13.6 grey, rhythmically laminated silt and clayey silt |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | 13.6 |
| 15 | | 5700 | 13.6-16.3 fine to very fine sand till<br>-balls of clay silt till (not as many as GB-96-25)<br>-moderately dense and compact<br>-clasts ≈ 60%; 40%FI, 50%Ls, 5%MV and MI |
| 16 | | | 16.3 |
| 17 | | | 16.3-18.5 bedrock: limestone |
| 18 | | | |
| 19 | EOH | | 18.5 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-27 (elevation 225 m)
LOCATION Guiges Township; 618450 E 5257500 N
Rang V, Lot 15a; claim number 512674
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 69483
BIT FOOTAGE 0→22.5+47=69.5
MOVE TO HOLE 1:30 - 1:45 from GB-96-26
DRILL 1:45 - 2:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 3 1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 2:45 - 3:15 to GB-96-28
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0-1.5 organics, mottled soil |
| | | | 1.5-19 grey, rhythmically laminated silt and clayey silt |
| | | | 19-19.9 slightly gritty silt to very fine sand with rare silty clay laminae<br>19.9-20.6 fine to very fine sand till<br>-moderately dense and compact to loose<br>-moderately sorted<br>19.9 -clasts ≈ 60%; 30%Fl, 70%Ls, trace MV |
| | | 5701 | |
| | | 5702 | 20.6-22.5 silty clay carbonate-rich till<br>20.6 -100% Ls clasts<br>-gritty and pebbly silty clay matrix<br>-not very dense and compact |
| | | | 22.5<br>22.5-24 bedrock: limestone<br>24 EOH |

EOH

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-28 (elevation 225 m)
LOCATION Gulges Township; 618050 E 5257500 N
Rang V, Lot 15a; claim number 5120 746
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 69483
BIT FOOTAGE 0→22+69.5=91.5
MOVE TO HOLE 2:45 - 3:15 from GB-96-27
DRILL 3:15 - 4:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 3 1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE April 3: walk 4:15 - 4:30; float 4:30 - 6; walk partway to GB-96-29 6 - 6:30
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-1 organics |
| 2 | | | 1-1.5 silt with rare grits |
| 3 | | | 1.5-6.5 slightly sandy silt |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | 6.5-7.5 laminated silt with clay silt laminae |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | 7.5-19.4 grey, rhythmically laminated silt and silty clay |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 19.4 | | 5703 | 19.4-20.3 fine to very fine sand till<br>-moderately dense and compact to loose<br>-clasts ≈ 60%; 40%Fl, 60%Ls, trace MV, MI |
| 20 | | | |
| 20.3 | | | -few cobbles, boulders<br>-moderately sorted (melt-out?) |
| 21 | | | |
| 22 | EOH | | 20.3-22 bedrock: limestone |
| 23 | | | 22 EOH |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-29 (elevation 212 m)
LOCATION Guiges Township; 619200 E 5262000 N
Rang VI, Lot 33; claim number ~~S[illegible]~~ 5142748
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 69483
BIT FOOTAGE 0→43.5+91.5=135
MOVE TO HOLE April 3: walk 4:15 - 4:30; float 4:30 - 6; walk partway to GB-96-29 6 - 6:30; April 4: walk to GB-96-29 7 - 7:45
DRILL 7:45 - 3
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 4, 1996
OTHER wait for water 9 - 10 (H+S fault because was not filled in morning); wait again for water 11:15-1:30 because first load of water filled with cow urine
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE 3 - 3:15 to GB-96-30
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–4 | | | 0-1 mottled, slightly sandy silt<br>1-3.5 buff, laminated clay with silt |
| 5–11 | | | 3.5-12.5 grey, rhythmically laminated silt and clay |
| 12–13 | | 5704 | 12.5-13.1 poorly sorted sandy pebble to cobble gravel<br>-looks like a gravelly lag?<br>-some fine-grained matrix<br>-clasts of compact sandy diamict<br>13.1-13.7 slightly pebbly fine to medium sand<br>13.7-14 pebbly medium-to-coarse sand |
| 14–18 | | | 14-15 sandy pebble to cobble gravel<br>15-15.5 coarse to very coarse sandy gravel<br>15.5-16.2 well sorted, sandy pebble gravel<br>16.2-16.8 gravelly coarse to very coarse granular sand<br>16.8-17.2 gravelly fine sand<br>17.2-19.5 slightly pebbly medium-to-coarse sand |
| 19–23 | | | 19.5-22 pebbly coarse to very coarse sand<br>22-22.5 fine sand |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-29
CONTRACTOR LOCATION
DRILLER BIT No. new CB 70062 BIT FOOTAGE 43.5Æ55.5=12
MOVE TO HOLE
DRILL MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE April 4,1996
OTHER SHIFT
MOVE TO NEXT HOLE TOTAL HOURS
GEOLOGIST SAMPLER CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 24 | | | 22.5-24 fine to medium sand |
| 25 | | | 24-25.2 fine to very fine sand |
| 26 | | | 25.2-26.5 pebbly coarse to very coarse sand |
| 27 | | | |
| 28 | | | 26.5-29.5 sandy pebble gravel |
| 29 | | | |
| 30 | | | 29.5-30.6 gravelly fine to medium sand |
| | | | 30.6 |
| 31 | | | |
| 32 | | 5705 | 30.6-34 sandy pebble gravel; matrix very fine to medium sand |
| 33 | | | |
| 34 | | | 34 |
| 35 | | | |
| 36 | | 5706 | |
| 37 | | | |
| | | | 37.5 |
| 38 | | 5707 | |
| 39 | | | |
| 40 | | | 34-43.5 poorly sorted pebble to cobble gravel<br>-not much matrix; clast-supported gravel |
| | | | 40.5 -subrounded to subangular clasts; FI, MV, MI, HMS<br>-moderately dense and compact<br>-enough matrix for sample?<br>-drilling water has cow urine @ 40.5 |
| 41 | | 5708 | |
| 42 | | | |
| 43 | | | |
| | | | 43.5 |
| 44 | NO RETURN | | 43.5-44.7 no return, difficult to see because of foam from cow urine |
| 45 | | | 44.7-46 gravel? more bouldery, but decrease in poorly sorted matrix<br>-clasts ≈ 85%; 20%FI, 20%MI, 30%MV, 30%HMS |
| 46 | | | |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-29
CONTRACTOR ____ LOCATION ____
DRILLER ____ BIT No. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____ MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____ DATE April 4 1996
OTHER ____ SHIFT ____
MOVE TO NEXT HOLE ____ TOTAL HOURS ____
GEOLOGIST ____ SAMPLER ____ CONTRACT HOURS ____

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 47 | | | 46-48 pebbly coarse to very coarse sand |
| 48 | | | |
| 49 | | | 48-49.5 slightly sandy pebble gravel |
| 50 | | | |
| 51 | MV | | 49.5-50.8 pebbly fine to medium sand<br>50.8-51.2 mafic volcanic boulder |
| 52 | | 5709 | 51.2-54 fine to very fine sand till?<br>-not very dense and compact; gravel?<br>-few cobbles, boulders<br>-matrix looks like crushed mafic volcanic fragments<br>-clasts ≈ 60%MV, 20% HMS, 5%FI, 10%MI, 5%QTZ |
| 53 | | | |
| 54 | | | |
| 55 | | | 54-55.5 bedrock: felsic to intermediate intrusive; granodiorite?<br>-quartz veins<br>-some yellow brown iron oxide staining at 55; hematite? sulfides?<br><br>55.5 EOH |
| 56 | EOH | | |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

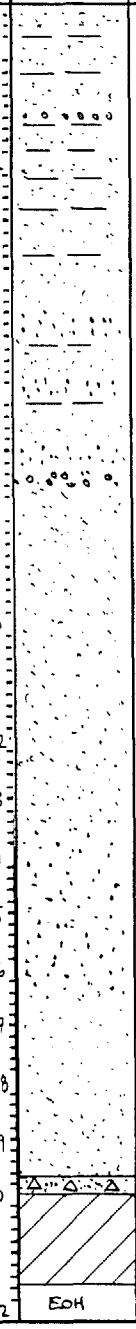
COMPANY Sudbury Contact Mines Ltd.
HOLE No. GB-96-30 (elevation 208 m)
LOCATION Guiges Township; 619700 E 5262100 N
Rang VI, Lot 33; claim number 5192748
CONTRACTOR Heath and Sherwood
DRILLER Gyles Howg
BIT No. CB 70062
BIT FOOTAGE 0→51.5+12=63.5
MOVE TO HOLE 3 - 3:15 from GB-96-29
DRILL 3:15 - 5
MECHANICAL DOWN TIME
DRILLING PROBLEMS
DATE April 4, 1996
OTHER
SHIFT 7 a.m. to 5 p.m.
MOVE TO NEXT HOLE walk out to road 5 - 6:25
TOTAL HOURS
GEOLOGIST Jens Paterson
SAMPLER Gord Hume
CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1–4 | | | 0-1.5 organics/mottled soil<br>1.5-2.5 buff fine sand<br>2.5-4 grey fine sand |
| 5–12 | | | |
| 13–21 | | | 4 - 27 grey, rhythmically laminated silt and clayey silt<br>- @ 13.5 laminated silt and clay |
| 22–27 | | | |
| 28–29 | | | 27-37.5 thin fining upward sequences from fine to very fine sand to silt = 0.5 m thick; rare pebbly fine to medium sand lags |

# W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd. HOLE No. GB-96-30
CONTRACTOR LOCATION
DRILLER BIT No. BIT FOOTAGE
MOVE TO HOLE
DRILL MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE April 4, 1996
OTHER SHIFT
MOVE TO NEXT HOLE TOTAL HOURS
GEOLOGIST SAMPLER CONTRACT HOURS

| DEPTH FEET METRES X | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 30 |  | | 27-37.5 thin fining upward sequences from fine to very fine sand to silt ≈ 0.5 m thick; rare pebbly fine to medium sand lags |
| 31 | | | |
| 32 | | | |
| 33 | | | |
| 34 | | | |
| 35 | | | |
| 36 | | | |
| 37 | | | 37.5-43.5 mainly fine sand with rare very fine sand laminae |
| 38 | | | |
| 39 | | | |
| 40 | | | |
| 41 | | | |
| 42 | | | |
| 43 | | | 43.5-46.5 fine to medium sand |
| 44 | | | |
| 45 | | | |
| 46 | | | 46.5-49.7 fine sand |
| 47 | | | |
| 48 | | | |
| 49 | | | 49.7-50 fine to very fine sand till |
| 49.7 | | 5710 | -moderately dense and compact |
| 50 | | | -clasts ≈ 60%; 20%FI, 50%MV, 10%MI, 20%HMS |
| 50 | | | 50-51.5 bedrock: mafic volcanic with quartz veins |
| 51 | | | -trace pyrite |
| 51.5 | EOH | | 51.5 EOH |
| 52 | | | |

# W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT MINES LTD. HOLE No. GB-96-31 (elevation 230m) CLAIM 5.58875

CONTRACTOR HEATH + SHERWOOD LOCATION GUIGES TNSHP; LOT 35 RANG 9; 624950E 5262790 N

DRILLER JIM HOWG BIT No. same bit BIT FOOTAGE 0→30.7+45.5 = 76.

MOVE TO HOLE NOV12 WALK TO RD FROM TRC-96-2; NOV13 WALK TO MAIN RD 9-10; FLOAT 10-12:30; WALK, SET UP + GET WATER THAW 7:45-9

DRILL 7-9:30 MECHANICAL DOWN TIME 12:30 - 2:45

DRILLING PROBLEMS DATE NOV 13, 14/96

OTHER SHIFT 7 a.m. TO 5 p.m.

MOVE TO NEXT HOLE WALK TO RD 9:30-9:45; FLOAT 9:45-10:15; WALK 10:15-10:30 TO GB-96-32 TOTAL HOURS

GEOLOGIST JENS PATERSON SAMPLER ROBERT PEEVER CONTRACT HOURS

LANDOWNER: WESCHTA.

| DEPTH Feet ☐ Metres ☒ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0-0.5 Soil |
| 2 | | | 0.5-3.5 tan silty clay with minor silt (hard). |
| 3 | | | |
| 4 | | | 3.5-4.5 grey, laminated cly (70%) + silt (30%); soupy |
| 5 | | | |
| 6 | | | 4.5 - 19.5 grey, laminated clay (50) + silt (50) |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 19 | | | 19.5 - 21.5 grey, laminated silt (70) + clay (30) -rare fine sand laminae. |
| 20 | | | |
| 21 | | | 21.5 - 21.6 fine sand |
| 22 | | | 21.6 - 22.5 - thin fining upward sequences vf sd to silt + cly -distal pulses |
| 23 | | | 22.5 - 25.8 - mainly fine sand with rare pebbly beds, -some thin med-coarse sand beds |
| 24 | | | -more proximal pulses. |
| 25 | | | -rare silt laminae |
| 26 | | 36756 | 25.8 25.8 - 28.7 fine sand till moderately dense + compact (some loose zones) |
| 27 | | 36757 | 27.1 clasts 60-70% 70 m.v., 10 granodior, 10 granite, 10 sy. |
| 28 | | 36758 | 28.5 sample contains some |
| 29 | | | 28.7 underlying bedrock |
| 30 | | | 28.7 - 30.7 - bedrock - matic volcanics (Baby volc.) - trace pyrite - qtz veinlets - weakly magnetic |
| 31 | EOH | | 30.7 EOH |

# W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT MINES LTD. HOLE No. GB-96-32 (elevation 230m) CLAIM 5158875

CONTRACTOR HEATH + SHERWOOD LOCATION GUIGES TNSHP. LOT 35 RANG 9; 625905E, 5263015N

DRILLER JIM HOWG BIT No. Same bit BIT FOOTAGE 0 → 23.7 + 76.2 = 99.

MOVE TO HOLE WALK TO RD FROM GB-96-31 9:30-9:45; FLOAT 9:45-10:15; WALK TO GB-96-32 10:15-10:30

DRILL 10:30 - 12:45 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE NOV 14/96

OTHER SHIFT 7a.m. TO 5 p.m.

MOVE TO NEXT HOLE WALK TO RD FROM GB-96-32 12:45-1; FLOAT 1-1:30 TOTAL HOURS

GEOLOGIST JENS PATERSON SAMPLER ROBERT PEEVER WALK TO GB-96-33 1:30-2. CONTRACT HOURS

Jens Paterson

LAND OWNER WESCHTA

| DEPTH Feet ☐ Metres ☒ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 1 | | | 0 - 2.5 hard, tan clay |
| 2 | | | |
| 3 | | | 2.5 - 4.5 grey, soupy, laminated clay (70) + silt (30) |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | 4.5 - 13.5 laminated silt (50) + clay (50) |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | 13.5 - 16.5 laminated silt (70) + clay (30) |
| 14 | | | |
| 15 | | | |
| 16 | | | 16.5 - 19.3 laminated silt with rare sd, cly (thin fining upward sequences) |
| 17 | | | |
| 18 | | | |
| 19 | | | 19.3 - 20.2 slightly pebbly, fine to medium sand |
| 20 | | | |
| 20.2 | | | 20.2 - 21.7 moderately dense + compact till, poorly sorted, matrix fine to coarse sand, clasts 60-70%; 75 mv., 15 granite, 5 qtz, 5 syenite |
| 21 | | 36759 | |
| 21.7 | | | |
| 22 | | | 21.7 - 23.7 bedrock, mafic volcanic, trace pyrite, qtz veinlets, weakly magnetic |
| 23 | | | 23.7 EOH |
| EOH | | | |

# W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

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## REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT MINES LTD HOLE No. GB-96-33 (elevation 235m) CLAIM 5009244

CONTRACTOR HEATH + SHERWOOD LOCATION GUIGES TWSHP. LOT 31 RANG 9; 625300E; 5261850N

DRILLER JIM HOWG BIT No. Same bit BIT FOOTAGE 0 → 15.3 + 99.9 = 115

MOVE TO HOLE WALK TO RD FROM GB-96-32 12.45-1; FLOAT 1-1.30; WALK TO GB-96-33 1:30-2

DRILL 2-4:15 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE NOV 14/96

OTHER SHIFT 7 a.m. TO 5 p.m.

MOVE TO NEXT HOLE WALK TO RD 4:15-4:45, FLOAT 4:45-5:15, NOV 15 WALK TO GB-96-34 7-7:30 TOTAL HOURS

GEOLOGIST JENS PATERSON SAMPLER ROBERT PEEVER CONTRACT HOURS

LANDOWNER: EMILION DARVEAUX

| DEPTH Feet ☐ Metres ☒ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| 0 | | | 0-0.5 SOIL |
| 1 | | | 0.5-4.5 GREY BROWN, HARD, SILTY CLAY |
| 2 | | | |
| 3 | | | |
| 4 | | | 4.5-7.5 GREY, SOUPY CLAY (50) + SILT (50) |
| 5 | | | |
| 6 | | | |
| 7 | | | 7.5-8.5 GREY, SOUPY SILT (70) + CLAY (30) |
| 8 | | | |
| 9 | | | 8.5-11.5 SILT, RARE CLAY LAMINAE. |
| 10 | | | |
| 11 | | | |
| 12 | | | 11.5-12.8 SLIGHTLY PEBBLY FINE-TO-MEDIUM SAND WITH RARE SILT LAMINAE |
| 13 | | 36760 | 12.8 12.8-13.3 FINE SAND TILL<br>13.3 MODERATELY SORTED (WASHED?)<br>SEEMS TO BE MATRIX-POOR<br>CLASTS 80% 30 GRANITE<br>30 GREEN MAFIC VOLC<br>15 "BLUE" GRANODIORITE<br>15 BLACK MAFIC VOLC<br>10 SYENITE<br>WASHED TO GET SAMPLE<br>SOME BEDROCK CHIPS IN SAMPLE |
| 14 | | | |
| 15 | | | 13.3-15.3 bedrock<br>MAFIC VOLC ANICS<br>TRACE PYRITE. |
| 16 | EOH | | 15.3 EOH |

# W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

Pg 1

## REVERSE CIRCULATION DRILL HOLE LOG

5159024

COMPANY SUDBURY CONTACT MINES LTD. HOLE No. GB-96-34 (elevation 232m) CLAIM ~~S107688~~

CONTRACTOR HEATH + SHERWOOD LOCATION GUIGES TWSP. LOT 37 RANG B 622970E, 5263325N

DRILLER JIM HOUG BIT No. NEW CB71205 BIT FOOTAGE 0 → 27.5

MOVE TO HOLE WALK TO RD FROM GB-96-33 3:45-4:15; FLOAT 4:15-4:45; WALK TO GB-96-34 7-7:30

DRILL 7:30 - 9:30 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE NOV 15/96

OTHER SHIFT 7 a.m. TO 5 p.m.

MOVE TO NEXT HOLE WALK TO RD 9:30-10:30; FLOAT TO LARDER LAKE 10:30-2 2-4:15 SET UP + WALK IN TOTAL HOURS

GEOLOGIST JENS PATERSON SAMPLER ROBERT PEEVER CONTRACT HOURS

Jens Pate

| DEPTH Feet ☐ Metres ☒ | GRAPHIC LOG | SAMPLE No. | DESCRIPTIVE LOG |
|---|---|---|---|
| | | | 0-0.25 soil |
| | | | 0.25 - 1.75 hard, tan clay |
| | | | 1.75 - 4.5 grey, soft clay (70) + silt (30) |
| | | | 4.5 - 19.5 laminated silt (50) + clay (50) |
| | | | 19.5 - 22.7 thin, distal fining-upward sequences from fine sand to silt (rare clay) |
| | | | 22.7 - 25.5 till (soft bedrock?) matrix - poor; looks like washed rk fragments but clasts 70 green mafic volc 15 FI 10 blue granodiorite 5 qtz some subrounded clasts too many lithologies for bedrock smooth drilling (relative to not bouncy like good till) no KIMS Ls. lots of return, full lead pail on 3m interval. @ 25m slightly less bouncy, bit harder |
| 22.7 | | | |
| | | 36761 | |
| 25.5 | | | 25.5 - 27.5 bedrock green mafic volcanics trace pyrite thin qtz veinlets |
| | | | 27.5 EOH |
| EOH | | | |

# APPENDIX C

# OVERBURDEN DRILLING MANAGEMENT RESULTS

W.A. HUBACHECK CONSULTANTS LTD.

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# DATA TRANSMITTAL REPORT

DATE: 12-Dec-95

ATTENTION: MSSRS. CHRISTIE, KNOWLES & JAMIESON

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393 (on hold)

PROJECT: 195 5328 to 5351

FILE NO: H1951NOK.WR1

NO. OF SAMPLES: 24

THESE SAMPLES WERE PROCESSED FOR: VISIBLE GOLD GRAINS
KIMBERLITE INDICATORS

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: visible gold grain count to follow shortly.

Remy Huneault
Laboratory Manager

# OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG: ABBREVIATIONS TABLE

## DATA LOG

**Clast:**

Size of Clast:
- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

% Clast Composition:
- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

**Matrix:**

- S/U: Sorted or Unsorted
- SD: Sand ——————— F: Fine
- ST: Silt | M: Medium
- CY: Clay | C: Coarse
- OR: Organics

- Y: Fraction Present
- +: Fraction relatively more abundant
- -: Fraction relatively less abundant
- N: Fraction Not Present
- L: Lumps Present

**Colour:**

| | | | |
|---|---|---|---|
| B: | Beige | PP: | Purple |
| GY: | Grey | PK: | Pink |
| GB: | Grey Beige | OC: | Ochre |
| GN: | Green | | |
| GG: | Grey Green | L: | Light |
| BN: | Brown | M: | Medium |
| BK: | Black | D: | Dark |

## GOLD LOG

Number of Grains:
- T: Number Found on Shaking Table
- P: Number Found by Panning

Thickness:
- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

Remarks:

| | |
|---|---|
| % | Percentage of HMC (estimate from panning of table concentrate) |
| gr. | Grains (estimated number) |
| uM | Microns (1/1000 mm) |
| py. | Pyrite |
| cpy. | Chalcopyrite |
| aspy. | Arsenopyrite |
| marc. | Marcasite |
| L/G | Limonite/Goethite |
| sid. | Siderite |

## KIM LOG

- GP: Purple garnet (G9/G10 chrome pyrope)
- GO: Orange mantle garnet; includes both eclogitic (G3) and Cr-poor megacryst (G1/G2) varieties; in some samples, may include a few grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces.
- DC: Chrome diopside, emerald green; paler green low-Cr diopside picked separately.
- IL: Picroilmenite; in some samples, may include a few grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces.
- CR: Chromite

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

12/12/95
PROJECT: 195
TOTAL OF 24 SAMPLES.
FILENAME: H195INOK.WR1

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK RECEIVED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | CLASTS >2.0 mm PERCENTAGE V/S | GR | LS | OT | MATRIX <1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | | | | | | |
| 5328 | 8.00 | 8.00 | 2.55 | 1.50 | 3.95 | C | 85 | 15 | 0 | 0 | U | + | Y | Y | BG | GY | N | TILL |
| 5329 | 16.40 | 16.40 | 4.20 | 3.05 | 9.15 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | GG | GY | N | TILL |
| 5330 | 13.10 | 13.10 | 0.40 | 0.50 | 12.20 | C | 40 | 60 | 0 | 0 | U | Y | + | + | GY | GY | N | TILL |
| 5331 | 19.35 | 19.35 | 2.65 | 2.40 | 14.30 | C | 80 | 20 | 0 | 0 | U | + | Y | Y | BN | GY | N | TILL |
| 5332 | 13.65 | 13.65 | 1.70 | 2.45 | 9.50 | C | 100 | 0 | 0 | 0 | U | + | Y | - | BG | GY | N | TILL/BDK |
| 5333 | 15.70 | 15.70 | 2.05 | 2.15 | 11.50 | C | 80 | 20 | 0 | 0 | U | Y | Y | Y | GB | GY | N | TILL |
| 5334 | 13.20 | 13.20 | 0.40 | 0.90 | 11.90 | C | 95 | 5 | 0 | 0 | U | + | - | Y | GB | GB | N | TILL |
| 5335 | 15.40 | 15.40 | 0.35 | 1.05 | 14.00 | C | 95 | 5 | 0 | 0 | U | + | - | Y | GB | GB | N | TILL |
| 5336 | 15.20 | 15.20 | 0.35 | 1.10 | 13.75 | C | 90 | 10 | 0 | 0 | U | + | - | Y | GB | GB | N | TILL |
| 5337 | 10.15 | 10.15 | 0.70 | 0.50 | 8.95 | C | 90 | 10 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5338 | 11.60 | 11.60 | 0.70 | 0.60 | 10.30 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5339 | 14.40 | 14.40 | 1.90 | 1.35 | 11.15 | C | 85 | 15 | 0 | 0 | U | + | - | Y | GB | GB | N | TILL |
| 5340 | 12.60 | 12.60 | 1.40 | 1.10 | 10.10 | C | 80 | 20 | 0 | 0 | U | Y | Y | Y | BB | GB | N | TILL |
| 5341 | 13.65 | 13.65 | 0.90 | 1.15 | 11.60 | C | 80 | 20 | 0 | 0 | U | Y | Y | Y | GB | BB | N | TILL |
| 5342 | 11.80 | 11.80 | 0.50 | 0.75 | 10.55 | C | 85 | 15 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5343 | 14.65 | 14.65 | 1.60 | 1.00 | 12.05 | C | 70 | 30 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5344 | 11.30 | 11.30 | 2.55 | 2.10 | 6.65 | C | 65 | 35 | 0 | 0 | U | + | - | Y | GB | GB | N | TILL |
| 5345 | 13.55 | 13.55 | 2.75 | 3.40 | 7.40 | C | 60 | 40 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5346 | 15.60 | 15.60 | 5.60 | 2.85 | 7.15 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | BN | GB | N | TILL |
| 5347 | 8.10 | 8.10 | 2.60 | 1.45 | 4.05 | C | 95 | 5 | 0 | 0 | U | Y | Y | Y | BN | GB | N | TILL |
| 5348 | 20.35 | 20.35 | 6.65 | 3.20 | 10.50 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | BN | B | N | TILL |
| 5349 | 13.45 | 13.45 | 3.80 | 2.70 | 6.95 | C | 95 | 5 | 0 | 0 | U | + | - | Y | BN | GB | N | TILL |
| 5350 | 11.55 | 11.55 | 2.85 | 2.50 | 6.20 | C | 95 | 5 | 0 | 0 | U | Y | - | Y | GG | GB | N | TILL |
| 5351 | 11.60 | 11.60 | 2.70 | 2.45 | 6.45 | C | 95 | 5 | 0 | 0 | U | Y | - | Y | BB | GB | N | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

12/12/95
PROJECT: 195
TOTAL OF 24 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE <1.0 mm (grams) | | | | | | | | KIM COUNT | | | | | | | TOTAL KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 mm | | | | | 0.25 TO 0.5 mm | | |
| | TOTAL | -0.25 mm | M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 mm | 0.25 TO 0.5 mm | -0.25 mm | TOTAL MAG | GP | GO | DC | IN | CR | GP | DC | |
| 195 | | | | | | | | | | | | | | | | |
| 5328 | 619.5 | NA | 567.5 | 39.3 | 4.1 | 7.7 | 27.5 | 12.7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| 5329 | 1182.5 | NA | 1064.8 | 98.3 | 8.3 | 17.3 | 72.7 | 19.4 | 5 | 0 | 2 | 3 | 2 | 75 | 3 | 90 |
| 5330 | 1206.6 | NA | 1062.0 | 120.2 | 2.7 | 6.9 | 110.6 | 24.4 | 1 | 0 | 0 | 2 | 0 | 31 | 2 | 36 |
| 5331 | 1514.2 | NA | 1300.0 | 181.0 | 9.5 | 19.0 | 152.5 | 33.2 | 18 | 0 | 2 | 58 | 9 | 135 | 0 | 222 |
| 5332 | 802.0 | NA | 727.8 | 38.5 | 0.6 | 1.6 | 36.3 | 35.7 | 0 | 0 | 0 | 1 | 0 | 7 | 2 | 10 |
| 5333 | 867.4 | NA | 708.6 | 155.0 | 11.0 | 19.7 | 124.3 | 23.8 | 6 | 2 | 1 | 45 | 2 | 77 | 3 | 136 |
| 5334 | 988.9 | NA | 791.7 | 174.9 | 8.1 | 41.2 | 125.6 | 22.3 | 9 | 0 | 0 | 22 | 0 | 76 | 0 | 107 |
| 5335 | 977.9 | NA | 741.7 | 209.3 | 8.0 | 34.8 | 166.5 | 26.9 | 13 | 0 | 1 | 35 | 0 | 86 | 8 | 143 |
| 5336 | 867.4 | NA | 653.8 | 185.5 | 6.3 | 35.2 | 144.0 | 28.1 | 3 | 3 | 0 | 16 | 0 | 79 | 5 | 106 |
| 5337 | 893.8 | NA | 740.3 | 136.0 | 4.7 | 15.9 | 115.4 | 17.5 | 39 | 0 | 1 | 68 | 0 | 150 | 2 | 260 |
| 5338 | 853.9 | NA | 692.6 | 143.9 | 5.4 | 24.9 | 113.6 | 17.4 | 15 | 0 | 0 | 50 | 0 | 68 | 6 | 139 |
| 5339 | 455.5 | NA | 299.6 | 134.0 | 5.9 | 34.5 | 93.6 | 21.9 | 17 | 9 | 2 | 85 | 3 | 143 | 12 | 271 |
| 5340 | 490.8 | NA | 318.6 | 150.2 | 8.4 | 35.5 | 106.3 | 22.0 | 26 | 2 | 3 | 66 | 2 | 193 | 14 | 306 |
| 5341 | 890.5 | NA | 657.2 | 206.0 | 9.5 | 34.0 | 162.5 | 27.3 | 26 | 2 | 4 | 49 | 4 | 164 | 10 | 259 |
| 5342 | 693.9 | NA | 483.5 | 186.5 | 9.4 | 32.2 | 144.9 | 23.9 | 22 | 5 | 2 | 64 | 0 | 132 | 11 | 236 |
| 5343 | 853.1 | NA | 572.0 | 240.7 | 18.2 | 59.5 | 163.0 | 40.4 | 32 | 6 | 3 | 100 | 2 | 230 | 13 | 386 |
| 5344 | 555.5 | NA | 405.4 | 111.4 | 9.3 | 33.7 | 68.4 | 38.7 | 25 | 4 | 1 | 31 | 5 | 133 | 7 | 206 |
| 5345 | 557.7 | NA | 450.3 | 90.1 | 15.5 | 29.7 | 44.9 | 17.3 | 177 | 25 | 7 | 288 * | 7 * | 180 * | 7 | * 691 |
| | | | | | | | | | | | ( 576 | 14 | 720 ) | | | ( 1526 ) |
| 5346 | 660.5 | NA | 535.6 | 107.4 | 15.8 | 28.6 | 63.0 | 17.5 | 42 | 7 | 0 | 244 | 17 | 249 | 3 | 562 |
| 5347 | 562.7 | NA | 496.7 | 58.1 | 8.5 | 15.2 | 34.4 | 7.9 | 15 | 2 | 0 | 139 | 3 | 113 | 1 | 273 |
| 5348 | 1353.3 | NA | 1103.9 | 217.9 | 28.6 | 36.9 | 152.4 | 31.5 | 112 | 17 | 0 | 118 * | 5 * | 228 * | 4 | * 484 |
| | | | | | | | | | | | ( 472 | 20 | 456 ) | | | ( 1081 ) |
| 5349 | 678.8 | NA | 555.1 | 100.7 | 21.7 | 28.4 | 50.6 | 23.0 | 96 | 28 | 0 | 150 * | 2 * | 218 * | 2 | * 496 |
| | | | | | | | | | | | ( 300 | 4 | 436 ) | | | ( 866 ) |
| 5350 | 592.8 | NA | 443.2 | 129.9 | 11.6 | 27.8 | 90.5 | 19.7 | 53 | 15 | 1 | 225 | 18 | 356 | 4 | 672 |
| 5351 | 850.4 | NA | 715.8 | 114.9 | 12.7 | 23.8 | 78.4 | 19.7 | 68 | 13 | 1 | 320 | 18 | 422 | 4 | 846 |

* Concentrate partially picked for certain minerals -- see Footnotes.

# KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES

| SAMPLE NO: PROJECT: 195 | REMARKS |
|---|---|
| 5328 | ~25% pyrite, trace chalcopyrite, trace molybdednite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5329 | 40% pyrite, trace chalcopyrite and arsenopyrite in +1.0 amp of 0.25-0.50 mm fraction. Also picked 7 GO and 1 CR from 0.25-0.50 mm fraction. |
| 5330 | 20% pyrite, trace chalcopyrite and arsenopyrite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5331 | 20% pyrite, 0.5% chalcopyrite, trace arsenopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm fraction. Also picked 9 GO from 0.25-0.50 mm fraction. |
| 5332 | KIMs are more pristine than in 5330. 30% pyrite and trace chalcopyrite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5333 | 35% pyrite, trace chalcopyrite, low trace galena and arsenopyrite in +1.0 amp of 0.25-0.50 mm fraction. Also picked 2 GO from 0.25-0.50 mm. |
| 5334 | 5% pyrite, trace chalcopyrite in 0.5-1.0 mm fraction. SEM checks from 0.5-1.0 mm: 1 pink-red GP candidate = GP, and 1 orange GO candidate = GO (possibly eclogitic). 20% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm. |
| 5335 | 20% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm. |
| 5336 | 3% pyrite in 0.5-1.0 mm fraction. 10% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5337 | 20% pyrite, trace chalcopyrite, arsenopyrite and galena in +1.0 amp of 0.25-0.50 mm fraction. SEM check of 5 splendent black IM candidates from 0.5-1.0 mm = 5 IM. |
| 5338 | 20% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm fraction. SEM check from 0.5-1.0 mm: 1 black splendent picroilmenite candidate = IM with perovskite rind. |
| 5339 | 3% pyrite, trace chalcopyrite in 0.5-1.0 mm fraction. 30% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5340 | 5% pyrite, trace chalcopyrite in 0.5-1.0 mm fraction. Also picked 7 molbdenite grains from 0.25-0.50 mm fraction. |

## KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: PROJECT: 195 | REMARKS |
|---|---|
| 5341 | 3% pyrite, trace molybdenite in 0.5-1.0 mm fraction. 15% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm fraction. Also picked 18 GO from 0.25-0.50 mm fraction. |
| 5342 | 1% pyrite, trace chalcopyrite in 0.5-1.0 mmfraction. Also picked 6 molybdenite grains from 0.25-0.50 mm fraction. |
| 5343 | 1% pyrite, 0.2% chalcopyrite in 0.5-1.0 mm fraction. Also picked 2 molybdenite grains from 0.5-1.0 mm fraction and 12 from 0.25-0.50 mm fraction; also picked 5 pale yellow olivine from 0.5-1.0 mm fraction. |
| 5344 | 8% pyrite, (0.1% chalcopyrite in 0.5-1.0 mm fraction. 12% pyrite, trace chalcopyrite and molybdenite in +1.0 amp of 0.25-0.50 mm fraction. Also picked 3 GO from 0.25-0.50 mm fraction. |
| 5345 | Picked entire 0.5-1.0 mm fraction for GP, GO and DC and picked 1/2-split for IM and CR. Picked 1/4-split of 0.25-0.50 mm for GP and entire +0.6 amp for DC. In data table, numbers in brackets are extrapolated totals.<br>1% pyrite, (0.1% chalcopyrite in 0.5-1.0 mm fraction. Also picked 6 pale emerald green low Cr-diopside and 4 molybdenite from 0.25-0.50 mm fraction. |
| 5346 | 20 pyrite, trace chalcopyrite (((0.1%) in 0.5-1.0 mm fraction. 15% pyrite, trace chalcopyrite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5347 | 10% pyrite, (0.1% chalcopyrite and 0.5% molybdenite in 0.5-1.0 mm fraction. SEM confirmation 2 of 10 molybdenite grains from 0.5-1.0 mm fraction. |
| 5348 | Picked entire 0.5-1.0 mm fraction for GP, GO and DC and picked 1/4-split for IM and CR. Picked 1/2-split of 0.25-0.50 mm for GP and entire +0.6 amp for DC. In data table, numbers in brackets are extrapolated totals.<br>5% pyrite, 0.1% chalcopyrite in +1.0 amp of 0.25-0.50 mm fraction. |
| 5349 | Picked entire 0.5-1.0 mm fraction for GP, GO and DC and picked 1/2-split for IM and CR. Picked 1/2-split of 0.25-0.50 mm for GP and entire +0.6 amp for DC. In data table, numbers in brackets are extrapolated totals.<br>20% pyrite, few grains chalcopyrite in 0.5-1.0 mm fraction.<br>25% pyrite, faint trace chalcopyrite in +1.0 amp of 0.25-0.50 mm fraction. |

KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:
KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: 195 | |
| 5350 | 15% pyrite, <0.1% chalcopyrite in 0.5-1.0 mm fraction. Also picked 2 pale emerald green low Cr-diopside from 0.25-0.50 mm fraction. |
| 5351 | 12% pyrite, <0.1% chalcopyrite in 0.5-1.0 mm fraction. |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 14-Dec-95

ATTENTION: MSSRS. DAVID CHRISTIE & RAY KNOWLES

CLIENT: W.A. HUBACHECK CONSULTANTS LTD.
141 ADELAIDE STREE WEST
SUITE 1401
TORONTO ONT.
M5H 3L5

(416) 364-5384 (office)
(705) 647-7817 (field)

PROJECT: 195 5328 to 5351
FILE NO: H1951DEC.WR2

NO. OF SAMPLES: 24
NO. OF PANNINGS: 20

TP.

REMARKS: This file contains the visible gold data for the above-listed samples; KIM data and Sample Description data sent separately.

Number of Grains:
- T: Number Found on Shaking Table
- P: Number Found by Panning

Thickness:
- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

Remarks:
- % Percentage of HMC (estimate from panning of table concentrate)
- gr. Grains (estimated number)
- uM Microns (1/1000 mm)

- py. Pyrite
- cpy. Chalcopyrite
- aspy Arsenopyrite
- marc Marcasite
- L/G. Limonite/Goethite
- sid. Siderite

Remy Huneault
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

H1951DEC.WR2

| Sample No. | Number of Visible Gold Grains | | | | NON MAG GMS | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| 195 | | | | | | | | | |
| 5328 | 5 | 3 | 0 | 2 | 39.3 | 82 | 82 | 0 | 0 |
| 5329 | 11 | 5 | 4 | 2 | 98.3 | 14 | 2 | 4 | 7 |
| 5330 | 16 | 11 | 4 | 1 | 120.2 | 7 | 6 | 1 | 0 |
| 5331 | 19 | 11 | 8 | 0 | 181.0 | 49 | 30 | 19 | 0 |
| 5332 | 2 | 0 | 2 | 0 | 38.5 | 12 | 0 | 12 | 0 |
| 5333 | 7 | 6 | 0 | 1 | 155.0 | 15 | 15 | 0 | 0 |
| 5334 | 1 | 1 | 0 | 0 | 174.9 | 0 | 0 | 0 | 0 |
| 5335 | 9 | 9 | 0 | 0 | 209.3 | 28 | 28 | 0 | 0 |
| 5336 | 9 | 8 | 1 | 0 | 185.5 | 11 | 2 | 8 | 0 |
| 5337 | 5 | 0 | 5 | 0 | 136.0 | 4 | 0 | 4 | 0 |
| 5338 | 5 | 0 | 4 | 1 | 143.9 | 8 | 0 | 8 | 1 |
| 5339 | 4 | 4 | 0 | 0 | 134.0 | 98 | 98 | 0 | 0 |
| 5340 | 3 | 2 | 0 | 1 | 150.2 | 62 | 62 | 0 | 1 |
| 5341 | 5 | 4 | 1 | 0 | 206.0 | 29 | 28 | 0 | 0 |
| 5342 | 8 | 6 | 1 | 1 | 186.5 | 33 | 30 | 0 | 3 |
| 5343 | 8 | 6 | 2 | 0 | 240.7 | 17 | 15 | 2 | 0 |
| 5344 | 6 | 6 | 0 | 0 | 111.4 | 59 | 59 | 0 | 0 |
| 5345 | 0 | 0 | 0 | 0 | 90.1 | 0 | 0 | 0 | 0 |
| 5346 | 4 | 1 | 3 | 0 | 107.4 | 18 | 0 | 18 | 0 |
| 5347 | 3 | 1 | 2 | 0 | 58.1 | 24 | 6 | 17 | 0 |
| 5348 | 9 | 5 | 2 | 2 | 217.9 | 17 | 8 | 0 | 8 |
| 5349 | 2 | 1 | 1 | 0 | 100.7 | 6 | 4 | 2 | 0 |
| 5350 | 0 | 0 | 0 | 0 | 129.9 | 0 | 0 | 0 | 0 |
| 5351 | 5 | 0 | 4 | 1 | 114.9 | 352 | 0 | 350 | 2 |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1951DEC.WR2

TOTAL # OF PANNINGS 20

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 5328 | Y | 15 X 15 | 3 C | | | | | 1 | | 1 | | | 10% pyrite. |
| | | 15 X 25 | 4 C | | | | | 1 | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 75 X 100 | 18 C | | 1 | | | | | 1 | | | |
| | | 100 X 125 | 22 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 5 | 39.3 | 82 | |
| 5329 | Y | 25 X 25 | 5 C | 2 | 1 | | | | | 3 | | | 10% pyrite; trace arsenopyrite; |
| | | 25 X 50 | 8 C | 2 | | 3 | | 1 | | 6 | | | 5% marcasite. |
| | | 25 X 75 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 100 | 15 C | | | | | 1 | | 1 | | | |
| | | | | | | | | | | 11 | 98.3 | 14 | |
| 5330 | Y | 15 X 15 | 3 C | 1 | 1 | | | | | 2 | | | 2% pyrite; 5% marcasite; |
| | | 15 X 25 | 4 C | 1 | 1 | | | 1 | | 3 | | | trace (~10 gr.) galena. |
| | | 25 X 25 | 5 C | 2 | 2 | 3 | | | | 7 | | | |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | 3 | | | | | | 3 | | | |
| | | | | | | | | | | 16 | 120.2 | 7 | |
| 5331 | Y | 15 X 15 | 3 C | | | 1 | | | | 1 | | | 5% pyrite; trace marcasite; |
| | | 15 X 50 | 7 C | | | 1 | | | | 1 | | | ~1000 grains galena ((250 uM). |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | |
| | | 25 X 50 | 8 C | 3 | | | | | | 3 | | | |
| | | 25 X 75 | 10 C | 3 | | 1 | | | | 4 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | | 1 | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 125 | 18 C | | | 2 | | | | 2 | | | |
| | | 75 X 100 | 18 C | | 1 | | | | | 1 | | | |
| | | 75 X 175 | 25 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 19 | 181.0 | 49 | |
| 5332 | Y | 25 X 50 | 8 C | | | 1 | | | | 1 | | | 2% pyrite; trace marcasite. |
| | | 25 X 100 | 13 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 2 | 38.5 | 12 | |
| 5333 | Y | 25 X 25 | 5 C | | | | | 1 | | 1 | | | 4% pyrite; trace marcasite. |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 25 X 75 | 10 C | 2 | | | | | | 2 | | | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1951DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 20

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 75 X 100 | 18 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 7 | 155.0 | 15 | |
| 5334 | Y | 25 X 50 | 8 C | 1 | | | | | | 1 | | | 4% pyrite; trace marcasite. 100 grains galena. |
| | | | | | | | | | | 1 | 174.9 | 0 | |
| 5335 | Y | 15 X 50 | 7 C | | 1 | | | | | 1 | | | 8% pyrite; trace marcasite. |
| | | 25 X 25 | 5 C | 3 | | | | | | 3 | | | 100 grains galena. |
| | | 25 X 100 | 13 C | | 1 | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | | 1 | | | | | 1 | | | |
| | | 100 X 125 | 22 C | 1 | 1 | | | | | 2 | | | |
| | | | | | | | | | | 9 | 209.3 | 28 | |
| 5336 | Y | 10 X 20 | 3 C | 1 | | | | | | 1 | | | 10% pyrite; trace marcasite; |
| | | 15 X 25 | 4 C | 3 | | | | | | 3 | | | 100 grains galena. |
| | | 15 X 50 | 7 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 75 X 125 | 20 C | | | | 1 | | | 1 | | | |
| | | | | | | | | | | 9 | 185.5 | 11 | |
| 5337 | Y | 15 X 15 | 3 C | | | 2 | | | | 2 | | | 7% pyrite; ~30 grains galena. |
| | | 15 X 25 | 4 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 5 | 136.0 | 4 | |
| 5338 | Y | 15 X 25 | 4 C | | | 1 | | | | 1 | | | 5% pyrite; ~30 grains galena. |
| | | 15 X 50 | 7 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | | | 1 | | 1 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 5 | 143.9 | 8 | |
| 5339 | Y | 25 X 25 | 5 C | | 1 | | | | | 1 | | | 25% pyrite; ~50 grains galena. |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1951DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 20

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | 150 X 150 | 29 C | | 1 | | | | | 1 | | | |
| | | 150 X 200 | 34 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 4 | 134.0 | 98 | |
| 5340 | Y | 25 X 50 | 8 C | | | | | 1 | | 1 | | | 35% pyrite; ~50 grains galena. |
| | | 75 X 125 | 20 C | 1 | | | | | | 1 | | | |
| | | 100 X 250 | 34 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 150.2 | 62 | |
| 5341 | Y | 25 X 50 | 8 C | | | 1 | | | | 1 | | | 20% pyrite; ~50 grains galena. |
| | | 25 X 75 | 10 C | | 1 | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 75 X 175 | 25 C | | 1 | | | | | 1 | | | |
| | | 100 X 125 | 22 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 5 | 206.0 | 29 | |
| 5342 | Y | 25 X 50 | 8 C | | | 1 | | | | 1 | | | 20% pyrite; ~50 grains galena. |
| | | 25 X 75 | 10 C | 2 | | | | | | 2 | | | |
| | | 50 X 75 | 13 C | 2 | | | | | | 2 | | | |
| | | 50 X 100 | 15 C | | | | | 1 | | 1 | | | |
| | | 75 X 125 | 20 C | 1 | | | | | | 1 | | | |
| | | 100 X 150 | 25 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 8 | 186.5 | 33 | |
| 5343 | Y | 15 X 25 | 4 C | | | 1 | | | | 1 | | | 20% pyrite; ~10 grains galena. |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | | 1 | | | | | 1 | | | |
| | | 50 X 75 | 13 C | | 1 | | 1 | | | 2 | | | |
| | | 50 X 200 | 25 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 8 | 240.7 | 17 | |
| 5344 | Y | 25 X 100 | 13 C | 1 | | | | | | 1 | | | 10% pyrite; ~30 grains galena. |
| | | 50 X 75 | 13 C | 2 | | | | | | 2 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 50 X 125 | 18 C | 1 | | | | | | 1 | | | |
| | | 100 X 175 | 27 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 6 | 111.4 | 59 | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1951DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 20

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 5345 | Y | NO VISIBLE GOLD | | | | | | | | | | | 10% pyrite; ~30 grains galena. |
| 5346 | N | 25 X 25 | 5 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | 75 X 125 | 20 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 4 | 107.4 | 18 | |
| 5347 | N | 50 X 75 | 13 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 3 | 58.1 | 24 | |
| 5348 | Y | 25 X 25 | 5 C | 2 | | 1 | | | | 3 | | | 20% pyrite; ~10 grains galena. |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 25 X 75 | 10 C | | | | | 1 | | 1 | | | |
| | | 50 X 75 | 13 C | 2 | | | | | | 2 | | | |
| | | 50 X 150 | 20 C | | | | | 1 | | 1 | | | |
| | | 75 X 100 | 18 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 9 | 217.9 | 17 | |
| 5349 | N | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 100.7 | 6 | |
| 5350 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5351 | Y | 50 X 50 | 10 C | | | 1 | | | 1 | 2 | | | 8% pyrite; 2% marcasite; |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | ~200 grains of Cu/Sn alloy |
| | | 150 X 150 | 29 C | | | | 1 | | | 1 | | | contamination. |
| | | 150 X 200 | 150 M | | | | 1 | | | 1 | | | |
| | | | | | | | | | | 5 | 114.9 | 352 | |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 18-Dec-95

ATTENTION: MSSRS. CHRISTIE, KNOWLES & JAMIESON

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393

PROJECT: 195 5352 to 5371

FILE NO: H1951NOK.WR1

9p.

NO. OF SAMPLES: 20

THESE SAMPLES WERE PROCESSED FOR: KIMBERLITE INDICATORS
GOLD PREVIOUSLY SENT

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: _____

_____

Remy Huneault
Laboratory Manager

# OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG: ABBREVIATIONS TABLE

## DATA LOG

### Clast:

**Size of Clast:**

- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

**% Clast Composition:**

- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

### Matrix:

- S/U: Sorted or Unsorted
- SD: Sand ----------| F: Fine
- ST: Silt | M: Medium
- CY: Clay | C: Coarse
- OR: Organics

- Y: Fraction Present
- +: Fraction relatively more abundant
- -: Fraction relatively less abundant
- N: Fraction Not Present
- L: Lumps Present

### Colour:

| | | | |
|---|---|---|---|
| B: | Beige | PP: | Purple |
| GY: | Grey | PK: | Pink |
| GB: | Grey Beige | OC: | Ochre |
| GN: | Green | | |
| GG: | Grey Green | L: | Light |
| BN: | Brown | M: | Medium |
| BK: | Black | D: | Dark |

## GOLD LOG

**Number of Grains:**

- T: Number Found on Shaking Table
- P: Number Found by Panning

**Thickness:**

- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

**Remarks:**

| | |
|---|---|
| % | Percentage of HMC (estimate from panning of table concentrate) |
| gr. | Grains (estimated number) |
| uM | Microns (1/1000 mm) |
| py. | Pyrite |
| cpy. | Chalcopyrite |
| aspy. | Arsenopyrite |
| marc. | Marcasite |
| L/G | Limonite/Goethite |
| sid. | Siderite |

## KIM LOG

- GP: Purple garnet (G9/G10 chrome pyrope)
- GO: Orange mantle garnet; includes both eclogitic (G3) and Cr-poor megacryst (G1/G2) varieties; in some samples, may include a few grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces.
- DC: Chrome diopside, emerald green; paler green low-Cr diopside picked separately.
- IL: Picroilmenite; in some samples, may include a few grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces.
- CR: Chromite

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

12/18/95
PROJECT: 195
TOTAL OF 4 SAMPLES.
FILENAME: H1951NOK.WR1

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | SAMPLE DESCRIPTION: CLASTS >2.0 mm PERCENTAGE V/S | GR | LS | OT | MATRIX <1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | | | | | | |
| 5352 | 15.00 | 15.00 | 3.30 | 2.90 | 8.80 | C | 90 | 10 | 0 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5353 | 65.00 | 65.00 | 2.20 | 1.65 | 61.15 | C | 95 | 5 | 0 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5354 | 15.35 | 15.35 | 0.70 | 0.25 | 14.40 | C | 70 | 30 | 0 | 0 | S | F | + | Y | GB | GB | N | SAND |
| 5355 | 10.00 | 10.00 | 2.40 | 1.20 | 6.40 | C | 60 | 40 | 0 | 0 | S | + | Y | - | GY | GY | N | SAND/TILL |
| 5356 | 11.00 | 11.00 | 2.00 | 2.30 | 6.70 | C | 70 | 30 | 0 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5357 | 2.80 | 2.80 | 0.10 | 0.10 | 2.60 | C | 95 | 5 | 0 | 0 | U | Y | + | + | GN | GN | N | TILL |
| 5358 | 4.45 | 4.45 | 0.25 | 0.10 | 4.10 | C | 95 | 5 | 0 | 0 | S | F | Y | - | B | B | N | SAND |
| 5359 | 12.70 | 12.70 | 0.30 | 0.75 | 11.65 | C | 70 | 30 | 0 | 0 | S | F,M | - | - | GB | GB | N | SAND |
| 5360 | 4.40 | 4.40 | 1.10 | 0.30 | 3.00 | C | 50 | 50 | 0 | 0 | S | F,M | - | Y | B | B | N | SAND |
| 5361 | 13.00 | 13.00 | 0.15 | 0.10 | 12.75 | C | 90 | 10 | 0 | 0 | S | F,M | - | - | GB | GB | N | SAND |
| 5362 | 13.05 | 13.05 | 0.30 | 0.20 | 12.55 | C | 90 | 10 | 0 | 0 | S | F,M | - | Y | GB | GB | N | SAND |
| 5363 | 16.75 | 16.75 | 3.35 | 2.00 | 11.40 | C | 70 | 30 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5364 | 14.45 | 14.45 | 2.75 | 2.35 | 9.35 | C | 60 | 40 | 0 | 0 | U | + | - | - | GB | GB | N | TILL |
| 5365 | 16.40 | 16.40 | 2.70 | 3.30 | 10.40 | C | 80 | 20 | 0 | 0 | U | + | - | - | GN | GN | N | TILL |
| 5366 | 16.75 | 16.75 | 3.60 | 2.50 | 10.65 | C | 90 | 10 | 0 | 0 | U | Y | Y | - | GG | GG | N | TILL |
| 5367 | 23.65 | 23.65 | 7.00 | 3.45 | 13.20 | C | 90 | 10 | 0 | 0 | U | + | - | Y | GG | GG | N | TILL |
| 5368 | 16.30 | 16.30 | 4.00 | 2.60 | 9.70 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | GN | GN | N | TILL |
| 5369 | 12.25 | 12.25 | 1.35 | 1.20 | 9.70 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5370 | 9.40 | 9.40 | 1.10 | 1.55 | 6.75 | C | 60 | 40 | 0 | 0 | U | + | Y | Y | B | B | N | TILL |
| 5371 | 14.70 | 14.70 | 1.20 | 2.50 | 11.00 | C | 70 | 30 | 0 | 0 | U | + | Y | - | B | B | N | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

12/18/95
PROJECT: 195
TOTAL OF 4 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE (1.0 mm (grams) | | | | | | | | KIM COUNT | | | | | | | TOTAL KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 mm | | | | | 0.25 TO 0.5 mm | | |
| | TOTAL | -0.25 mm | M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 mm | 0.25 TO 0.5 mm | -0.25 mm | TOTAL MAG | GP | GO | DC | IM | CR | GP | DC | |
| 195 | | | | | | | | | | | | | | | | |
| 5352 | 1274.6 | NA | 1160.7 | 57.7 | 7.1 | 11.2 | 39.4 | 56.2 | 61 | 4 | 0 | 234 | 7 | 465 | 3 | 774 |
| 5353 | 1021.7 | NA | 914.4 | 66.4 | 4.0 | 6.3 | 56.1 | 40.9 | 22 | 3 | 0 | 195 | 15 | 196 | 0 | 431 |
| 5354 | 754.7 | NA | 551.9 | 177.3 | 0.7 | 1.4 | 175.2 | 25.5 | 6 | 0 | 0 | 27 | 0 | 28 | 1 | 62 |
| 5355 | 878.8 | NA | 764.7 | 98.8 | 9.5 | 11.9 | 77.4 | 15.3 | 31 | 3 | 0 | 193 | 4 | 132 | 1 | 364 |
| 5356 | 870.0 | NA | 806.8 | 53.7 | 10.0 | 19.0 | 24.7 | 9.5 | 19 | 4 | 1 | 268 | 11 | 66 | 2 | 371 |
| 5357 | 425.7 | NA | 416.8 | 7.1 | 0.1 | 0.1 | 6.9 | 1.8 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 |
| 5358 | 345.3 | NA | 290.4 | 48.7 | 0.4 | 0.7 | 47.6 | 6.2 | 1 | 0 | 0 | 5 | 0 | 4 | 0 | 10 |
| 5359 | 1038.3 | NA | 745.0 | 260.5 | 21.6 | 40.3 | 198.6 | 32.8 | 11 | 5 | 0 | 37 | 1 | 167 | 7 | 228 |
| 5360 | 360.3 | NA | 308.9 | 45.2 | 1.1 | 5.0 | 39.1 | 6.2 | 9 | 0 | 1 | 17 | 1 | 53 | 2 | 83 |
| 5361 | 939.4 | NA | 724.9 | 191.8 | 1.0 | 14.5 | 176.3 | 22.7 | 2 | 0 | 0 | 15 | 0 | 26 | 1 | 44 |
| 5362 | 849.8 | NA | 626.2 | 192.5 | 1.1 | 12.4 | 179.0 | 31.1 | 1 | 1 | 0 | 9 | 0 | 16 | 1 | 28 |
| 5363 | 1131.0 | NA | 844.9 | 256.5 | 38.2 | 50.1 | 168.2 | 29.6 | 52 * | 20 * | 0 * | 159 * | 8 * | 227 * | 2 * | 468 * |
| | | | | | | | | | (416 ) | (160 ) | ( 0 ) | (2544 ) | (128 ) | (1716 ) | ( 16 ) | ( 4980 ) |
| 5364 | 1070.8 | NA | 926.1 | 123.5 | 24.9 | 33.7 | 64.9 | 21.2 | 320 * | 40 * | 3 * | 355 * | 10 * | 155 * | 16 | 899 * |
| | | | | | | | | | (640 ) | ( 80 ) | ( 6 ) | (2840 ) | ( 80 ) | (2480 ) | | ( 6142 ) |
| 5365 | 885.1 | NA | 683.1 | 173.0 | 22.4 | 39.0 | 111.6 | 29.0 | 61 * | 10 * | 1 * | 91 * | 7 * | 150 * | 0 * | 320 * |
| | | | | | | | | | (244 ) | ( 40 ) | ( 4 ) | ( 728 ) | ( 56 ) | (1200 ) | ( 0 ) | ( 2272 ) |
| 5366 | 971.5 | NA | 782.1 | 158.9 | 20.2 | 27.8 | 110.9 | 30.5 | 80 * | 10 * | 1 * | 250 * | 7 * | 175 * | 6 | 529 * |
| | | | | | | | | | (160 ) | ( 20 ) | ( 2 ) | (1000 ) | ( 28 ) | ( 700 ) | | ( 1916 ) |
| 5367 | 952.9 | NA | 667.1 | 236.6 | 32.0 | 56.9 | 147.7 | 49.2 | 45 * | 4 * | 1 * | 220 * | 6 * | 155 * | 2 * | 433 * |
| | | | | | | | | | (360 ) | ( 32 ) | ( 8 ) | (1760 ) | ( 48 ) | (1240 ) | ( 16 ) | ( 3464 ) |
| 5368 | 819.6 | NA | 664.1 | 136.8 | 19.3 | 30.9 | 86.6 | 18.7 | 42 | 4 | 1 | 95 * | 1 | 218 | 2 | 363 * |
| | | | | | | | | | | | | ( 190 ) | ( 2 ) | | | ( 459 ) |
| 5369 | 479.6 | NA | 335.8 | 127.2 | 4.2 | 17.1 | 105.9 | 16.6 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 10 |
| 5370 | 314.8 | NA | 240.2 | 65.3 | 4.4 | 9.1 | 51.8 | 9.3 | 0 | 0 | 0 | 6 | 0 | 16 | 0 | 22 |
| 5371 | 644.1 | NA | 299.7 | 329.0 | 7.3 | 18.9 | 302.8 | 15.4 | 6 | 1 | 0 | 17 | 0 | 55 | 0 | 79 |

* Picking fraction split -- see Remarks

## KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: PROJECT: 195 | REMARKS |
|---|---|
| 5352 | 10% pyrite in 0.5-1.0 mm. |
| 5353 | 15% pyrite in 0.5-1.0 mm. 25% pyrite in 0.25-0.50 mm. Also picked 1 pale emerald green low Cr-diopside from 0.5-1.0 mm and 2 GO from 0.25-0.50 mm. |
| 5354 | 15% pyrite in 0.5-1.0 mm. 25% pyrite in 0.25-0.50 mm. Also picked 7 GO from 0.25-0.50 mm. |
| 5355 | 10% pyrite in 0.5-1.0 mm. Also picked 1 pale emerald green low Cr-diopside from 0.25-0.50 mm. |
| 5356 | 20% pyrite and trace chalcopyrite in 0.5-1.0 mm. 20% pyrite and trace chalcopyrite in 0.25-0.50 mm. Also picked 2 GO from 0.25-0.50 mm. |
| 5357 | Concentrate is very small. 15% pyrite in 0.5-1.0 mm. |
| 5361 | 10% pyrite, faint trace chalcopyrite and molybdenite in 0.25-0.50 mm. |
| 5363 | Picked 1/16 split of 0.5-1.0 mm for IM and CR and 1/8 for GP, GO and DC. Picked 1/8 split of 0.25-0.50 mm. Numbers in brackets are extrapolated totals. |
| 5364 | Picked 1/8 split of 0.5-1.0 mm for IM and CR and 1/2 for GP, GO and DC. Picked 1/16 split of 0.25-0.50 mm for GP and entire fraction for DC. Numbers in brackets are extrapolated totals. |
| 5365 | Picked 1/8 split of 0.5-1.0 mm for IM and CR and 1/4 for GP, GO and DC. Picked 1/8 split of 0.25-0.50 mm. Numbers in brackets are extrapolated totals. |
| 5366 | Picked 1/4 split of 0.5-1.0 mm for IM and CR and 1/2 split for GP, GO and DC. Picked 1/4 split of 0.25-0.50 mm for GP and entire fraction for DC. Numbers in brackets are extrapolated totals. |
| 5367 | Picked 1/8 split of both picking fractions. |
| 5368 | Picked 1/2 split of 0.5-1.0 mm for IM and CR. |

W.A. HUBACHECK CONSULTANTS LTD.

12/19/95

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

H1952DEC.WR2

| Sample No. | Number of Visible Gold Grains | | | | NON MAG | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| 195 | | | | | | | | | |
| 5352 | 1 | 1 | 0 | 0 | 57.7 | 11 | 11 | 0 | 0 |
| 5353 | 5 | 2 | 3 | 0 | 66.4 | 16 | 7 | 9 | 0 |
| 5354 | 10 | 10 | 0 | 0 | 177.3 | 11 | 11 | 0 | 0 |
| 5355 | 2 | 2 | 0 | 0 | 98.8 | 7 | 7 | 0 | 0 |
| 5356 | 2 | 2 | 0 | 0 | 53.7 | 13 | 13 | 0 | 0 |
| 5357 | 0 | 0 | 0 | 0 | 7.1 | 0 | 0 | 0 | 0 |
| 5358 | 6 | 5 | 1 | 0 | 48.7 | 28 | 24 | 4 | 0 |
| 5359 | 9 | 2 | 7 | 0 | 260.5 | 8 | 1 | 7 | 0 |
| 5360 | 4 | 0 | 4 | 0 | 45.2 | 7 | 0 | 7 | 0 |
| 5361 | 3 | 3 | 0 | 0 | 191.8 | 6 | 6 | 0 | 0 |
| 5362 | 1 | 0 | 1 | 0 | 192.5 | 0 | 0 | 0 | 0 |
| 5363 | 10 | 5 | 5 | 0 | 256.5 | 13 | 8 | 5 | 0 |
| 5364 | 5 | 3 | 1 | 1 | 123.5 | 96 | 2 | 1 | 93 |
| 5365 | 4 | 4 | 0 | 0 | 173.0 | 6 | 6 | 0 | 0 |
| 5366 | 4 | 4 | 0 | 0 | 158.9 | 20 | 20 | 0 | 0 |
| 5367 | 1 | 0 | 1 | 0 | 236.6 | 12 | 0 | 12 | 0 |
| 5368 | 2 | 0 | 2 | 0 | 136.8 | 1 | 0 | 1 | 0 |
| 5369 | 9 | 6 | 3 | 0 | 127.2 | 11 | 8 | 4 | 0 |
| 5370 | 1 | 1 | 0 | 0 | 65.3 | 0 | 0 | 0 | 0 |
| 5371 | 1 | 1 | 0 | 0 | 329.0 | 1 | 1 | 0 | 0 |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1952DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 5352 | N | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 57.7 | 11 | |
| 5353 | N | 15 X 75 | 9 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 75 | 13 C | 1 | | 1 | | | | 2 | | | |
| | | | | | | | | | | 5 | 66.4 | 16 | |
| 5354 | Y | 15 X 25 | 4 C | 2 | | | | | | 2 | | | 3% pyrite; 1% marcasite. |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | ~50 grains of galena. |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 25 X 75 | 10 C | 2 | | | | | | 2 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 50 X 125 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 10 | 177.3 | 11 | |
| 5355 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 98.8 | 7 | |
| 5356 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 53.7 | 13 | |
| 5357 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5358 | Y | 15 X 25 | 4 C | 1 | | | | | | 1 | | | No sulphides. |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 125 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 6 | 48.7 | 28 | |
| 5359 | Y | 15 X 15 | 3 C | 1 | | 1 | | | | 2 | | | 3% pyrite; 0.5% marcasite. |
| | | 15 X 75 | 9 C | | | 1 | | | | 1 | | | ~30 grains of galena. |
| | | 25 X 50 | 8 C | | | 2 | | | | 2 | | | |
| | | 50 X 50 | 10 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | 75 X 75 | 15 C | | | 1 | | | | 1 | | | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1952DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | | | | | | | | | 9 | 260.5 | 8 | |
| 5360 | N | 15 X 25 | 4 C | | | 1 | | | | 1 | | | |
| | | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 4 | 45.2 | 7 | |
| 5361 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 75 X 75 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 191.8 | 6 | |
| 5362 | N | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 192.5 | 0 | |
| 5363 | Y | 15 X 25 | 4 C | | | | 1 | | | 1 | | | 40% pyrite; 0.5% marcasite. |
| | | 25 X 50 | 8 C | 1 | | 1 | | | | 2 | | | ~100 grains galena. |
| | | 25 X 75 | 10 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 75 | 13 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 100 | 15 C | 1 | 1 | 1 | | | | 3 | | | |
| | | | | | | | | | | 10 | 256.5 | 13 | |
| 5364 | Y | 25 X 25 | 5 C | 2 | | | | | | 2 | | | 40% pyrite; 0.5% marcasite. |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | ~100 grains galena. |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | 100 X 250 | 50 M | | | | | 1 | | 1 | | | |
| | | | | | | | | | | 5 | 123.5 | 96 | |
| 5365 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 2 | | | | | | 2 | | | |
| | | | | | | | | | | 4 | 173.0 | 6 | |
| 5366 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 75 X 75 | 15 C | 1 | | | | | | 1 | | | |
| | | 100 X 125 | 22 C | 1 | | | | | | 1 | | | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1952DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | | | | | | | | | 4 | 158.9 | 20 | |
| 5367 | N | 50 X 125 | 50 M | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 236.6 | 12 | |
| 5368 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 2 | 136.8 | 1 | |
| 5369 | Y | 15 X 50 | 7 C | 1 | | | | | | 1 | | | 30% pyrite. |
| | | 25 X 25 | 5 C | 1 | | | | | | 1 | | | ~100 grains galena. |
| | | 25 X 50 | 8 C | 3 | | | 1 | | | 4 | | | |
| | | 25 X 75 | 10 C | | | 1 | 1 | | | 2 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 9 | 127.2 | 11 | |
| 5370 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 65.3 | 0 | |
| 5371 | N | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 329.0 | 1 | |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 21-Dec-95

ATTENTION: MSSRS. CHRISTIE, KNOWLES & JAMIESON

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393

PROJECT: 195 5372 to 5391

FILE NO: H1951NOK.WR1

NO. OF SAMPLES: 20 8p.

THESE SAMPLES WERE PROCESSED FOR: KIMBERLITE INDICATORS
VISIBLE GOLD GRAINS

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: _____

Remy Huneault
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

12/21/95
PROJECT: 195
TOTAL OF 20 SAMPLES.
FILENAME: H1951NOK.WR1

SAMPLE DESCRIPTION

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | CLASTS )2.0 mm PERCENTAGE V/S | GR | LS | OT | MATRIX (1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | | | | | | |
| 5372 | 19.20 | 19.20 | 2.10 | 4.25 | 12.85 | P | 70 | 30 | TR | 0 | U | + | - | - | B | B | N | TILL |
| 5373 | 1.85 | 1.85 | 0.55 | 0.35 | 0.95 | P | 90 | 10 | 0 | 0 | U | Y | Y | - | B | B | N | TILL |
| 5374 | 16.00 | 16.00 | 2.20 | 1.50 | 12.30 | C | 70 | 30 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5375 | 12.50 | 12.50 | 2.55 | 2.75 | 7.20 | C | 90 | 10 | 0 | 0 | U | + | Y | Y | GN | GN | N | TILL |
| 5376 | 10.25 | 10.25 | 1.65 | 1.60 | 7.00 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5377 | 12.20 | 12.20 | 1.25 | 1.75 | 9.20 | C | 95 | 5 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5378 | 7.40 | 7.40 | 1.20 | 0.80 | 5.40 | C | 98 | 2 | 0 | 0 | S | M,C | Y | + | GN | GN | N | SAND |
| 5379 | 15.35 | 15.35 | 4.80 | 2.55 | 8.00 | C | 95 | 5 | 0 | 0 | U | + | Y | - | GG | GG | N | TILL |
| 5380 | 15.55 | 15.55 | 3.45 | 2.30 | 9.80 | C | 95 | 5 | 0 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5381 | 6.45 | 6.45 | 1.70 | 0.85 | 3.90 | C | 100 | TR | 0 | 0 | U | + | Y | Y | GY | GY | N | TILL |
| 5382 | 16.00 | 16.00 | 4.20 | 2.10 | 9.70 | C | 100 | TR | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5383 | 6.60 | 6.60 | 2.45 | 0.95 | 3.20 | C | 100 | TR | 0 | 0 | U | + | Y | - | GB | GB | N | TILL |
| 5384 | 9.45 | 9.45 | 1.90 | 1.00 | 6.55 | C | 95 | 5 | 0 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5385 | 6.20 | 6.20 | 1.20 | 1.00 | 4.00 | C | 60 | 40 | 0 | 0 | U | + | Y | - | GY | GY | N | TILL |
| 5386 | 11.00 | 11.00 | 4.30 | 1.60 | 5.10 | C | 100 | TR | 0 | 0 | U | + | Y | Y | GY | GY | N | TILL/BLDR |
| 5387 | 17.55 | 17.55 | 4.75 | 3.00 | 9.80 | C | 95 | 5 | 0 | 0 | U | + | Y | Y | GY | GY | N | TILL |
| 5388 | 11.00 | 11.00 | 2.30 | 1.70 | 7.00 | C | 90 | 10 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5389 | 8.25 | 8.25 | 1.90 | 1.45 | 4.90 | P | 90 | 10 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5390 | 11.95 | 11.95 | 2.15 | 2.10 | 7.70 | P | 90 | 10 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |
| 5391 | 16.80 | 16.80 | 3.55 | 2.35 | 10.90 | P | 70 | 30 | 0 | 0 | U | + | Y | Y | GB | GB | N | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

12/21/95
PROJECT: 195
TOTAL OF 20 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE <1.0 mm (grams) | | | | | | | | KIM COUNT | | | | | | | TOT AL KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 mm | | | | | 0.25 TO 0.5 mm | | |
| | TOTAL | -0.25 mm | M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 mm | 0.25 TO 0.5 mm | -0.25 mm | TOTAL MAG | GP | GO | DC | IN | CR | GP | DC | |
| 195 | | | | | | | | | | | | | | | | |
| 5372 | 716.7 | NA | 511.9 | 174.3 | 15.3 | 37.6 | 121.4 | 30.5 | 8 | 2 | 0 | 31 | 3 | 70 | 1 | 115 |
| 5373 | 269.9 | NA | 252.8 | 11.3 | 1.2 | 2.6 | 7.5 | 5.8 | 1 | 0 | 0 | 4 | 0 | 11 | 2 | 18 |
| 5374 | 480.8 | NA | 314.5 | 134.0 | 8.0 | 19.0 | 107.0 | 32.3 | 8 | 3 | 0 | 37 | 0 | 112 | 2 | 162 |
| 5375 | 639.4 | NA | 543.8 | 78.8 | 8.8 | 21.0 | 49.0 | 16.8 | 12 | 0 | 0 | 45 | 3 | 152 | 1 | 213 |
| 5376 | 669.3 | NA | 576.7 | 81.4 | 9.2 | 14.6 | 57.6 | 11.2 | 4 | 0 | 0 | 22 | 0 | 40 | 2 | 68 |
| 5377 | 927.4 | NA | 818.9 | 88.5 | 10.7 | 17.8 | 60.0 | 20.0 | 5 | 0 | 0 | 8 | 2 | 29 | 0 | 44 |
| 5378 | 189.9 | NA | 123.7 | 59.3 | 3.5 | 10.3 | 45.5 | 6.9 | 3 | 0 | 0 | 15 | 0 | 24 | 0 | 42 |
| 5379 | 951.9 | NA | 840.8 | 95.3 | 11.2 | 24.7 | 59.4 | 15.8 | 24 | 5 | 1 | 60 | 1 | 116 | 5 | 212 |
| 5380 | 804.3 | NA | 681.9 | 106.7 | 4.9 | 14.9 | 86.9 | 15.7 | 14 | 2 | 0 | 64 | 1 | 185 | 4 | 270 |
| 5381 | 602.8 | NA | 558.4 | 30.0 | 2.4 | 4.0 | 23.6 | 14.4 | 9 | 1 | 0 | 28 | 0 | 55 | 1 | 94 |
| 5382 | 764.6 | NA | 642.3 | 79.0 | 3.6 | 7.9 | 67.5 | 43.3 | 10 | 1 | 0 | 39 | 2 | 133 | 1 | 186 |
| 5383 | 574.1 | NA | 544.2 | 18.8 | 1.4 | 2.7 | 14.7 | 11.1 | 2 | 0 | 0 | 18 | 0 | 33 | 0 | 53 |
| 5384 | 470.7 | NA | 363.6 | 95.9 | 4.1 | 14.0 | 77.8 | 11.2 | 3 | 1 | 1 | 1 | 1 | 45 | 3 | 55 |
| 5385 | 513.8 | NA | 477.0 | 32.9 | 11.5 | 8.7 | 12.7 | 3.9 | 0 | 2 | 0 | 0 | 2 | 11 | 1 | 16 |
| 5386 | 334.2 | NA | 287.3 | 39.7 | 1.1 | 3.1 | 35.5 | 7.2 | 0 | 0 | 0 | 3 | 0 | 16 | 0 | 19 |
| 5387 | 930.6 | NA | 772.7 | 112.3 | 11.4 | 23.1 | 77.8 | 45.6 | 19 | 4 | 1 | 95 | 3 | 150 | 10 | 282 |
| 5388 | 614.3 | NA | 491.8 | 96.3 | 7.7 | 16.7 | 71.9 | 26.2 | 11 | 1 | 0 | 46 | 1 | 125 | 8 | 192 |
| 5389 | 306.9 | NA | 215.1 | 71.6 | 6.6 | 13.9 | 51.1 | 20.2 | 5 | 0 | 1 | 20 | 0 | 48 | 4 | 78 |
| 5390 | 532.8 | NA | 433.3 | 83.9 | 8.1 | 13.0 | 62.8 | 15.6 | 39 | 7 | 1 | 141 | 2 | 197 | 6 | 393 |
| 5391 | 388.2 | NA | 172.5 | 172.5 | 20.4 | 34.8 | 117.3 | 43.2 | 2 | 0 | 3 | 13 | 1 | 53 | 13 | 85 |

# KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: 195 | |
| 5390 | Also picked 1 CR from 0.25-0.50 mm. |

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

H1953DEC.WR2

| Sample No. | Number of Visible Gold Grains | | | | NON MAG | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| 195 | | | | | | | | | |
| 5372 | 0 | 0 | 0 | 0 | 174.3 | 0 | 0 | 0 | 0 |
| 5373 | 0 | 0 | 0 | 0 | 11.3 | 0 | 0 | 0 | 0 |
| 5374 | 17 | 12 | 5 | 0 | 134.0 | 15 | 9 | 6 | 0 |
| 5375 | 2 | 2 | 0 | 0 | 78.8 | 13 | 13 | 0 | 0 |
| 5376 | 3 | 2 | 1 | 0 | 81.4 | 59 | 59 | 0 | 0 |
| 5377 | 4 | 3 | 1 | 0 | 88.5 | 10 | 10 | 0 | 0 |
| 5378 | 1 | 0 | 1 | 0 | 59.3 | 3 | 0 | 3 | 0 |
| 5379 | 2 | 0 | 2 | 0 | 95.3 | 4 | 0 | 4 | 0 |
| 5380 | 0 | 0 | 0 | 0 | 106.7 | 0 | 0 | 0 | 0 |
| 5381 | 2 | 0 | 2 | 0 | 30.0 | 22 | 0 | 22 | 0 |
| 5382 | 3 | 1 | 2 | 0 | 79.0 | 27 | 19 | 8 | 0 |
| 5383 | 4 | 4 | 0 | 0 | 18.8 | 7 | 7 | 0 | 0 |
| 5384 | 1 | 1 | 0 | 0 | 95.9 | 2 | 2 | 0 | 0 |
| 5385 | 0 | 0 | 0 | 0 | 32.9 | 0 | 0 | 0 | 0 |
| 5386 | 5 | 1 | 4 | 0 | 39.7 | 21 | 0 | 21 | 0 |
| 5387 | 5 | 2 | 2 | 1 | 112.3 | 7 | 5 | 1 | 0 |
| 5388 | 1 | 1 | 0 | 0 | 96.3 | 4 | 4 | 0 | 0 |
| 5389 | 1 | 1 | 0 | 0 | 71.6 | 1 | 1 | 0 | 0 |
| 5390 | 1 | 1 | 0 | 0 | 83.9 | 1 | 1 | 0 | 0 |
| 5391 | 1 | 1 | 0 | 0 | 172.5 | 0 | 0 | 0 | 0 |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1953DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 4

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 5372 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5373 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5374 | Y | 15 X 15 | 3 C | 1 | | 1 | | | | 2 | | | 50% pyrite; ~20 grains galena. |
| | | 15 X 25 | 4 C | 2 | | | | | | 2 | | | |
| | | 25 X 25 | 5 C | 1 | | 2 | | | | 3 | | | |
| | | 25 X 50 | 8 C | 5 | | 1 | | | | 6 | | | |
| | | 25 X 75 | 10 C | | 1 | | | | | 1 | | | |
| | | 50 X 50 | 10 C | | 1 | | | | | 1 | | | |
| | | 50 X 75 | 13 C | | 1 | | | | | 1 | | | |
| | | 50 X 100 | 15 C | | | | 1 | | | 1 | | | |
| | | | | | | | | | | 17 | 134.0 | 15 | |
| 5375 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 50 X 125 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 78.8 | 13 | |
| 5376 | N | 15 X 25 | 4 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 75 X 150 | 50 M | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 81.4 | 59 | |
| 5377 | N | 15 X 25 | 4 C | | | 1 | | | | 1 | | | |
| | | 15 X 75 | 9 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 2 | | | | | | 2 | | | |
| | | | | | | | | | | 4 | 88.5 | 10 | |
| 5378 | N | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 59.3 | 3 | |
| 5379 | N | 25 X 75 | 10 C | | | 2 | | | | 2 | | | |
| | | | | | | | | | | 2 | 95.3 | 4 | |
| 5380 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5381 | N | 15 X 25 | 4 C | | | 1 | | | | 1 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1953DEC.WR2
TOTAL # OF PANNINGS 4

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | | | | | | | | | 2 | 30.0 | 22 | |
| 5382 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 125 | 15 C | | | 1 | | | | 1 | | | |
| | | 50 X 150 | 20 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 79.0 | 27 | |
| 5383 | N | 15 X 15 | 3 C | 1 | | | | | | 1 | | | |
| | | 15 X 25 | 4 C | 1 | | | | | | 1 | | | |
| | | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 4 | 18.8 | 7 | |
| 5384 | N | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 95.9 | 2 | |
| 5385 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5386 | Y | 15 X 25 | 4 C | 1 | | | | | | 1 | | | 60% pyrite; ~50 grains galena. |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 25 X 75 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 5 | 39.7 | 21 | |
| 5387 | Y | 15 X 25 | 4 C | | | | | 1 | | 1 | | | 40% pyrite; ~5000 grains galena. |
| | | 25 X 50 | 8 C | | | 2 | | | | 2 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 5 | 112.3 | 7 | |
| 5388 | Y | 50 X 75 | 13 C | 1 | | | | | | 1 | | | ~0.1% galena. |
| | | | | | | | | | | 1 | 96.3 | 4 | |
| 5389 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 71.6 | 1 | |
| 5390 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1953DEC.WR2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 4

| SAMPLE # | PANNED Y/N | MEASUREMENT (uM) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | 1 | 83.9 | 1 | |
| 5391 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 172.5 | 0 | |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 10-Jan-96

ATTENTION: MSSRS. DAVID CHRISTIE & RAY KNOWLES

CLIENT: W.A. HUBACHECK CONSULTANTS LTD.
141 ADELAIDE STREET WEST
SUITE 1401
TORONTO ONT.
M5H 3L5

(416) 364-5384 (office)
(705) 643-2393 (field)

PROJECT: 195 5392 to 5425

FILE NO: H1951JAN.WR2

NO. OF SAMPLES: 32

NO. OF PANNINGS: 8

H.M.C. ____
3/4 H ____
-63 MICRON ____
-125 MICRON ____
_____ ____

SENT TO _____ ANALYTICAL LAB.

REMARKS: _____

_____

_____

Remy Huneault
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

## ABBREVIATIONS

### DATA LOG

**Clast:**

Size of Clast:

- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

% Clast Composition:

- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

**Class:**

- BLD: Boulder Chips
- BDK: Bedrock Chips

**Matrix:**

- S/U: Sorted or Unsorted
- SD: Sand
- ST: Silt
- CY: Clay
- OR: Organics

(SD: F: Fine, M: Medium, C: Coarse)

- Y: Fraction Present
- +: Fraction more abundant than normal
- -: Fraction less abundant than normal
- N: Fraction Not Present
- L: Lumps Present

**Colour:**

| | | | |
|---|---|---|---|
| B: | Beige | PP: | Purple |
| GY: | Grey | PK: | Pink |
| GB: | Grey Beige | OC: | Ochre |
| GN: | Green | | |
| GG: | Grey Green | L: | Light |
| BN: | Brown | M: | Medium |
| BK: | Black | D: | Dark |

### GOLD LOG

**Number of Grains:**

- T: Number Found on Shaking Table
- P: Number Found by Panning

Thickness:

- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

**Remarks:**

| | |
|---|---|
| % | Percentage of HMC (estimated from panning of table concentrate) |
| gr. | Grains (estimated number) |
| uM | Microns (1/1000 mm) |
| py. | Pyrite |
| cpy. | Chalcopyrite |
| aspy. | Arsenopyrite |
| marc. | Marcasite |
| L/G. | Limonite/Goethite |
| sid. | Siderite |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

01/10/96
PROJECT: 195
TOTAL OF 32 SAMPLES.
FILENAME: H1951JAK.WR1

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | SAMPLE DESCRIPTION: CLASTS >2.0 mm PERCENTAGE V/S | GR | LS | OT | MATRIX <1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | | | | | | |
| 5392 | 11.05 | 11.05 | 2.30 | 1.90 | 6.85 | P | 85 | 15 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5393 | 14.55 | 14.55 | 2.90 | 2.40 | 9.25 | P | 70 | 30 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5394 | 13.15 | 13.15 | 2.30 | 1.05 | 9.80 | P | 70 | 30 | 0 | 0 | U | Y | Y | Y | B | GB | N | TILL |
| 5395 | 15.35 | 15.35 | 3.65 | 1.50 | 10.20 | P | 65 | 35 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5396 | 15.65 | 15.65 | 3.25 | 2.05 | 10.35 | P | 65 | 35 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5397 | 8.75 | 8.75 | 0.90 | 1.15 | 6.70 | P | 70 | 30 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5398 | 12.50 | 12.50 | 1.35 | 1.70 | 9.45 | P | 70 | 30 | 0 | 0 | U | Y | Y | Y | B | GB | N | TILL |
| 5399 | 10.85 | 10.85 | 1.25 | 0.80 | 8.80 | P | 70 | 30 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5400 | 12.65 | 12.65 | 1.50 | 1.45 | 9.70 | P | 65 | 35 | 0 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5401 | 11.00 | 11.00 | 1.20 | 1.10 | 8.70 | P | 70 | 30 | 0 | 0 | U | + | Y | Y | B | GB | N | TILL |
| 5402 | 16.40 | 16.40 | 1.50 | 1.60 | 13.30 | P | 60 | 40 | 0 | 0 | U | + | + | Y | B | GB | N | TILL |
| 5403 | 13.95 | 13.95 | 0.95 | 1.75 | 11.25 | P | 70 | 30 | 0 | 0 | U | + | + | Y | B | GB | N | TILL |
| 5404 | 14.25 | 14.25 | 0.95 | 1.55 | 11.75 | P | 60 | 40 | 0 | 0 | U | + | + | Y | B | B | N | TILL |
| 5407 | 8.70 | 8.70 | 0.45 | 0.25 | 8.00 | P | 70 | 30 | 0 | 0 | U | Y | + | + | GY | GY | N | TILL |
| 5408 | 11.85 | 11.85 | 2.85 | 1.70 | 7.30 | P | 85 | 15 | 0 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5409 | 17.90 | 17.90 | 3.45 | 3.55 | 10.90 | P | 85 | 15 | 0 | 0 | U | + | Y | Y | GY | GY | N | TILL |
| 5410 | 10.10 | 10.10 | 2.70 | 1.80 | 5.60 | P | 90 | 10 | 0 | 0 | U | + | - | Y | GY | GY | N | TILL |
| 5411 | 15.15 | 15.15 | 4.35 | 2.70 | 8.10 | P | 85 | 15 | 0 | 0 | U | + | - | Y | GY | GY | N | TILL |
| 5412 | 16.95 | 16.95 | 2.75 | 3.85 | 10.35 | P | 90 | 10 | 0 | 0 | U | + | - | Y | GY | GY | N | TILL |
| 5413 | 15.95 | 15.95 | 2.85 | 3.30 | 9.80 | P | 90 | 10 | 0 | 0 | U | + | - | Y | GY | GY | N | TILL |
| 5414 | 14.95 | 14.95 | 2.45 | 3.15 | 9.35 | P | 95 | 5 | 0 | 0 | U | + | Y | - | GY | GB | N | TILL |
| 5415 | 14.35 | 14.35 | 2.20 | 2.15 | 10.00 | P | 95 | 5 | 0 | 0 | U | + | - | Y | GY | GY | N | TILL |
| 5416 | 15.80 | 15.80 | 2.45 | 2.35 | 11.00 | P | 95 | 5 | 0 | 0 | U | + | - | Y | GY | GY | N | TILL |
| 5417 | 13.85 | 13.85 | 2.85 | 1.85 | 9.15 | P | 90 | 10 | 0 | 0 | U | + | Y | - | GY | GY | N | TILL |
| 5418 | 13.70 | 13.70 | 4.40 | 2.80 | 6.50 | P | 40 | 45 | 15 | 0 | S | + | - | - | LOC | LOC | N | GRAVEL |
| 5419 | 14.00 | 14.00 | 2.35 | 1.95 | 9.70 | P | 15 | 5 | 80 | 0 | U | + | Y | - | GY | GY | N | TILL |
| 5420 | 5.00 | 5.00 | 0.85 | 0.70 | 3.45 | P | 20 | 5 | 75 | 0 | U | + | - | - | GB | GB | N | TILL |
| 5421 | 6.00 | 6.00 | 1.10 | 0.80 | 4.10 | P | 5 | 5 | 90 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5422 | 10.25 | 10.25 | 2.60 | 1.55 | 6.10 | P | 20 | 10 | 70 | 0 | U | + | - | Y | GY | GB | N | TILL |
| 5423 | 14.20 | 14.20 | 3.15 | 2.25 | 8.80 | P | 15 | 20 | 65 | 0 | U | Y | Y | Y | GB | GB | N | TILL |
| 5424 | 11.85 | 11.85 | 0.90 | 0.70 | 10.25 | P | 25 | 25 | 50 | 0 | U | Y | Y | Y | GY | GY | N | TILL |
| 5425 | 13.95 | 13.95 | 2.80 | 2.35 | 8.80 | P | 100 | Tr | 0 | 0 | U | Y | Y | Y | GG | GY | N | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

01/10/96
PROJECT: 195
TOTAL OF 32 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE (1.0 ■■ (grams) | | | | | | | | KIM COUNT | | | | | | | T O T A L KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 ■■ | | | | | 0.25 TO 0.5 ■■ | | |
| | TOTAL | -0.25 ■■ | M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 ■■ | 0.25 TO 0.5 ■■ | -0.25 ■■ | TOTAL MAG | GP | GO | DC | IM | CR | GP | DC | |
| 195 | | | | | | | | | | | | | | | | |
| 5392 | 499.2 | NA | 390.3 | 115.3 | 8.2 | 15.3 | 91.8 | 17.1 | 4 | 0 | 0 | 10 | 0 | 50 | 6 | 70 |
| 5393 | 902.4 | NA | 743.4 | 176.4 | 20.2 | 39.9 | 116.3 | 42.7 | 11 | 1 | 1 | 29 | 0 | 70 | 16 | 128 |
| 5394 | 347.4 | NA | 205.0 | 148.7 | 9.6 | 24.7 | 114.4 | 28.0 | 5 | 0 | 2 | 14 | 0 | 71 | 22 | 114 |
| 5395 | 636.0 | NA | 432.9 | 211.2 | 11.2 | 32.1 | 167.9 | 35.2 | 6 | 0 | 2 | 17 | 2 | 91 | 16 | 134 |
| 5396 | 511.7 | NA | 302.4 | 205.1 | 8.4 | 26.7 | 170.0 | 39.3 | 4 | 1 | 4 | 11 | 0 | 75 | 18 | 113 |
| 5397 | 467.0 | NA | 327.8 | 136.1 | 7.8 | 18.1 | 110.2 | 29.0 | 2 | 1 | 1 | 2 | 2 | 40 | 13 | 61 |
| 5398 | 316.9 | NA | 168.7 | 152.8 | 8.7 | 22.7 | 121.4 | 26.8 | 1 | 0 | 1 | 3 | 1 | 15 | 12 | 33 |
| 5399 | 714.5 | NA | 491.8 | 222.9 | 6.0 | 16.8 | 200.1 | 22.6 | 0 | 0 | 1 | 1 | 0 | 58 | 8 | 68 |
| 5400 | 574.4 | NA | 410.4 | 161.6 | 7.2 | 18.5 | 135.9 | 28.1 | 7 | 0 | 0 | 8 | 2 | 80 | 8 | 105 |
| 5401 | 406.4 | NA | 218.2 | 202.0 | 7.9 | 28.0 | 166.1 | 22.1 | 2 | 0 | 0 | 9 | 1 | 158 | 17 | 187 |
| 5402 | 438.6 | NA | 279.5 | 147.0 | 4.3 | 17.2 | 125.5 | 33.6 | 2 | 0 | 1 | 9 | 0 | 80 | 10 | 102 |
| 5403 | 515.1 | NA | 353.3 | 159.9 | 7.4 | 22.6 | 129.9 | 31.9 | 5 | 0 | 1 | 11 | 0 | 116 | 4 | 137 |
| 5404 | 518.0 | NA | 347.0 | 169.3 | 7.4 | 19.4 | 142.5 | 28.5 | 8 | 0 | 2 | 2 | 1 | 28 | 14 | 55 |
| 5407 | 297.2 | NA | 199.1 | 88.4 | 2.9 | 6.2 | 79.3 | 18.8 | 1 | 0 | 0 | 202 | 0 | 34 | 1 | 238 |
| 5408 | 707.2 | NA | 614.2 | 85.6 | 5.7 | 12.6 | 67.3 | 25.7 | 69 | 5 | 1 | 2 | 0 | 755 | 7 | 839 |
| 5409 | 598.8 | NA | 470.0 | 129.3 | 10.4 | 22.5 | 96.4 | 32.4 | 92 * | 14 * | 0 * | 135 * | 1 * | 208 * | 0 * | 450 * |
| | | | | | | | | | (184 ) | ( 28 ) | ( 0 ) | ( 540 ) | ( 2 ) | (1664 ) | ( 0 ) | ( 2418 ) |
| 5410 | 444.3 | NA | 376.4 | 70.9 | 5.2 | 14.1 | 51.6 | 16.3 | 57 * | 7 * | 2 * | 63 * | 1 * | 132 * | 3 * | 265 * |
| | | | | | | | | | (114 ) | ( 14 ) | ( 4 ) | ( 252 ) | ( 2 ) | (1056 ) | ( 24 ) | ( 1466 ) |
| 5411 | 617.3 | NA | 508.0 | 116.0 | 9.8 | 17.4 | 88.8 | 20.5 | 81 | 9 | 0 | 229 | 0 * | 173 * | 1 * | 493 * |
| | | | | | | | | | | | | | | ( 692 ) | ( 4 ) | ( 696 ) |
| 5412 | 820.8 | NA | 689.0 | 136.9 | 11.2 | 22.2 | 103.5 | 28.3 | 40 * | 8 * | 1 * | 72 * | 2 * | 109 * | 2 * | 234 * |
| | | | | | | | | | ( 80 ) | ( 16 ) | ( 2 ) | ( 288 ) | ( 4 ) | ( 981 ) | ( 18 ) | ( 1389 ) |
| 5413 | 928.7 | NA | 757.1 | 160.5 | 13.7 | 25.8 | 121.0 | 50.6 | 40 * | 6 * | 0 * | 111 * | 0 * | 149 * | 2 * | 308 * |
| | | | | | | | | | (160 ) | ( 24 ) | ( 0 ) | ( 444 ) | ( 0 ) | (1152 ) | ( 16 ) | ( 1796 ) |
| 5414 | 483.9 | NA | 348.1 | 124.4 | 8.8 | 19.3 | 96.3 | 39.5 | 28 * | 7 | 0 * | 86 * | 0 * | 118 * | 0 * | 239 * |
| | | | | | | | | | ( 56 ) | ( 14 ) | ( 0 ) | ( 344 ) | ( 0 ) | ( 944 ) | ( 0 ) | ( 1358 ) |
| 5415 | 1173.9 | NA | 1026.7 | 138.0 | 9.3 | 18.0 | 110.7 | 36.5 | 64 | 4 | 1 | 65 * | 1 | 198 * | 2 * | 335 * |
| | | | | | | | | | ( 64 ) | ( 4 ) | ( 1 ) | ( 130 ) | ( 1 ) | ( 792 ) | ( 8 ) | ( 1000 ) |
| 5416 | 589.0 | NA | 435.2 | 136.9 | 7.5 | 16.6 | 112.8 | 41.0 | 50 | 9 | 1 | 118 | 2 | 118 * | 3 * | 301 * |
| | | | | | | | | | | | | | | ( 994 ) | ( 24 ) | ( 1018 ) |
| 5417 | 424.5 | NA | 282.9 | 122.6 | 9.2 | 15.3 | 98.1 | 43.5 | 54 | 4 | 0 | 175 | 1 | 192 * | 3 * | 429 * |
| | | | | | | | | | 0 | 0 | 0 | 0 | 0 | ( 768 ) | ( 15 ) | ( 783 ) |
| 5418 | 345.7 | NA | 244.5 | 149.6 | 18.2 | 35.5 | 95.9 | 5.3 | 1 | 1 | 0 | 0 | 1 | 6 | 0 | 9 |
| 5419 | 238.0 | NA | 195.6 | 42.1 | 1.9 | 4.6 | 35.6 | 6.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5420 | 390.7 | NA | 377.3 | 12.9 | 0.8 | 1.7 | 10.4 | 3.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5421 | 272.3 | NA | 264.2 | 9.2 | 0.6 | 1.4 | 7.2 | 0.9 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 7 |
| 5422 | 491.5 | NA | 463.9 | 35.0 | 4.1 | 7.9 | 23.0 | 4.6 | 2 | 0 | 0 | 0 | 0 | 9 | 0 | 11 |
| 5423 | 335.6 | NA | 273.4 | 76.1 | 8.3 | 16.2 | 51.6 | 10.6 | 11 | 1 | 0 | 28 | 1 | 66 | 0 | 107 |
| 5424 | 580.7 | NA | 505.0 | 159.8 | 3.7 | 91.0 | 65.1 | 10.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5425 | 602.7 | NA | 533.3 | 55.8 | 8.1 | 12.2 | 35.5 | 33.9 | 80 | 14 | 0 | 429 | 1 | 142 * | 0 * | 666 * |
| | | | | | | | | | | | | | | ( 568 ) | 0 | ( 568 ) |

* actual grains picked. ( ) extrapolated total grains present.

## KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: PROJECT: 195 | REMARKS |
|---|---|
| 5392 | Also picked 1 PEG low Cr-diopside from 0.5-1.0 mm. |
| 5408 | ~30% of pyropes picked from 0.25-0.5 mm fraction are reddish orange; ~12% of these grains may be orange garnets (subtle hint of red) |
| 5409 | Picked 1/2 split of 0.5-1.0 mm for GP, GO, DC and CR and 1/4 split for IM; picked 1/8 split of 0.25-0.5 mm for GP and DC. |
| 5410 | Picked 1/2 split of 0.5-1.0 mm for GP, GO, DC and CR and 1/4 split for IM; picked 1/8 split of 0.25-0.5 mm for GP and DC. |
| 5411 | Picked 1/4 split of 0.25-0.5 mm fraction. |
| 5412 | Picked 1/2 split of 0.5-1.0 mm for GP, GO, DC and CR and 1/4 split for IM; picked 1/8 split of 0.25-0.5 mm for GP and DC. |
| 5413 | Picked 1/4 split of 0.5-1.0 mm for all indicators; picked 1/8 split of 0.25-0.5 mm for GP and DC. |
| 5414 | Picked 1/2 split of 0.5-1.0 mm for GP, GO, DC and CR and 1/4 split for IM; picked 1/8 split of 0.25-0.5 mm for GP and DC. |
| 5415 | Picked entire 0.5-1.0 mm for GP, GO, DC and CR and 1/2 split for IM; Picked 1/4 of 0.25-0.5 mm for GP and DC. |
| 5416 | Picked 1/8 of 0.25-0.5 mm fraction. |
| 5417 | Picked 1/4 of 0.25-0.5 mm fraction. |
| 5418 | ~75% pyrite in concentrate. |
| 5419 | ~35% pyrite and marcasite in concentrate. |
| 5420 | ~25% pyrite and marcasite in concentrate. |
| 5421 | ~40% pyrite and marcasite in concentrate. |
| 5423 | ~30% pyrite in concentrate. |
| 5425 | Picked 1/4 of 0.25-0.5 mm fraction. ~80% pyrite in 0.5-1.0 mm fraction. |

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

h1951jan.wr2

| Sample No. | Number of Visible Gold Grains | | | | Non-Mag Weight | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| 195 | | | | | | | | | |
| 5392 | 1 | 1 | 0 | 0 | 115.6 | 2 | 2 | 0 | 0 |
| 5393 | 3 | 3 | 0 | 0 | 174.7 | 3 | 3 | 0 | 0 |
| 5394 | 3 | 3 | 0 | 0 | 148.9 | 4 | 4 | 0 | 0 |
| 5395 | 6 | 5 | 1 | 0 | 211.4 | 3 | 3 | 0 | 0 |
| 5396 | 3 | 1 | 2 | 0 | 206.5 | 15 | 14 | 1 | 0 |
| 5397 | 4 | 3 | 1 | 0 | 136.4 | 3 | 3 | 0 | 0 |
| 5398 | 5 | 1 | 3 | 1 | 153.2 | 6 | 1 | 4 | 0 |
| 5399 | 4 | 3 | 1 | 0 | 223.2 | 2 | 1 | 0 | 0 |
| 5400 | 3 | 2 | 0 | 1 | 161.8 | 31 | 31 | 0 | 0 |
| 5401 | 5 | 4 | 1 | 0 | 202.2 | 4 | 3 | 0 | 0 |
| 5402 | 4 | 4 | 0 | 0 | 174.1 | 7 | 7 | 0 | 0 |
| 5403 | 0 | 0 | 0 | 0 | 160.4 | 0 | 0 | 0 | 0 |
| 5404 | 1 | 1 | 0 | 0 | 169.6 | 0 | 0 | 0 | 0 |
| 5407 | 11 | 10 | 1 | 0 | 88.9 | 41 | 40 | 1 | 0 |
| 5408 | 0 | 0 | 0 | 0 | 86.0 | 0 | 0 | 0 | 0 |
| 5409 | 3 | 3 | 0 | 0 | 129.5 | 22 | 22 | 0 | 0 |
| 5410 | 1 | 1 | 0 | 0 | 71.3 | 9 | 0 | 0 | 0 |
| 5411 | 2 | 2 | 0 | 0 | 116.3 | 2 | 0 | 0 | 0 |
| 5412 | 3 | 3 | 0 | 0 | 137.4 | 33 | 5 | 0 | 0 |
| 5413 | 8 | 7 | 1 | 0 | 160.9 | 21 | 1 | 0 | 0 |
| 5414 | 7 | 7 | 0 | 0 | 124.6 | 14 | 36 | 0 | 0 |
| 5415 | 1 | 1 | 0 | 0 | 138.3 | 1 | 17 | 7 | 0 |
| 5416 | 6 | 6 | 0 | 0 | 137.3 | 16 | 13 | 0 | 0 |
| 5417 | 1 | 0 | 1 | 0 | 122.8 | 2 | 2 | 0 | 0 |
| 5418 | 0 | 0 | 0 | 0 | 150.7 | 0 | 15 | 0 | 0 |
| 5419 | 5 | 5 | 0 | 0 | 42.5 | 20 | 0 | 5 | 0 |
| 5420 | 0 | 0 | 0 | 0 | 13.1 | 0 | 0 | 0 | 0 |
| 5421 | 2 | 2 | 0 | 0 | 9.4 | 41 | 92 | 0 | 0 |
| 5422 | 0 | 0 | 0 | 0 | 35.1 | 0 | 0 | 0 | 0 |
| 5423 | 2 | 1 | 1 | 0 | 76.5 | 6 | 5 | 0 | 0 |
| 5424 | 0 | 0 | 0 | 0 | 76.8 | 0 | 0 | 0 | 0 |
| 5425 | 1 | 1 | 0 | 0 | 56.0 | 11 | 7 | 1 | 0 |

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

h1951jan.wr2 NUMBER OF GRAINS
TOTAL # OF PANNINGS 8

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 5392 | N | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 115.6 | 2 | |
| 5393 | N | 15 X 25 | 4 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 174.7 | 3 | |
| 5394 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | 25 X 100 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 148.9 | 4 | |
| 5395 | Y | 10 X 20 | 3 C | 1 | | | | | | 1 | | | 25% pyrite. |
| | | 25 X 50 | 8 C | 2 | | 1 | | | | 3 | | | Approximately 1000 grains of |
| | | 50 X 50 | 10 C | 2 | | | | | | 2 | | | galena. |
| | | | | | | | | | | 6 | 211.4 | 3 | |
| 5396 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | 75 X 100 | 50 M | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 206.5 | 15 | |
| 5397 | N | 15 X 15 | 3 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 4 | 136.4 | 3 | |
| 5398 | Y | 25 X 25 | 5 C | | | | | 1 | | 1 | | | 15% pyrite. |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | Approximately 100 grains of |
| | | 25 X 75 | 10 C | | | 1 | | | | 1 | | | galena. |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 5 | 153.2 | 6 | |
| 5399 | N | 15 X 50 | 7 C | | | 1 | | | | 1 | | | |
| | | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

h1951jan.wr2 NUMBER OF GRAINS
TOTAL # OF PANNINGS 8

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 4 | 223.2 | 2 | |
| 5400 | Y | 15 X 25 | 4 C | | | | | 1 | | 1 | | | 15% pyrite. |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | Approximately 20 grains of |
| | | 75 X 225 | 29 C | 1 | | | | | | 1 | | | galena. |
| | | | | | | | | | | 3 | 161.8 | 31 | |
| 5401 | N | 15 X 25 | 4 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 5 | 202.2 | 4 | |
| 5402 | N | 15 X 15 | 3 C | 1 | | | | | | 1 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | 25 X 100 | 13 C | 1 | | | | | | 1 | | | |
| | | 25 X 125 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 4 | 174.1 | 7 | |
| 5403 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5404 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | Grain lost in transfer. |
| | | | | | | | | | | 1 | 169.6 | 0 | |
| 5407 | Y | 15 X 15 | 3 C | 1 | | | | | | 1 | | | 1% pyrite. |
| | | 25 X 25 | 5 C | 3 | | | | | | 3 | | | |
| | | 25 X 50 | 8 C | 2 | | 1 | | | | 3 | | | |
| | | 50 X 50 | 10 C | | 1 | | | | | 1 | | | |
| | | 50 X 75 | 13 C | | 1 | | | | | 1 | | | |
| | | 75 X 75 | 15 C | 1 | | | | | | 1 | | | |
| | | 75 X 150 | 22 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 11 | 88.9 | 41 | |
| 5408 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5409 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 50 X 175 | 22 C | 1 | | | | | | 1 | | | |

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

h1951jan.wr2 NUMBER OF GRAINS
TOTAL # OF PANNINGS 8

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| | | | | | | | | | | 3 | 129.5 | 22 | |
| 5410 | N | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 71.3 | 9 | |
| 5411 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 116.3 | 2 | |
| 5412 | N | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 50 X 200 | 25 C | 1 | | | | | | 1 | | | |
| | | 75 X 100 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 137.4 | 33 | |
| 5413 | Y | 25 X 25 | 5 C | 1 | | | | | | 1 | | | 70% pyrite. |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | Approximately 30 grains of |
| | | 50 X 75 | 13 C | 3 | | | | | | 3 | | | galena. |
| | | 50 X 125 | 18 C | 1 | | 1 | | | | 2 | | | |
| | | | | | | | | | | 8 | 160.9 | 21 | |
| 5414 | Y | 15 X 75 | 9 C | 1 | | | | | | 1 | | | 40% pyrite. |
| | | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 3 | | | | | | 3 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 75 X 100 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 7 | 124.6 | 14 | |
| 5415 | N | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 138.3 | 1 | |
| 5416 | Y | 15 X 15 | 3 C | 1 | | | | | | 1 | | | 30% pyrite. |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 75 X 75 | 15 C | 2 | | | | | | 2 | | | |
| | | | | | | | | | | 6 | 137.3 | 16 | |

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

h1951jan.wr2 NUMBER OF GRAINS
TOTAL # OF PANNINGS 8

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 5417 | N | 25 X 75 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 122.8 | 2 | |
| 5418 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5419 | Y | 25 X 25 | 5 C | 1 | | | | | | 1 | | | 2% py; 0.5% L/G; 3% marc. |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | 3 grains of native copper |
| | | 25 X 75 | 10 C | 2 | | | | | | 2 | | | approximately 100 microns. |
| | | 25 X 100 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 5 | 42.5 | 20 | |
| 5420 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5421 | N | 50 X 50 | 10 C | 2 | | | | | | 2 | | | |
| | | | | | | | | | | 2 | 9.4 | 41 | |
| 5422 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5423 | N | 15 X 50 | 7 C | | | 1 | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 76.5 | 6 | |
| 5424 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5425 | N | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 56.0 | 11 | |

Jan. 15/96

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 10-Jan-96

ATTENTION: MSSRS. CHRISTIE, KNOWLES & JAMIESON

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393

PROJECT: GB-95-35 5405, 5406

FILE NO: HGB95KIM.WR1

NO. OF SAMPLES: 2

THESE SAMPLES WERE PROCESSED FOR: KIMBERLITE INDICATORS
GOLD PREVIOUSLY SENT

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: "RC" ground-up rock submitted for processing.
All fractions including 2 character grachem splits stored.

Remy Huneault
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

## ABBREVIATIONS

### DATA LOG

**Clast:**

Size of Clast:

- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

% Clast Composition:

- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

**Class:**

- BLD: Boulder Chips
- BDK: Bedrock Chips

**Matrix:**

- S/U: Sorted or Unsorted
- SD: Sand ---------- F: Fine, M: Medium, C: Coarse
- ST: Silt
- CY: Clay
- OR: Organics

- Y: Fraction Present
- +: Fraction more abundant than normal
- -: Fraction less abundant than normal
- N: Fraction Not Present
- L: Lumps Present

**Colour:**

| | | | |
|---|---|---|---|
| B: | Beige | PP: | Purple |
| GY: | Grey | PK: | Pink |
| GB: | Grey Beige | OC: | Ochre |
| GN: | Green | | |
| GG: | Grey Green | L: | Light |
| BN: | Brown | M: | Medium |
| BK: | Black | D: | Dark |

### GOLD LOG

**Number of Grains:**

- T: Number Found on Shaking Table
- P: Number Found by Panning

Thickness:

- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

**Remarks:**

| | |
|---|---|
| % | Percentage of HMC (estimated from panning of table concentrate) |
| gr. | Grains (estimated number) |
| uM | Microns (1/1000 mm) |
| py. | Pyrite |
| cpy. | Chalcopyrite |
| aspy. | Arsenopyrite |
| marc. | Marcasite |
| L/G. | Limonite/Goethite |
| sid. | Siderite |

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

HGB95JAN.WR2

| Sample No. | Number of Visible Gold Grains | | | | Non-Mag Weight | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| GB-95-35 | | | | | | | | | |
| 5405 | 13 | 4 | 9 | 0 | 110.5 | 32 | 26 | 6 | 0 |
| 5406 | 1 | 1 | 0 | 0 | 1.1 | 339 | 339 | 0 | 0 |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HGB95JAN.WR2
TOTAL # OF PANNINGS 2

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC v.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GB-95-35 | | | | | | | | | | | | | |
| 5405 | Y | 15 X 15 | 3 C | | | 1 | | | | 1 | | | 2% pyrite; 0.1% marcasite. |
| | | 25 X 25 | 5 C | | | 3 | | | | 3 | | | Approximately 30 grains of galena. |
| | | 25 X 50 | 8 C | | | 3 | | | | 3 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | 2 | | | | 3 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 100 X 125 | 22 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 13 | 110.5 | 32 | |
| 5406 | Y | 50 X 75 | 13 C | 1 | | | | | | 1 | | | 0.5% marcasite. |
| | | | | | | | | | | 1 | 1.1 | 339 | |

W.A. HUBACHECK CONSULTANTS LTD.



OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

01/10/96
PROJECT: GB-95-35
TOTAL OF 2 SAMPLES.
FILENAME: HGB95KIM.WR1

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SAMPLE DESCRIPTION: CLASTS >2.0 mm SIZE | PERCENTAGE V/S | GR | LS | OT | MATRIX <1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GB-95-35 | | | | | | | | | | | | | | | | | | |
| 5405 | 8.10 | 8.10 | NIL | 0.70 | 7.40 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | GROUND ROCK |
| 5406 | 4.50 | 4.50 | 0.50 | 0.20 | 3.80 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | GROUND ROCK |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

01/10/96
PROJECT: GB-95-35
TOTAL OF 2 SAMPLES

| | TABLE CONCENTRATE (1.0 ▪▪ (grams) | | | | | | | | KIM COUNT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M.I. SEPARATION S.G 3.20 | | | | | | | | | | |
| SAMPLE NUMBER | TOTAL | -0.25 ▪▪ | M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 ▪▪ | 0.25 TO 0.5 ▪▪ | -0.25 ▪▪ | TOTAL MAG | 0.5 TO 1 ▪▪ GP | GO | DC | IM | CR |
| GB-95-35 | | | | | | | | | | | | | |
| 5405 | 410.0 | NA | 284.8 | 110.3 | 4.5 | 12.9 | 92.9 | 14.9 | 0 | 0 | 0 | 0 | 0 |
| 5406 | 176.1 | NA | 175.1 | 1.1 | * | 0.2 | 0.9 | 0.1 | 0 | 0 | 0 | 0 | 0 |

* Sample not sieved to 0.5-1.0 ▪▪.

# KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTE

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: GB-95-35 | |
| 5405 | Huronian sediments (sandstone and siltstones slightly chloritized). |
| 5406 | Huronian sediments (sandstone and siltstones slightly chloritized). |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 01-May-96

ATTENTION: MSSRS. CHRISTIE AND KNOWLES

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393 Larder lake

PROJECT: H195 5613 to 5632

FILE NO: H2161APK.WR1

NO. OF SAMPLES: 20

THESE SAMPLES WERE PROCESSED FOR: VISIBLE GOLD GRAINS
KIMBERLITE INDICATORS

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: Presently working on Projects 54, 217 and 53. Project 52 near complete. Data to follow soon-

Rémy Huneault
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

05/01/96
PROJECT:
TOTAL OF 20 SAMPLES.
FILENAME:

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | SAMPLE DESCRIPTION: CLASTS >2.0 mm PERCENTAGE V/S | GR | LS | OTH | MATRIX <2.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | | | | | | |
| 5613 | 8.70 | 8.70 | 0.30 | 0.50 | 7.90 | C | 100 | 0 | 0 | NA | U | Y | Y | + | GY | GY | | TILL |
| 5614 | 17.95 | 14.00 | 1.95 | 7.75 | 4.30 | C | 100 | 0 | 0 | NA | U | Y | Y | Y | GG | GG | | TILL |
| 5615 | 18.95 | 18.95 | 6.90 | 3.25 | 8.80 | C | 100 | 0 | 0 | NA | U | Y | Y | Y | GY | GY | | TILL |
| 5616 | 16.20 | 16.20 | 6.10 | 2.80 | 7.30 | C | 100 | 0 | 0 | NA | U | Y | Y | Y | GY | GB | | TILL |
| 5617 | 8.05 | 8.05 | 3.30 | 1.70 | 3.05 | C | 100 | 0 | 0 | NA | U | Y | Y | Y | GG | GG | | TILL |
| 5618 | 8.40 | 8.40 | 1.25 | 1.25 | 5.90 | C | 95 | 5 | 0 | NA | U | Y | Y | Y | GY | GY | | TILL |
| 5619 | 14.10 | 14.10 | 3.35 | 2.25 | 8.50 | C | 60 | 40 | 0 | NA | U | Y | Y | - | GB | GB | | TILL |
| 5620 | 10.05 | 10.05 | 2.90 | 2.00 | 5.15 | C | 50 | 50 | 0 | NA | S | M | - | - | B | B | | SAND+GRAV |
| 5621 | 10.95 | 10.95 | 3.10 | 2.10 | 5.75 | C | 50 | 50 | 0 | NA | S | + | - | - | GB | B | | SAND |
| 5622 | 13.25 | 13.25 | 3.75 | 2.80 | 6.70 | C | 50 | 50 | 0 | NA | S | M | - | - | B | B | | SAND |
| 5623 | 17.60 | 15.00 | 4.50 | 2.70 | 7.80 | C | 65 | 35 | 0 | NA | S | M | - | - | GB | B | | SAND |
| 5624 | 18.75 | 15.00 | 2.65 | 2.30 | 10.05 | C | 60 | 40 | 0 | NA | S | M | - | - | GB | B | | SAND |
| 5625 | 4.35 | 4.35 | 0.80 | 0.60 | 2.95 | C | 65 | 35 | 0 | NA | S | M,F | Y | Y | GB | GB | | SAND |
| 5626 | 16.20 | 14.00 | 3.45 | 2.95 | 7.60 | C | 85 | 15 | 0 | NA | S | M | Y | Y | GB | B | | SAND |
| 5627 | 6.45 | 6.45 | 1.90 | 0.90 | 3.65 | C | 95 | 5 | 0 | NA | U | Y | Y | Y | GY | GY | | TILL |
| 5628 | 2.60 | 2.60 | 0.60 | 0.55 | 1.45 | C | 95 | 5 | 0 | NA | U | + | + | - | GY | GY | | TILL |
| 5629 | 13.15 | 13.15 | 6.95 | 1.25 | 4.95 | C | 85 | 15 | 0 | NA | U | Y | Y | Y | GY | GY | | TILL |
| 5630 | 16.95 | 16.95 | 7.60 | 3.15 | 6.20 | C | 90 | 10 | 0 | NA | S | M,C | Y | Y | GG | GB | | SAND+GRAV |
| 5631 | 9.35 | 9.35 | 3.45 | 1.85 | 4.05 | C | 95 | 5 | 0 | NA | U | + | Y | Y | GG | GB | | TILL |
| 5632 | 4.65 | 4.65 | 1.45 | 1.05 | 2.15 | C | 95 | 5 | 0 | NA | U | + | Y | Y | GN | GG | | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

05/01/96
PROJECT: H195
TOTAL OF 20 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE (1.0 mm (grams) | | | | | | | | KIM COUNT | | | | | | | TOTAL KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 mm | | | | | 0.25 TO 0.5 mm | | |
| | TOTAL | -0.25 mm | M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 mm | 0.25 TO 0.5 mm | -0.25 mm | TOTAL MAG | GP | GO | DC | IM | CR | GP | DC | |
| H195 | | | | | | | | | | | | | | | | |
| 5613 | 473.2 | NA | 380.5 | 81.3 | 8.0 | 9.6 | 63.7 | 11.4 | 4 | 0 | 0 | 5 | 0 | 35 | 0 | 44 |
| 5614 | 1058.2 | NA | 938.4 | 102.0 | 8.4 | 14.9 | 78.7 | 17.8 | 142 | 32 | 0 | 675 | 6 | 1800 (225) | 8 | 2663 |
| 5615 | 988.6 | NA | 801.2 | 163.9 | 26.3 | 46.6 | 91.0 | 23.5 | 1000 (250) | 156 (39) | 4 (1) | 5200 (325) | 32 (32) | 7360 (115) | 320 (5) | 14072 |
| 5616 | 425.2 | NA | 298.5 | 108.6 | 12.8 | 19.7 | 76.1 | 18.1 | 412 (103) | 104 (26) | 0 | 2816 (352) | 20 (5) | 3280 (205) | 16 (1) | 6648 |
| 5617 | 366.8 | NA | 312.8 | 47.4 | 4.2 | 11.4 | 31.8 | 6.6 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 10 |
| 5618 | 470.0 | NA | 397.5 | 64.1 | 7.0 | 9.3 | 47.8 | 8.4 | 7 | 0 | 0 | 7 | 0 | 60 | 1 | 75 |
| 5619 | 909.8 | NA | 781.2 | 107.2 | 10.2 | 25.6 | 71.4 | 21.4 | 13 | 2 | 3 | 19 | 0 | 232 | 22 | 291 |
| 5620 | 523.9 | NA | 441.2 | 65.9 | 5.7 | 12.8 | 47.4 | 16.8 | 15 | 4 | 2 | 19 | 1 | 220 | 9 | 270 |
| 5621 | 632.7 | NA | 513.6 | 97.4 | 7.3 | 20.6 | 69.5 | 21.7 | 11 | 1 | 4 | 7 | 0 | 172 | 17 | 212 |
| 5622 | 374.2 | NA | 260.2 | 93.3 | 6.3 | 17.6 | 69.4 | 20.7 | 16 | 6 | 1 | 45 | 3 | 210 | 10 | 291 |
| 5623 | 481.9 | NA | 337.1 | 124.1 | 8.9 | 23.7 | 91.5 | 20.7 | 6 | 4 | 2 | 8 | 0 | 156 | 15 | 191 |
| 5624 | 812.7 | NA | 653.5 | 133.2 | 7.9 | 28.7 | 96.6 | 26.0 | 3 | 1 | 10 | 8 | 1 | 78 | 8 | 109 |
| 5625 | 227.5 | NA | 182.0 | 39.6 | 2.8 | 8.1 | 28.7 | 5.9 | 1 | 0 | 0 | 0 | 0 | 39 | 7 | 47 |
| 5626 | 428.0 | NA | 319.7 | 89.0 | 7.3 | 18.4 | 63.3 | 19.3 | 6 | 1 | 2 | 24 | 2 | 142 | 3 | 180 |
| 5627 | 309.0 | NA | 256.6 | 43.6 | 1.7 | 4.8 | 37.1 | 8.8 | 2 | 0 | 0 | 1 | 0 | 22 | 0 | 25 |
| 5628 | 169.6 | NA | 147.8 | 18.4 | 1.7 | 3.6 | 13.1 | 3.4 | 4 | 0 | 0 | 3 | 0 | 11 | 0 | 18 |
| 5629 | 520.9 | NA | 448.1 | 60.8 | 5.7 | 13.8 | 41.3 | 12.0 | 10 | 3 | 1 | 33 | 3 | 105 | 1 | 156 |
| 5630 | 497.3 | NA | 432.3 | 57.9 | 9.3 | 14.3 | 34.3 | 7.1 | 14 | 0 | 0 | 30 | 1 | 82 | 6 | 133 |
| 5631 | 391.0 | NA | 334.9 | 49.0 | 5.7 | 10.7 | 32.6 | 7.1 | 8 | 1 | 0 | 21 | 0 | 64 | 2 | 96 |
| 5632 | 173.3 | NA | 163.5 | 8.3 | 1.0 | 1.8 | 5.5 | 1.5 | 1 | 0 | 0 | 3 | 0 | 11 | 0 | 15 |

KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: H195 | |
| 5613 | Also picked 4 GO from 0.25-0.5 mm fraction. |
| 5614 | Approximately 10 of 142 GP from 0.5-1.0 mm fraction have kelyphite rind. Also picked 1 pale emerald-green low Cr-diopside from 0.5-1.0 mm fraction. Picked 225 GP from 1/8 split of +0.6 amp of 0.25-0.5 mm fraction. Also picked 23 GO from 1/8 split of +0.6 amp portion of 0.25-0.5 mm fraction; 8 DC picked from entire 0.25-0.5 mm fraction. |
| 5615 | Picked 250 GP, 39 GO, 1DC and 8 CR from 1/4 split (6.60 g) of 0.5-1.0 mm fraction and 325 IM from 1/16 split (1.65 g) of 0.5-1.0 mm fraction. Picked 115 GP, 5 DC and 20 GO from 1/64 split (0.50 g) of +0.6 amp portion of 0.25-0.5 mm fraction. |
| 5616 | Picked 103 GP, 26 GO and 5 CR from 1/4 split (3.20 g) and 352 IM from 1/8 split (1.60 g) of 0.5-1.0 mm fraction. Picked 205 GP and 1 DC from 1/16 split (0.81 g) of +0.6 amp portion of 0.25-0.5 mm fraction. Also picked 14 GO, 1 CR and 1 pale emerald-green low Cr-diopside from 1/16 split of 0.25-0.5 mm fraction. |
| 5617 | Also picked 1 GO from 0.25-0.5 mm fraction. |
| 5618 | Also picked 5 GO from 0.25-0.5 mm fraction. |
| 5619 | Also picked 12 GO from 0.25-0.5 mm fraction. |
| 5620 | Also picked 20 GO from 0.25-0.5 mm fraction. |
| 5621 | Also picked 2 pale emerald-green low Cr-diopside and 11 GO from 0.25-0.5 mm fraction. |
| 5622 | Also picked 18 GO from 0.25-0.5 mm fraction. |
| 5623 | Also picked 1 pale emerald-green low Cr-diopside from 0.5-1.0 mm fraction; 7 pale emerald-reen low Cr-diopside and 8 GO from 0.25-0.5 mm fraction. |
| 5624 | Also picked 1 pale emerald-green low Cr-diopside from 0.5-1.0 mm fraction; 5 pale emerald-reen low Cr-diopside and 3 GO from 0.25-0.5 mm fraction. |
| 5625 | Also picked 3 GO from 0.25-0.5 mm fraction. |
| 5626 | Also picked 1 pale emerald-green low Cr-diopside and 6 GO from 0.25-0.5 mm fraction. |
| 5627 | Also picked 1 pale emerald-green low Cr-diopside and 1 GO from 0.25-0.5 mm fraction. |

KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: H195 | |
| 5628 | Concentrate is predominantly rock chips. Also picked 1 GO from 0.25-0.5 mm fraction. |
| 5629 | Also picked 6 GO from 0.25-0.5 mm fraction. |
| 5630 | Also picked 11 GO from 0.25-0.5 mm fraction. |
| 5631 | Also picked 7 GO from 0.25-0.5 mm fraction. |

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

HUBACHEK\H1951APR.WR2

| Sample No. | Number of Visible Gold Grains | | | | Non-Mag Weight | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| H195 | | | | | | | | | |
| 5613 | 9 | 8 | 1 | 0 | 81.3 | 47 | 46 | 1 | 0 |
| 5614 | 2 | 2 | 0 | 0 | 102.0 | 4 | 4 | 0 | 0 |
| 5615 | 6 | 6 | 0 | 0 | 163.9 | 14 | 14 | 0 | 0 |
| 5616 | 8 | 0 | 8 | 0 | 108.6 | 9 | 0 | 9 | 0 |
| 5617 | 1 | 0 | 1 | 0 | 47.4 | 1 | 0 | 1 | 0 |
| 5618 | 7 | 5 | 2 | 0 | 64.1 | 156 | 34 | 122 | 0 |
| 5619 | 2 | 2 | 0 | 0 | 107.2 | 7 | 7 | 0 | 0 |
| 5620 | 4 | 4 | 0 | 0 | 65.9 | 7 | 7 | 0 | 0 |
| 5621 | 1 | 1 | 0 | 0 | 97.4 | 1 | 1 | 0 | 0 |
| 5622 | 0 | 0 | 0 | 0 | 93.3 | 0 | 0 | 0 | 0 |
| 5623 | 2 | 0 | 2 | 0 | 124.1 | 5 | 0 | 5 | 0 |
| 5624 | 0 | 0 | 0 | 0 | 133.2 | 0 | 0 | 0 | 0 |
| 5625 | 0 | 0 | 0 | 0 | 39.6 | 0 | 0 | 0 | 0 |
| 5626 | 0 | 0 | 0 | 0 | 89.0 | 0 | 0 | 0 | 0 |
| 5627 | 0 | 0 | 0 | 0 | 43.6 | 0 | 0 | 0 | 0 |
| 5628 | 1 | 0 | 1 | 0 | 18.4 | 4 | 0 | 4 | 0 |
| 5629 | 2 | 0 | 2 | 0 | 60.8 | 2 | 0 | 2 | 0 |
| 5630 | 0 | 0 | 0 | 0 | 57.9 | 0 | 0 | 0 | 0 |
| 5631 | 0 | 0 | 0 | 0 | 49.0 | 0 | 0 | 0 | 0 |
| 5632 | 1 | 0 | 1 | 0 | 8.3 | 77 | 0 | 77 | 0 |

## GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H195IAPR.WR2

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| 5613 | Y | 15 X 15 | 3 C | 1 | | | | | | 1 | | | 1% pyrite |
| | | 25 X 50 | 8 C | 3 | | 1 | | | | 4 | | | The concentrate is rich in iron |
| | | 25 X 75 | 10 C | | 1 | | | | | 1 | | | oxides. Many iron oxide granules |
| | | 50 X 50 | 10 C | 2 | | | | | | 2 | | | contain almost massive pyrite. |
| | | 75 X 175 | 25 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 9 | 81.3 | 47 | |
| 5614 | Y | 15 X 15 | 3 C | 1 | | | | | | 1 | | | 35% pyrite; ~0.1% galena |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | ~100 grains of cobaltite |
| | | | | | | | | | | 2 | 102.0 | 4 | |
| 5615 | Y | 15 X 25 | 4 C | 1 | | | | | | 1 | | | 40% pyrite; ~0.1% galena |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | ~100 grains of cobaltite |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 125 | 18 C | 1 | 1 | | | | | 2 | | | |
| | | | | | | | | | | 6 | 163.9 | 14 | |
| 5616 | Y | 15 X 25 | 4 C | | | 1 | | | | 1 | | | 40% pyrite |
| | | 15 X 50 | 7 C | | | 1 | | | | 1 | | | ~1000 grains of galena |
| | | 25 X 25 | 5 C | | | 2 | | | | 2 | | | |
| | | 25 X 50 | 8 C | | | 2 | 1 | | | 3 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 8 | 108.6 | 9 | |
| 5617 | N | 15 X 50 | 7 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 47.4 | 1 | |
| 5618 | Y | 15 X 15 | 3 C | 2 | | | | | | 2 | | | 15% pyrite; TR. arspy. (~200 grains |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | of arspy.) |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 75 X 150 | 22 C | 1 | | | | | | 1 | | | |
| | | 125 X 225 | 34 C | | | | 1 | | | 1 | | | |
| | | | | | | | | | | 7 | 64.1 | 156 | |
| 5619 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 107.2 | 7 | |

## GOLD CLASSIFICATION

### VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H195\APR.WB2

TOTAL # OF PANNINGS

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| 5620 | N | 15 X 25 | 4 C | 2 | | | | | | 2 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 4 | 65.9 | 7 | |
| 5621 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 97.4 | 1 | |
| 5622 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5623 | N | 25 X 100 | 13 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 2 | 124.1 | 5 | |
| 5624 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5625 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5626 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5627 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5628 | N | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 18.4 | 4 | |
| 5629 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 2 | 60.8 | 2 | |
| 5630 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5631 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5632 | N | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 8.3 | 77 | |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 21-May-96

ATTENTION: MSSRS. CHRISTIE AND KNOWLES

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393 Larder lake

PROJECT: H195 5633 to 5681

FILE NO: H2161APK.WR1

NO. OF SAMPLES: 20

THESE SAMPLES WERE PROCESSED FOR: VISIBLE GOLD GRAINS
KIMBERLITE INDICATORS

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: 8 pages.

Remy Huneault
Laboratory Manager

# OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG: ABBREVIATIONS TABLE

## DATA LOG

### Clast:

Size of Clast:

- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

% Clast Composition:

- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

### Matrix:

- S/U: Sorted or Unsorted
- SD: Sand ——————— F: Fine
- ST: Silt | M: Medium
- CY: Clay | C: Coarse
- OR: Organics

- Y: Fraction Present
- +: Fraction relatively more abundant
- -: Fraction relatively less abundant
- N: Fraction Not Present
- L: Lumps Present

### Colour:

| | | | |
|---|---|---|---|
| B: | Beige | PP: | Purple |
| GY: | Grey | PK: | Pink |
| GB: | Grey Beige | OC: | Ochre |
| GN: | Green | | |
| GG: | Grey Green | L: | Light |
| BN: | Brown | M: | Medium |
| BK: | Black | D: | Dark |

## GOLD LOG

Number of Grains:

- T: Number Found on Shaking Table
- P: Number Found by Panning

Thickness:

- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

Remarks:

| | |
|---|---|
| % | Percentage of HMC (estimate from panning of table concentrate) |
| gr. | Grains (estimated number) |
| uM | Microns (1/1000 mm) |
| py. | Pyrite |
| cpy. | Chalcopyrite |
| aspy. | Arsenopyrite |
| marc. | Marcasite |
| L/G | Limonite/Goethite |
| sid. | Siderite |

## KIM LOG

- GP: Purple garnet (G9/G10 chrome pyrope)
- GO: Orange mantle garnet; includes both eclogitic (G3) and Cr-poor megacryst (G1/G2) varieties; in some samples, may include a few grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces.
- DC: Chrome diopside, emerald green; paler green low-Cr diopside picked separately.
- IL: Picroilmenite; in some samples, may include a few grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces.
- CR: Chromite

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

05/21/96
PROJECT:
TOTAL OF 20 SAMPLES.
FILENAME:

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | SAMPLE DESCRIPTION: CLASTS >2.0 mm PERCENTAGE V/S | GR | LS | OTH | MATRIX (1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | | | | | | |
| 5633 | 14.15 | 11.00 | 3.60 | 1.35 | 6.05 | C | 95 | 5 | 0 | NA | G | M,C | - | - | GG | GG | | GRAVEL |
| 5634 | 14.85 | 14.85 | 4.40 | 3.35 | 7.10 | C | 90 | 10 | 0 | NA | S | M | - | - | GG | GB | | SAND |
| 5635 | 10.65 | 10.65 | 4.40 | 2.00 | 4.25 | C | 90 | 10 | 0 | NA | S | M,C | - | - | GG | GB | | GRAVEL |
| 5636 | 14.00 | 14.00 | 3.75 | 2.25 | 8.00 | C | 90 | 10 | 0 | NA | S | M,C | - | - | GG | GB | | GRAVEL |
| 5637 | 15.30 | 15.30 | 5.05 | 2.70 | 7.55 | C | 90 | 10 | 0 | NA | U | + | Y | - | GG | GB | | TILL |
| 5638 | 1.00 | 1.00 | 0.00 | 0.15 | 0.85 | | 0 | 0 | 0 | NA | U | Y | Y | Y | GG | GG | | TILL |
| 5639 | 12.00 | 12.00 | 4.95 | 2.80 | 4.85 | C | 95 | 5 | 0 | NA | U | + | - | - | GG | GG | | TILL |
| 5640 | 15.65 | 15.65 | 2.80 | 4.55 | 8.30 | C | 95 | 5 | 0 | NA | S | M | - | - | GG | GG | | SAND |
| 5641 | 20.10 | 20.10 | 3.20 | 8.35 | 8.55 | C | 85 | 15 | 0 | NA | U | + | - | - | GY | GB | | TILL |
| 5642 | 4.30 | 4.30 | 0.70 | 1.35 | 2.25 | C | 85 | 15 | 0 | NA | U | + | Y | - | GG | GG | | TILL |
| 5643 | 15.75 | 11.00 | 1.95 | 2.35 | 6.70 | C | 98 | 2 | 0 | NA | U | + | Y | - | GN | GG | | TILL |
| 5644 | 5.35 | 5.35 | 1.70 | 1.15 | 2.50 | C | 98 | 2 | 0 | NA | U | + | Y | - | GN | GG | | TILL |
| 5645 | 12.40 | 12.40 | 3.60 | 2.20 | 6.60 | C | 95 | 5 | 0 | NA | U | Y | Y | Y | GB | GB | | TILL |
| 5646 | 1.65 | 1.65 | 0.40 | 0.30 | 0.95 | C | 98 | 2 | 0 | NA | S | M | - | - | GY | GY | | SAND |
| 5647 | 6.70 | 6.70 | 1.90 | 1.25 | 3.55 | C | 100 | 0 | 0 | NA | S | M,C | - | - | GB | GB | | GRAVEL |
| 5648 | 14.10 | 14.10 | 3.60 | 2.20 | 8.30 | C | 95 | 5 | 0 | NA | U | + | Y | - | GG | GB | | TILL |
| 5649 | 12.25 | 12.25 | 3.35 | 2.20 | 6.70 | C | 90 | 10 | 0 | NA | U | Y | Y | Y | GB | GB | | TILL |
| 5650 | 13.85 | 13.85 | 3.95 | 1.85 | 8.05 | C | 90 | 10 | 0 | NA | U | + | - | - | GB | GB | | TILL |
| 5651 | 21.05 | 17.00 | 3.45 | 3.75 | 9.80 | C | 90 | 10 | 0 | NA | U | + | - | - | GB | GB | | TILL |
| 5681 | 11.75 | 11.75 | 2.10 | 2.40 | 7.25 | C | 85 | 15 | 0 | NA | U | + | - | - | GB | GB | | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

05/21/96
PROJECT: H195
TOTAL OF 20 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE (1.0 mm (grams) TOTAL | -0.25 mm | M.I. SEPARATION S.G 3.20 M.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 mm | 0.25 TO 0.5 mm | -0.25 mm | TOTAL MAG | KIM COUNT 0.5 TO 1 mm GP | GO | DC | IN | CR | 0.25 TO 0.5 mm GP | DC | TOTAL KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | | | | |
| 5633 | 796.5 | NA | 695.9 | 72.2 | 14.3 | 21.7 | 36.2 | 28.4 | 23 | 4 | 0 | 135 | 5 | 210 | 1 | 378 |
| 5634 | 541.1 | NA | 432.3 | 77.5 | 10.2 | 24.2 | 43.1 | 31.3 | 49 | 8 | 0 | 142 | 6 | 324 | 7 | 536 |
| | | | | | | | | | | | | | | (162) | | |
| 5635 | 448.1 | NA | 379.9 | 47.8 | 6.1 | 11.6 | 30.1 | 20.4 | 22 | 4 | 0 | 72 | 2 | 128 | 0 | 228 |
| 5636 | 622.6 | NA | 514.7 | 82.2 | 8.7 | 18.2 | 55.3 | 25.7 | 21 | 3 | 1 | 133 | 3 | 301 | 1 | 463 |
| 5637 | 659.7 | NA | 593.2 | 47.0 | 5.4 | 11.3 | 30.3 | 19.5 | 18 | 3 | 0 | 66 | 0 | 106 | 1 | 194 |
| 5638 | 141.4 | NA | 123.7 | 16.4 | 1.8 | 2.8 | 11.8 | 1.3 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 4 |
| 5639 | 561.1 | NA | 446.1 | 94.8 | 9.1 | 28.1 | 57.6 | 20.2 | 11 | 3 | 0 | 36 | 0 | 107 | 0 | 157 |
| 5640 | 758.1 | NA | 666.7 | 77.1 | 7.1 | 17.5 | 52.5 | 14.3 | 31 | 6 | 0 | 154 | 3 | 287 | 2 | 483 |
| 5641 | 783.5 | NA | 639.6 | 108.5 | 16.7 | 24.7 | 67.1 | 35.4 | 260 | 40 | 4 | 1460 | 12 | 1088 | 3 | 2867 |
| | | | | | | | | | (65) | (10) | (1) | (365) | (3) | (136) | | |
| 5642 | 302.0 | NA | 269.5 | 20.6 | 3.0 | 4.4 | 13.2 | 11.9 | 56 | 8 | 0 | 245 | 1 | 167 | 1 | 478 |
| 5643 | 834.4 | NA | 738.5 | 83.3 | 12.2 | 21.1 | 50.0 | 12.6 | 10 | 2 | 0 | 50 | 0 | 80 | 0 | 142 |
| 5644 | 408.8 | NA | 392.9 | 13.4 | 1.9 | 2.9 | 8.6 | 2.5 | 2 | 0 | 0 | 7 | 0 | 9 | 0 | 18 |
| 5645 | 685.5 | NA | 600.9 | 68.7 | 7.3 | 13.2 | 48.2 | 15.9 | 3 | 2 | 0 | 12 | 0 | 24 | 0 | 41 |
| 5646 | 190.0 | NA | 180.0 | 8.6 | 1.0 | 1.6 | 6.0 | 1.4 | 3 | 0 | 0 | 4 | 0 | 7 | 1 | 15 |
| 5647 | 585.0 | NA | 538.5 | 45.6 | 39.0 | 1.6 | 5.0 | 0.9 | 0 | 0 | 0 | 3 | 0 | 11 | 0 | 14 |
| 5648 | 776.2 | NA | 639.7 | 105.9 | 10.8 | 20.4 | 74.7 | 30.6 | 27 | 7 | 0 | 89 | 0 | 253 | 2 | 378 |
| 5649 | 591.2 | NA | 493.0 | 75.7 | 7.5 | 15.5 | 52.7 | 22.5 | 23 | 4 | 0 | 87 | 0 | 211 | 6 | 331 |
| 5650 | 727.9 | NA | 606.8 | 98.9 | 7.7 | 16.3 | 74.9 | 22.2 | 11 | 2 | 0 | 69 | 0 | 157 | 3 | 242 |
| 5651 | 616.2 | NA | 485.7 | 106.8 | 15.8 | 24.8 | 66.2 | 23.7 | 37 | 9 | 0 | 148 | 0 | 286 | 6 | 486 |
| 5681 | 574.8 | NA | 515.2 | 49.7 | 5.1 | 9.5 | 35.1 | 9.9 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 6 |

KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: H195 | |
| 5633 | SEM confised 1 pale pink/purple fractured GP with kelyphite along fractures from 0.5-1.0 mm fraction. Also picked 21 GO, 5 pale emerald-green low Cr-diopside and 2 CR from 0.25-0.5 mm fraction. |
| 5634 | Picked 162 GP and 9 GO from 1/2 split (6.74 g) 0.25-0.5 mm picking fraction (0.6 amp). |
| 5635 | Also picked 1 pale emerald green low-Cr diopside and 13 GO from 0.25-0.5 mm fraction. |
| 5636 | Also picked 49 GO from 0.25-0.5 mm fraction. |
| 5637 | SEM confirmed of 1 of 3 GO from 0.5-1.0 mm fraction. Also picked 20 GO from 0.25-0.5 mm fraction. |
| 5638 | Concentrate is predominantly volcanic rock chips. |
| 5639 | SEM check 1 intense emerald green DC candidate from 0.25-0.5 mm fraction = Cr-grossular. Also picked 17 GO from 0.25-0.5 mm fraction. |
| 5640 | Also picked 26 GO from 0.25-0.5 mm fraction. |
| 5641 | Picked 1/4 split (4.16 g) of 0.5-1.0 mm fraction. Picked 132 GP from 1/8 split (1.82 g) of 0.25-0.5 mm picking fraction ()0.6 amp). Also picked 11 GO, 1 pale emerald green low-Cr diopside and 2 CR from 0.25-0.5 mm picking fraction (0.6 amp). |
| 5642 | Also picked 1 pale emerald green low-Cr diopside and 10 GO from 0.25-0.5 mm fraction. |
| 5643 | Also picked 5 GO from 0.25-0.5 mm fraction. |
| 5645 | Also picked 1 pale emerald green low-Cr diopside and 4 GO from 0.25-0.5 mm fraction. |
| 5646 | Also picked 3 GO from 0.25-0.5 mm fraction. |
| 5647 | Also picked 2 GO from 0.25-0.5 mm fraction. |
| 5649 | Also picked 13 GO from 0.25-0.5 mm fraction. |
| 5650 | Also picked 11 GO from 0.25-0.5 mm fraction. |

## OVERBURDEN DRILLING MANAGEMENT LIMITED

### GOLD GRAIN SUMMARY SHEET

HUBACHEK\H195APR.WR2

| Sample No. | Number of Visible Gold Grains | | | | Non-Mag Weight | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| H195 | | | | | | | | | |
| 5633 | 0 | 0 | 0 | 0 | 72.2 | 0 | 0 | 0 | 0 |
| 5634 | 0 | 0 | 0 | 0 | 77.5 | 0 | 0 | 0 | 0 |
| 5635 | 1 | 0 | 0 | 1 | 47.8 | 8 | 0 | 0 | 8 |
| 5636 | 0 | 0 | 0 | 0 | 82.2 | 0 | 0 | 0 | 0 |
| 5637 | 1 | 0 | 0 | 1 | 47.0 | 2 | 0 | 0 | 2 |
| 5638 | 0 | 0 | 0 | 0 | 16.4 | 0 | 0 | 0 | 0 |
| 5639 | 0 | 0 | 0 | 0 | 94.8 | 0 | 0 | 0 | 0 |
| 5640 | 3 | 0 | 3 | 0 | 77.1 | 14 | 0 | 14 | 0 |
| 5641 | 11 | 4 | 4 | 3 | 108.5 | 20 | 10 | 8 | 1 |
| 5642 | 0 | 0 | 0 | 0 | 20.6 | 0 | 0 | 0 | 0 |
| 5643 | 6 | 2 | 1 | 3 | 83.3 | 96 | 87 | 2 | 6 |
| 5644 | 1 | 1 | 0 | 0 | 13.4 | 6 | 6 | 0 | 0 |
| 5645 | 1 | 0 | 1 | 0 | 68.7 | 15 | 0 | 15 | 0 |
| 5646 | 1 | 0 | 1 | 0 | 8.6 | 3 | 0 | 3 | 0 |
| 5647 | 0 | 0 | 0 | 0 | 45.6 | 0 | 0 | 0 | 0 |
| 5648 | 2 | 1 | 1 | 0 | 105.9 | 3 | 2 | 1 | 0 |
| 5649 | 3 | 2 | 1 | 0 | 75.7 | 4 | 1 | 3 | 0 |
| 5650 | 1 | 1 | 0 | 0 | 98.9 | 0 | 0 | 0 | 0 |
| 5651 | 3 | 1 | 2 | 0 | 106.8 | 13 | 0 | 13 | 0 |
| 5681 | 2 | 2 | 0 | 0 | 49.7 | 15 | 15 | 0 | 0 |

## GOLD CLASSIFICATION

### VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H195APR.WR2

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL # OF PANNINGS 6 | | | | | | | | | | | | | |
| H195 | | | | | | | | | | | | | |
| 5633 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5634 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5635 | Y | 50 X 75 | 13 C | | | | | 1 | | 1 | | | 30% pyrite |
| | | | | | | | | | | 1 | 47.8 | 8 | |
| 5636 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5637 | Y | 25 X 50 | 8 C | | | | | 1 | | 1 | | | 7% pyrite |
| | | | | | | | | | | 1 | 47.0 | 2 | |
| 5638 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5639 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5640 | Y | 25 X 50 | 8 C | | | 1 | | | | 1 | | | 25% pyrite |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 3 | 77.1 | 14 | |
| 5641 | Y | 25 X 25 | 5 C | | | | | | 2 | 2 | | | 40% pyrite |
| | | 25 X 50 | 8 C | 1 | | 3 | | 1 | | 5 | | | |
| | | 25 X 125 | 15 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | 1 | | | | | 2 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 11 | 108.5 | 20 | |
| 5642 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5643 | Y | 25 X 50 | 8 C | | | | | 1 | 1 | 2 | | | 40% pyrite |
| | | 25 X 75 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | | | 1 | | 1 | | | |
| | | 50 X 125 | 18 C | | 1 | | | | | 1 | | | |
| | | 125 X 200 | 31 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 6 | 83.3 | 96 | |
| 5644 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 13.4 | 6 | |

## GOLD CLASSIFICATION

### VISIBLE GOLD FROM SHAKING TABLE AND PANNING

MUBACHEK\H195GPR.WR2

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| 5645 | N | 50 X 125 | 18 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 68.7 | 15 | |
| 5646 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 8.6 | 3 | |
| 5647 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5648 | N | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 105.9 | 3 | |
| 5649 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 3 | 75.7 | 4 | |
| 5650 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 98.9 | 0 | |
| 5651 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | 50 X 125 | 18 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 3 | 106.8 | 13 | |
| 5681 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 75 X 75 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 49.7 | 15 | |

## GOLD CLASSIFICATION

### VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H195GOR.WR2

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| 5645 | N | 50 X 125 | 18 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 68.7 | 15 | |
| 5646 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 8.6 | 3 | |
| 5647 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5648 | N | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 105.9 | 3 | |
| 5649 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 3 | 75.7 | 4 | |
| 5650 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 1 | 98.9 | 0 | |
| 5651 | N | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | | | 1 | | | | 1 | | | |
| | | 50 X 125 | 18 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 3 | 106.8 | 13 | |
| 5681 | N | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 75 X 75 | 15 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 2 | 49.7 | 15 | |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 29-May-96

ATTENTION: MSSRS. CHRISTIE AND KNOWLES

CLIENT: W.A. HUBACHECK CONSULTANTS LIMITED
141 Adelaide Street West, Suite 1401
Toronto, Ont.
M5H 3L5

FAX NO.: 416 364-5384
705 643-2393 Larder lake

PROJECT: H195 5982 to 5710

FILE NO: H1951APK.WR1

NO. OF SAMPLES: 29

THESE SAMPLES WERE PROCESSED FOR: VISIBLE GOLD GRAINS
KIMBERLITE INDICATORS

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL -250 MICRON HMC SENT FOR ANALYSIS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: Project 195 now completed. Note that we combined the H.M.C. from samples 5692, 5693, 5694 For analysis because they were too small (as we discussed) last week

Remy Huneault
Laboratory Manager

9 pages

# OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG: ABBREVIATIONS TABLE

## DATA LOG

**Clast:**

Size of Clast:
- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

% Clast Composition:
- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

**Matrix:**

- S/U: Sorted or Unsorted
- SD: Sand ——————— F: Fine
- ST: Silt | M: Medium
- CY: Clay | C: Coarse
- OR: Organics

- Y: Fraction Present
- +: Fraction relatively more abundant
- -: Fraction relatively less abundant
- N: Fraction Not Present
- L: Lumps Present

**Colour:**

| | | | |
|---|---|---|---|
| B: | Beige | PP: | Purple |
| GY: | Grey | PK: | Pink |
| GB: | Grey Beige | OC: | Ochre |
| GN: | Green | | |
| GG: | Grey Green | L: | Light |
| BN: | Brown | M: | Medium |
| BK: | Black | D: | Dark |

## GOLD LOG

**Number of Grains:**
- T: Number Found on Shaking Table
- P: Number Found by Panning

**Thickness:**
- C: Calculated Thickness of Grain (in microns)
- M: Actual Measured Thickness of Grain (in microns)

**Remarks:**

| | |
|---|---|
| % | Percentage of HMC (estimate from panning of table concentrate) |
| gr. | Grains (estimated number) |
| uM | Microns (1/1000 mm) |
| py. | Pyrite |
| cpy. | Chalcopyrite |
| aspy. | Arsenopyrite |
| marc. | Marcasite |
| L/G | Limonite/Goethite |
| sid. | Siderite |

## KIM LOG

- GP: Purple garnet (G9/G10 chrome pyrope)
- GO: Orange mantle garnet; includes both eclogitic (G3) and Cr-poor megacryst (G1/G2) varieties; in some samples, may include a few grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces.
- DC: Chrome diopside, emerald green; paler green low-Cr diopside picked separately.
- IL: Picroilmenite; in some samples, may include a few grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces.
- CR: Chromite

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

05/29/96
PROJECT:
TOTAL OF 29 SAMPLES.

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK REC'VED | TABLE SPLIT | +2 mm CLASTS | 1-2 mm CLASTS | TABLE FEED | SIZE | CLASTS >2.0 mm PERCENTAGE V/S | GR | LS | OTH | MATRIX (1.0 mm GRAIN SIZE DISTRIBUTION S/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | | | | | | |
| 5682 | 12.40 | 12.40 | 3.40 | 2.10 | 6.90 | C | 95 | 5 | 0 | NA | U | Y | Y | - | GB | GB | | TILL |
| 5683 | 21.80 | 15.00 | 2.50 | 3.60 | 8.90 | C | 95 | 5 | 0 | NA | U | Y | Y | - | GG | GB | | TILL |
| 5684 | 12.00 | 12.00 | 1.85 | 3.65 | 6.50 | C | 95 | 5 | 0 | NA | U | + | Y | - | GG | GG | | TILL+BLD |
| 5685 | 14.30 | 14.30 | 1.85 | 4.80 | 7.65 | C | 95 | 5 | 0 | NA | U | + | Y | - | GG | GB | | TILL |
| 5686 | 19.40 | 14.00 | 2.05 | 2.95 | 9.00 | C | 95 | 5 | 0 | NA | U | + | Y | - | BG | GB | | TILL |
| 5687 | 14.20 | 14.20 | 2.15 | 3.25 | 8.80 | C | 95 | 5 | 0 | NA | U | + | Y | - | GG | GB | | TILL |
| 5688 | 14.00 | 14.00 | 2.10 | 2.65 | 9.25 | C | 90 | 10 | 0 | NA | U | + | Y | - | GG | GB | | TILL |
| 5689 | 14.00 | 14.00 | 1.85 | 3.50 | 8.65 | C | 90 | 10 | 0 | NA | S | M,C | - | N | GB | NA | | SAND+GRAV |
| 5690 | 13.95 | 13.95 | 1.95 | 4.30 | 7.70 | C | 60 | 40 | 0 | NA | U | M | - | - | GB | GB | | SAND+GRAV |
| 5691 | 2.95 | 2.95 | 0.45 | 0.55 | 1.95 | C | 85 | 15 | 0 | NA | S | M | - | + | BN | OC | | SAND+CLAY |
| 5692 | 23.50 | 13.00 | 0.20 | 0.20 | 12.60 | P | 100 | 0 | 0 | NA | S | - | Y | + | WH | WH | | SAPROLITE |
| 5693 | 22.00 | 13.00 | 0.50 | 0.35 | 12.15 | C | 100 | 0 | 0 | NA | S | - | Y | + | WH | WH | | SAPROLITE |
| 5694 | 12.00 | 12.00 | 0.80 | 0.35 | 10.85 | C | 100 | 0 | 0 | NA | S | - | Y | + | WH | LGY | | SAPROLITE |
| 5695 | 9.55 | 9.55 | 1.45 | 1.70 | 6.40 | C | 90 | 10 | 0 | NA | U | + | Y | - | BM | B | | TILL |
| 5696 | 14.00 | 14.00 | 2.70 | 3.50 | 7.80 | C | 75 | 25 | 0 | NA | S | M,C | - | N | GY | NA | | SAND |
| 5697 | 11.95 | 11.95 | 1.85 | 1.95 | 8.15 | C | 100 | TR | 0 | NA | U | + | - | - | GN | GG | | TILL+BLD |
| 5698 | 6.70 | 6.70 | 1.15 | 1.20 | 4.35 | C | 100 | TR | 0 | NA | U | Y | Y | - | GG | GY | | TILL |
| 5699 | 7.05 | 7.05 | 1.00 | 1.70 | 4.35 | C | 95 | 5 | 0 | NA | U | + | Y | - | BN | LOC | | TILL |
| 5700 | 12.00 | 12.00 | 1.75 | 2.45 | 7.80 | C | 50 | 50 | 0 | NA | S | M,C | - | N | PK | NA | | SAND |
| 5701 | 1.95 | 1.95 | 0.25 | 0.35 | 1.35 | C | 95 | 5 | 0 | NA | S | F,M | - | N | B | NA | | SAND |
| 5702 | 11.10 | 11.10 | 2.80 | 1.50 | 6.80 | C | 100 | 0 | 0 | NA | S | F,M | Y | Y | GY | GY | | SAND+CLAY |
| 5703 | 16.10 | 12.00 | 2.00 | 1.60 | 8.40 | C | 85 | 15 | 0 | NA | S | F,M | - | N | B | NA | | SAND |
| 5704 | 4.10 | 4.10 | 0.40 | 0.65 | 3.05 | C | 50 | 50 | 0 | NA | S | M | - | N | LOC | LOC | | SAND |
| 5705 | 11.70 | 11.70 | 4.40 | 2.10 | 5.20 | C | 40 | 60 | 0 | NA | S | M,C | N | N | B | NA | | GRAVEL |
| 5706 | 11.20 | 11.20 | 4.65 | 2.20 | 4.35 | C | 50 | 50 | 0 | NA | S | M | - | N | GB | GB | | GRAVEL |
| 5707 | 9.25 | 9.25 | 3.20 | 2.90 | 3.15 | C | 50 | 50 | 0 | NA | S | M,C | - | N | B | NA | | SAND |
| 5708 | 10.10 | 10.10 | 3.65 | 2.60 | 3.85 | C | 70 | 30 | 0 | NA | S | M,C | - | - | GB | GB | | GRAVEL |
| 5709 | 12.70 | 12.70 | 4.95 | 1.80 | 5.95 | C | 95 | 5 | 0 | NA | U | + | Y | - | GB | GB | | TILL |
| 5710 | 6.35 | 6.35 | 0.50 | 0.45 | 5.40 | C | 50 | 50 | 0 | NA | U | Y | Y | - | GG | GB | | TILL |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

05/29/96
PROJECT: H195
TOTAL OF 29 SAMPLES

| | TABLE CONCENTRATE (1.0 mm (grams) | | | | | | | | KIM COUNT | | | | | | | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | N.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 mm | | | | | 0.25 TO 0.5 mm | | O |
| SAMPLE NUMBER | TOTAL | -0.25 mm | N.I. LIGHTS | TOTAL NON-MAG | 0.5 TO 1.0 mm | 0.25 TO 0.5 mm | -0.25 mm | TOTAL MAG | GP | GD | DC | IN | CR | GP | DC | T A L KIMs |
| H195 | | | | | | | | | | | | | | | | |
| 5682 | 579.0 | NA | 462.9 | 101.3 | 10.4 | 14.9 | 76.0 | 14.8 | 19 | 4 | 1 | 48 | 1 | 151 | 1 | 225 |
| 5683 | 717.4 | NA | 537.7 | 153.9 | 14.8 | 20.1 | 119.0 | 25.8 | 29 | 7 | 0 | 70 | 0 | 253 | 1 | 360 |
| 5684 | 541.0 | NA | 354.4 | 104.7 | 11.1 | 14.8 | 78.8 | 81.9 | 16 | 3 | 0 | 42 | 0 | 130 | 1 | 192 |
| 5685 | 660.8 | NA | 479.5 | 127.4 | 11.2 | 16.2 | 100.0 | 53.9 | 29 | 2 | 1 | 115 | 1 | 195 | 5 | 348 |
| 5686 | 763.7 | NA | 678.9 | 74.4 | 10.3 | 14.5 | 49.6 | 10.4 | 34 | 1 | 0 | 82 | 0 | 164 | 2 | 283 |
| 5687 | 596.7 | NA | 473.5 | 107.9 | 10.1 | 14.8 | 83.0 | 15.3 | 15 | 5 | 0 | 54 | 0 | 116 | 1 | 191 |
| 5688 | 638.6 | NA | 473.7 | 148.7 | 14.8 | 22.3 | 111.6 | 16.2 | 49 | 7 | 0 | 259 | 0 | 402 | 4 | 721 |
| 5689 | 682.6 | NA | 511.6 | 150.6 | 13.3 | 22.4 | 114.9 | 20.4 | 96 | 7 | 0 | 323 | 3 | 628 | 4 | 1061 |
| | | | | | | | | | | | | | | (314) | | |
| 5690 | 560.0 | NA | 416.3 | 119.1 | 10.8 | 17.8 | 90.5 | 24.6 | 21 | 0 | 1 | 73 | 0 | 95 | 0 | 190 |
| 5691 | 209.7 | NA | 195.0 | 12.8 | 1.6 | 3.2 | 8.0 | 1.9 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 7 |
| 5692 | 459.9 | NA | 457.6 | 1.6 | 0.2 | 0.3 | 1.1 | 0.7 | 1 | 0 | 0 | 3 | 0 | 1 | 0 | 5 |
| 5693 | 418.2 | NA | 413.1 | 4.0 | 0.3 | 0.8 | 2.9 | 1.1 | 1 | 0 | 0 | 6 | 0 | 2 | 0 | 9 |
| 5694 | 467.2 | NA | 466.3 | 0.5 | 0.0 | 0.0 | 0.4 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5695 | 428.1 | NA | 380.9 | 42.4 | 0.4 | 6.6 | 35.4 | 4.8 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| 5696 | 498.4 | NA | 408.6 | 77.9 | 9.9 | 14.6 | 53.4 | 11.9 | 3 | 1 | 0 | 9 | 0 | 20 | 0 | 33 |
| 5697 | 581.1 | NA | 420.4 | 134.2 | 8.4 | 17.1 | 108.7 | 26.5 | 4 | 0 | 0 | 10 | 0 | 35 | 0 | 49 |
| 5698 | 240.3 | NA | 158.8 | 72.1 | 7.2 | 10.3 | 54.6 | 9.4 | 1 | 0 | 0 | 3 | 0 | 11 | 0 | 15 |
| 5699 | 175.6 | NA | 164.6 | 9.5 | 0.7 | 1.3 | 7.5 | 1.5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 5700 | 379.6 | NA | 343.8 | 27.2 | 1.5 | 3.5 | 22.2 | 8.6 | 0 | 0 | 0 | 2 | 0 | 9 | 1 | 12 |
| 5701 | 195.0 | NA | 189.7 | 4.8 | 0.3 | 0.8 | 3.7 | 0.5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5702 | 256.3 | NA | 225.5 | 30.6 | 2.8 | 5.6 | 22.2 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5703 | 340.8 | NA | 307.1 | 30.6 | 2.3 | 4.4 | 23.9 | 3.1 | 1 | 0 | 0 | 1 | 0 | 5 | 2 | 9 |
| 5704 | 282.1 | NA | 252.5 | 26.1 | 2.6 | 4.4 | 19.1 | 3.5 | 0 | 0 | 0 | 0 | 0 | 18 | 8 | 26 |
| 5705 | 474.7 | NA | 437.3 | 32.5 | 2.4 | 7.5 | 22.6 | 4.9 | 2 | 0 | 1 | 0 | 0 | 13 | 2 | 18 |
| 5706 | 315.7 | NA | 294.8 | 16.8 | 2.9 | 5.7 | 8.2 | 4.1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 |
| 5707 | 337.4 | NA | 324.0 | 11.4 | 5.3 | 3.4 | 2.7 | 2.0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 4 |
| 5708 | 249.2 | NA | 220.1 | 24.5 | 7.9 | 7.2 | 9.4 | 4.6 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 5 |
| 5709 | 580.7 | NA | 518.4 | 56.1 | 4.0 | 8.0 | 44.1 | 6.2 | 1 | 0 | 0 | 1 | 0 | 39 | 2 | 43 |
| 5710 | 523.2 | NA | 466.8 | 49.2 | 1.4 | 3.6 | 44.2 | 7.2 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 |

## KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: | REMARKS |
|---|---|
| PROJECT: H195 | |
| 5682 | Also picked 2 pale emerald green low-Cr diopsides, 13 GO and 1 CR from 0.25-0.5 mm fraction. |
| 5683 | Also picked 24 GO from 0.25-0.5 mm fraction. |
| 5684 | Also picked 7 GO from 0.25-0.5 mm fraction. |
| 5685 | Also picked 12 GO from 0.25-0.5 mm fraction. |
| 5686 | Also picked 2 pale emerald green low-Cr diopsides and 5 GO from 0.25-0.5 mm fraction. |
| 5687 | Also picked 2 GO from 0.25-0.5 mm fraction. |
| 5688 | Also picked 2 GO from 0.25-0.5 mm fraction. |
| 5689 | Picked 314 GP from 1/2 split of 0.25-0.5 mm fraction. |
| 5690 | Also picked 3 GO from 0.25-0.5 mm fraction. |
| 5692 | Also picked 20 IM from 0.25-0.5 mm fraction. The concentrate is undersized. |

## OVERBURDEN DRILLING MANAGEMENT LIMITED

## GOLD GRAIN SUMMARY SHEET

HUBACHEK\H1951MAY.WR2

| Sample No. | Number of Visible Gold Grains | | | | Non-Mag Weight | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| H195 | | | | | | | | | |
| 5682 | 5 | 5 | 0 | 0 | 101.3 | 7 | 7 | 0 | 0 |
| 5683 | 7 | 7 | 0 | 0 | 153.9 | 34 | 34 | 0 | 0 |
| 5684 | 7 | 7 | 0 | 0 | 104.7 | 9 | 9 | 0 | 0 |
| 5685 | 3 | 0 | 3 | 0 | 127.4 | 1 | 0 | 1 | 0 |
| 5686 | 19 | 18 | 1 | 0 | 74.4 | 32 | 32 | 0 | 0 |
| 5687 | 11 | 11 | 0 | 0 | 107.9 | 20 | 20 | 0 | 0 |
| 5688 | 6 | 6 | 0 | 0 | 148.7 | 72 | 72 | 0 | 0 |
| 5689 | 5 | 2 | 3 | 0 | 150.6 | 9 | 8 | 1 | 0 |
| 5690 | 4 | 2 | 2 | 0 | 119.1 | 3 | 1 | 2 | 0 |
| 5691 | 0 | 0 | 0 | 0 | 12.8 | 0 | 0 | 0 | 0 |
| 5692 | 0 | 0 | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 |
| 5693 | 0 | 0 | 0 | 0 | 4.0 | 0 | 0 | 0 | 0 |
| 5694 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 |
| 5695 | 0 | 0 | 0 | 0 | 42.4 | 0 | 0 | 0 | 0 |
| 5696 | 1 | 0 | 1 | 0 | 77.9 | 0 | 0 | 0 | 0 |
| 5697 | 0 | 0 | 0 | 0 | 134.2 | 0 | 0 | 0 | 0 |
| 5698 | 5 | 5 | 0 | 0 | 72.1 | 1 | 1 | 0 | 0 |
| 5699 | 2 | 2 | 0 | 0 | 9.5 | 5 | 5 | 0 | 0 |
| 5700 | 0 | 0 | 0 | 0 | 27.2 | 0 | 0 | 0 | 0 |
| 5701 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 |
| 5702 | 0 | 0 | 0 | 0 | 30.6 | 0 | 0 | 0 | 0 |
| 5703 | 3 | 3 | 0 | 0 | 30.6 | 314 | 314 | 0 | 0 |
| 5704 | 0 | 0 | 0 | 0 | 26.1 | 0 | 0 | 0 | 0 |
| 5705 | 0 | 0 | 0 | 0 | 32.5 | 0 | 0 | 0 | 0 |
| 5706 | 0 | 0 | 0 | 0 | 16.8 | 0 | 0 | 0 | 0 |
| 5707 | 1 | 0 | 1 | 0 | 11.4 | 7 | 0 | 7 | 0 |
| 5708 | 0 | 0 | 0 | 0 | 24.5 | 0 | 0 | 0 | 0 |
| 5709 | 4 | 4 | 0 | 0 | 56.1 | 4 | 4 | 0 | 0 |
| 5710 | 4 | 3 | 1 | 0 | 49.2 | 9 | 5 | 4 | 0 |

## GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H1951MAY.WK2

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| 5682 | Y | 25 X 25 | 5 C | 2 | | | | | | 2 | | | 20% pyrite; 1% L/G; 1% marcasite |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 5 | 101.3 | 7 | |
| 5683 | Y | 15 X 15 | 3 C | 1 | | | | | | 1 | | | 30% pyrite; 0.5% marcasite |
| | | 15 X 75 | 9 C | 1 | | | | | | 1 | | | |
| | | 25 X 25 | 5 C | 3 | | | | | | 3 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 125 X 175 | 29 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 7 | 153.9 | 34 | |
| 5684 | Y | 25 X 25 | 5 C | 2 | | | | | | 2 | | | 25% pyrite |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 50 X 50 | 10 C | 2 | | | | | | 2 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 7 | 104.7 | 9 | |
| 5685 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | 2 | | | | 2 | | | |
| | | | | | | | | | | 3 | 127.4 | 1 | |
| 5686 | Y | 15 X 15 | 3 C | 1 | | | | | | 1 | | | 15% pyrite; 1% L/G; 0.1% marcasite |
| | | 15 X 25 | 4 C | 2 | | 1 | | | | 3 | | | |
| | | 25 X 25 | 5 C | 8 | | | | | | 8 | | | |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 50 X 50 | 10 C | 3 | | | | | | 3 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 75 X 100 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 19 | 74.4 | 32 | |
| 5687 | Y | 25 X 25 | 5 C | 5 | | | | | | 5 | | | 35% pyrite; 1% L/G |
| | | 25 X 50 | 8 C | 4 | | | | | | 4 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 75 X 125 | 20 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 11 | 107.9 | 20 | |
| 5688 | Y | 15 X 15 | 3 C | | 2 | | | | | 2 | | | 15% pyrite |

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H195MAY.WK2 NUMBER OF GRAINS

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| | | 15 X 25 | 4 C | | 1 | | | | | 1 | | | |
| | | 25 X 25 | 5 C | | 1 | | | | | 1 | | | |
| | | 25 X 50 | 8 C | | 1 | | | | | 1 | | | |
| | | 175 X 300 | 25 N | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 6 | 148.7 | 72 | |
| 5689 | N | 15 X 15 | 3 C | | | 1 | | | | 1 | | | |
| | | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 125 | 18 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 5 | 150.6 | 9 | |
| 5690 | N | 25 X 25 | 5 C | 1 | | 1 | | | | 2 | | | |
| | | 25 X 50 | 8 C | 1 | | | | | | 1 | | | |
| | | 50 X 50 | 10 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 4 | 119.1 | 3 | |
| 5691 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5692 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5693 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5694 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5695 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5696 | N | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 77.9 | 0 | |
| 5697 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5698 | N | 10 X 25 | 4 C | 1 | | | | | | 1 | | | |
| | | 25 X 25 | 5 C | 4 | | | | | | 4 | | | |
| | | | | | | | | | | 5 | 72.1 | 1 | |
| 5699 | N | 25 X 25 | 5 C | 2 | | | | | | 2 | | | |
| | | | | | | | | | | 2 | 9.5 | 5 | |

## GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHEK\H195MAY.WK2

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | NON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H195 | | | | | | | | | | | | | |
| 5700 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5701 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5702 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5703 | N | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 175 X 200 | 36 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 3 | 30.6 | 314 | |
| 5704 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5705 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5706 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5707 | N | 25 X 50 | 8 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 1 | 11.4 | 7 | |
| 5708 | N | NO VISIBLE GOLD | | | | | | | | | | | |
| 5709 | N | 15 X 15 | 3 C | 1 | | | | | | 1 | | | |
| | | 25 X 25 | 5 C | 2 | | | | | | 2 | | | |
| | | 25 X 75 | 10 C | 1 | | | | | | 1 | | | |
| | | | | | | | | | | 4 | 56.1 | 4 | |
| 5710 | N | 25 X 25 | 5 C | 2 | | | | | | 2 | | | |
| | | 25 X 75 | 10 C | 1 | | 1 | | | | 2 | | | |
| | | | | | | | | | | 4 | 49.2 | 9 | |

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-16 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX NO.: (613) 226-8753

# D A T A  T R A N S M I T T A L  R E P O R T

DATE: 02-Jan-97

ATTENTION: MESRS. DAVID CHRISTIE & RAY KNOWLES

CLIENT: W.A. HUBACHECK CONSULTANTS LTD.
141 ADELAIDE STREET WEST
SUITE 1401
TORONTO ONT.
M5H 3L5
FAX NO.: (416) 364-5384 (office)
(705) 643-2393 (field)

NO. OF PAGES: _____

PROJECT: 195 36756 to 36761

FILE NO: H195IDEK.WR1

NO. OF SAMPLES: 6

THESE SAMPLES WERE PROCESSED FOR: VISIBLE GOLD GRAINS
KIMBERLITE INDICATORS

SPECIFICATIONS:
HEAVY LIQUID SEPARATION SPECIFIC GRAVITY: 3.20
ALL GOLD GRAINS ISOLATED IN CONICAL VIALS.
ALL SAMPLES PICKED FOR INDICATOR MINERAL GRAINS.
ALL OTHER SAMPLE FRACTIONS ARE PRESENTLY STORED.

REMARKS: Finalized Kim. DATA

Abby Huneault
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

12/17/96
PROJECT: 195
TOTAL OF 6 SAMPLES.
FILENAME: H1951BEK.WR1

| SAMPLE NUMBER | WEIGHT (KILOGRAMS) BULK RECEIVED | TABLE SPLIT | +2 cm CLASTS | 1-2 cm CLASTS | TABLE FEED | SIZE | SAMPLE DESCRIPTION: CLASTS >2.0 cm PERCENTAGE V/S | BR | LG | OT | MATRIX <1.0 mm GRAIN SIZE DISTRIBUTION G/U | SD | ST | CY | COLOUR SAND | CLAY | ORG. | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | | | | | | |
| 36756 | 9.90 | 9.90 | 1.65 | 1.05 | 7.20 | C | 95 | 5 | 0 | 0 | U | + | Y | - | GY | GY | | SANDY TILL |
| 36757 | 15.50 | 15.50 | 3.00 | 3.25 | 9.25 | P | 90 | 10 | 0 | 0 | U | + | Y | - | GY | GY | | SANDY TILL |
| 36758 | 22.40 | 17.00 | 3.30 | 2.60 | 11.10 | P | 90 | 10 | 0 | 0 | U | + | Y | - | GY | GY | | SANDY TILL |
| 36759 | 12.15 | 12.15 | 2.70 | 2.20 | 7.25 | C | 90 | 10 | 0 | 0 | U | + | Y | - | GY | GY | | TILL |
| 36760 | 9.95 | 9.95 | 2.50 | 1.25 | 6.20 | C | 90 | 10 | 0 | 0 | U | + | Y | - | GG | BR | | TILL |
| 36761 | 14.80 | 14.80 | 3.75 | 2.80 | 8.25 | C | 95 | 5 | 0 | 0 | U | + | Y | - | BR | BR | | TILL |

PAGE 1 HUBACHECK: PROJECT 195 12/17/96

**OVERBURDEN DRILLING MANAGEMENT LIMITED**

**GOLD GRAIN SUMMARY SHEET**

HUBACHEK\H1951DEC.WR2

| Sample No. | Number of Visible Gold Grains | | | | Non-Mag Weight | Calculated PPB Visible Gold | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total | Reshaped | Modified | Pristine | | Total | Reshaped | Modified | Pristine |
| 195 | | | | | | | | | |
| 36756 | 10 | 6 | 4 | 0 | 115.0 | 22 | 17 | 5 | 0 |
| 36757 | 7 | 2 | 4 | 1 | 194.5 | 6 | 1 | 5 | 0 |
| 36758 | 8 | 6 | 0 | 2 | 198.1 | 19 | 19 | 0 | 1 |
| 36759 | 6 | 6 | 0 | 0 | 83.5 | 4 | 4 | 0 | 0 |
| 36760 | 2 | 2 | 0 | 0 | 74.3 | 2 | 2 | 0 | 0 |
| 36761 | 0 | 0 | 0 | 0 | 62.5 | 0 | 0 | 0 | 0 |

## GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBACHECK\W1951DEC.WB2

TOTAL # OF PANNINGS 6

| SAMPLE # | PANNED Y/N | MEASUREMENT (MICRONS) DIAMETER | THICKNESS | NUMBER OF GRAINS RESHAPED T | RESHAPED P | MODIFIED T | MODIFIED P | PRISTINE T | PRISTINE P | TOTAL | MON MAG GMS | CALC V.G. ASSAY PPB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | | | | | | | | | | | | | |
| 36756 | Y | 25 X 25 | 5 C | 1 | | | | | | 1 | | | 30% pyrite |
| | | 25 X 50 | 8 C | 1 | | 2 | | | | 3 | | | |
| | | 25 X 75 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | 1 | | | | 2 | | | |
| | | 50 X 75 | 13 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | 1 | 1 | | | | | 2 | | | |
| | | | | | | | | | | 10 | 115.0 | 22 | |
| 36757 | Y | 15 X 25 | 4 C | | | | | | 1 | 1 | | | No sulphides. |
| | | 15 X 50 | 7 C | 1 | | 1 | | | | 2 | | | |
| | | 25 X 25 | 5 C | | | 1 | | | | 1 | | | |
| | | 25 X 75 | 10 C | | | 1 | | | | 1 | | | |
| | | 50 X 50 | 10 C | 1 | | | | | | 1 | | | |
| | | 50 X 100 | 15 C | | | 1 | | | | 1 | | | |
| | | | | | | | | | | 7 | 194.5 | 6 | |
| 36758 | Y | 15 X 25 | 4 C | 1 | | | | | | 1 | | | No sulphides. |
| | | 15 X 50 | 7 C | | | | | 2 | | 2 | | | |
| | | 25 X 25 | 5 C | 1 | | | | | | 1 | | | |
| | | 25 X 50 | 8 C | 2 | | | | | | 2 | | | |
| | | 50 X 100 | 15 C | 1 | | | | | | 1 | | | |
| | | 125 X 125 | 25 C | | 1 | | | | | 1 | | | |
| | | | | | | | | | | 8 | 198.1 | 19 | |
| 36759 | Y | 15 X 50 | 7 C | 2 | | | | | | 2 | | | 40% pyrite |
| | | 25 X 25 | 5 C | 1 | | | | | | 1 | | | ~200 grains of galena |
| | | 25 X 50 | 8 C | 3 | | | | | | 3 | | | |
| | | | | | | | | | | 6 | 83.5 | 4 | |
| 36760 | Y | 25 X 50 | 8 C | 2 | | | | | | 2 | | | 40% pyrite |
| | | | | | | | | | | | | | ~50 grains of galena |
| | | | | | | | | | | 2 | 74.3 | 2 | |
| 36761 | Y | NO VISIBLE GOLD | | | | | | | | | | | 40% pyrite |
| | | | | | | | | | | | | | ~1000 grains of galena |

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS

01/02/97
PROJECT: 195
TOTAL OF 6 SAMPLES

| SAMPLE NUMBER | TABLE CONCENTRATE (1.0 mm (grams) | | | | | | | | KIM COUNT | | | | | | | T O T A L KIMs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | N.I. SEPARATION S.G 3.20 | | | | | | 0.5 TO 1 mm | | | | | 0.25 TO 0.5 mm | | |
| | TOTAL | -0.25 mm | N.I. LIGHTS | TOTAL MAG | TOTAL NON-MAG | -0.25 mm | 0.25 TO 0.5 mm | 0.5 TO 1.0 mm | GP | GO | DC | IN | CR | GP | DC | |
| 195 | | | | | | | | | | | | | | | | |
| 36756 | 699.0 | NA | 536.3 | 47.7 | 115.0 | 87.0 | 13.5 | 14.5 | 29 | 11 | 0 | 205 | 8 | 156 | 1 | 411 |
| 36757 | 976.6 | NA | 638.0 | 144.1 | 194.5 | 127.9 | 32.9 | 33.7 | 22 | 4 | 0 | 96 | 0 | 108 | 1 | 231 |
| | | | | | | | | | (88) | (16) | (0) | (384) | (0) | (432) | (4) | (924) |
| 36758 | 1214.3 | NA | 895.0 | 121.2 | 196.1 | 139.6 | 30.2 | 28.3 | 49 | 6 | 1 | 191 | 13 | 436 | 2 | 698 |
| | | | | | | | | | (196) | (12) | (2) | (382) | (26) | | | (958) |
| 36759 | 509.0 | NA | 396.0 | 29.5 | 83.5 | 63.0 | 12.2 | 8.3 | 47 | 5 | 0 | 307 | 1 | 164 | 5 | 529 |
| 36760 | 594.7 | NA | 500.1 | 20.3 | 74.3 | 59.6 | 8.9 | 5.8 | 48 | 18 | 1 | 230 | 3 | 252 | 8 | 560 |
| 36761 | 688.9 | NA | 608.5 | 17.9 | 62.5 | 40.6 | 11.8 | 10.1 | 9 | 4 | 0 | 35 | 2 | 68 | 1 | 119 |

The KIM COUNT numbers in parentheses are extrapolated values.

KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES:

| SAMPLE NO: PROJECT: 195 | REMARKS |
|---|---|
| 36756 | Several GP in 0.5-1.0 mm fraction have kelyphite coating and several of the IM have perovskite coating. Also picked 6 pale yellow olivine from 0.5-1.0 mm fraction, and 1 CR from 0.25-0.5 mm fraction. |
| 36757 | Picked only 1/4 splits of both 0.5-1.0 mm and 0.25-0.5 mm fractions. In addition to listed KIMs, picked 7 olivine from 0.5-1.0 mm fraction. |
| 36758 | Picked only 1/2 split of 0.5-1.0 mm fraction. In additions to listed KIMs, picked 1 pale emerald green low-Cr diopside and 7 pale yellow olivine from this split, and 4 pale emerald green low-Cr diopside and 1 CR from 0.25-0.5 mm fraction. |
| 36759 | Also picked 2 pale emerald green low-Cr diopside from 0.5-1.0 mm fraction. |
| 36760 | One of 48 GP picked from 0.5-1.0 mm fraction contains a CR inclusion. Also picked 1 pale emerald green low-Cr diopside from 0.5-1.0 mm fraction and 3 CR from 0.25-0.5 mm fraction. |
| 36761 | Also picked 15 olivine from 0.5-1.0 mm fraction. |

# APPENDIX D

## ACTLABS GEOCHEMISTRY RESULTS

W.A. HUBACHECK CONSULTANTS LTD.

ACTLABS

# ACTIVATION LABORATORIES LTD

Invoice No.: 9700
Work Order: 9739
Invoice Date: 21-FEB-96
Date Submitted: 15-JAN-96
Your Reference: 195
Account Number: 447

W.A HUBACHECK CONSULTANTS LTD
141 ADELAIDE ST WEST, SUITE 603
TORONTO, ONT
M5H 3L5

ATT:DAVE CHRISTIE

## CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AU | 2. | PPB | AG | 5. | PPM | AS | 0.5 | PPM | BA | 50. | PPM |
| BR | 0.5 | PPM | CA | 1. | % | CO | 1. | PPM | CR | 5. | PPM |
| CS | 1. | PPM | FE | 0.01 | % | HF | 1. | PPM | HG | 1. | PPM |
| IR | 5. | PPB | MO | 1. | PPM | NA | 0.01 | % | NI | 20. | PPM |
| RB | 5. | PPM | SB | 0.1 | PPM | SC | 0.1 | PPM | SE | 5. | PPM |
| SN | 100. | PPM | SR | 500. | PPM | TA | 0.5 | PPM | TH | 0.2 | PPM |
| U | 0.5 | PPM | W | 1. | PPM | ZN | 50. | PPM | LA | 0.5 | PPM |
| CE | 3. | PPM | ND | 5. | PPM | SM | 0.1 | PPM | EU | 0.2 | PPM |
| TB | 0.5 | PPM | YB | 0.2 | PPM | LU | 0.05 | PPM | | | |

9700B - TOTAL DIGESTION - ICP
(CLAY/SILT FRACTION)

CERTIFIED BY :

per Sylvia Alvarez
DR. ERIC L. HOFFMAN

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# Activation Laboratories Ltd. Work Order: 9739 Report: 9700

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA % | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SN PPM | SR PPM | TA PPM | TH PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5328 | <2 | <5 | 5.8 | 590 | <0.5 | 4 | 22 | 360 | 1 | 4.26 | 9 | <1 | <5 | <1 | 2.47 | <32 | 92 | 0.7 | 17 | <3 | <100 | <500 | 1.8 | 5.7 |
| 5329 | 2 | <5 | 20 | 590 | <0.5 | 4 | 43 | 720 | 2 | 5.43 | 8 | <1 | <5 | <2 | 2.18 | 410 | <15 | 0.6 | 20 | <3 | <100 | <500 | <0.5 | 4.8 |
| 5330 | <2 | <5 | 5.0 | 680 | <0.5 | 5 | 16 | 220 | 3 | 3.55 | 9 | <1 | <5 | <1 | 2.46 | <29 | 57 | 0.4 | 15 | <3 | <100 | <500 | <0.5 | 5.1 |
| 5331 | 24 | <5 | 5.0 | 990 | <0.6 | <1 | 35 | 580 | 4 | 6.08 | 13 | <1 | <5 | <1 | 2.85 | <54 | 53 | <0.1 | 22 | <3 | <100 | <500 | <0.5 | 9.6 |
| 5332 | 2 | <5 | 1.7 | 530 | <0.6 | 3 | 72 | 2500 | 3 | 7.78 | 4 | <1 | <5 | <2 | 1.12 | 890 | <15 | <0.1 | 30 | <3 | <100 | <500 | <0.5 | 3.1 |
| 5333 | 21 | <5 | 5.6 | 750 | <0.5 | 4 | 23 | 370 | 2 | 4.67 | 10 | <1 | <5 | <1 | 2.80 | 210 | 49 | <0.1 | 21 | <3 | <100 | <500 | <0.5 | 6.0 |
| 5334 | 2 | <5 | 5.8 | 760 | <0.6 | 6 | 31 | 420 | 3 | 5.60 | 11 | <1 | <5 | <1 | 3.06 | 410 | 71 | 0.5 | 20 | <3 | <100 | <500 | <0.5 | 6.1 |
| 5335 | 44 | <5 | 6.9 | 620 | <0.6 | 4 | 29 | 470 | 5 | 5.32 | 13 | <1 | <5 | <2 | 3.15 | <54 | 85 | <0.1 | 22 | <3 | <100 | <500 | <0.6 | 8.3 |
| 5336 | 2 | <5 | 4.3 | 650 | <0.5 | 5 | 28 | 440 | 2 | 5.50 | 12 | <1 | <5 | <2 | 3.05 | <45 | 56 | <0.1 | 21 | <3 | <100 | <500 | <0.5 | 8.2 |
| 5337 | <2 | <5 | 3.2 | 740 | <0.5 | 4 | 22 | 320 | 2 | 4.32 | 10 | <1 | <5 | <1 | 2.88 | 210 | 47 | <0.1 | 18 | <3 | <100 | <500 | <0.5 | 6.6 |
| 5338 | 2 | <5 | 14 | 1000 | <0.7 | 6 | 33 | 480 | 5 | 6.01 | 12 | <1 | <5 | <3 | 3.35 | <57 | 140 | <0.1 | 24 | <3 | <100 | <500 | <0.6 | 8.8 |
| 5339 | 133 | <5 | 3.2 | 410 | <0.5 | 4 | 30 | 400 | 2 | 4.12 | 7 | <1 | <5 | <1 | 2.27 | <27 | 25 | 0.2 | 16 | <3 | <100 | <500 | <0.5 | 5.5 |
| 5340 | 20 | <5 | 5.2 | 420 | <0.5 | 3 | 26 | 340 | 2 | 3.87 | 7 | <1 | <5 | <1 | 2.34 | <26 | <15 | 0.2 | 16 | <3 | <100 | 860 | 1.5 | 5.3 |
| 5341 | 34 | <5 | 2.9 | 810 | <0.5 | 4 | 27 | 370 | 2 | 5.01 | 11 | <1 | <5 | 8 | 2.91 | <35 | <15 | <0.1 | 19 | <3 | <100 | 940 | <0.5 | 7.1 |
| 5342 | 14 | <5 | 3.9 | 350 | <0.5 | 3 | 25 | 330 | 2 | 3.85 | 8 | <1 | <5 | <1 | 2.34 | 200 | <15 | 0.3 | 16 | <3 | <100 | <500 | <0.5 | 5.0 |
| 5343 | 2 | <5 | 3.4 | 840 | <0.6 | 5 | 37 | 480 | 3 | 5.82 | 12 | <1 | <5 | <1 | 3.02 | 230 | 92 | <0.1 | 22 | <3 | <100 | <500 | 2.0 | 8.2 |
| 5344 | 3 | <5 | 6.5 | 900 | <0.7 | 4 | 74 | 540 | 5 | 7.25 | 8 | <1 | <5 | 18 | 2.84 | <50 | 92 | 0.5 | 23 | <3 | <100 | <500 | 3.0 | 6.5 |
| 5345 | 6 | <5 | 3.7 | 720 | <0.5 | 3 | 22 | 280 | 3 | 4.15 | 6 | <1 | <5 | 7 | 2.43 | 130 | 58 | 0.5 | 17 | <3 | <100 | <500 | <0.5 | 5.3 |
| 5346 | <2 | <5 | 3.1 | 630 | <0.5 | 4 | 23 | 220 | 2 | 4.96 | 7 | <1 | <5 | 2 | 2.53 | 230 | <15 | 0.2 | 20 | <3 | <100 | <500 | <0.5 | 5.9 |
| 5347 | 15 | <5 | 1.0 | 620 | <0.5 | 5 | 29 | 210 | 2 | 5.81 | 5 | <1 | <5 | 46 | 2.32 | <30 | 52 | <0.1 | 26 | <3 | <100 | <500 | <0.5 | 3.6 |
| 5348 | <2 | <5 | 2.8 | 500 | <0.5 | 4 | 25 | 230 | 2 | 5.38 | 7 | <1 | <5 | <1 | 2.32 | <31 | <15 | <0.1 | 24 | <3 | <100 | <500 | <0.5 | 4.6 |
| 5349 | 10 | <5 | 1.3 | 620 | <0.5 | 5 | 26 | 200 | 2 | 5.94 | 5 | <1 | <5 | <1 | 2.01 | <28 | <15 | <0.1 | 27 | <3 | <100 | <500 | 1.5 | 3.0 |
| 5350 | 2 | <5 | 3.6 | 630 | <0.6 | 5 | 35 | 280 | <1 | 7.87 | 8 | <1 | <5 | <2 | 2.36 | 220 | <15 | 0.4 | 34 | <3 | <100 | <500 | <0.5 | 4.8 |
| 5351 | 441 | <5 | 1.1 | 590 | <0.6 | 5 | 38 | 320 | 4 | 8.74 | 11 | <1 | <5 | <2 | 2.52 | <52 | <15 | <0.1 | 36 | <3 | <100 | <500 | <0.5 | 4.6 |
| 5352 | 4 | <5 | 4.4 | 650 | <0.5 | 5 | 26 | 320 | 2 | 5.79 | 5 | <1 | <5 | <1 | 2.33 | <29 | 44 | 0.5 | 19 | <3 | <100 | <500 | <0.5 | 4.1 |
| 5353 | 8 | <5 | 3.8 | 630 | <0.5 | 4 | 13 | 170 | 2 | 3.13 | 6 | <1 | <5 | 6 | 2.59 | 95 | 36 | 0.2 | 14 | <3 | <100 | 720 | <0.5 | 4.2 |
| 5354 | 10 | <5 | 2.5 | 550 | <0.5 | 3 | 19 | 250 | 2 | 3.74 | 9 | <1 | <5 | <1 | 2.47 | <21 | 55 | 0.2 | 16 | <3 | <100 | <500 | <0.5 | 5.4 |
| 5355 | 16 | <5 | 3.1 | 670 | <0.5 | 4 | 21 | 310 | 2 | 4.53 | 10 | <1 | <5 | 5 | 2.61 | 190 | 37 | <0.1 | 18 | <3 | <100 | 830 | 1.7 | 6.8 |
| 5356 | <2 | <5 | 6.4 | 550 | <0.5 | 5 | 31 | 340 | 3 | 4.49 | 5 | <1 | <5 | 3 | 2.37 | <29 | 68 | <0.1 | 19 | <3 | <100 | <500 | <0.5 | 4.9 |
| 5357 | 9 | <5 | <0.5 | 620 | <0.5 | 3 | 13 | 210 | 2 | 3.52 | 6 | <1 | <5 | <1 | 2.37 | <23 | 47 | <0.1 | 15 | <3 | <100 | 730 | 1.6 | 4.2 |
| 5358 | 10 | <5 | <0.5 | 820 | <0.5 | 2 | 14 | 210 | 2 | 3.41 | 7 | <1 | <5 | 1 | 2.65 | <23 | 38 | 0.2 | 15 | <3 | <100 | <500 | <0.5 | 4.8 |
| 5359 | 45 | <5 | 3.0 | 590 | <0.5 | 5 | 26 | 230 | 2 | 5.92 | 8 | <1 | <5 | 5 | 2.27 | 110 | 46 | <0.1 | 28 | <3 | <100 | <500 | <0.5 | 4.5 |
| 5360 | 13 | <5 | 3.5 | 510 | <0.5 | <1 | 22 | 310 | 3 | 3.89 | 8 | <1 | <5 | <1 | 2.48 | <29 | 61 | 0.3 | 17 | <3 | <100 | <500 | <0.5 | 6.1 |
| 5361 | <2 | <5 | <0.5 | 790 | <0.5 | 3 | 19 | 240 | 1 | 4.26 | 10 | <1 | <5 | <1 | 2.74 | 150 | 47 | 0.3 | 17 | <3 | <100 | <500 | 2.0 | 5.7 |
| 5362 | 43 | <5 | 3.7 | 570 | <0.5 | 4 | 17 | 200 | <1 | 4.25 | 9 | <1 | <5 | 3 | 2.31 | 130 | 41 | <0.1 | 17 | <3 | <100 | 890 | <0.5 | 5.5 |
| 5363 | 8 | <5 | 2.3 | 600 | <0.5 | 4 | 17 | 230 | 2 | 3.43 | 7 | <1 | <5 | <1 | 2.39 | 88 | 31 | <0.1 | 15 | <3 | <100 | <500 | <0.5 | 5.1 |
| 5364 | 3 | <5 | 3.2 | 700 | <0.5 | 3 | 24 | 320 | 2 | 4.72 | 7 | <1 | <5 | 4 | 2.43 | 140 | 59 | 0.2 | 19 | <3 | <100 | <500 | 0.9 | 5.1 |
| 5365 | <2 | <5 | 3.9 | 620 | <0.5 | 4 | 28 | 300 | 2 | 5.58 | 7 | <1 | <5 | 8 | 2.29 | 170 | 48 | <0.1 | 24 | <3 | <100 | <500 | <0.5 | 5.5 |
| 5366 | 6 | <5 | 3.4 | 620 | <0.5 | 5 | 25 | 260 | 2 | 4.96 | 7 | <1 | <5 | <1 | 2.14 | <24 | 41 | 0.2 | 22 | <3 | <100 | <500 | <0.5 | 4.8 |
| 5367 | 13 | <5 | 3.4 | 410 | <0.5 | 4 | 32 | 270 | <1 | 5.29 | 4 | <1 | <5 | <1 | 2.08 | 200 | 42 | 0.4 | 24 | <3 | <100 | <500 | <0.5 | 3.7 |
| 5368 | <2 | <5 | 3.1 | 470 | <0.5 | 4 | 28 | 200 | 2 | 5.24 | 5 | <1 | <5 | <1 | 1.77 | <24 | 39 | 0.4 | 25 | <3 | <100 | 550 | <0.5 | 3.3 |
| 5369 | 4 | <5 | <0.5 | 430 | <0.5 | 4 | 17 | 220 | 1 | 3.91 | 8 | <1 | <5 | 2 | 2.29 | 91 | 50 | <0.1 | 17 | <3 | <100 | 600 | 2.0 | 4.9 |
| 5370 | <2 | <5 | <0.5 | 600 | <0.5 | 4 | 19 | 210 | 2 | 3.87 | 6 | <1 | <5 | <1 | 2.19 | <21 | 43 | 0.2 | 16 | <3 | <100 | <500 | <0.5 | 4.7 |
| 5371 | 12 | <5 | 2.8 | 710 | <0.5 | 4 | 17 | 200 | 1 | 3.81 | 8 | <1 | <5 | 6 | 2.30 | <21 | 48 | 0.2 | 16 | <3 | <100 | <500 | <0.5 | 5.2 |
| 5372 | <2 | <5 | 2.6 | 780 | <0.5 | 4 | 20 | 180 | 2 | 4.00 | 7 | <1 | <5 | <1 | 2.33 | <24 | 56 | 0.2 | 16 | <3 | <100 | <500 | 1.3 | 4.9 |

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| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA % | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SN PPM | SR PPM | TA PPM | TH PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5373 | 15 | <5 | <0.5 | 660 | <0.5 | 4 | 19 | 190 | 2 | 4.73 | 6 | <1 | <5 | <1 | 2.35 | <31 | 69 | <0.1 | 20 | <3 | <100 | <500 | <0.5 | 4.8 |
| 5374 | 7 | <5 | 2.4 | 640 | <0.5 | 3 | 16 | 180 | <1 | 3.44 | 7 | <1 | <5 | 2 | 2.29 | <21 | 57 | 0.3 | 16 | <3 | <100 | <500 | <0.5 | 4.9 |
| 5375 | <2 | <5 | <0.5 | 720 | <0.5 | 3 | 20 | 190 | 2 | 4.36 | 5 | <1 | <5 | 2 | 2.20 | <24 | 51 | <0.1 | 17 | <3 | <100 | 560 | <0.5 | 4.6 |
| 5376 | 52 | <5 | 3.1 | 550 | <0.5 | 9 | 20 | 230 | 1 | 4.55 | 10 | <1 | <5 | <1 | 1.87 | <27 | 48 | <0.1 | 18 | <3 | <100 | <500 | <0.5 | 6.2 |
| 5377 | <2 | <5 | 2.2 | 470 | <0.5 | 13 | 15 | 160 | 2 | 3.77 | 5 | <1 | <5 | 4 | 1.11 | <20 | 49 | <0.1 | 14 | <3 | <100 | 540 | <0.5 | 3.8 |
| 5378 | <2 | <5 | 2.6 | 610 | <0.5 | 3 | 18 | 190 | 2 | 4.15 | 5 | <1 | <5 | <1 | 2.17 | 120 | 49 | <0.1 | 18 | <3 | <100 | 680 | <0.5 | 4.2 |
| 5379 | <2 | <5 | <0.5 | 640 | <0.5 | 5 | 31 | 240 | <1 | 6.78 | 4 | <1 | <5 | <1 | 1.72 | <27 | 31 | 0.5 | 26 | <3 | <100 | <500 | <0.5 | 3.2 |
| 5380 | 12 | <5 | <0.5 | 630 | <0.5 | 4 | 17 | 220 | 2 | 3.59 | 7 | <1 | <5 | <1 | 2.15 | <22 | 33 | 0.2 | 16 | <3 | <100 | <500 | 0.9 | 4.2 |
| 5381 | <2 | <5 | 2.3 | 590 | <0.5 | 4 | 15 | 200 | 2 | 3.18 | 6 | <1 | <5 | 5 | 2.02 | <20 | 50 | <0.1 | 13 | <3 | <100 | <500 | 1.1 | 3.6 |
| 5382 | <2 | <5 | 3.7 | 610 | <0.5 | 3 | 15 | 200 | 1 | 3.41 | 6 | <1 | <5 | <1 | 2.14 | <20 | 45 | <0.1 | 14 | <3 | <100 | 600 | <0.5 | 4.1 |
| 5383 | 2 | <5 | 3.9 | 740 | <0.5 | 5 | 17 | 210 | <1 | 3.97 | 7 | <1 | <5 | 7 | 2.29 | <25 | <15 | 0.4 | 15 | <3 | <100 | <500 | <0.5 | 4.8 |
| 5384 | 6 | <5 | 3.0 | 550 | <0.5 | 4 | 17 | 280 | 1 | 3.87 | 8 | <1 | <5 | <1 | 1.74 | <20 | 38 | 0.3 | 15 | <3 | <100 | <500 | <0.5 | 4.7 |
| 5385 | <2 | <5 | 6.0 | 700 | <0.5 | 6 | 26 | 480 | 4 | 4.98 | 4 | <1 | <5 | <1 | 1.45 | 170 | 78 | 0.4 | 20 | <3 | <100 | 610 | <0.5 | 5.1 |
| 5386 | 32 | <5 | 3.3 | 590 | <0.5 | 3 | 18 | 250 | 1 | 4.07 | 10 | <1 | <5 | 4 | 2.19 | <23 | 69 | 0.3 | 16 | <3 | <100 | <500 | <0.5 | 6.1 |
| 5387 | 16 | <5 | 3.6 | 600 | <0.5 | 4 | 16 | 210 | <1 | 3.66 | 9 | <1 | <5 | 3 | 2.04 | 99 | 53 | 0.2 | 14 | <3 | <100 | <500 | 1.1 | 4.9 |
| 5388 | 5 | <5 | 5.5 | 710 | <0.5 | 4 | 17 | 210 | 2 | 3.42 | 7 | <1 | <5 | <1 | 2.02 | <20 | 54 | 0.4 | 13 | <3 | <100 | <500 | <0.5 | 4.4 |
| 5389 | 8 | <5 | 5.2 | 710 | <0.5 | 3 | 17 | 210 | 2 | 3.61 | 6 | <1 | <5 | <1 | 2.03 | <21 | 48 | <0.1 | 14 | <3 | <100 | <500 | <0.5 | 4.2 |
| 5390 | <2 | <5 | 5.9 | 430 | <0.5 | 3 | 20 | 220 | 3 | 3.38 | 6 | <1 | <5 | <1 | 2.04 | 170 | 82 | 0.5 | 14 | <3 | <100 | 690 | 0.5 | 4.3 |
| 5391 | 8 | <5 | 4.3 | 690 | <0.5 | 4 | 15 | 200 | 2 | 3.72 | 8 | <1 | <5 | <1 | 2.21 | <21 | 46 | <0.1 | 13 | <3 | <100 | <500 | <0.5 | 5.4 |
| 5392 | 3 | <5 | 8.6 | 610 | <0.5 | 4 | 19 | 210 | 1 | 4.20 | 8 | <1 | <5 | <1 | 2.25 | <25 | 57 | <0.1 | 16 | <3 | <100 | <500 | <0.5 | 6.0 |
| 5393 | 16 | <5 | <0.5 | 650 | <0.5 | 3 | 16 | 190 | 2 | 3.68 | 7 | <1 | <5 | <1 | 2.15 | 95 | 76 | <0.1 | 14 | <3 | <100 | <500 | <0.5 | 5.3 |
| 5394 | 9 | <5 | 2.8 | 740 | <0.5 | 3 | 12 | 200 | <1 | 2.91 | 10 | <1 | <5 | <1 | 2.70 | <20 | 70 | 0.2 | 13 | <3 | <100 | 640 | <0.5 | 4.1 |
| 5395 | 67 | <5 | 3.2 | 800 | <0.5 | 4 | 14 | 220 | <1 | 3.28 | 11 | <1 | <5 | <1 | 2.79 | <23 | 66 | <0.1 | 15 | <3 | <100 | <500 | <0.5 | 5.1 |
| 5396 | 4 | <5 | <0.5 | 910 | <0.5 | 4 | 12 | 180 | 2 | 2.91 | 8 | <1 | <5 | <1 | 2.66 | <20 | 46 | 0.1 | 13 | <3 | <100 | 530 | <0.5 | 4.3 |
| 5397 | <2 | <5 | 2.8 | 820 | <0.5 | 3 | 14 | 190 | 1 | 3.29 | 9 | <1 | <5 | <1 | 2.54 | <20 | 42 | 0.3 | 14 | <3 | <100 | 830 | <0.5 | 4.9 |
| 5398 | 35 | <5 | 4.1 | 940 | <0.5 | 4 | 18 | 230 | 1 | 3.59 | 11 | <1 | <5 | <1 | 2.78 | 190 | 54 | <0.1 | 15 | <3 | <100 | <500 | <0.5 | 6.3 |
| 5399 | <2 | <5 | <0.5 | 930 | <0.5 | 4 | 14 | 180 | 1 | 2.89 | 9 | <1 | <5 | <1 | 2.77 | 100 | 49 | <0.1 | 14 | <3 | <100 | 660 | <0.5 | 4.2 |
| 5400 | <2 | <5 | 3.7 | 780 | <0.5 | 4 | 22 | 230 | 1 | 4.01 | 11 | <1 | <5 | <1 | 2.67 | <28 | 79 | <0.1 | 16 | <3 | <100 | 550 | <0.5 | 5.7 |
| 5401 | 9 | <5 | 2.2 | 830 | <0.5 | 3 | 14 | 220 | <1 | 3.03 | 9 | <1 | <5 | <1 | 2.87 | <28 | 54 | 0.3 | 14 | <3 | <100 | <500 | <0.5 | 5.3 |
| 5402 | 9 | <5 | 2.2 | 560 | <0.5 | 3 | 14 | 200 | 1 | 2.81 | 9 | <1 | <5 | <1 | 2.64 | 120 | 39 | 0.2 | 13 | <3 | <100 | <500 | <0.5 | 4.5 |
| 5403 | <2 | <5 | 2.1 | 710 | <0.5 | 3 | 13 | 190 | 1 | 2.68 | 7 | <1 | <5 | <1 | 2.53 | <22 | 59 | 0.2 | 12 | <3 | <100 | <500 | <0.5 | 4.4 |
| 5404 | 5 | <5 | 2.4 | 730 | <0.5 | 3 | 13 | 200 | 1 | 2.72 | 8 | <1 | <5 | <1 | 2.46 | <23 | 42 | <0.1 | 12 | <3 | <100 | 900 | 1.8 | 4.6 |
| 5407 | 6 | <5 | 2.3 | 380 | <0.5 | 4 | 14 | 190 | <1 | 2.73 | 8 | <1 | <5 | <1 | 2.06 | 100 | 33 | <0.1 | 12 | <3 | <100 | <500 | <0.5 | 5.2 |
| 5408 | 2 | <5 | 3.3 | 430 | <0.5 | 3 | 15 | 200 | 1 | 2.91 | 6 | <1 | <5 | 3 | 2.02 | <21 | 48 | 0.2 | 12 | <3 | <100 | <500 | <0.5 | 4.6 |
| 5409 | 18 | <5 | 5.1 | 480 | <0.5 | 6 | 23 | 270 | <1 | 3.45 | 6 | <1 | <5 | <1 | 2.10 | <27 | 46 | 0.3 | 16 | <3 | <100 | <500 | <0.5 | 3.4 |
| 5410 | 18 | <5 | 6.0 | 330 | <0.5 | 5 | 25 | 300 | 2 | 4.07 | 5 | <1 | <5 | <1 | 2.12 | <31 | 35 | 0.4 | 18 | <3 | <100 | <500 | <0.5 | 3.6 |
| 5411 | 8 | <5 | 8.1 | 450 | <0.5 | 5 | 29 | 400 | 2 | 4.30 | 6 | <1 | <5 | <1 | 2.05 | <32 | 53 | 0.3 | 19 | <3 | <100 | <500 | <0.5 | 4.3 |
| 5412 | 40 | <5 | 8.8 | 690 | <0.5 | 6 | 33 | 460 | 2 | 4.68 | 7 | <1 | <5 | <1 | 2.16 | 180 | <15 | 0.2 | 20 | <3 | <100 | <500 | <0.5 | 4.0 |
| 5413 | <2 | <5 | 5.5 | 620 | <0.5 | 6 | 30 | 360 | 2 | 4.28 | 5 | <1 | <5 | <1 | 2.09 | <28 | 37 | 0.3 | 19 | <3 | <100 | <500 | <0.5 | 3.6 |
| 5414 | <2 | <5 | 4.1 | 590 | <0.5 | 4 | 26 | 320 | <1 | 4.02 | 5 | <1 | <5 | <1 | 1.92 | <26 | 28 | 0.4 | 17 | <3 | <100 | <500 | <0.5 | 3.6 |
| 5415 | <2 | <5 | 3.7 | 650 | <0.5 | 5 | 26 | 360 | 2 | 4.23 | 5 | <1 | <5 | <1 | 2.01 | 250 | <15 | 0.4 | 19 | <3 | <100 | <500 | <0.5 | 3.6 |
| 5416 | <2 | <5 | 3.3 | 380 | <0.5 | 5 | 26 | 330 | 2 | 3.97 | 5 | <1 | <5 | <1 | 1.99 | <27 | 43 | <0.1 | 18 | <3 | <100 | <500 | <0.5 | 3.8 |
| 5417 | <2 | <5 | 5.4 | 820 | <0.5 | 5 | 27 | 450 | 3 | 5.04 | 7 | <1 | <5 | <1 | 2.36 | <37 | 64 | 0.4 | 19 | <3 | <100 | <500 | <0.5 | 4.9 |
| 5418 | 9 | <5 | 2.7 | 480 | <0.5 | 7 | 21 | 140 | 2 | 3.95 | 7 | <1 | <5 | <1 | 1.31 | <25 | 45 | 0.3 | 12 | <3 | <100 | <500 | <0.5 | 5.1 |
| 5419 | <2 | <5 | 2.0 | 360 | 2.0 | 16 | 9 | 110 | <1 | 2.12 | 5 | <1 | <5 | <1 | 0.89 | <20 | 39 | <0.1 | 7.6 | <3 | <100 | <500 | <0.5 | 4.7 |

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| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA % | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SN PPM | SR PPM | TA PPM | TH PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5420 | 5 | <5 | 2.4 | 340 | 1.7 | 16 | 10 | 130 | 1 | 2.42 | 5 | <1 | <5 | <1 | 1.09 | <20 | 44 | 0.2 | 9.7 | <3 | <100 | <500 | <0.5 | 3.7 |
| 5421 | <2 | <5 | 2.0 | 460 | 3.4 | 18 | 9 | 100 | 2 | 2.50 | 5 | <1 | <5 | <1 | 0.76 | <24 | <15 | 0.1 | 8.1 | <3 | <100 | 590 | <0.5 | 6.1 |
| 5422 | 5 | <5 | 1.5 | 360 | <0.5 | 10 | 11 | 130 | 1 | 2.40 | 6 | <1 | <5 | <1 | 1.50 | <21 | 49 | <0.1 | 9.9 | <3 | <100 | <500 | <0.5 | 3.9 |
| 5423 | 5 | <5 | 1.5 | 420 | <0.5 | 8 | 13 | 150 | <1 | 2.92 | 7 | <1 | <5 | <1 | 1.65 | <25 | 35 | <0.1 | 12 | <3 | <100 | <500 | <0.5 | 4.3 |
| 5424 | 8 | <5 | 1.7 | 500 | <0.5 | 7 | 12 | 170 | <1 | 2.68 | 7 | <1 | <5 | <1 | 1.63 | <20 | 34 | <0.1 | 11 | <3 | <100 | <500 | <0.5 | 3.9 |
| 5425 | <2 | <5 | 1.8 | 430 | <0.5 | 5 | 29 | 660 | 1 | 4.09 | 4 | <1 | <5 | <1 | 1.66 | 330 | 39 | 0.2 | 18 | <3 | <100 | <500 | <0.5 | 2.8 |

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| Sample description | U PPM | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5328 | <0.5 | 9 | <50 | 28 | 64 | 27 | 5.0 | 1.5 | 0.8 | 2.2 | 0.39 | 37.58 |
| 5329 | <0.5 | <1 | 176 | 25 | 57 | 20 | 4.9 | 1.5 | <0.5 | 2.6 | 0.49 | 34.54 |
| 5330 | 1.9 | <1 | <50 | 26 | 59 | 26 | 4.7 | 1.5 | <0.5 | 2.5 | 0.40 | 41.12 |
| 5331 | 2.5 | 1 | 122 | 42 | 100 | 47 | 8.3 | 2.2 | <0.5 | 3.6 | 0.70 | 17.51 |
| 5332 | <0.5 | <1 | 142 | 14 | 31 | <5 | 2.9 | 0.7 | <0.5 | 2.0 | 0.41 | 21.04 |
| 5333 | <0.5 | <1 | <50 | 32 | 69 | 24 | 6.5 | 1.9 | <0.5 | 3.0 | 0.45 | 37.94 |
| 5334 | 4.1 | <1 | <50 | 34 | 87 | 41 | 7.0 | 1.9 | <0.5 | 3.2 | 0.43 | 19.63 |
| 5335 | 0.7 | 2 | 149 | 39 | 86 | 39 | 8.0 | 2.4 | <0.5 | 4.0 | 0.59 | 17.08 |
| 5336 | <0.5 | <1 | <50 | 37 | 86 | 32 | 7.3 | 2.0 | <0.5 | 3.8 | 0.49 | 23.29 |
| 5337 | <0.5 | <1 | 125 | 35 | 75 | 34 | 6.5 | 2.0 | <0.5 | 3.3 | 0.51 | 42.68 |
| 5338 | <0.6 | 1 | <50 | 40 | 84 | 41 | 8.1 | 2.2 | <0.5 | 3.5 | 0.47 | 15.67 |
| 5339 | 1.6 | 4 | 87 | 26 | 46 | 20 | 4.3 | 1.0 | 0.6 | 1.8 | 0.27 | 9.482 |
| 5340 | 1.8 | <1 | 100 | 27 | 48 | 18 | 4.5 | 1.3 | <0.5 | 2.1 | 0.31 | 9.543 |
| 5341 | 3.2 | <1 | 93 | 34 | 80 | 40 | 6.9 | 2.2 | <0.5 | 3.1 | 0.61 | 23.48 |
| 5342 | 1.7 | <1 | <50 | 28 | 47 | 21 | 4.7 | 1.1 | <0.5 | 2.1 | 0.33 | 10.22 |
| 5343 | 2.7 | 38 | 162 | 38 | 92 | 47 | 7.6 | 2.1 | <0.5 | 3.3 | 0.57 | 15.30 |
| 5344 | <0.5 | 230 | <50 | 32 | 88 | 41 | 6.6 | 2.0 | <0.5 | 3.0 | 0.46 | 13.42 |
| 5345 | 1.8 | <1 | 104 | 27 | 59 | 23 | 5.0 | 1.5 | <0.5 | 2.1 | 0.36 | 33.68 |
| 5346 | 2.5 | <1 | <50 | 28 | 61 | 28 | 5.5 | 1.7 | <0.5 | 2.6 | 0.43 | 27.96 |
| 5347 | <0.5 | 9 | 106 | 21 | 52 | 20 | 4.7 | 1.5 | <0.5 | 2.7 | 0.40 | 34.16 |
| 5348 | 0.7 | 4 | 78 | 24 | 54 | 26 | 5.3 | 1.7 | <0.5 | 3.0 | 0.47 | 29.57 |
| 5349 | <0.5 | <1 | 128 | 18 | 43 | 22 | 4.4 | 1.5 | <0.5 | 2.7 | 0.44 | 36.63 |
| 5350 | <0.5 | <1 | <50 | 24 | 62 | 28 | 6.1 | 2.1 | <0.5 | 3.5 | 0.55 | 17.02 |
| 5351 | <0.5 | 6 | 165 | 29 | 67 | 35 | 7.4 | 2.3 | 0.9 | 4.5 | 0.63 | 14.63 |
| 5352 | 1.6 | <1 | 121 | 27 | 64 | 28 | 5.3 | 1.8 | <0.5 | 2.1 | 0.33 | 30.96 |
| 5353 | <0.5 | <1 | 101 | 25 | 55 | 22 | 4.9 | 1.5 | 0.6 | 2.1 | 0.36 | 38.63 |
| 5354 | <0.5 | <1 | <50 | 28 | 61 | 26 | 5.5 | 1.6 | <0.5 | 2.7 | 0.44 | 42.33 |
| 5355 | 2.3 | <1 | 69 | 31 | 73 | 30 | 6.1 | 1.9 | <0.5 | 3.1 | 0.50 | 26.31 |
| 5356 | 1.4 | 10 | <50 | 23 | 44 | 16 | 4.0 | 1.1 | 0.8 | 1.6 | 0.27 | 8.225 |
| 5357 | 1.6 | <1 | <50 | 24 | 52 | 26 | 4.6 | 1.3 | <0.5 | 2.1 | 0.36 | 32.70 |
| 5358 | 2.1 | <1 | <50 | 27 | 62 | 30 | 5.3 | 1.6 | <0.5 | 2.4 | 0.36 | 31.84 |
| 5359 | 2.3 | <1 | 117 | 27 | 60 | 31 | 5.8 | 2.1 | <0.5 | 4.0 | 0.63 | 33.04 |
| 5360 | <0.5 | 8 | <50 | 29 | 52 | 22 | 5.1 | 1.3 | <0.5 | 2.5 | 0.31 | 8.077 |
| 5361 | 3.6 | <1 | 79 | 33 | 75 | 35 | 6.6 | 2.2 | <0.5 | 3.0 | 0.53 | 23.24 |
| 5362 | 2.4 | <1 | 110 | 28 | 63 | 29 | 5.8 | 1.7 | 0.8 | 2.9 | 0.47 | 35.88 |
| 5363 | 1.5 | <1 | 104 | 25 | 59 | 26 | 4.9 | 1.6 | <0.5 | 2.5 | 0.39 | 40.62 |
| 5364 | 1.4 | <1 | 118 | 26 | 61 | 30 | 5.2 | 1.6 | <0.5 | 2.7 | 0.36 | 27.75 |
| 5365 | <0.5 | <1 | 61 | 27 | 62 | 26 | 5.6 | 1.7 | <0.5 | 3.0 | 0.44 | 26.16 |
| 5366 | 2.8 | <1 | 57 | 26 | 60 | 25 | 5.3 | 1.8 | <0.5 | 2.5 | 0.44 | 30.21 |
| 5367 | 1.6 | <1 | <50 | 20 | 39 | 17 | 3.9 | 1.1 | <0.5 | 2.1 | 0.31 | 6.471 |
| 5368 | <0.5 | <1 | 90 | 19 | 44 | 18 | 4.3 | 1.4 | <0.5 | 1.9 | 0.09 | 30.24 |
| 5369 | 2.2 | <1 | 71 | 27 | 58 | 27 | 5.2 | 1.5 | 0.9 | 3.0 | 0.40 | 37.43 |
| 5370 | 2.2 | <1 | 108 | 28 | 65 | 29 | 5.3 | 1.5 | 0.7 | 2.3 | 0.38 | 32.88 |
| 5371 | 1.6 | <1 | 75 | 29 | 64 | 28 | 5.3 | 1.6 | <0.5 | 2.3 | 0.36 | 32.15 |
| 5372 | 1.7 | 11 | 101 | 27 | 62 | 29 | 5.0 | 1.6 | <0.5 | 2.3 | 0.38 | 25.94 |

# Activation Laboratories Ltd. Work Order: 9739 Report: 9700

| Sample description | U PPM | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5373 | <0.5 | <1 | 110 | 26 | 64 | 30 | 5.4 | 1.5 | 0.7 | 2.7 | 0.42 | 17.10 |
| 5374 | 1.5 | <1 | 66 | 26 | 59 | 26 | 5.0 | 1.5 | 0.6 | 2.4 | 0.37 | 31.93 |
| 5375 | 1.8 | 8 | 94 | 25 | 58 | 23 | 4.7 | 1.4 | 0.6 | 2.3 | 0.33 | 25.65 |
| 5376 | 2.0 | 6 | 102 | 25 | 59 | 25 | 5.1 | 1.5 | <0.5 | 2.5 | 0.45 | 20.14 |
| 5377 | <0.5 | 8 | <50 | 17 | 44 | 17 | 3.5 | 1.1 | <0.5 | 2.0 | 0.30 | 29.15 |
| 5378 | <0.5 | <1 | <50 | 22 | 51 | 21 | 4.4 | 1.4 | 0.7 | 2.4 | 0.36 | 30.65 |
| 5379 | 2.1 | <1 | 166 | 18 | 43 | 23 | 4.1 | 1.3 | 0.6 | 2.4 | 0.40 | 25.66 |
| 5380 | <0.5 | <1 | <50 | 24 | 57 | 27 | 4.9 | 1.5 | <0.5 | 2.3 | 0.36 | 28.89 |
| 5381 | <0.5 | <1 | 52 | 20 | 47 | 19 | 4.0 | 1.2 | 0.6 | 1.7 | 0.28 | 31.26 |
| 5382 | 2.0 | 4 | 62 | 24 | 53 | 24 | 4.6 | 1.5 | 0.6 | 2.0 | 0.31 | 36.38 |
| 5383 | 1.7 | <1 | 83 | 27 | 63 | 27 | 5.1 | 1.5 | <0.5 | 1.9 | 0.22 | 21.72 |
| 5384 | 1.4 | <1 | <50 | 24 | 54 | 22 | 4.4 | 1.3 | 0.7 | 2.2 | 0.34 | 33.49 |
| 5385 | 1.8 | <1 | 125 | 29 | 67 | 35 | 5.3 | 1.5 | <0.5 | 1.9 | 0.33 | 21.14 |
| 5386 | 2.5 | <1 | 132 | 29 | 62 | 24 | 5.3 | 1.6 | <0.5 | 2.2 | 0.39 | 26.78 |
| 5387 | 1.6 | <1 | 96 | 25 | 57 | 23 | 4.5 | 1.4 | <0.5 | 2.2 | 0.35 | 33.94 |
| 5388 | 1.3 | <1 | 106 | 25 | 52 | 23 | 4.7 | 1.4 | 0.7 | 2.0 | 0.31 | 29.85 |
| 5389 | 1.5 | <1 | 93 | 25 | 55 | 26 | 4.6 | 1.4 | <0.5 | 1.9 | 0.28 | 29.65 |
| 5390 | <0.5 | <1 | 88 | 24 | 45 | 18 | 4.0 | 1.0 | 0.6 | 1.4 | 0.22 | 7.051 |
| 5391 | 1.6 | <1 | <50 | 27 | 61 | 28 | 4.9 | 1.5 | 0.6 | 2.2 | 0.35 | 29.31 |
| 5392 | 1.9 | <1 | <50 | 25 | 56 | 25 | 4.9 | 1.5 | <0.5 | 2.1 | 0.36 | 22.80 |
| 5393 | 1.1 | <1 | 102 | 24 | 55 | 25 | 4.6 | 1.3 | 0.7 | 1.9 | 0.34 | 25.82 |
| 5394 | 2.2 | <1 | <50 | 25 | 57 | 31 | 5.7 | 1.8 | 0.6 | 2.5 | 0.39 | 35.28 |
| 5395 | 2.1 | <1 | 109 | 27 | 66 | 31 | 6.3 | 2.0 | 0.7 | 2.6 | 0.46 | 28.28 |
| 5396 | 1.5 | <1 | 88 | 24 | 56 | 29 | 5.4 | 1.7 | 0.6 | 2.3 | 0.37 | 36.90 |
| 5397 | 1.8 | <1 | <50 | 25 | 59 | 28 | 5.4 | 1.7 | 0.7 | 2.4 | 0.37 | 36.48 |
| 5398 | 2.5 | <1 | 70 | 30 | 70 | 32 | 6.4 | 2.0 | 0.9 | 2.9 | 0.44 | 26.57 |
| 5399 | 1.8 | <1 | <50 | 25 | 58 | 30 | 5.7 | 1.8 | 0.5 | 2.4 | 0.37 | 36.28 |
| 5400 | 3.2 | <1 | <50 | 30 | 72 | 33 | 6.4 | 1.9 | <0.5 | 2.6 | 0.41 | 20.10 |
| 5401 | 1.6 | <1 | <50 | 28 | 55 | 26 | 5.3 | 1.8 | <0.5 | 2.4 | 0.40 | 26.17 |
| 5402 | 1.5 | <1 | 81 | 26 | 51 | 25 | 4.7 | 1.5 | <0.5 | 2.2 | 0.32 | 35.33 |
| 5403 | 1.5 | <1 | 58 | 23 | 41 | 18 | 4.1 | 1.3 | <0.5 | 1.8 | 0.27 | 37.65 |
| 5404 | 2.3 | 3 | <50 | 25 | 48 | 23 | 4.3 | 1.4 | <0.5 | 2.0 | 0.31 | 33.52 |
| 5407 | 1.8 | <1 | 81 | 22 | 41 | 18 | 3.5 | 1.1 | <0.5 | 1.8 | 0.28 | 35.19 |
| 5408 | 1.2 | <1 | 56 | 20 | 41 | 18 | 3.3 | 1.1 | <0.5 | 1.9 | 0.29 | 34.52 |
| 5409 | 1.1 | <1 | 78 | 20 | 39 | 15 | 3.7 | 1.1 | <0.5 | 1.8 | 0.25 | 8.025 |
| 5410 | <0.5 | <1 | 68 | 20 | 42 | 18 | 3.8 | 1.0 | <0.5 | 1.8 | 0.30 | 6.653 |
| 5411 | 1.1 | <1 | 158 | 21 | 46 | 21 | 4.1 | 1.4 | 0.6 | 2.2 | 0.39 | 19.73 |
| 5412 | <0.5 | <1 | 155 | 23 | 49 | 17 | 4.5 | 1.5 | <0.5 | 2.7 | 0.36 | 13.58 |
| 5413 | <0.5 | <1 | 68 | 21 | 38 | 22 | 4.2 | 1.1 | <0.5 | 2.0 | 0.23 | 8.411 |
| 5414 | 1.3 | <1 | <50 | 20 | 37 | 18 | 3.8 | 1.1 | <0.5 | 1.8 | 0.24 | 8.507 |
| 5415 | 1.1 | <1 | 66 | 21 | 39 | 18 | 4.1 | 1.2 | <0.5 | 1.7 | 0.24 | 7.587 |
| 5416 | <0.5 | <1 | 110 | 21 | 38 | 18 | 4.0 | 1.1 | <0.5 | 1.8 | 0.23 | 8.068 |
| 5417 | 1.9 | 4 | 154 | 27 | 55 | 24 | 5.0 | 1.6 | 0.9 | 2.2 | 0.41 | 15.70 |
| 5418 | 1.0 | <1 | <50 | 27 | 52 | 23 | 4.1 | 1.1 | 0.9 | 1.7 | 0.25 | 6.873 |
| 5419 | <0.5 | 5 | <50 | 18 | 37 | 17 | 3.0 | 0.9 | 0.5 | 1.5 | 0.25 | 29.50 |

# Activation Laboratories Ltd. Work Order: 9739 Report: 9700

| Sample description | U PPM | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5420 | 1.2 | <1 | <50 | 17 | 32 | 14 | 3.2 | 0.9 | 0.6 | 1.5 | 0.20 | 9.284 |
| 5421 | 2.3 | 3 | <50 | 20 | 45 | 19 | 3.2 | 0.9 | <0.5 | 1.8 | 0.26 | 17.51 |
| 5422 | 0.9 | <1 | <50 | 18 | 36 | 16 | 3.2 | 0.9 | <0.5 | 1.5 | 0.22 | 8.481 |
| 5423 | <0.5 | <1 | <50 | 20 | 43 | 17 | 3.6 | 1.1 | <0.5 | 1.9 | 0.30 | 26.23 |
| 5424 | 1.9 | <1 | <50 | 19 | 39 | 19 | 3.3 | 1.1 | 0.6 | 1.9 | 0.29 | 37.82 |
| 5425 | <0.5 | <1 | 110 | 15 | 30 | 14 | 2.9 | 1.0 | 0.5 | 1.8 | 0.27 | 34.04 |

# Activation Laboratories Ltd. Work Order: 9739 Report: 9700B

| Sample description | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | MN PPM | SR PPM | CD PPM | BI PPM | V PPM | CA % | P % | MG % | TI % | AL % | K % | Y PPM | BE PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5328 | 2. | 43. | 6. | 50. | <0.4 | 128. | 549. | 376. | <0.5 | <5. | 80. | 3.24 | 0.078 | 2.12 | 0.26 | 6.09 | 1.97 | 13. | <2. |
| 5329 | 2. | 68. | 10. | 77. | <0.4 | 490. | 690. | 292. | <0.5 | <5. | 96. | 3.25 | 0.069 | 4.58 | 0.24 | 5.10 | 1.11 | 12. | <2. |
| 5330 | 2. | 37. | 9. | 41. | <0.4 | 96. | 510. | 367. | <0.5 | <5. | 72. | 3.23 | 0.082 | 1.63 | 0.28 | 6.00 | 1.66 | 14. | <2. |
| 5331 | 2. | 58. | 12. | 72. | <0.4 | 169. | 675. | 385. | <0.5 | <5. | 99. | 3.28 | 0.106 | 2.22 | 0.44 | 6.37 | 1.41 | 18. | <2. |
| 5332 | 2. | 74. | 5. | 65. | 0.5 | 877. | 966. | 140. | <0.5 | <5. | 142. | 3.48 | 0.034 | 9.11 | 0.29 | 4.55 | 0.54 | 8. | <2. |
| 5333 | 2. | 53. | 12. | 62. | <0.4 | 155. | 637. | 434. | <0.5 | <5. | 94. | 3.31 | 0.102 | 2.10 | 0.38 | 6.28 | 1.35 | 18. | <2. |
| 5334 | 2. | 47. | 19. | 68. | <0.4 | 170. | 632. | 433. | <0.5 | <5. | 96. | 2.99 | 0.099 | 2.25 | 0.40 | 6.59 | 1.51 | 17. | <2. |
| 5335 | 2. | 51. | 12. | 66. | <0.4 | 151. | 631. | 419. | <0.5 | <5. | 94. | 3.10 | 0.101 | 2.14 | 0.38 | 6.48 | 1.48 | 18. | <2. |
| 5336 | 2. | 52. | 8. | 62. | <0.4 | 150. | 625. | 392. | <0.5 | <5. | 93. | 3.01 | 0.093 | 2.29 | 0.37 | 6.32 | 1.47 | 17. | <2. |
| 5337 | 2. | 45. | 11. | 48. | <0.4 | 117. | 576. | 430. | <0.5 | <5. | 84. | 3.12 | 0.111 | 1.60 | 0.38 | 6.30 | 1.29 | 18. | <2. |
| 5338 | 2. | 54. | 19. | 67. | <0.4 | 144. | 615. | 392. | <0.5 | <5. | 92. | 2.99 | 0.097 | 2.08 | 0.36 | 6.28 | 1.43 | 16. | <2. |
| 5339 | 2. | 63. | 19. | 88. | <0.4 | 208. | 676. | 414. | <0.5 | <5. | 103. | 3.14 | 0.098 | 2.81 | 0.38 | 6.54 | 1.61 | 17. | <2. |
| 5340 | 2. | 56. | 22. | 67. | <0.4 | 158. | 670. | 402. | <0.5 | <5. | 99. | 3.10 | 0.106 | 2.14 | 0.42 | 6.21 | 1.40 | 18. | <2. |
| 5341 | 2. | 46. | 15. | 63. | 0.4 | 138. | 606. | 434. | <0.5 | 6. | 90. | 2.95 | 0.089 | 2.02 | 0.34 | 6.50 | 1.47 | 16. | <2. |
| 5342 | 2. | 54. | 22. | 71. | 0.4 | 153. | 668. | 405. | <0.5 | <5. | 100. | 3.05 | 0.105 | 2.21 | 0.44 | 6.32 | 1.43 | 18. | <2. |
| 5343 | 2. | 56. | 7. | 70. | <0.4 | 162. | 665. | 441. | <0.5 | <5. | 100. | 3.14 | 0.104 | 2.35 | 0.41 | 6.64 | 1.56 | 18. | <2. |
| 5344 | 3. | 64. | 15. | 86. | <0.4 | 192. | 709. | 454. | <0.5 | <5. | 113. | 3.19 | 0.085 | 2.77 | 0.38 | 6.70 | 1.70 | 14. | <2. |
| 5345 | 2. | 42. | 14. | 61. | <0.4 | 123. | 546. | 410. | <0.5 | <5. | 87. | 2.81 | 0.080 | 2.10 | 0.31 | 6.32 | 1.63 | 14. | <2. |
| 5346 | 2. | 68. | 6. | 66. | 0.5 | 97. | 633. | 391. | <0.5 | <5. | 107. | 3.55 | 0.089 | 1.83 | 0.38 | 6.47 | 1.36 | 17. | <2. |
| 5347 | 52. | 99. | 12. | 70. | 0.4 | 100. | 762. | 368. | <0.5 | <5. | 136. | 4.26 | 0.070 | 2.19 | 0.41 | 6.47 | 1.16 | 16. | <2. |
| 5348 | 2. | 82. | 7. | 62. | 0.4 | 89. | 742. | 408. | <0.5 | <5. | 132. | 3.91 | 0.089 | 2.11 | 0.45 | 6.37 | 1.30 | 18. | <2. |
| 5349 | 2. | 87. | 6. | 68. | 0.6 | 79. | 815. | 383. | <0.5 | <5. | 153. | 4.41 | 0.075 | 2.30 | 0.42 | 6.37 | 1.21 | 17. | <2. |
| 5350 | 2. | 107. | 5. | 65. | 0.5 | 87. | 937. | 367. | <0.5 | <5. | 161. | 4.40 | 0.076 | 2.33 | 0.49 | 6.31 | 1.12 | 19. | <2. |
| 5351 | 2. | 109. | 14. | 72. | 0.4 | 90. | 886. | 396. | <0.5 | <5. | 167. | 4.55 | 0.087 | 2.34 | 0.54 | 6.39 | 1.20 | 20. | <2. |
| 5352 | 2. | 70. | 11. | 66. | <0.4 | 120. | 656. | 445. | <0.5 | <5. | 99. | 3.65 | 0.093 | 2.38 | 0.34 | 6.05 | 1.42 | 14. | <2. |
| 5353 | 2. | 32. | 5. | 47. | <0.4 | 69. | 475. | 451. | <0.5 | <5. | 73. | 2.74 | 0.092 | 1.39 | 0.29 | 6.20 | 1.44 | 14. | <2. |
| 5354 | 2. | 46. | 10. | 54. | <0.4 | 105. | 602. | 447. | 0.6 | <5. | 88. | 3.05 | 0.113 | 1.59 | 0.40 | 6.35 | 1.35 | 18. | <2. |
| 5355 | 2. | 58. | 15. | 65. | <0.4 | 130. | 661. | 413. | <0.5 | <5. | 93. | 3.20 | 0.115 | 1.70 | 0.46 | 6.21 | 1.23 | 19. | <2. |
| 5356 | 2. | 59. | 11. | 78. | <0.4 | 161. | 674. | 370. | <0.5 | <5. | 110. | 3.12 | 0.093 | 2.67 | 0.35 | 6.51 | 1.63 | 14. | <2. |
| 5357 | 2. | 30. | 14. | 51. | <0.4 | 81. | 515. | 395. | <0.5 | <5. | 84. | 2.67 | 0.090 | 1.89 | 0.29 | 6.34 | 1.48 | 13. | <2. |
| 5358 | 2. | 20. | 12. | 44. | <0.4 | 62. | 690. | 450. | <0.5 | <5. | 79. | 2.69 | 0.100 | 1.46 | 0.32 | 6.25 | 1.41 | 16. | <2. |
| 5359 | 2. | 48. | 15. | 55. | 0.5 | 107. | 715. | 313. | <0.5 | <5. | 165. | 3.57 | 0.076 | 2.21 | 0.59 | 5.97 | 1.13 | 23. | <2. |
| 5360 | 2. | 41. | 13. | 60. | <0.4 | 100. | 684. | 400. | <0.5 | <5. | 99. | 3.06 | 0.103 | 1.92 | 0.42 | 6.34 | 1.51 | 18. | <2. |
| 5361 | 2. | 41. | 10. | 53. | <0.4 | 89. | 602. | 443. | <0.5 | <5. | 92. | 3.00 | 0.113 | 1.43 | 0.43 | 6.21 | 1.32 | 19. | <2. |
| 5362 | 2. | 41. | 12. | 58. | <0.4 | 85. | 594. | 433. | <0.5 | <5. | 89. | 3.01 | 0.097 | 1.61 | 0.38 | 6.29 | 1.34 | 18. | <2. |
| 5363 | 2. | 38. | 16. | 55. | <0.4 | 100. | 538. | 420. | <0.5 | <5. | 80. | 3.13 | 0.100 | 1.63 | 0.34 | 6.18 | 1.39 | 16. | <2. |
| 5364 | 2. | 49. | 13. | 71. | <0.4 | 145. | 646. | 406. | <0.5 | <5. | 99. | 3.36 | 0.095 | 2.35 | 0.36 | 6.46 | 1.46 | 17. | <2. |
| 5365 | 2. | 79. | 18. | 75. | 0.4 | 128. | 739. | 369. | <0.5 | <5. | 126. | 3.89 | 0.092 | 2.39 | 0.40 | 6.33 | 1.31 | 17. | <2. |
| 5366 | 2. | 76. | 12. | 76. | 0.4 | 113. | 732. | 442. | <0.5 | <5. | 126. | 3.99 | 0.102 | 2.41 | 0.42 | 6.48 | 1.34 | 18. | <2. |
| 5367 | 2. | 80. | 9. | 86. | 0.6 | 139. | 821. | 336. | <0.5 | <5. | 147. | 4.21 | 0.078 | 2.85 | 0.40 | 6.62 | 1.32 | 17. | <2. |
| 5368 | 2. | 77. | 5. | 63. | 0.4 | 120. | 739. | 339. | <0.5 | <5. | 139. | 4.04 | 0.082 | 2.76 | 0.38 | 6.46 | 1.35 | 17. | <2. |
| 5369 | 2. | 44. | 14. | 55. | <0.4 | 92. | 637. | 411. | <0.5 | <5. | 99. | 3.37 | 0.106 | 1.67 | 0.42 | 6.25 | 1.22 | 18. | <2. |
| 5370 | 2. | 43. | 12. | 57. | <0.4 | 107. | 631. | 465. | <0.5 | <5. | 99. | 3.47 | 0.105 | 2.06 | 0.37 | 6.36 | 1.44 | 17. | <2. |
| 5371 | 3. | 49. | 9. | 53. | 0.5 | 87. | 584. | 425. | <0.5 | <5. | 90. | 3.19 | 0.093 | 1.73 | 0.35 | 6.36 | 1.42 | 16. | <2. |
| 5372 | 3. | 51. | 12. | 55. | <0.4 | 88. | 595. | 413. | <0.5 | <5. | 89. | 3.21 | 0.085 | 1.74 | 0.32 | 6.43 | 1.47 | 14. | <2. |

# Activation Laboratories Ltd. Work Order: 9739 Report: 9700B

| Sample description | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | MN PPM | SR PPM | CD PPM | BI PPM | V PPM | CA % | P % | MG % | TI % | AL % | K % | Y PPM | BE PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5373 | 2. | 55. | 12. | 62. | 0.4 | 84. | 683. | 395. | <0.5 | <5. | 119. | 3.57 | 0.084 | 2.02 | 0.39 | 6.82 | 1.65 | 16. | <2. |
| 5374 | 2. | 37. | 14. | 50. | <0.4 | 80. | 560. | 410. | <0.5 | <5. | 88. | 3.01 | 0.094 | 1.55 | 0.34 | 6.25 | 1.41 | 16. | <2. |
| 5375 | 2. | 46. | 8. | 64. | 0.4 | 97. | 638. | 380. | <0.5 | <5. | 101. | 3.26 | 0.075 | 2.04 | 0.33 | 6.70 | 1.69 | 14. | <2. |
| 5376 | 2. | 45. | 16. | 45. | 0.4 | 61. | 643. | 312. | <0.5 | <5. | 83. | 6.10 | 0.069 | 2.21 | 0.28 | 4.97 | 1.42 | 14. | <2. |
| 5377 | 3. | 42. | 6. | 44. | <0.4 | 56. | 609. | 288. | <0.5 | <5. | 75. | 10.74 | 0.060 | 2.28 | 0.20 | 4.25 | 1.53 | 12. | <2. |
| 5378 | 2. | 45. | 5. | 56. | <0.4 | 82. | 645. | 351. | <0.5 | <5. | 104. | 3.28 | 0.078 | 1.93 | 0.35 | 6.43 | 1.48 | 16. | <2. |
| 5379 | 2. | 81. | 7. | 85. | 0.7 | 113. | 875. | 306. | <0.5 | <5. | 164. | 3.84 | 0.074 | 3.03 | 0.42 | 6.61 | 1.40 | 16. | <2. |
| 5380 | 2. | 48. | 10. | 44. | <0.4 | 70. | 519. | 390. | <0.5 | <5. | 79. | 3.14 | 0.082 | 1.59 | 0.30 | 5.86 | 1.53 | 14. | <2. |
| 5381 | 2. | 35. | 7. | 42. | <0.4 | 75. | 495. | 366. | <0.5 | <5. | 71. | 3.23 | 0.078 | 1.68 | 0.28 | 5.74 | 1.57 | 13. | <2. |
| 5382 | 2. | 48. | 9. | 46. | 0.4 | 75. | 512. | 426. | <0.5 | <5. | 74. | 3.26 | 0.094 | 1.60 | 0.31 | 6.04 | 1.56 | 14. | <2. |
| 5383 | 2. | 43. | 7. | 46. | <0.4 | 70. | 521. | 408. | <0.5 | <5. | 77. | 3.56 | 0.078 | 1.64 | 0.29 | 5.88 | 1.61 | 13. | <2. |
| 5384 | 2. | 39. | 10. | 61. | <0.4 | 98. | 620. | 344. | <0.5 | <5. | 85. | 3.59 | 0.085 | 2.02 | 0.31 | 5.86 | 1.64 | 14. | <2. |
| 5385 | 2. | 68. | 7. | 92. | 0.4 | 185. | 821. | 310. | <0.5 | <5. | 104. | 4.52 | 0.125 | 4.10 | 0.31 | 5.77 | 2.16 | 14. | <2. |
| 5386 | 2. | 41. | 5. | 57. | 0.5 | 93. | 591. | 365. | <0.5 | <5. | 86. | 3.41 | 0.090 | 1.77 | 0.38 | 6.08 | 1.64 | 16. | <2. |
| 5387 | 2. | 32. | 5. | 57. | 0.5 | 79. | 542. | 360. | <0.5 | <5. | 79. | 3.56 | 0.079 | 1.75 | 0.33 | 6.05 | 1.78 | 14. | <2. |
| 5388 | 2. | 41. | 10. | 76. | <0.4 | 83. | 516. | 378. | <0.5 | <5. | 73. | 3.39 | 0.087 | 1.82 | 0.29 | 6.03 | 1.92 | 14. | <2. |
| 5389 | 2. | 40. | 7. | 78. | <0.4 | 85. | 515. | 373. | <0.5 | <5. | 76. | 3.34 | 0.084 | 1.87 | 0.30 | 5.98 | 1.88 | 13. | <2. |
| 5390 | 2. | 50. | 13. | 69. | <0.4 | 96. | 533. | 366. | <0.5 | <5. | 79. | 3.28 | 0.077 | 1.92 | 0.29 | 6.01 | 1.90 | 13. | <2. |
| 5391 | 2. | 37. | 14. | 50. | <0.4 | 68. | 526. | 399. | <0.5 | <5. | 76. | 3.50 | 0.074 | 1.57 | 0.31 | 6.06 | 1.96 | 13. | <2. |
| 5392 | 2. | 39. | 7. | 53. | 0.4 | 80. | 579. | 380. | <0.5 | <5. | 85. | 3.46 | 0.076 | 1.76 | 0.33 | 6.26 | 1.89 | 14. | <2. |
| 5393 | 2. | 41. | 9. | 57. | 0.4 | 79. | 546. | 410. | <0.5 | 10. | 79. | 3.49 | 0.083 | 1.68 | 0.32 | 6.37 | 2.00 | 14. | <2. |
| 5394 | 2. | 25. | 11. | 40. | 0.5 | 55. | 478. | 543. | <0.5 | <5. | 71. | 2.82 | 0.110 | 1.16 | 0.38 | 6.09 | 1.63 | 17. | <2. |
| 5395 | 2. | 24. | 8. | 43. | 0.4 | 61. | 527. | 554. | <0.5 | <5. | 76. | 3.03 | 0.114 | 1.30 | 0.39 | 6.37 | 1.71 | 18. | <2. |
| 5396 | 2. | 22. | 9. | 38. | 0.4 | 53. | 457. | 523. | <0.5 | <5. | 70. | 2.62 | 0.104 | 1.14 | 0.31 | 5.98 | 1.66 | 16. | <2. |
| 5397 | 2. | 25. | 9. | 52. | 0.4 | 63. | 533. | 517. | <0.5 | <5. | 79. | 2.75 | 0.104 | 1.37 | 0.34 | 6.18 | 1.80 | 17. | <2. |
| 5398 | 2. | 24. | 6. | 45. | 0.4 | 63. | 531. | 508. | <0.5 | <5. | 78. | 2.84 | 0.109 | 1.33 | 0.36 | 6.18 | 1.70 | 18. | <2. |
| 5399 | 2. | 20. | 7. | 33. | 0.4 | 48. | 457. | 525. | <0.5 | <5. | 68. | 2.68 | 0.101 | 1.09 | 0.33 | 5.81 | 1.59 | 16. | <2. |
| 5400 | 2. | 29. | 10. | 52. | <0.4 | 67. | 556. | 486. | <0.5 | <5. | 82. | 3.15 | 0.105 | 1.52 | 0.37 | 6.26 | 1.72 | 17. | <2. |
| 5401 | 2. | 19. | 9. | 41. | <0.4 | 58. | 516. | 530. | <0.5 | <5. | 76. | 2.84 | 0.114 | 1.30 | 0.37 | 6.03 | 1.64 | 17. | <2. |
| 5402 | 2. | 24. | 5. | 42. | 0.4 | 57. | 517. | 521. | <0.5 | <5. | 76. | 2.81 | 0.117 | 1.26 | 0.37 | 5.95 | 1.61 | 18. | <2. |
| 5403 | 2. | 22. | 14. | 38. | 0.5 | 70. | 495. | 513. | <0.5 | <5. | 72. | 2.81 | 0.111 | 1.51 | 0.31 | 5.98 | 1.56 | 16. | <2. |
| 5404 | 2. | 22. | 10. | 41. | <0.4 | 65. | 495. | 489. | <0.5 | <5. | 76. | 2.77 | 0.110 | 1.31 | 0.35 | 6.07 | 1.62 | 17. | <2. |
| 5407 | 2. | 35. | 5. | 44. | 0.4 | 81. | 522. | 357. | <0.5 | <5. | 74. | 3.28 | 0.080 | 1.47 | 0.32 | 5.79 | 1.56 | 16. | <2. |
| 5408 | 2. | 43. | 6. | 51. | <0.4 | 91. | 536. | 356. | <0.5 | <5. | 75. | 3.39 | 0.074 | 1.62 | 0.30 | 5.70 | 1.53 | 14. | <2. |
| 5409 | 2. | 58. | 14. | 78. | 0.5 | 139. | 652. | 373. | <0.5 | <5. | 90. | 3.98 | 0.075 | 2.16 | 0.33 | 6.09 | 1.63 | 14. | <2. |
| 5410 | 2. | 57. | 5. | 68. | 0.5 | 140. | 699. | 335. | <0.5 | <5. | 96. | 4.01 | 0.067 | 2.35 | 0.32 | 5.96 | 1.50 | 14. | <2. |
| 5411 | 2. | 67. | 8. | 85. | 0.6 | 177. | 728. | 360. | <0.5 | 6. | 94. | 4.06 | 0.074 | 2.55 | 0.33 | 5.74 | 1.42 | 14. | <2. |
| 5412 | 2. | 71. | 9. | 88. | <0.4 | 174. | 744. | 372. | <0.5 | <5. | 97. | 4.12 | 0.074 | 2.59 | 0.34 | 5.79 | 1.44 | 16. | <2. |
| 5413 | 2. | 84. | 5. | 85. | 0.6 | 165. | 747. | 388. | <0.5 | <5. | 97. | 4.21 | 0.081 | 2.53 | 0.33 | 5.66 | 1.46 | 16. | <2. |
| 5414 | 2. | 70. | 10. | 79. | 0.4 | 151. | 729. | 400. | <0.5 | <5. | 96. | 4.11 | 0.082 | 2.49 | 0.33 | 5.79 | 1.49 | 16. | <2. |
| 5415 | 2. | 72. | 7. | 74. | 0.7 | 158. | 770. | 414. | <0.5 | <5. | 106. | 4.33 | 0.087 | 2.85 | 0.34 | 5.92 | 1.63 | 16. | <2. |
| 5416 | 2. | 74. | 6. | 76. | <0.4 | 143. | 722. | 419. | <0.5 | <5. | 96. | 4.12 | 0.083 | 2.47 | 0.32 | 5.85 | 1.53 | 16. | <2. |
| 5417 | 2. | 69. | 12. | 75. | 0.5 | 146. | 733. | 438. | <0.5 | <5. | 97. | 4.10 | 0.087 | 2.47 | 0.33 | 5.97 | 1.55 | 16. | <2. |
| 5418 | 2. | 37. | 7. | 46. | <0.4 | 57. | 500. | 250. | <0.5 | <5. | 64. | 5.59 | 0.074 | 1.89 | 0.18 | 4.55 | 1.74 | 12. | <2. |
| 5419 | 2. | 22. | 7. | 19. | <0.4 | 29. | 513. | 255. | <0.5 | <5. | 34. | 11.69 | 0.052 | 2.57 | 0.11 | 2.84 | 1.36 | 11. | <2. |

# Activation Laboratories Ltd. Work Order: 9739 Report: 9700B

| Sample description | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | MN PPM | SR PPM | CD PPM | BI PPM | V PPM | CA % | P % | MG % | TI % | AL % | K % | Y PPM | BE PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5420 | 2. | 27. | 5. | 26. | <0.4 | 38. | 534. | 273. | <0.5 | <5. | 49. | 10.41 | 0.059 | 2.60 | 0.15 | 3.33 | 1.47 | 12. | <2. |
| 5421 | 2. | 20. | 7. | 23. | <0.4 | 26. | 542. | 241. | <0.5 | <5. | 35. | 12.12 | 0.045 | 3.21 | 0.11 | 2.82 | 1.55 | 10. | <2. |
| 5422 | 2. | 27. | 7. | 28. | <0.4 | 38. | 468. | 288. | <0.5 | <5. | 50. | 7.34 | 0.060 | 1.92 | 0.18 | 4.17 | 1.62 | 12. | <2. |
| 5423 | 2. | 31. | 7. | 32. | <0.4 | 41. | 492. | 294. | <0.5 | <5. | 62. | 6.33 | 0.066 | 1.82 | 0.21 | 4.40 | 1.62 | 13. | <2. |
| 5424 | 2. | 30. | 6. | 28. | <0.4 | 45. | 509. | 317. | <0.5 | <5. | 55. | 5.52 | 0.072 | 1.81 | 0.19 | 4.38 | 1.68 | 13. | <2. |
| 5425 | 2. | 57. | 11. | 74. | 0.4 | 335. | 773. | 330. | <0.5 | <5. | 104. | 4.00 | 0.073 | 4.22 | 0.31 | 5.08 | 1.16 | 13. | <2. |

ACTLABS

# ACTIVATION LABORATORIES LTD

Invoice No.: 9560
Work Order: 9651
Invoice Date: 12-FEB-96
Date Submitted: 27-DEC-95
Your Reference: 195
Account Number: 447

W.A HUBACHECK CONSULTANTS LTD
141 ADELAIDE ST WEST, SUITE 603
TORONTO, ONT
M5H 3L5

ATT:DAVE CHRISTIE/MR. RAY KNOWLES

## CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AU | 5. | PPB | AG | 5. | PPM | AS | 2. | PPM | BA | 200. | PPM |
| BR | 5. | PPM | CA | 1. | % | CO | 5. | PPM | CR | 10. | PPM |
| CS | 2. | PPM | FE | 0.02 | % | HF | 1. | PPM | HG | 5. | PPM |
| IR | 50. | PPB | MO | 20. | PPM | NA | 500. | PPM | NI | 200. | PPM |
| RB | 50. | PPM | SB | 0.2 | PPM | SC | 0.1 | PPM | SE | 20. | PPM |
| SR | 0.2 | % | TA | 1. | PPM | TH | 0.5 | PPM | U | 0.5 | PPM |
| W | 4. | PPM | ZN | 200. | PPM | LA | 1. | PPM | CE | 3. | PPM |
| ND | 10. | PPM | SM | 0.1 | PPM | EU | 0.2 | PPM | TB | 2. | PPM |
| YB | 0.2 | PPM | LU | 0.1 | PPM | | | | | | |

9560B - AQUA REGIA

(HEAVY MINERAL CONCENTRATE)

CERTIFIED BY :

per Sylvia Alvarez
DR. ERIC L. HOFFMAN

# Activation Laboratories Ltd. Work Order: 9651 Report: 9560

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA PPM | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SR % | TA PPM | TH PPM | U PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5367 | 1200 | <5 | 83 | <200 | <5 | 9 | 170 | 750 | 2 | 12.6 | 15 | <5 | <50 | <20 | 4430 | 230 | <50 | 0.8 | 46 | <20 | <0.2 | 4 | 8.7 | <0.6 |
| 5368 | 56 | <5 | 40 | 420 | <5 | 6 | 350 | 310 | 4 | 15.3 | 14 | <5 | <50 | <20 | 2770 | <200 | <50 | 0.9 | 55 | <20 | <0.2 | 3 | 8.5 | 4.1 |
| 5369 | 78 | <5 | 25 | 340 | <5 | 9 | 140 | 350 | <2 | 10.4 | 47 | <5 | <50 | <20 | 3400 | <200 | <50 | <0.2 | 48 | <20 | <0.2 | 6 | 21 | 7.3 |
| 5370 | 28 | <5 | 33 | <200 | <5 | 7 | 140 | 360 | <2 | 11.4 | 52 | <5 | <50 | <20 | 3780 | 430 | <50 | 0.6 | 43 | <20 | <0.2 | 6 | 24 | 9.6 |
| 5371 | 73 | <5 | 28 | <200 | <5 | 6 | 150 | 330 | <2 | 12.3 | 34 | <5 | <50 | <20 | 3820 | <200 | <50 | <0.2 | 42 | <20 | <0.2 | 4 | 16 | 7.6 |
| 5372 | 206 | <5 | 28 | <200 | <5 | 6 | 180 | 350 | <2 | 12.4 | 32 | <5 | <50 | <20 | 5480 | <200 | <50 | 0.4 | 37 | <20 | <0.2 | 4 | 13 | 5.0 |
| 5373 | <8 | <5 | 13 | <200 | <5 | 13 | 170 | 420 | <2 | 14.1 | 45 | <5 | <50 | <20 | 4930 | <200 | <50 | 1.3 | 68 | 22 | <0.2 | <1 | 16 | 4.0 |
| 5374 | 40 | <5 | 32 | <200 | <5 | 6 | 150 | 330 | <2 | 10.8 | 50 | <5 | <50 | <20 | 3640 | 440 | <50 | 0.7 | 40 | <20 | <0.2 | 5 | 21 | 7.1 |
| 5375 | 87 | <5 | 37 | <200 | <5 | 6 | 210 | 380 | <2 | 13.1 | 21 | <5 | <50 | <20 | 5280 | <200 | <50 | 0.6 | 33 | <20 | <0.2 | <1 | 12 | 4.8 |
| 5376 | 49 | <5 | 41 | <200 | <5 | 9 | 140 | 700 | <2 | 14.6 | 58 | <5 | <50 | <20 | 3370 | <200 | <50 | 1.2 | 41 | <20 | <0.2 | <1 | 19 | 6.8 |
| 5377 | 32 | <5 | 30 | <200 | <5 | 10 | 130 | 570 | 2 | 13.7 | 44 | <5 | <50 | <20 | 3560 | <200 | <50 | 1.0 | 37 | <20 | <0.2 | 14 | 15 | 3.5 |
| 5378 | 57 | <5 | 30 | <200 | <5 | 11 | 140 | 390 | 4 | 11.9 | 26 | <5 | <50 | <20 | 3500 | <200 | <50 | 0.8 | 60 | <20 | <0.2 | <1 | 11 | 4.6 |
| 5379 | 110 | <5 | 48 | <200 | <5 | 10 | 210 | 480 | <2 | 14.2 | 18 | <5 | <50 | <20 | 3900 | 450 | <50 | 1.6 | 47 | <20 | <0.2 | 4 | 8.2 | 4.1 |
| 5380 | 45 | <5 | 68 | <200 | <5 | 11 | 200 | 1000 | <2 | 12.7 | 42 | <5 | <50 | <20 | 4810 | <200 | <50 | 1.8 | 49 | <20 | <0.2 | 5 | 18 | 9.4 |
| 5381 | 101 | <5 | 110 | <200 | <5 | <3 | 330 | 1800 | <2 | 18.3 | 62 | <5 | <50 | <20 | 6430 | <200 | <50 | 2.3 | 55 | <20 | <0.2 | 6 | 30 | 9.1 |
| 5382 | 48 | <5 | 81 | 1200 | <5 | 8 | 200 | 940 | <2 | 11.7 | 41 | <5 | <50 | <20 | 4220 | 290 | <50 | 1.9 | 39 | <20 | <0.2 | 4 | 16 | 8.0 |
| 5383 | 66 | <5 | 95 | 6300 | <5 | 9 | 330 | 920 | <2 | 14.0 | 48 | <5 | <50 | <20 | 4410 | <200 | <50 | 2.5 | 48 | <20 | <0.2 | <1 | 13 | 4.5 |
| 5384 | 194 | <5 | 63 | <200 | <5 | 8 | 130 | 1100 | <2 | 12.0 | 52 | <5 | <50 | <20 | 4510 | 450 | <50 | 1.0 | 49 | <20 | <0.2 | 5 | 23 | 8.6 |
| 5385 | 107 | <5 | 240 | <200 | <5 | <2 | 750 | 1500 | 3 | 19.4 | 32 | <5 | <50 | <20 | 3820 | <200 | <50 | 3.0 | 38 | <20 | <0.2 | 5 | 30 | 9.5 |
| 5386 | 45 | <5 | 86 | <200 | <5 | <2 | 300 | 1200 | <2 | 17.2 | 100 | <5 | <50 | <20 | 5420 | 660 | <50 | 3.9 | 57 | <20 | <0.2 | 8 | 39 | 12 |
| 5387 | 84 | <5 | 120 | <200 | <5 | 7 | 180 | 1000 | <2 | 12.9 | 39 | <5 | <50 | <20 | 4750 | 440 | <50 | 4.8 | 39 | <20 | <0.2 | 6 | 21 | 5.9 |
| 5388 | 22 | <5 | 98 | 290 | <5 | 9 | 150 | 860 | <2 | 12.0 | 29 | <5 | <50 | <20 | 4360 | <200 | <50 | 3.4 | 42 | <20 | <0.2 | 4 | 17 | 7.2 |
| 5389 | <5 | <5 | 110 | <200 | <5 | 6 | 150 | 740 | <2 | 13.3 | 32 | <5 | <50 | <20 | 5960 | 370 | <50 | 2.8 | 53 | <20 | <0.2 | 6 | 19 | 7.4 |
| 5390 | 23 | <5 | 49 | 430 | <5 | 12 | 140 | 710 | <2 | 12.5 | 24 | <5 | <50 | <20 | 5280 | <200 | <50 | 2.9 | 49 | <20 | <0.2 | <1 | 16 | 8.1 |
| 5391 | 23 | <5 | 34 | <200 | <5 | 14 | 100 | 500 | <2 | 11.3 | 45 | <5 | <50 | <20 | 5730 | <200 | <50 | 1.0 | 57 | <20 | <0.2 | 8 | 19 | 8.7 |
| 5392 | 81 | <5 | 59 | <200 | <5 | 12 | 99 | 450 | <2 | 9.75 | 27 | <5 | <50 | <20 | 5170 | <200 | <50 | 0.7 | 56 | <20 | <0.2 | 5 | 15 | <0.8 |
| 5393 | 26 | <5 | 28 | <200 | <5 | 8 | 92 | 420 | <2 | 9.77 | 27 | <5 | <50 | <20 | 6290 | <200 | <50 | <0.2 | 49 | <20 | <0.2 | 5 | 17 | 6.1 |
| 5394 | <5 | <5 | 69 | <200 | <5 | 10 | 110 | 440 | <2 | 9.29 | 49 | <5 | <50 | <20 | 4850 | <200 | <50 | <0.2 | 48 | <20 | <0.2 | 5 | 19 | 6.8 |
| 5395 | <5 | <5 | 47 | <200 | <5 | 10 | 89 | 430 | <2 | 8.95 | 38 | <5 | <50 | <20 | 4780 | <200 | <50 | <0.2 | 46 | <20 | <0.2 | 6 | 17 | 7.5 |
| 5396 | <5 | <5 | 16 | <200 | <5 | 9 | 71 | 430 | <2 | 9.15 | 27 | <5 | <50 | <20 | 5450 | <200 | <50 | <0.2 | 50 | <20 | <0.2 | 4 | 15 | 7.5 |
| 5397 | <5 | <5 | 22 | 330 | <5 | 7 | 75 | 440 | <2 | 9.52 | 38 | <5 | <50 | <20 | 6230 | <200 | <50 | <0.2 | 52 | <20 | <0.2 | 5 | 19 | 8.0 |
| 5398 | <5 | <5 | 21 | <200 | <5 | 7 | 81 | 440 | <2 | 8.69 | 41 | <5 | <50 | <20 | 4900 | <200 | <50 | 0.7 | 47 | <20 | <0.2 | 7 | 18 | 7.6 |
| 5399 | <5 | <5 | 9 | <200 | <5 | 10 | 49 | 410 | <2 | 7.68 | 34 | <5 | <50 | <20 | 5130 | <200 | <50 | 0.7 | 47 | <20 | <0.2 | 4 | 14 | 6.8 |
| 5400 | 134 | <5 | 26 | 450 | <5 | 10 | 83 | 480 | <2 | 9.56 | 35 | <5 | <50 | <20 | 5050 | <200 | <50 | <0.2 | 52 | <20 | <0.2 | 8 | 18 | 5.5 |
| 5401 | 33 | <5 | 10 | <200 | <5 | 11 | 56 | 460 | <2 | 8.59 | 24 | <5 | <50 | <20 | 5680 | <200 | <50 | <0.2 | 52 | <20 | <0.2 | 3 | 12 | <0.8 |
| 5402 | 28 | <5 | 25 | <200 | <5 | 7 | 71 | 470 | 5 | 9.24 | 70 | <5 | <50 | <20 | 4950 | <200 | <50 | 0.6 | 50 | <20 | <0.2 | 9 | 25 | 9.6 |
| 5403 | 9 | <5 | 42 | <200 | <5 | 8 | 83 | 450 | <2 | 9.11 | 50 | <5 | <50 | <20 | 5430 | <200 | <50 | <0.2 | 49 | <20 | <0.2 | 5 | 22 | 9.7 |
| 5404 | 15 | <5 | 32 | <200 | <5 | 8 | 81 | 430 | <2 | 9.32 | 53 | <5 | <50 | <20 | 5524 | <200 | <50 | <0.2 | 47 | <20 | <0.2 | 6 | 20 | 8.9 |
| 5407 | 45 | <5 | 51 | <200 | <5 | 6 | 96 | 650 | <2 | 11.4 | 100 | <5 | <50 | <20 | 4080 | <200 | <50 | 0.9 | 53 | <20 | <0.2 | 4 | 41 | 13 |
| 5408 | 33 | <5 | 170 | <200 | <5 | 8 | 190 | 840 | <2 | 10.4 | 38 | <5 | <50 | <20 | 3520 | 720 | <50 | 1.6 | 45 | <20 | <0.2 | 4 | 17 | 6.6 |
| 5409 | 89 | <5 | 270 | <200 | <5 | 8 | 270 | 1100 | <2 | 12.7 | 25 | <5 | <50 | <20 | 3720 | 390 | <50 | 1.9 | 49 | <20 | <0.2 | 3 | 12 | 5.0 |
| 5410 | 102 | <5 | 270 | <200 | <5 | 7 | 270 | 1170 | <2 | 13.9 | 25 | <5 | <50 | <20 | 3860 | 500 | <50 | 2.1 | 53 | <20 | <0.2 | 5 | 14 | <0.7 |
| 5411 | 59 | <5 | 340 | <200 | <5 | 9 | 280 | 1200 | <2 | 12.2 | 27 | <5 | <50 | <20 | 3420 | 820 | <50 | 2.6 | 46 | <20 | <0.2 | 3 | 12 | 5.1 |
| 5412 | 27 | <5 | 280 | <200 | <5 | 5 | 240 | 1000 | <2 | 11.2 | 22 | <5 | <50 | <20 | 3460 | 700 | <50 | 2.0 | 46 | <20 | <0.2 | 5 | 9.3 | 5.6 |
| 5413 | 38 | <5 | 170 | 1200 | <5 | 8 | 230 | 1200 | <2 | 12.7 | 27 | <5 | <50 | <20 | 3800 | <200 | <50 | 2.2 | 52 | <20 | <0.2 | 4 | 12 | <0.7 |

# Activation Laboratories Ltd. Work Order: 9651 Report: 9560

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA PPM | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SR % | TA PPM | TH PPM | U PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5414 | 29 | <5 | 120 | 730 | <5 | 8 | 180 | 980 | <2 | 12.3 | 20 | <5 | <50 | <20 | 4000 | <200 | <50 | 1.8 | 50 | <20 | <0.2 | 4 | 10 | <0.7 |
| 5415 | 35 | <5 | 83 | 740 | <5 | 9 | 180 | 1000 | <2 | 11.8 | 25 | <5 | <50 | <20 | 3690 | <200 | <50 | 1.5 | 50 | <20 | <0.2 | 3 | 12 | 6.4 |
| 5416 | 30 | <5 | 83 | <200 | <5 | 6 | 180 | 1000 | <2 | 12.2 | 27 | <5 | <50 | <20 | 3570 | <200 | <50 | 1.6 | 48 | <20 | <0.2 | 3 | 10 | 4.9 |
| 5417 | 23 | <5 | 63 | 680 | <5 | 7 | 160 | 880 | <2 | 12.3 | 22 | <5 | <50 | <20 | 4120 | <200 | <50 | 1.2 | 47 | <20 | <0.2 | 4 | 8.9 | <0.7 |
| 5418 | 78 | <5 | 26 | <200 | <5 | <2 | 170 | 180 | <2 | 30.7 | 32 | <5 | <50 | <20 | 920 | 430 | <50 | 1.1 | 7.0 | <20 | <0.2 | 2 | 5.6 | 3.3 |
| 5419 | <5 | <5 | 65 | 460 | <5 | 8 | 160 | 1200 | <2 | 20.1 | 120 | <5 | <50 | <20 | 2690 | <200 | <50 | 1.7 | 35 | <20 | <0.2 | 7 | 24 | 13 |
| 5420 | 31 | <6 | 84 | <200 | <5 | <4 | 210 | 2000 | <2 | 30.9 | 180 | <5 | <50 | <20 | 3050 | <200 | <50 | 3.2 | 50 | <20 | 0.2 | 13 | 41 | 14 |
| 5421 | 199 | <6 | 140 | <200 | <5 | <5 | 180 | 1600 | <2 | 40.6 | 200 | <5 | <50 | <20 | 2160 | <200 | 130 | 3.5 | 36 | <20 | <0.2 | 25 | 45 | 21 |
| 5422 | 31 | <5 | 77 | <200 | <5 | 9 | 200 | 1300 | <2 | 27.3 | 90 | <5 | <50 | <20 | 2530 | <200 | <50 | 1.7 | 39 | <20 | <0.2 | 4 | 22 | 8.3 |
| 5423 | 72 | <5 | 47 | <200 | <5 | 8 | 180 | 540 | <2 | 18.7 | 63 | <5 | <50 | <20 | 2590 | <200 | <50 | 1.4 | 36 | <20 | <0.2 | 2 | 13 | <0.8 |
| 5424 | 54 | <5 | 50 | <200 | <5 | 5 | 140 | 1200 | <2 | 16.0 | 90 | <5 | <50 | <20 | 2840 | <200 | <50 | 1.3 | 41 | <20 | <0.2 | 4 | 24 | 12 |
| 5425 | 40 | <5 | 240 | <200 | <5 | 9 | 760 | 2800 | <2 | 15.5 | 44 | <5 | <50 | <20 | 3480 | 1300 | <50 | <0.2 | 55 | <20 | <0.2 | <1 | 12 | <1.2 |

# Activation Laboratories Ltd. Work Order: 9651 Report: 9560

| Sample description | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5367 | 16 | 546 | 64 | 150 | 85 | 13 | 4.5 | <2 | 7.9 | 1.5 | 60.00 |
| 5368 | <4 | 225 | 56 | 120 | 45 | 11 | 4.0 | <2 | 8.0 | 1.4 | 60.00 |
| 5369 | <4 | 385 | 120 | 230 | 110 | 19 | 5.8 | 3 | 13.1 | 2.5 | 60.00 |
| 5370 | <4 | <200 | 140 | 290 | 120 | 22 | 6.4 | <2 | 11.8 | 2.3 | 49.20 |
| 5371 | 13 | <200 | 100 | 210 | 100 | 17 | 5.3 | 2 | 9.9 | 1.9 | 60.00 |
| 5372 | <4 | <200 | 93 | 190 | 72 | 15 | 4.7 | <2 | 9.1 | 1.5 | 60.00 |
| 5373 | <4 | <200 | 140 | 300 | 180 | 30 | 8.5 | <2 | 15.2 | 2.2 | 6.000 |
| 5374 | <4 | 291 | 120 | 240 | 110 | 19 | 5.8 | <2 | 11.6 | 2.2 | 60.00 |
| 5375 | <4 | 253 | 80 | 180 | 72 | 14 | 4.4 | <2 | 7.6 | 0.9 | 43.60 |
| 5376 | <4 | 259 | 91 | 190 | 85 | 15 | 4.9 | 3 | 9.1 | 1.0 | 53.00 |
| 5377 | 180 | 246 | 70 | 150 | 61 | 12 | 4.0 | <2 | 8.6 | 1.5 | 55.70 |
| 5378 | <4 | 348 | 66 | 150 | 57 | 13 | 4.5 | 3 | 8.6 | 1.5 | 42.20 |
| 5379 | <4 | 484 | 68 | 160 | 63 | 14 | 4.9 | 2 | 9.0 | 1.6 | 55.00 |
| 5380 | 12 | 307 | 120 | 270 | 110 | 23 | 7.3 | <2 | 11.2 | 2.0 | 60.00 |
| 5381 | <4 | 526 | 170 | 400 | 180 | 34 | 10.4 | <2 | 14.4 | 3.0 | 20.80 |
| 5382 | <4 | 403 | 120 | 260 | 110 | 21 | 6.8 | <2 | 9.3 | 1.9 | 60.00 |
| 5383 | <4 | 260 | 130 | 250 | 120 | 25 | 7.4 | 2 | 10.5 | 1.4 | 12.50 |
| 5384 | <4 | 404 | 120 | 260 | 120 | 22 | 6.7 | 3 | 11.2 | 2.1 | 60.00 |
| 5385 | <4 | 520 | 120 | 260 | 130 | 28 | 7.1 | <2 | 10.4 | 1.3 | 10.00 |
| 5386 | <4 | 625 | 190 | 390 | 160 | 30 | 8.9 | 4 | 15.8 | 2.8 | 33.20 |
| 5387 | <4 | 1060 | 120 | 260 | 120 | 21 | 5.7 | 3 | 9.4 | 1.6 | 60.00 |
| 5388 | <4 | 1290 | 130 | 270 | 130 | 23 | 6.6 | 2 | 9.9 | 1.7 | 60.00 |
| 5389 | <4 | 1070 | 140 | 290 | 130 | 25 | 7.2 | 3 | 10.4 | 1.8 | 48.60 |
| 5390 | <4 | 621 | 130 | 270 | 120 | 23 | 7.4 | 4 | 9.4 | 1.5 | 60.00 |
| 5391 | <4 | 230 | 200 | 420 | 180 | 33 | 9.8 | 4 | 12.1 | 2.2 | 60.00 |
| 5392 | <4 | <200 | 110 | 230 | 110 | 21 | 6.3 | 3 | 9.4 | 1.5 | 60.00 |
| 5393 | <4 | 227 | 100 | 210 | 120 | 19 | 5.9 | 4 | 9.9 | 1.5 | 60.00 |
| 5394 | <4 | 273 | 140 | 300 | 140 | 26 | 8.4 | 4 | 11.7 | 2.2 | 60.00 |
| 5395 | <4 | 270 | 120 | 240 | 120 | 23 | 7.4 | 4 | 10.7 | 2.0 | 60.00 |
| 5396 | <4 | 260 | 110 | 230 | 100 | 21 | 6.7 | 3 | 9.5 | 1.8 | 60.00 |
| 5397 | <4 | 286 | 120 | 250 | 120 | 23 | 7.3 | 4 | 10.3 | 2.0 | 60.00 |
| 5398 | <4 | 296 | 110 | 240 | 94 | 23 | 7.0 | 4 | 11.6 | 1.9 | 60.00 |
| 5399 | <4 | <200 | 110 | 230 | 110 | 21 | 7.0 | 3 | 9.6 | 1.6 | 60.00 |
| 5400 | 13 | 243 | 140 | 300 | 140 | 26 | 8.9 | 5 | 12.3 | 2.1 | 60.00 |
| 5401 | <4 | 252 | 110 | 240 | 110 | 21 | 6.9 | 2 | 9.5 | 1.6 | 60.00 |
| 5402 | <4 | 238 | 160 | 350 | 150 | 30 | 10.0 | 5 | 14.0 | 2.9 | 60.00 |
| 5403 | <4 | 270 | 140 | 320 | 150 | 27 | 9.2 | 4 | 11.4 | 1.2 | 60.00 |
| 5404 | <4 | <200 | 140 | 300 | 130 | 27 | 9.0 | 4 | 13.2 | 2.3 | 60.00 |
| 5407 | <4 | 394 | 170 | 330 | 150 | 24 | 6.9 | <2 | 14.1 | 3.1 | 60.00 |
| 5408 | <4 | 718 | 98 | 210 | 95 | 18 | 5.4 | <2 | 9.7 | 1.6 | 60.00 |
| 5409 | 8 | 975 | 90 | 210 | 98 | 18 | 5.6 | <2 | 10.2 | 1.8 | 60.00 |
| 5410 | <4 | 1050 | 93 | 220 | 92 | 20 | 6.0 | 2 | 10.2 | 1.8 | 48.70 |
| 5411 | <4 | 1020 | 85 | 200 | 87 | 18 | 5.7 | 3 | 10.3 | 1.6 | 60.00 |
| 5412 | <4 | 874 | 81 | 180 | 94 | 17 | 5.5 | <2 | 8.7 | 1.6 | 60.00 |
| 5413 | <4 | 701 | 98 | 220 | 110 | 19 | 6.4 | 2 | 9.2 | 1.7 | 60.00 |

# Activation Laboratories Ltd. Work Order: 9651 Report: 9560

| Sample description | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5414 | <4 | 498 | 92 | 220 | 110 | 18 | 6.3 | <2 | 8.9 | 1.5 | 60.00 |
| 5415 | <4 | 499 | 100 | 220 | 100 | 20 | 6.7 | 2 | 9.7 | 1.9 | 60.00 |
| 5416 | <4 | 451 | 94 | 210 | 96 | 19 | 6.3 | 3 | 9.3 | 1.7 | 60.00 |
| 5417 | <4 | 379 | 89 | 210 | 99 | 18 | 5.7 | 2 | 8.1 | 1.5 | 60.00 |
| 5418 | <4 | <200 | 38 | 71 | 28 | 4.1 | 1.9 | <2 | 2.8 | 0.6 | 60.00 |
| 5419 | <4 | 337 | 96 | 220 | 93 | 17 | 5.5 | 3 | 13.8 | 2.6 | 32.80 |
| 5420 | <5 | 614 | 140 | 380 | 150 | 29 | 8.6 | <2 | 20.9 | 4.4 | 8.100 |
| 5421 | <6 | 552 | 120 | 340 | 200 | 25 | 9.0 | <2 | 26.2 | 5.0 | 6.100 |
| 5422 | <4 | 226 | 94 | 250 | 110 | 20 | 6.1 | 3 | 13.1 | 2.3 | 20.60 |
| 5423 | <4 | <200 | 65 | 150 | 73 | 13 | 4.4 | 3 | 10.3 | 1.9 | 48.90 |
| 5424 | <4 | 244 | 110 | 230 | 100 | 17 | 5.6 | 4 | 13.7 | 2.3 | 60.00 |
| 5425 | <4 | 1430 | 78 | 190 | 99 | 20 | 8.7 | 4 | 17.7 | 3.0 | 32.80 |

# Activation Laboratories Ltd. Work Order No. 9651 Report No. 9560B

| SAMPLE | Ag | Cu | Ni | Zn | Cd | Mn | Pb |
|---|---|---|---|---|---|---|---|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 5367 | 1.4 | 850 | 165 | 344 | 3.0 | 322 | 76 |
| 5368 | 1.0 | 1090 | 142 | 99 | 0.9 | 343 | 20 |
| 5369 | 1.1 | 591 | 261 | 234 | 2.1 | 336 | 44 |
| 5370 | 1.8 | 769 | 218 | 170 | 1.0 | 783 | 32 |
| 5371 | 1.0 | 738 | 148 | 126 | 1.0 | 330 | 31 |
| 5372 | 1.0 | 716 | 158 | 103 | 0.9 | 368 | 20 |
| 5373 | 1.4 | 345 | 66 | 36 | -0.5 | 553 | 3 |
| 5374 | 1.2 | 590 | 261 | 187 | 1.6 | 507 | 46 |
| 5375 | 1.1 | 745 | 97 | 81 | 0.7 | 419 | 16 |
| 5376 | 1.5 | 732 | 101 | 102 | 1.1 | 459 | 32 |
| 5377 | 1.1 | 893 | 92 | 203 | 0.5 | 451 | 30 |
| 5378 | 2.5 | 858 | 123 | 156 | 0.7 | 709 | 18 |
| 5379 | 1.5 | 1500 | 131 | 292 | 1.8 | 365 | 127 |
| 5380 | 1.2 | 690 | 154 | 248 | 2.1 | 335 | 41 |
| 5381 | 1.4 | 691 | 202 | 169 | 1.8 | 406 | 31 |
| 5382 | 1.6 | 831 | 182 | 220 | 2.2 | 440 | 37 |
| 5383 | 1.2 | 739 | 167 | 139 | 1.7 | 398 | 24 |
| 5384 | 1.2 | 486 | 181 | 239 | 1.9 | 495 | 56 |
| 5385 | 3.0 | 1730 | 236 | 385 | 3.1 | 420 | 167 |
| 5386 | 1.9 | 595 | 352 | 276 | 2.4 | 685 | 142 |
| 5387 | 1.9 | 548 | 200 | 1120 | 7.6 | 350 | 160 |
| 5388 | 1.8 | 603 | 176 | 1190 | 7.5 | 410 | 190 |
| 5389 | 1.6 | 325 | 136 | 734 | 4.4 | 415 | 97 |
| 5390 | 2.0 | 579 | 200 | 531 | 3.8 | 654 | 141 |
| 5391 | 0.8 | 314 | 132 | 121 | 1.0 | 285 | 28 |
| 5392 | 0.8 | 243 | 140 | 124 | 1.6 | 319 | 30 |
| 5393 | 0.7 | 209 | 117 | 105 | 1.0 | 298 | 27 |
| 5394 | 0.8 | 176 | 170 | 116 | 1.4 | 467 | 20 |
| 5395 | 0.6 | 178 | 109 | 154 | 1.2 | 363 | 33 |
| 5396 | 0.7 | 148 | 96 | 138 | 1.2 | 457 | 30 |
| 5397 | 0.7 | 120 | 90 | 100 | 0.9 | 404 | 21 |
| 5398 | 0.9 | 145 | 127 | 105 | 1.1 | 630 | 19 |
| 5399 | 0.6 | 81 | 72 | 74 | 0.6 | 442 | 13 |
| 5400 | 0.7 | 153 | 77 | 98 | 0.6 | 303 | 17 |
| 5401 | 0.3 | 81 | 55 | 66 | 0.5 | 207 | 12 |
| 5402 | 0.6 | 130 | 83 | 112 | 0.8 | 409 | 12 |
| 5403 | 0.6 | 128 | 100 | 127 | 1.0 | 333 | 54 |
| 5404 | 1.0 | 135 | 102 | 134 | 0.7 | 409 | 23 |
| 5407 | 0.9 | 399 | 270 | 239 | 1.7 | 328 | 60 |
| 5408 | 2.0 | 700 | 381 | 565 | 4.3 | 571 | 64 |
| 5409 | 1.8 | 1030 | 526 | 841 | 6.9 | 302 | 98 |
| 5410 | 3.1 | 872 | 496 | 752 | 5.8 | 909 | 90 |
| 5411 | 1.9 | 910 | 584 | 857 | 7.1 | 396 | 86 |
| 5412 | 1.8 | 898 | 509 | 793 | 7.0 | 440 | 69 |
| 5413 | 1.5 | 890 | 292 | 418 | 3.8 | 299 | 48 |

Negative values indicate less than the detection limit

| SAMPLE | Ag | Cu | Ni | Zn | Cd | Mn | Pb |
|---|---|---|---|---|---|---|---|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 5414 | 1.6 | 852 | 291 | 363 | 2.7 | 418 | 48 |
| 5415 | 1.1 | 725 | 205 | 289 | 2.1 | 224 | 37 |
| 5416 | 1.3 | 668 | 206 | 307 | 2.7 | 334 | 31 |
| 5417 | 1.2 | 639 | 174 | 251 | 1.9 | 322 | 31 |
| 5418 | 3.8 | 510 | 134 | 86 | -0.5 | 161 | 60 |
| 5419 | 1.2 | 608 | 257 | 149 | 0.6 | 518 | 57 |
| 5420 | 1.4 | 548 | 122 | 145 | 0.8 | 579 | 61 |
| 5421 | 0.9 | 576 | 130 | 153 | -0.5 | 472 | 100 |
| 5422 | 1.6 | 703 | 119 | 92 | -0.5 | 634 | 54 |
| 5423 | 2.0 | 806 | 100 | 95 | -0.5 | 389 | 44 |
| 5424 | 1.8 | 825 | 147 | 139 | 0.7 | 581 | 33 |
| 5425 | 2.5 | 1130 | 751 | 881 | 5.0 | 710 | 190 |

Negative values indicate less than the detection limit

ACTLABS

# ACTIVATION LABORATORIES LTD

Invoice No.: 10542
Work Order: 10625
Invoice Date: 14-JUN-96
Date Submitted: 21-MAY-96
Your Reference: PROJ#195 winter 96.
Account Number: 445

W.A HUBACHECK CONSULTANTS LTD
141 ADELAIDE ST WEST, SUITE 1401
TORONTO, ONT
M5H 3L5

ATT:DAVE CHRISTIE

## CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AU | 2. | PPB | AG | 5. | PPM | AS | 0.5 | PPM | BA | 50. | PPM |
| BR | 0.5 | PPM | CA | 1. | % | CO | 1. | PPM | CR | 5. | PPM |
| CS | 1. | PPM | FE | 0.01 | % | HF | 1. | PPM | HG | 1. | PPM |
| IR | 5. | PPB | MO | 1. | PPM | NA | 0.01 | % | NI | 20. | PPM |
| RB | 15. | PPM | SB | 0.1 | PPM | SC | 0.1 | PPM | SE | 3. | PPM |
| SN | 0.01 | % | SR | 0.05 | % | TA | 0.5 | PPM | TH | 0.2 | PPM |
| U | 0.5 | PPM | W | 1. | PPM | ZN | 50. | PPM | LA | 0.5 | PPM |
| CE | 3. | PPM | ND | 5. | PPM | SM | 0.1 | PPM | EU | 0.2 | PPM |
| TB | 0.5 | PPM | YB | 0.2 | PPM | LU | 0.05 | PPM | | | |

10542B - TOTAL DIGESTION - ICP
(CLAY/SILT FRACTION)

CERTIFIED BY :

per Judy Young
DR. ERIC L. HOFFMAN

# Activation Laboratories Ltd. Work Order: 10625 Report: 10542

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA % | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SN % | SR % | TA PPM | TH PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5613 | <2 | <5 | 2.3 | 620 | <0.5 | 5 | 22 | 260 | 2 | 3.72 | 8 | <1 | <5 | <1 | 2.92 | <38 | 61 | <0.1 | 15 | <3 | <0.01 | <0.05 | <0.5 | 5.9 |
| 195-5614 | <2 | <5 | 6.2 | 570 | <0.5 | 4 | 32 | 380 | <1 | 4.60 | 7 | <1 | <5 | <1 | 2.25 | <37 | 45 | <0.1 | 22 | <3 | <0.01 | <0.05 | <0.5 | 4.2 |
| 195-5615 | 7 | <5 | 3.3 | 440 | 0.7 | 5 | 29 | 350 | <1 | 4.48 | 7 | <1 | <5 | <1 | 2.29 | 200 | <15 | 0.3 | 18 | <3 | <0.01 | <0.05 | <0.5 | 5.1 |
| 195-5616 | 2 | <5 | 8.9 | 500 | <0.5 | 6 | 46 | 460 | <1 | 7.02 | 10 | <1 | <5 | <2 | 2.37 | <70 | 91 | 0.4 | 28 | <3 | <0.03 | <0.05 | <0.6 | 8.7 |
| 195-5617 | 3 | <5 | 2.4 | 780 | <0.5 | 8 | 82 | 290 | <1 | 9.23 | 7 | <1 | <5 | <2 | 2.10 | <73 | <15 | <0.1 | 39 | <3 | <0.03 | <0.05 | <0.6 | 3.9 |
| 195-5618 | <2 | <5 | 5.1 | 520 | <0.5 | 4 | 22 | 290 | 2 | 3.57 | 6 | <1 | <5 | <1 | 2.54 | 150 | <15 | 0.3 | 16 | <3 | <0.01 | <0.05 | <0.5 | 4.1 |
| 195-5619 | 2 | <5 | 4.0 | 610 | <0.5 | 3 | 25 | 340 | <1 | 4.53 | 12 | <1 | <5 | <1 | 2.76 | <63 | 89 | 0.9 | 16 | <3 | <0.02 | <0.05 | <0.6 | 7.6 |
| 195-5620 | 2 | <5 | 3.6 | 650 | <0.5 | 7 | 25 | 270 | 2 | 4.22 | 11 | <1 | <5 | <2 | 2.91 | <64 | 82 | 0.6 | 15 | <3 | <0.02 | <0.05 | 3.1 | 7.7 |
| 195-5621 | 7 | <5 | 2.1 | 620 | 1.4 | 4 | 18 | 200 | 2 | 3.38 | 8 | <1 | <5 | <1 | 2.68 | 160 | 62 | 0.3 | 12 | <3 | <0.01 | <0.05 | 1.8 | 7.1 |
| 195-5622 | 8 | <5 | 4.2 | 1100 | <0.5 | 6 | 27 | 290 | <1 | 5.03 | 10 | <1 | <5 | <1 | 3.10 | <67 | <15 | 0.6 | 20 | <3 | <0.02 | <0.05 | <0.7 | 8.8 |
| 195-5623 | 104 | <5 | 3.4 | 810 | 2.2 | 4 | 26 | 290 | <1 | 4.75 | 11 | <1 | <5 | 10 | 3.25 | <69 | 95 | 0.6 | 18 | <3 | <0.03 | <0.05 | <0.7 | 7.3 |
| 195-5624 | 19 | <5 | 4.3 | 1100 | <0.5 | 5 | 25 | 330 | 3 | 4.52 | 11 | <1 | <5 | <1 | 3.44 | <60 | <15 | 0.6 | 17 | <3 | <0.02 | 0.16 | 2.6 | 8.7 |
| 195-5625 | 18 | <5 | 4.8 | 820 | <0.5 | 7 | 29 | 270 | 3 | 5.26 | 9 | <1 | <5 | <1 | 3.22 | <59 | 67 | 0.8 | 23 | <3 | <0.02 | 0.19 | 2.6 | 5.8 |
| 195-5626 | 12 | <5 | 8.6 | 850 | <0.5 | 4 | 38 | 530 | 2 | 5.81 | 9 | <1 | <5 | <2 | 2.49 | 230 | 73 | 0.7 | 23 | <3 | <0.02 | <0.05 | 3.0 | 6.6 |
| 195-5627 | <2 | <5 | 3.6 | 570 | <0.5 | 5 | 30 | 260 | <1 | 4.82 | 6 | <1 | <5 | <1 | 2.16 | 250 | <15 | 0.3 | 22 | <3 | <0.01 | <0.05 | <0.5 | 3.7 |
| 195-5628 | 12 | <5 | 1.6 | 300 | <0.5 | 6 | 28 | 180 | 1 | 5.35 | 5 | <1 | <5 | <1 | 1.77 | 140 | 41 | 0.3 | 19 | <3 | <0.01 | <0.05 | <0.5 | 3.3 |
| 195-5629 | 26 | <5 | 10 | 570 | <0.5 | 5 | 45 | 480 | <1 | 7.00 | 9 | <1 | <5 | <2 | 2.43 | <57 | 59 | 0.8 | 25 | <3 | <0.02 | <0.05 | <0.5 | 6.3 |
| 195-5630 | 8 | <5 | 2.3 | 400 | <0.5 | 5 | 20 | 180 | 2 | 4.00 | 6 | <1 | <5 | <1 | 2.17 | <29 | <15 | <0.1 | 17 | <3 | <0.01 | <0.05 | <0.5 | 4.8 |
| 195-5631 | 7 | <5 | 1.9 | 510 | <0.5 | 4 | 17 | 160 | 2 | 3.71 | 6 | <1 | <5 | <1 | 2.27 | 130 | <15 | <0.1 | 15 | <3 | <0.01 | <0.05 | <0.5 | 4.3 |
| 195-5632 | 9 | <5 | 3.3 | 380 | <0.5 | 9 | 40 | 190 | <1 | 5.43 | 2 | <1 | <5 | <1 | 1.35 | <27 | <15 | 0.3 | 19 | <3 | <0.01 | <0.05 | <0.5 | 2.6 |
| 195-5633 | 25 | <5 | 2.6 | 880 | <0.5 | 6 | 29 | 330 | 3 | 5.50 | 7 | <1 | <5 | <2 | 3.18 | <59 | 65 | 0.9 | 22 | <3 | <0.02 | <0.05 | <0.6 | 6.6 |
| 195-5634 | 7 | <5 | 2.1 | 540 | <0.5 | 6 | 22 | 220 | 2 | 4.50 | 5 | <1 | <5 | <1 | 2.24 | <30 | 53 | 0.4 | 18 | <3 | <0.01 | <0.05 | <0.5 | 4.7 |
| 195-5635 | <2 | <5 | 4.4 | 580 | <0.5 | 6 | 36 | 290 | 2 | 6.61 | 6 | <1 | <5 | <2 | 2.35 | <52 | <15 | 0.7 | 26 | <3 | <0.02 | <0.05 | <0.5 | 4.9 |
| 195-5636 | 19 | <5 | 4.9 | 470 | <0.5 | 6 | 35 | 300 | 2 | 6.28 | 7 | <1 | <5 | <1 | 2.72 | <53 | 54 | 0.7 | 27 | <3 | <0.02 | <0.05 | 1.3 | 5.9 |
| 195-5637 | 10 | <5 | 2.9 | 390 | <0.5 | 4 | 31 | 430 | 2 | 5.24 | 4 | <1 | <5 | <1 | 1.92 | <27 | 42 | 0.3 | 23 | <3 | <0.01 | <0.05 | <0.5 | 3.1 |
| 195-5638 | <2 | <5 | 1.3 | 400 | <0.5 | 5 | 20 | 180 | 1 | 3.99 | 6 | <1 | <5 | 1 | 2.43 | <27 | <15 | 0.3 | 18 | <3 | <0.01 | <0.05 | <0.5 | 4.1 |
| 195-5639 | 7 | <5 | 1.7 | 390 | <0.5 | 4 | 25 | 210 | 2 | 4.84 | 5 | <1 | <5 | 2 | 2.35 | <28 | 42 | 0.2 | 19 | <3 | <0.01 | <0.05 | <0.5 | 4.4 |
| 195-5640 | <3 | <5 | 4.6 | 590 | <0.5 | 6 | 35 | 280 | 3 | 6.36 | 7 | <1 | <5 | <1 | 2.77 | <53 | <15 | 0.6 | 28 | <3 | <0.02 | <0.05 | <0.5 | 4.9 |
| 195-5641 | <2 | <5 | 3.1 | 480 | <0.5 | 5 | 32 | 340 | 2 | 4.26 | 5 | <1 | <5 | <1 | 2.25 | 130 | 49 | 0.3 | 17 | <3 | <0.01 | <0.05 | <0.5 | 4.2 |
| 195-5642 | <2 | <5 | 1.6 | 560 | <0.5 | 4 | 77 | 290 | 1 | 4.99 | 4 | <1 | <5 | 5 | 2.12 | <28 | 44 | 0.3 | 19 | <3 | <0.01 | <0.05 | <0.5 | 2.9 |
| 195-5643 | <2 | <5 | 1.8 | 290 | <0.5 | 5 | 35 | 210 | <1 | 6.44 | 4 | <1 | <5 | <1 | 1.97 | <29 | 44 | 0.3 | 27 | <3 | <0.01 | <0.05 | <0.5 | 3.4 |
| 195-5644 | 8 | <5 | <0.5 | 290 | <0.5 | 5 | 31 | 190 | 1 | 6.00 | 4 | <1 | <5 | <1 | 2.03 | 130 | <15 | <0.1 | 26 | <3 | <0.01 | <0.05 | <0.5 | 3.1 |
| 195-5645 | <2 | <5 | 2.9 | 500 | <0.5 | 4 | 17 | 240 | <1 | 3.53 | 7 | <1 | <5 | 5 | 2.28 | 150 | <15 | 0.3 | 14 | <3 | <0.01 | <0.05 | 1.2 | 4.4 |
| 195-5646 | 13 | <5 | 2.1 | 630 | <0.5 | 7 | 26 | 250 | 3 | 5.21 | 10 | <1 | <5 | <1 | 2.70 | <48 | <15 | 0.9 | 20 | <3 | <0.02 | 0.14 | <0.5 | 6.8 |
| 195-5647 | 24 | <5 | 1.7 | 460 | <0.5 | 5 | 41 | 440 | 3 | 8.71 | 5 | <1 | <5 | <1 | 1.41 | <48 | 68 | 0.7 | 32 | <3 | <0.02 | <0.05 | <0.5 | 4.1 |
| 195-5648 | 10 | <5 | 1.9 | 650 | <0.5 | 4 | 21 | 200 | 2 | 4.24 | 6 | <1 | <5 | <1 | 2.54 | 170 | 37 | <0.1 | 19 | <3 | <0.01 | <0.05 | <0.5 | 4.1 |
| 195-5649 | 9 | <5 | 1.5 | 510 | <0.5 | 4 | 19 | 170 | 3 | 3.92 | 6 | <1 | <5 | 1 | 2.40 | 210 | 46 | 0.3 | 18 | <3 | <0.01 | <0.05 | <0.5 | 4.0 |
| 195-5650 | 10 | <5 | 3.1 | 600 | <0.5 | 5 | 19 | 250 | <1 | 3.93 | 8 | <1 | <5 | <1 | 2.61 | <27 | 46 | 0.3 | 18 | <3 | <0.01 | 0.09 | <0.5 | 4.6 |
| 195-5651 | 4 | <5 | 2.4 | 510 | <0.5 | 5 | 22 | 220 | <1 | 4.10 | 6 | <1 | <5 | <1 | 2.48 | <27 | 48 | 0.3 | 20 | <3 | <0.01 | <0.05 | <0.5 | 3.9 |
| 195-5681 | 33 | <5 | 2.9 | 460 | 1.7 | 9 | 15 | 200 | 1 | 3.20 | 8 | <1 | <5 | 1 | 1.54 | <22 | 27 | 0.2 | 12 | <3 | <0.01 | <0.05 | <0.5 | 5.0 |
| 195-5682 | 4 | <5 | 2.0 | 620 | <0.5 | 7 | 17 | 190 | 1 | 3.54 | 7 | <1 | <5 | <1 | 2.19 | <24 | 48 | 0.2 | 16 | <3 | <0.01 | <0.05 | <0.5 | 3.8 |
| 195-5683 | 25 | <5 | 2.3 | 580 | 0.9 | 6 | 30 | 300 | 1 | 4.74 | 7 | <1 | <5 | <1 | 2.55 | <27 | 47 | 0.4 | 21 | <3 | <0.01 | <0.05 | <0.5 | 3.2 |
| 195-5684 | <2 | <5 | 2.1 | 610 | 1.3 | 4 | 23 | 200 | <1 | 3.76 | 8 | <1 | <5 | <1 | 2.85 | <27 | 46 | 0.3 | 18 | <3 | <0.01 | 0.10 | 1.4 | 3.6 |
| 195-5685 | 14 | <5 | 2.4 | 660 | <0.5 | 4 | 25 | 220 | <1 | 4.17 | 8 | <1 | <5 | <1 | 2.69 | <27 | 39 | 0.3 | 19 | <3 | <0.01 | <0.05 | <0.5 | 4.2 |
| 195-5686 | 6 | <5 | 1.5 | 600 | <0.5 | 4 | 17 | 200 | 1 | 3.21 | 7 | <1 | <5 | <1 | 2.84 | <24 | 43 | <0.1 | 16 | <3 | <0.01 | <0.05 | <0.5 | 4.0 |

# Activation Laboratories Ltd. Work Order: 10625 Report: 10542

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA % | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SN % | SR % | TA PPM | TH PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5687 | <2 | <5 | 1.7 | 640 | <0.5 | 4 | 17 | 210 | 1 | 3.30 | 7 | <1 | <5 | <1 | 2.70 | <23 | 43 | 0.2 | 15 | <3 | <0.01 | <0.05 | <0.5 | 3.8 |
| 195-5688 | 6 | <5 | 1.4 | 490 | <0.5 | 4 | 16 | 190 | <1 | 3.14 | 7 | <1 | <5 | <1 | 2.63 | <23 | 40 | <0.1 | 15 | <3 | <0.01 | <0.05 | <0.5 | 3.7 |
| 195-5689 | 5 | <5 | 1.5 | 600 | <0.5 | 5 | 20 | 200 | 1 | 3.62 | 6 | <1 | <5 | <1 | 2.54 | <25 | 44 | 0.3 | 17 | <3 | <0.01 | <0.05 | <0.5 | 4.1 |
| 195-5690 | 12 | <5 | 2.3 | 530 | <0.5 | 3 | 26 | 220 | 1 | 3.83 | 7 | <1 | <5 | <1 | 2.50 | <24 | 35 | 0.3 | 16 | <3 | <0.01 | 0.10 | <0.5 | 4.6 |
| 195-5691 | 5 | <5 | <0.5 | 400 | <0.5 | <1 | 18 | 100 | 2 | 3.96 | 4 | <1 | <5 | <1 | 1.08 | <20 | 47 | 0.2 | 12 | <3 | <0.01 | <0.05 | <0.5 | 2.9 |
| 195-5692 | <2 | <5 | 0.8 | 370 | <0.5 | 2 | 11 | 90 | 2 | 2.43 | 4 | <1 | <5 | <1 | 1.48 | 85 | 43 | 0.3 | 9.4 | <3 | <0.01 | <0.05 | <0.5 | 2.8 |
| 195-5693 | <2 | <5 | <0.5 | 280 | <0.5 | <1 | 11 | 23 | 3 | 2.63 | 4 | <1 | <5 | <1 | 0.32 | 54 | 64 | 0.2 | 5.4 | <3 | <0.01 | <0.05 | 0.8 | 1.9 |
| 195-5694 | 5 | <5 | <0.5 | 290 | <0.5 | <1 | 11 | 18 | 3 | 2.81 | 4 | <1 | <5 | <1 | 0.31 | <20 | 65 | 0.2 | 5.3 | <3 | <0.01 | <0.05 | <0.5 | 1.9 |
| 195-5695 | <2 | <5 | 2.4 | 440 | 1.8 | 7 | 14 | 170 | 2 | 3.33 | 8 | <1 | <5 | <1 | 1.54 | <21 | 62 | 0.2 | 12 | <3 | <0.01 | 0.09 | <0.5 | 6.0 |
| 195-5696 | 10 | <5 | 1.5 | 470 | 1.5 | 7 | 20 | 190 | 1 | 3.89 | 5 | <1 | <5 | 3 | 1.82 | <22 | 40 | 0.2 | 15 | <3 | <0.01 | <0.05 | <0.5 | 3.8 |
| 195-5697 | 11 | <5 | 2.2 | 510 | <0.5 | 5 | 30 | 270 | 2 | 4.58 | 6 | <1 | <5 | 8 | 2.30 | <40 | 44 | 0.4 | 20 | <3 | <0.01 | <0.05 | <0.5 | 4.1 |
| 195-5698 | <2 | <5 | <0.5 | 530 | <0.5 | 5 | 34 | 460 | 2 | 5.00 | 6 | <1 | <5 | <1 | 2.18 | <42 | <15 | 0.4 | 24 | <3 | <0.01 | <0.05 | 1.6 | 3.0 |
| 195-5699 | 9 | <5 | 2.9 | 290 | 1.9 | 20 | 13 | 82 | 3 | 2.23 | 3 | <1 | <5 | <1 | 0.55 | <26 | <15 | 0.3 | 7.2 | <3 | <0.01 | <0.05 | 0.8 | 5.1 |
| 195-5700 | 12 | <5 | 1.9 | 550 | 1.9 | 11 | 13 | 130 | 2 | 2.79 | 6 | <1 | <5 | <1 | 1.15 | <30 | 45 | 0.4 | 7.9 | <3 | <0.01 | 0.07 | <0.5 | 7.0 |
| 195-5701 | 6 | <5 | 4.3 | 400 | 3.2 | 14 | 13 | 140 | 3 | 3.39 | 6 | <1 | <5 | <1 | 0.78 | <28 | 60 | 0.7 | 9.2 | <3 | <0.01 | <0.05 | <0.5 | 6.7 |
| 195-5702 | <2 | <5 | 4.7 | 240 | <0.5 | 16 | 10 | 65 | 5 | 3.26 | 3 | <1 | <5 | <1 | 0.18 | <25 | 63 | 0.5 | 7.4 | <3 | <0.01 | 0.06 | 1.0 | 7.2 |
| 195-5703 | 16 | <5 | 2.8 | 380 | 2.4 | 12 | 11 | 160 | 2 | 2.59 | 8 | <1 | <5 | <1 | 1.07 | <30 | 61 | 0.4 | 9.0 | <3 | <0.01 | <0.05 | <0.5 | 5.7 |
| 195-5704 | <2 | <5 | 2.6 | 470 | <0.5 | 8 | 23 | 160 | 2 | 3.24 | 9 | <1 | <5 | 3 | 1.62 | <51 | 49 | 0.4 | 12 | <3 | <0.01 | <0.05 | <0.5 | 6.3 |
| 195-5705 | 7 | <5 | 2.6 | 560 | <0.5 | 7 | 19 | 170 | <1 | 3.36 | 6 | <1 | <5 | <1 | 1.64 | <48 | 40 | 0.3 | 12 | <3 | <0.01 | <0.05 | <0.5 | 5.0 |
| 195-5706 | 9 | <5 | 4.0 | 640 | 2.2 | 9 | 21 | 200 | 4 | 3.81 | 7 | <1 | <5 | <1 | 1.58 | <34 | 75 | 0.4 | 12 | <3 | <0.01 | <0.05 | <0.5 | 6.6 |
| 195-5707 | <2 | <5 | 3.7 | 510 | <0.5 | 6 | 24 | 200 | 2 | 4.40 | 6 | <1 | <5 | 1 | 1.39 | <46 | 39 | 0.3 | 13 | <3 | <0.01 | <0.05 | <0.5 | 5.9 |
| 195-5708 | 16 | <5 | 3.8 | 590 | <0.5 | 9 | 19 | 170 | 2 | 3.25 | 5 | <1 | <5 | <1 | 1.60 | 140 | 61 | 0.6 | 11 | <3 | <0.01 | <0.05 | <0.5 | 6.3 |
| 195-5709 | 12 | <5 | 2.6 | 580 | <0.5 | 4 | 21 | 250 | 2 | 3.56 | 7 | <1 | <5 | <1 | 2.27 | <38 | <15 | 0.7 | 14 | <3 | <0.01 | 0.06 | <0.5 | 4.6 |
| 195-5710 | 19 | <5 | 3.4 | 490 | <0.5 | 6 | 20 | 200 | 2 | 4.08 | 11 | <1 | <5 | <1 | 1.92 | <37 | <15 | 0.7 | 16 | <3 | <0.01 | <0.05 | <0.5 | 6.7 |

# Activation Laboratories Ltd. Work Order: 10625 Report: 10542

| Sample description | U PPM | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5613 | <0.5 | <1 | 86 | 28 | 54 | 26 | 4.8 | 1.6 | <0.5 | 2.5 | 0.41 | 30.50 |
| 195-5614 | 2.3 | 2 | 190 | 21 | 39 | 19 | 4.0 | 1.5 | <0.5 | 2.3 | 0.36 | 30.60 |
| 195-5615 | 1.5 | <1 | 127 | 22 | 44 | 16 | 3.9 | 1.2 | 0.8 | 2.4 | 0.36 | 30.10 |
| 195-5616 | <0.5 | 16 | 252 | 30 | 59 | 14 | 5.1 | 1.8 | <0.5 | 2.8 | 0.37 | 10.20 |
| 195-5617 | <0.5 | 150 | 237 | 16 | 37 | 19 | 3.7 | 1.5 | <0.5 | 3.1 | 0.52 | 10.00 |
| 195-5618 | <0.5 | <1 | 70 | 21 | 40 | 18 | 3.8 | 1.1 | 1.4 | 2.2 | 0.34 | 30.40 |
| 195-5619 | 4.0 | <1 | 331 | 28 | 57 | 29 | 4.6 | 1.4 | <0.5 | 2.3 | 0.41 | 10.30 |
| 195-5620 | <0.5 | <1 | 135 | 30 | 61 | 25 | 5.1 | 1.6 | <0.5 | 2.2 | 0.38 | 10.40 |
| 195-5621 | 2.5 | 6 | 87 | 28 | 54 | 23 | 4.4 | 1.5 | <0.5 | 1.7 | 0.29 | 30.10 |
| 195-5622 | 4.7 | 10 | 185 | 31 | 66 | 34 | 5.0 | 1.5 | <0.5 | 2.4 | 0.40 | 10.40 |
| 195-5623 | <0.5 | <1 | 258 | 33 | 72 | 36 | 6.1 | 1.9 | <0.5 | 2.8 | 0.38 | 10.30 |
| 195-5624 | 2.7 | 6 | 173 | 34 | 74 | 31 | 6.0 | 1.9 | <0.5 | 2.5 | 0.27 | 10.30 |
| 195-5625 | 2.8 | 6 | 70 | 25 | 54 | 25 | 5.1 | 1.7 | <0.5 | 2.5 | 0.46 | 10.80 |
| 195-5626 | <0.5 | <1 | 275 | 25 | 49 | 25 | 4.4 | 1.6 | <0.5 | 2.3 | 0.28 | 10.30 |
| 195-5627 | 2.1 | 5 | 70 | 17 | 35 | 12 | 3.6 | 1.3 | <0.5 | 2.4 | 0.37 | 30.50 |
| 195-5628 | <0.5 | 6 | 56 | 15 | 29 | 15 | 2.8 | 0.9 | <0.5 | 1.9 | 0.32 | 30.60 |
| 195-5629 | <0.5 | 12 | 186 | 23 | 45 | 25 | 4.5 | 1.6 | <0.5 | 2.8 | 0.47 | 10.30 |
| 195-5630 | 1.0 | <1 | 144 | 21 | 40 | 19 | 3.5 | 1.2 | <0.5 | 1.8 | 0.32 | 30.30 |
| 195-5631 | 1.5 | <1 | 119 | 20 | 39 | 18 | 3.4 | 1.0 | 0.9 | 1.7 | 0.29 | 30.10 |
| 195-5632 | <0.5 | <1 | 147 | 11 | 23 | 10 | 2.1 | 0.7 | <0.5 | 1.6 | 0.26 | 30.30 |
| 195-5633 | <0.5 | <1 | 217 | 31 | 69 | 20 | 5.8 | 1.7 | 1.0 | 2.7 | 0.43 | 10.40 |
| 195-5634 | 1.7 | 3 | 87 | 21 | 40 | 19 | 3.6 | 1.2 | <0.5 | 2.0 | 0.29 | 30.40 |
| 195-5635 | <0.5 | <1 | 189 | 22 | 48 | 18 | 4.4 | 1.5 | <0.5 | 2.7 | 0.40 | 10.30 |
| 195-5636 | 1.3 | 10 | 190 | 26 | 55 | 34 | 5.4 | 1.8 | <0.5 | 3.1 | 0.44 | 10.30 |
| 195-5637 | <0.5 | 5 | 136 | 17 | 35 | 16 | 3.4 | 1.1 | <0.5 | 2.1 | 0.36 | 30.30 |
| 195-5638 | 1.3 | 3 | <50 | 20 | 38 | 19 | 3.7 | 1.2 | <0.5 | 2.3 | 0.34 | 30.30 |
| 195-5639 | <0.5 | <1 | 56 | 21 | 42 | 16 | 3.7 | 1.1 | <0.5 | 2.1 | 0.31 | 30.20 |
| 195-5640 | 2.9 | <1 | 255 | 23 | 45 | 24 | 4.6 | 1.6 | <0.5 | 2.8 | 0.50 | 10.40 |
| 195-5641 | 1.7 | 21 | 117 | 21 | 41 | 15 | 3.6 | 1.2 | 0.7 | 2.0 | 0.28 | 30.30 |
| 195-5642 | <0.5 | 190 | 108 | 16 | 32 | 12 | 3.0 | 0.9 | <0.5 | 1.7 | 0.28 | 30.30 |
| 195-5643 | 1.1 | <1 | 108 | 17 | 34 | 16 | 3.5 | 1.2 | 0.7 | 2.5 | 0.41 | 30.30 |
| 195-5644 | 1.5 | 3 | 98 | 15 | 30 | 9 | 3.0 | 0.9 | <0.5 | 2.2 | 0.35 | 30.30 |
| 195-5645 | 0.8 | 4 | 124 | 20 | 39 | 15 | 3.5 | 1.1 | 0.6 | 1.9 | 0.32 | 30.20 |
| 195-5646 | 2.1 | 5 | 195 | 28 | 61 | 21 | 5.2 | 1.7 | <0.5 | 2.9 | 0.48 | 10.40 |
| 195-5647 | <0.5 | <1 | <50 | 18 | 38 | 12 | 4.2 | 1.4 | <0.5 | 2.5 | 0.38 | 10.30 |
| 195-5648 | 1.4 | <1 | 56 | 23 | 44 | 22 | 4.2 | 1.4 | 0.9 | 2.3 | 0.36 | 30.30 |
| 195-5649 | 1.3 | 3 | 58 | 21 | 40 | 13 | 3.9 | 1.2 | 0.7 | 2.2 | 0.35 | 30.30 |
| 195-5650 | 0.9 | <1 | <50 | 25 | 51 | 23 | 4.9 | 1.5 | <0.5 | 2.5 | 0.39 | 30.40 |
| 195-5651 | 1.5 | 3 | <50 | 24 | 47 | 20 | 4.4 | 1.4 | 0.6 | 2.3 | 0.37 | 30.40 |
| 195-5681 | 1.6 | <1 | 98 | 22 | 45 | 20 | 3.8 | 1.2 | 0.6 | 2.1 | 0.32 | 30.30 |
| 195-5682 | <0.5 | <1 | 74 | 21 | 44 | 22 | 4.3 | 1.4 | 0.5 | 2.3 | 0.38 | 30.70 |
| 195-5683 | 2.0 | 17 | 113 | 21 | 42 | 20 | 4.4 | 1.4 | 0.7 | 2.5 | 0.36 | 29.20 |
| 195-5684 | 1.6 | 31 | <50 | 24 | 47 | 16 | 4.8 | 1.6 | <0.5 | 2.4 | 0.36 | 30.40 |
| 195-5685 | 1.2 | 31 | 66 | 24 | 50 | 22 | 4.9 | 1.7 | 0.8 | 2.6 | 0.42 | 30.40 |
| 195-5686 | 2.3 | 10 | 58 | 23 | 45 | 22 | 4.6 | 1.5 | <0.5 | 2.3 | 0.34 | 32.10 |

# Activation Laboratories Ltd. Work Order: 10625 Report: 10542

| Sample description | U PPM | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5687 | 1.6 | 11 | <50 | 22 | 43 | 17 | 4.3 | 1.5 | 0.8 | 2.2 | 0.32 | 36.30 |
| 195-5688 | 1.6 | <1 | <50 | 22 | 40 | 18 | 4.1 | 1.4 | <0.5 | 2.0 | 0.31 | 35.30 |
| 195-5689 | 1.6 | 3 | 63 | 21 | 41 | 19 | 4.1 | 1.2 | 0.9 | 2.2 | 0.34 | 30.30 |
| 195-5690 | 1.5 | 32 | 100 | 22 | 42 | 20 | 3.9 | 1.2 | <0.5 | 2.0 | 0.31 | 30.30 |
| 195-5691 | <0.5 | 11 | <50 | 20 | 36 | 18 | 2.9 | 0.9 | <0.5 | 1.3 | 0.23 | 30.40 |
| 195-5692 | 0.7 | 4 | <50 | 16 | 28 | 9 | 2.6 | 0.8 | <0.5 | 1.2 | 0.20 | 32.40 |
| 195-5693 | 0.6 | 3 | 51 | 15 | 19 | 12 | 1.8 | 0.6 | <0.5 | 0.7 | 0.11 | 30.30 |
| 195-5694 | <0.5 | 2 | 81 | 16 | 16 | 12 | 1.8 | 0.6 | <0.5 | 0.7 | 0.10 | 30.40 |
| 195-5695 | 1.0 | <1 | 73 | 23 | 44 | 18 | 3.6 | 1.1 | 0.5 | 1.9 | 0.31 | 30.20 |
| 195-5696 | 1.1 | 3 | 62 | 17 | 34 | 16 | 3.1 | 1.0 | <0.5 | 1.7 | 0.28 | 30.30 |
| 195-5697 | 2.7 | 30 | 123 | 18 | 35 | 14 | 4.0 | 1.2 | 0.9 | 2.3 | 0.42 | 32.10 |
| 195-5698 | 1.8 | 21 | <50 | 17 | 38 | 22 | 3.6 | 1.2 | <0.5 | 2.1 | 0.38 | 30.20 |
| 195-5699 | 1.5 | 12 | <50 | 16 | 33 | 13 | 2.2 | 0.7 | 0.6 | 1.2 | 0.19 | 30.50 |
| 195-5700 | 1.7 | 10 | <50 | 19 | 38 | 18 | 3.0 | 0.9 | <0.5 | 1.6 | 0.26 | 30.60 |
| 195-5701 | 2.0 | <1 | 84 | 23 | 45 | 21 | 3.0 | 0.7 | <0.5 | 1.8 | 0.28 | 10.10 |
| 195-5702 | <0.5 | 4 | 112 | 19 | 34 | 12 | 2.1 | 0.6 | 0.6 | 1.1 | 0.17 | 30.50 |
| 195-5703 | <0.5 | <1 | 86 | 21 | 43 | 21 | 3.4 | 1.0 | <0.5 | 1.9 | 0.34 | 30.20 |
| 195-5704 | 1.3 | 4 | 84 | 23.9 | 55 | 23 | 3.9 | 1.1 | <0.5 | 1.7 | 0.27 | 1.187 |
| 195-5705 | 1.8 | 4 | 120 | 23.5 | 48 | 19 | 3.8 | 1.1 | <0.5 | 1.5 | 0.23 | 1.352 |
| 195-5706 | 2.0 | 9 | <50 | 24 | 51 | 21 | 3.6 | 1.1 | <0.5 | 1.7 | 0.27 | 10.00 |
| 195-5707 | 1.8 | 4 | 100 | 28.4 | 60 | 27 | 4.9 | 1.3 | <0.5 | 1.7 | 0.26 | 1.473 |
| 195-5708 | 2.7 | 8 | <50 | 21 | 41 | 17 | 3.2 | 1.0 | <0.5 | 1.6 | 0.26 | 30.30 |
| 195-5709 | 1.9 | <1 | 120 | 24 | 48 | 22 | 4.3 | 1.5 | <0.5 | 2.1 | 0.35 | 31.30 |
| 195-5710 | 2.1 | <1 | 169 | 24 | 48 | 18 | 4.0 | 1.3 | <0.5 | 2.4 | 0.41 | 30.80 |

# Activation Laboratories Ltd. Work Order: 10625 Report: 10542B

| Sample description | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | MN PPM | SR PPM | CD PPM | BI PPM | V PPM | CA % | P % | MG % | TI % | AL % | K % | Y PPM | BE PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5613 | <2. | 89. | 15. | 107. | <0.4 | 86. | 745. | 400. | <0.5 | <5. | 78. | 3.70 | 0.097 | 1.72 | 0.32 | 6.83 | 1.28 | 24. | <2. |
| 5614 | <2. | 120. | 19. | 167. | <0.4 | 193. | 1009. | 343. | 0.8 | <5. | 113. | 5.13 | 0.071 | 2.58 | 0.43 | 6.44 | 1.16 | 25. | <2. |
| 5615 | 2. | 66. | 19. | 118. | <0.4 | 184. | 874. | 335. | <0.5 | <5. | 104. | 4.07 | 0.077 | 2.76 | 0.36 | 6.76 | 1.21 | 23. | <2. |
| 5616 | <2. | 87. | 29. | 153. | <0.4 | 222. | 1108. | 378. | 0.8 | <5. | 136. | 4.85 | 0.074 | 3.62 | 0.38 | 6.87 | 1.49 | 23. | <2. |
| 5617 | 2. | 264. | 8. | 119. | <0.4 | 115. | 1553. | 232. | 0.8 | <5. | 166. | 6.58 | 0.044 | 2.99 | 0.40 | 6.68 | 0.75 | 25. | <2. |
| 5618 | <2. | 66. | 8. | 84. | <0.4 | 154. | 695. | 382. | <0.5 | <5. | 82. | 3.62 | 0.079 | 2.42 | 0.30 | 6.57 | 1.29 | 20. | <2. |
| 5619 | <2. | 47. | 12. | 66. | <0.4 | 92. | 639. | 359. | <0.5 | <5. | 76. | 3.71 | 0.072 | 2.06 | 0.31 | 6.43 | 1.65 | 20. | <2. |
| 5620 | <2. | 37. | 8. | 58. | <0.4 | 74. | 598. | 394. | 0.5 | <5. | 71. | 3.54 | 0.073 | 1.82 | 0.28 | 6.55 | 1.79 | 19. | <2. |
| 5621 | <2. | 33. | 10. | 59. | <0.4 | 79. | 602. | 424. | <0.5 | <5. | 72. | 3.46 | 0.084 | 1.83 | 0.28 | 6.64 | 1.91 | 20. | 2. |
| 5622 | <2. | 49. | 8. | 66. | 0.5 | 98. | 715. | 412. | <0.5 | <5. | 92. | 3.45 | 0.076 | 2.22 | 0.29 | 6.99 | 1.96 | 20. | 2. |
| 5623 | <2. | 32. | 12. | 64. | <0.4 | 80. | 649. | 465. | 0.5 | <5. | 84. | 3.24 | 0.088 | 1.91 | 0.31 | 7.02 | 1.90 | 22. | 2. |
| 5624 | <2. | 28. | 13. | 61. | <0.4 | 93. | 648. | 493. | <0.5 | <5. | 77. | 3.31 | 0.095 | 1.97 | 0.30 | 6.83 | 1.83 | 23. | 2. |
| 5625 | <2. | 37. | 5. | 64. | <0.4 | 90. | 781. | 414. | <0.5 | <5. | 109. | 4.23 | 0.073 | 1.98 | 0.33 | 6.98 | 1.56 | 22. | <2. |
| 5626 | <2. | 74. | 13. | 78. | <0.4 | 157. | 872. | 315. | <0.5 | <5. | 111. | 4.57 | 0.061 | 2.77 | 0.36 | 6.64 | 1.43 | 20. | <2. |
| 5627 | <2. | 147. | <5. | 87. | <0.4 | 99. | 1092. | 369. | 0.5 | <5. | 124. | 4.81 | 0.068 | 2.37 | 0.43 | 6.69 | 1.42 | 24. | <2. |
| 5628 | <2. | 73. | <5. | 79. | <0.4 | 86. | 1463. | 247. | 0.6 | <5. | 123. | 5.95 | 0.046 | 2.34 | 0.33 | 6.48 | 1.09 | 19. | <2. |
| 5629 | <2. | 85. | 6. | 86. | <0.4 | 172. | 1076. | 296. | <0.5 | <5. | 125. | 4.72 | 0.060 | 2.93 | 0.39 | 6.51 | 1.30 | 22. | <2. |
| 5630 | <2. | 52. | 7. | 55. | <0.4 | 64. | 752. | 322. | <0.5 | <5. | 103. | 4.61 | 0.059 | 2.13 | 0.31 | 6.36 | 1.52 | 19. | <2. |
| 5631 | <2. | 35. | <5. | 52. | <0.4 | 55. | 702. | 342. | 0.5 | <5. | 95. | 3.97 | 0.064 | 1.91 | 0.32 | 6.56 | 1.44 | 20. | <2. |
| 5632 | <2. | 132. | <5. | 80. | <0.4 | 153. | 1120. | 187. | 0.5 | <5. | 111. | 8.38 | 0.040 | 3.53 | 0.23 | 6.61 | 0.82 | 16. | <2. |
| 5633 | <2. | 59. | 8. | 64. | <0.4 | 83. | 683. | 377. | <0.5 | <5. | 98. | 3.94 | 0.078 | 2.21 | 0.32 | 6.78 | 1.53 | 20. | <2. |
| 5634 | <2. | 66. | <5. | 67. | <0.4 | 80. | 732. | 340. | <0.5 | <5. | 109. | 4.07 | 0.068 | 2.41 | 0.30 | 6.74 | 1.49 | 19. | <2. |
| 5635 | <2. | 86. | <5. | 73. | <0.4 | 91. | 838. | 308. | 0.5 | <5. | 130. | 4.50 | 0.062 | 2.67 | 0.32 | 6.73 | 1.28 | 20. | <2. |
| 5636 | <2. | 100. | 6. | 66. | <0.4 | 80. | 824. | 349. | 0.5 | <5. | 124. | 4.63 | 0.071 | 2.39 | 0.38 | 6.46 | 1.28 | 22. | <2. |
| 5637 | <2. | 70. | <5. | 67. | <0.4 | 113. | 959. | 297. | 0.5 | <5. | 140. | 4.92 | 0.072 | 3.54 | 0.34 | 6.41 | 1.32 | 20. | <2. |
| 5638 | <2. | 57. | 10. | 59. | <0.4 | 72. | 790. | 346. | <0.5 | <5. | 107. | 4.65 | 0.077 | 1.88 | 0.34 | 6.67 | 1.12 | 23. | <2. |
| 5639 | <2. | 65. | 6. | 67. | <0.4 | 92. | 854. | 330. | <0.5 | <5. | 116. | 4.28 | 0.070 | 2.25 | 0.35 | 6.89 | 1.30 | 22. | <2. |
| 5640 | <2. | 120. | 10. | 77. | <0.4 | 87. | 872. | 336. | 0.8 | <5. | 133. | 4.90 | 0.080 | 2.31 | 0.43 | 6.65 | 1.14 | 25. | <2. |
| 5641 | <2. | 73. | 13. | 81. | <0.4 | 172. | 817. | 347. | <0.5 | <5. | 103. | 4.72 | 0.076 | 2.73 | 0.33 | 6.60 | 1.28 | 22. | <2. |
| 5642 | 2. | 64. | 5. | 86. | <0.4 | 167. | 832. | 342. | <0.5 | <5. | 124. | 4.32 | 0.058 | 3.27 | 0.33 | 6.88 | 1.37 | 19. | <2. |
| 5643 | <2. | 108. | 5. | 78. | <0.4 | 111. | 1063. | 259. | 0.8 | <5. | 172. | 5.32 | 0.058 | 3.08 | 0.45 | 6.83 | 0.94 | 25. | <2. |
| 5644 | <2. | 79. | <5. | 79. | <0.4 | 86. | 1038. | 263. | 0.7 | <5. | 163. | 5.01 | 0.057 | 2.90 | 0.40 | 6.83 | 0.91 | 22. | <2. |
| 5645 | <2. | 38. | 10. | 44. | <0.4 | 89. | 636. | 340. | <0.5 | <5. | 83. | 4.04 | 0.065 | 2.22 | 0.28 | 5.68 | 1.51 | 19. | <2. |
| 5646 | <2. | 45. | 5. | 59. | <0.4 | 73. | 689. | 319. | <0.5 | <5. | 98. | 4.05 | 0.077 | 2.47 | 0.34 | 6.57 | 1.67 | 20. | <2. |
| 5647 | <2. | 69. | <5. | 60. | <0.4 | 134. | 645. | 186. | <0.5 | <5. | 137. | 2.54 | 0.048 | 4.99 | 0.41 | 8.14 | 2.95 | 19. | <2. |
| 5648 | <2. | 62. | 5. | 50. | <0.4 | 59. | 741. | 370. | <0.5 | <5. | 111. | 4.16 | 0.074 | 2.01 | 0.35 | 6.54 | 1.47 | 23. | <2. |
| 5649 | <2. | 62. | 8. | 50. | <0.4 | 53. | 700. | 383. | <0.5 | <5. | 105. | 4.16 | 0.076 | 1.93 | 0.35 | 6.22 | 1.47 | 22. | <2. |
| 5650 | <2. | 53. | 7. | 44. | <0.4 | 51. | 680. | 447. | <0.5 | <5. | 98. | 4.13 | 0.085 | 1.79 | 0.37 | 6.34 | 1.43 | 23. | <2. |
| 5651 | <2. | 54. | 8. | 51. | <0.4 | 56. | 702. | 413. | <0.5 | <5. | 108. | 4.28 | 0.080 | 2.03 | 0.36 | 6.68 | 1.54 | 23. | <2. |
| 5681 | <2. | 46. | 9. | 35. | <0.4 | 40. | 741. | 318. | <0.5 | <5. | 68. | 9.08 | 0.070 | 3.14 | 0.23 | 4.68 | 1.52 | 20. | <2. |
| 5682 | <2. | 55. | 11. | 42. | <0.4 | 46. | 742. | 388. | <0.5 | <5. | 87. | 6.28 | 0.076 | 2.40 | 0.29 | 5.52 | 1.38 | 22. | <2. |
| 5683 | <2. | 80. | 10. | 48. | <0.4 | 68. | 782. | 394. | <0.5 | <5. | 105. | 5.01 | 0.075 | 2.59 | 0.33 | 6.66 | 1.18 | 22. | <2. |
| 5684 | <2. | 42. | 5. | 47. | <0.4 | 50. | 655. | 451. | <0.5 | <5. | 91. | 4.00 | 0.090 | 1.91 | 0.34 | 6.27 | 1.36 | 23. | <2. |
| 5685 | <2. | 51. | 9. | 52. | <0.4 | 49. | 726. | 435. | <0.5 | <5. | 99. | 4.33 | 0.091 | 2.01 | 0.38 | 6.22 | 1.30 | 25. | <2. |
| 5686 | <2. | 47. | 9. | 43. | <0.4 | 49. | 656. | 481. | <0.5 | <5. | 88. | 4.12 | 0.098 | 1.76 | 0.36 | 6.66 | 1.39 | 25. | <2. |

# Activation Laboratories Ltd. Work Order: 10625 Report: 10542B

| Sample description | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | MN PPM | SR PPM | CD PPM | BI PPM | V PPM | CA % | P % | MG % | TI % | AL % | K % | Y PPM | BE PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5687 | <2. | 43. | 6. | 44. | <0.4 | 51. | 646. | 462. | <0.5 | <5. | 86. | 3.84 | 0.091 | 1.77 | 0.33 | 6.68 | 1.37 | 24. | <2. |
| 5688 | <2. | 39. | 11. | 45. | <0.4 | 52. | 619. | 448. | <0.5 | <5. | 87. | 3.70 | 0.087 | 1.79 | 0.32 | 6.77 | 1.47 | 23. | <2. |
| 5689 | <2. | 51. | 6. | 50. | <0.4 | 63. | 669. | 409. | <0.5 | <5. | 98. | 3.68 | 0.082 | 2.10 | 0.33 | 6.85 | 1.38 | 22. | <2. |
| 5690 | 2. | 40. | 9. | 58. | <0.4 | 77. | 659. | 406. | <0.5 | <5. | 95. | 3.42 | 0.082 | 2.18 | 0.32 | 6.88 | 1.59 | 20. | <2. |
| 5691 | <2. | 30. | <5. | 58. | <0.4 | 59. | 527. | 226. | <0.5 | <5. | 79. | 1.84 | 0.053 | 2.26 | 0.22 | 7.46 | 2.28 | 13. | <2. |
| 5692 | <2. | 35. | <5. | 40. | <0.4 | 39. | 447. | 304. | <0.5 | <5. | 60. | 2.47 | 0.062 | 1.82 | 0.20 | 7.15 | 1.96 | 13. | <2. |
| 5693 | <2. | 11. | <5. | 52. | <0.4 | 25. | 384. | 181. | <0.5 | <5. | 40. | 0.67 | 0.046 | 2.08 | 0.13 | 8.60 | 2.62 | 7. | <2. |
| 5694 | <2. | 20. | <5. | 58. | <0.4 | 18. | 360. | 167. | <0.5 | <5. | 36. | 0.46 | 0.042 | 2.19 | 0.14 | 8.68 | 2.51 | 6. | <2. |
| 5695 | <2. | 37. | 7. | 47. | <0.4 | 50. | 607. | 284. | <0.5 | <5. | 68. | 7.93 | 0.058 | 2.43 | 0.24 | 5.51 | 1.98 | 18. | <2. |
| 5696 | <2. | 63. | 8. | 45. | <0.4 | 66. | 727. | 297. | <0.5 | <5. | 87. | 6.87 | 0.059 | 2.96 | 0.25 | 5.73 | 1.53 | 18. | <2. |
| 5697 | <2. | 68. | 5. | 61. | <0.4 | 75. | 783. | 349. | <0.5 | <5. | 123. | 4.43 | 0.070 | 2.59 | 0.35 | 6.81 | 1.22 | 20. | <2. |
| 5698 | <2. | 73. | <5. | 56. | <0.4 | 95. | 841. | 309. | <0.5 | <5. | 125. | 5.04 | 0.060 | 3.25 | 0.32 | 6.98 | 1.09 | 19. | <2. |
| 5699 | <2. | 18. | 8. | 27. | <0.4 | 26. | 458. | 226. | <0.5 | <5. | 39. | 17.91 | 0.033 | 2.05 | 0.13 | 3.37 | 2.09 | 13. | <2. |
| 5700 | <2. | 24. | 9. | 38. | <0.4 | 34. | 578. | 258. | 0.5 | <5. | 46. | 12.21 | 0.057 | 2.83 | 0.18 | 4.73 | 2.21 | 16. | <2. |
| 5701 | <2. | 28. | 15. | 33. | <0.4 | 36. | 535. | 240. | <0.5 | <5. | 50. | 13.34 | 0.042 | 2.28 | 0.19 | 4.71 | 2.23 | 16. | <2. |
| 5702 | <2. | 13. | 18. | 27. | <0.4 | 22. | 336. | 232. | <0.5 | <5. | 56. | 16.43 | 0.019 | 1.51 | 0.18 | 5.34 | 3.22 | 11. | <2. |
| 5703 | <2. | 32. | <5. | 30. | <0.4 | 32. | 604. | 234. | <0.5 | <5. | 41. | 11.40 | 0.056 | 3.06 | 0.17 | 3.71 | 1.95 | 18. | <2. |
| 5704 | <2. | 37. | 10. | 42. | <0.4 | 56. | 885. | 287. | <0.5 | <5. | 64. | 7.87 | 0.057 | 2.08 | 0.24 | 5.27 | 1.78 | 18. | <2. |
| 5705 | <2. | 35. | 8. | 48. | <0.4 | 61. | 639. | 271. | <0.5 | <5. | 66. | 7.29 | 0.063 | 2.25 | 0.21 | 5.49 | 2.15 | 18. | <2. |
| 5706 | 2. | 38. | 7. | 52. | <0.4 | 64. | 667. | 295. | <0.5 | <5. | 69. | 7.94 | 0.064 | 2.36 | 0.21 | 5.48 | 2.14 | 17. | <2. |
| 5707 | <2. | 100. | 5. | 72. | <0.4 | 81. | 781. | 216. | <0.5 | <5. | 88. | 6.41 | 0.087 | 3.03 | 0.24 | 6.26 | 2.63 | 20. | <2. |
| 5708 | <2. | 39. | 13. | 50. | 0.4 | 65. | 646. | 267. | <0.5 | <5. | 67. | 8.35 | 0.061 | 2.38 | 0.20 | 5.36 | 2.09 | 17. | <2. |
| 5709 | <2. | 46. | 7. | 62. | <0.4 | 76. | 647. | 434. | <0.5 | <5. | 87. | 3.64 | 0.085 | 2.23 | 0.28 | 6.55 | 1.57 | 20. | <2. |
| 5710 | <2. | 40. | 11. | 47. | <0.4 | 48. | 784. | 284. | <0.5 | <5. | 91. | 5.26 | 0.061 | 2.08 | 0.30 | 5.63 | 1.70 | 22. | <2. |

ACTLABS

# ACTIVATION LABORATORIES LTD

Invoice No.: 10515
Work Order: 10624
Invoice Date: 12-JUN-96
Date Submitted: 21-MAY-96
Your Reference: PROJ#195
Account Number: 445

W.A HUBACHECK CONSULTANTS LTD
141 ADELAIDE ST WEST, SUITE 1401
TORONTO, ONT
M5H 3L5

ATT:DAVE CHRISTIE

## CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AU | 5. | PPB | AG | 5. | PPM | AS | 2. | PPM | BA | 200. | PPM |
| BR | 5. | PPM | CA | 1. | % | CO | 5. | PPM | CR | 10. | PPM |
| CS | 2. | PPM | FE | 0.02 | % | HF | 1. | PPM | HG | 5. | PPM |
| IR | 50. | PPB | MO | 20. | PPM | NA | 500. | PPM | NI | 200. | PPM |
| RB | 50. | PPM | SB | 0.2 | PPM | SC | 0.1 | PPM | SE | 20. | PPM |
| SR | 0.2 | % | TA | 1. | PPM | TH | 0.5 | PPM | U | 0.5 | PPM |
| W | 4. | PPM | ZN | 200. | PPM | LA | 1. | PPM | CE | 3. | PPM |
| ND | 10. | PPM | SM | 0.1 | PPM | EU | 0.2 | PPM | TB | 2. | PPM |
| YB | 0.2 | PPM | LU | 0.1 | PPM | | | | | | |

10515B - AQUA REGIA - ICP

(HEAVY MINERAL CONCENTRATE)

CERTIFIED BY :

per DR. ERIC L. HOFFMAN

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

# Activation Laboratories Ltd. Work Order: 10624 Report: 10515

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA PPM | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SR % | TA PPM | TH PPM | U PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5613 | 70 | <5 | 51 | <200 | <5 | 8 | 210 | 670 | <2 | 17.9 | 81 | <5 | <50 | <20 | 4320 | 650 | <50 | 1.4 | 47 | <20 | <0.2 | 5 | 31 | 12 |
| 195-5614 | 83 | <5 | 180 | <200 | <5 | 8 | 250 | 1700 | <2 | 14.2 | 40 | <5 | <50 | <20 | 3680 | 1000 | <50 | 2.6 | 61 | <20 | <0.2 | 7 | 16 | 9.2 |
| 195-5615 | 40 | <5 | 130 | 630 | <5 | 7 | 200 | 1400 | <2 | 14.7 | 32 | <5 | <50 | <20 | 4500 | 980 | <50 | 2.0 | 56 | <20 | <0.2 | 5 | 13 | <1.0 |
| 195-5616 | 32 | <5 | 95 | 520 | <5 | 8 | 140 | 1200 | <2 | 11.2 | 33 | <5 | <50 | <20 | 4540 | 630 | <50 | 1.3 | 53 | <20 | <0.2 | 6 | 18 | 8.9 |
| 195-5617 | 52 | <5 | 16 | <200 | <5 | 8 | 260 | 270 | <2 | 18.3 | 15 | <5 | <50 | <20 | 5210 | <200 | <50 | <0.2 | 63 | <20 | <0.2 | <1 | 8.0 | <1.0 |
| 195-5618 | 32 | <5 | 700 | <200 | <5 | 13 | 460 | 2200 | <2 | 16.7 | 43 | <5 | <50 | <20 | 5140 | 700 | <50 | 4.9 | 56 | <20 | <0.2 | 4 | 18 | <1.3 |
| 195-5619 | 22 | <5 | 24 | <200 | <5 | 7 | 99 | 350 | <2 | 8.84 | 39 | <5 | <50 | <20 | 5210 | <200 | <50 | <0.2 | 43 | <20 | <0.2 | 7 | 25 | 5.0 |
| 195-5620 | 9 | <5 | 36 | 530 | <5 | 12 | 130 | 470 | <2 | 10.9 | 47 | <5 | <50 | <20 | 6120 | <200 | <50 | <0.2 | 53 | <20 | <0.2 | 8 | 32 | 8.2 |
| 195-5621 | 70 | <5 | 33 | <200 | <5 | 13 | 130 | 480 | <2 | 11.5 | 59 | <5 | <50 | <20 | 6550 | <200 | <50 | <0.2 | 57 | <20 | <0.2 | 8 | 41 | 20 |
| 195-5622 | 29 | <5 | 27 | <200 | <5 | 10 | 130 | 550 | <2 | 11.6 | 52 | <5 | <50 | <20 | 6180 | <200 | <50 | <0.2 | 61 | <20 | <0.2 | 9 | 38 | 20 |
| 195-5623 | 15 | <5 | 30 | <200 | <5 | 14 | 120 | 540 | <2 | 11.3 | 56 | <5 | <50 | <20 | 5930 | 380 | <50 | <0.2 | 54 | <20 | <0.2 | 7 | 27 | 11 |
| 195-5624 | 37 | <5 | 22 | <200 | <5 | 10 | 110 | 490 | 4 | 11.3 | 53 | <5 | <50 | <20 | 7110 | <200 | <50 | <0.2 | 59 | 21 | <0.2 | 8 | 37 | 10 |
| 195-5625 | 87 | <5 | 36 | 650 | <5 | 15 | 130 | 600 | 3 | 13.2 | 54 | <5 | <50 | <20 | 7950 | <200 | <50 | <0.2 | 71 | <20 | <0.2 | 7 | 33 | 11 |
| 195-5626 | 10 | <5 | 240 | 300 | <5 | 9 | 280 | 790 | <2 | 12.4 | 56 | <5 | <50 | <20 | 5160 | 560 | <50 | 1.8 | 65 | <20 | <0.2 | 6 | 28 | 12 |
| 195-5627 | 8 | <5 | 56 | <200 | <5 | 11 | 150 | 490 | <2 | 12.4 | 58 | <5 | <50 | <20 | 5160 | <200 | <50 | 1.2 | 62 | <20 | <0.2 | 5 | 19 | 7.8 |
| 195-5628 | 192 | <5 | 78 | <200 | <5 | 10 | 170 | 580 | <2 | 13.2 | 38 | <5 | <50 | <20 | 4340 | <200 | <50 | 1.4 | 130 | <20 | <0.2 | <1 | 13 | 5.2 |
| 195-5629 | 71 | <5 | 280 | <200 | <5 | 12 | 310 | 1700 | <2 | 14.2 | 30 | <5 | <50 | <20 | 6040 | <200 | <50 | 2.7 | 57 | <20 | <0.2 | 6 | 28 | 10 |
| 195-5630 | 70 | <5 | 79 | <200 | <5 | 6 | 410 | 1100 | <2 | 20.6 | 57 | <5 | <50 | <20 | 4820 | 510 | <50 | 2.9 | 64 | 28 | <0.2 | 4 | 22 | 11 |
| 195-5631 | 24 | <5 | 49 | <200 | <5 | 11 | 230 | 740 | <2 | 16.0 | 57 | <5 | <50 | <20 | 4900 | 570 | <50 | 2.2 | 62 | <20 | <0.2 | 6 | 23 | 7.7 |
| 195-5632 | 90 | <5 | 180 | <200 | <5 | 11 | 410 | 880 | <2 | 17.9 | 51 | <5 | <50 | <20 | 6310 | <200 | <50 | 2.9 | 75 | <20 | <0.2 | <1 | 15 | 4.6 |
| 195-5633 | 70 | <5 | 73 | <200 | <5 | <2 | 310 | 740 | <2 | 18.9 | 33 | <5 | <50 | <20 | 4950 | 590 | <50 | 2.4 | 50 | <20 | <0.2 | 4 | 15 | <0.9 |
| 195-5634 | 134 | <5 | 72 | 350 | <5 | 12 | 290 | 770 | <2 | 17.7 | 25 | <5 | <50 | <20 | 6320 | 480 | <50 | 2.4 | 51 | <20 | <0.2 | 3 | 12 | 6.8 |
| 195-5635 | 71 | <5 | 69 | 540 | <5 | 8 | 290 | 760 | <2 | 19.1 | 36 | <5 | <50 | 20 | 5720 | 780 | <50 | 2.5 | 68 | <20 | <0.2 | <1 | 14 | <1.0 |
| 195-5636 | 77 | <5 | 68 | <200 | <5 | 10 | 310 | 630 | <2 | 16.3 | 30 | <5 | <50 | <20 | 4180 | 420 | <50 | 2.3 | 53 | <20 | <0.2 | <1 | 11 | 7.0 |
| 195-5637 | 220 | <5 | 35 | <200 | <5 | 12 | 230 | 4900 | <2 | 16.7 | 35 | <5 | <50 | <20 | 4940 | 330 | <50 | 2.0 | 63 | <20 | <0.2 | 3 | 14 | <0.9 |
| 195-5638 | 56 | <5 | 26 | <200 | <5 | 12 | 140 | 430 | <2 | 12.9 | 61 | <5 | <50 | <20 | 4120 | 500 | <50 | 1.7 | 130 | <20 | <0.2 | 3 | 22 | 5.5 |
| 195-5639 | 39 | <5 | 11 | <200 | <5 | 14 | 96 | 320 | <2 | 11.5 | 21 | <5 | <50 | <20 | 3380 | <200 | <50 | 1.0 | 62 | <20 | <0.2 | <1 | 7.9 | 6.1 |
| 195-5640 | 99 | <5 | 45 | <200 | <5 | 11 | 270 | 500 | <2 | 14.7 | 28 | <5 | <50 | <20 | 3820 | 570 | <50 | 1.4 | 53 | <20 | <0.2 | 5 | 12 | <0.9 |
| 195-5641 | 70 | <5 | 76 | <200 | <5 | <2 | 220 | 690 | <2 | 12.7 | 18 | <5 | <50 | <20 | 5660 | 700 | <50 | 1.5 | 45 | <20 | <0.2 | 5 | 19 | 8.8 |
| 195-5642 | 54 | <5 | 75 | <200 | <5 | 9 | 340 | 840 | <2 | 15.1 | 23 | <5 | <50 | 21 | 8420 | 470 | <50 | 2.4 | 50 | <20 | <0.2 | 2 | 13 | <0.5 |
| 195-5643 | 69 | <5 | 38 | <200 | <5 | 10 | 400 | 400 | <2 | 17.5 | 24 | <5 | <50 | <20 | 4130 | <200 | <50 | 1.0 | 51 | <20 | <0.2 | <1 | 13 | <0.9 |
| 195-5644 | 47 | <5 | 17 | <200 | <5 | 11 | 350 | 480 | <2 | 18.5 | 63 | <5 | <50 | <20 | 5960 | <200 | <50 | 1.5 | 68 | <20 | <0.2 | 4 | 20 | 5.3 |
| 195-5645 | 53 | <5 | 51 | <200 | <5 | 15 | 240 | 1000 | <2 | 18.0 | 69 | <5 | <50 | <20 | 4970 | <200 | <50 | 2.3 | 55 | <20 | <0.2 | 3 | 24 | 10 |
| 195-5646 | 55 | <5 | 54 | 530 | <5 | 15 | 350 | 1300 | <2 | 22.9 | 79 | <5 | <50 | <20 | 5570 | 640 | <50 | 2.2 | 68 | 27 | <0.2 | <1 | 23 | 7.6 |
| 195-5647 | 160 | <5 | 36 | <200 | <5 | 10 | 280 | 650 | <2 | 30.4 | 30 | <5 | <50 | <20 | 2520 | <200 | <50 | 3.0 | 40 | <20 | <0.2 | <1 | 12 | <0.7 |
| 195-5648 | 54 | <5 | 44 | <200 | <5 | 8 | 200 | 570 | <2 | 13.7 | 51 | <5 | <50 | <20 | 3690 | <200 | <50 | 1.4 | 49 | <20 | <0.2 | 7 | 21 | 7.3 |
| 195-5649 | 179 | <5 | 48 | <200 | <5 | 9 | 200 | 620 | <2 | 14.4 | 51 | <5 | <50 | <20 | 4580 | <200 | <50 | 1.3 | 53 | <20 | <0.2 | 6 | 21 | 12 |
| 195-5650 | 34 | <5 | 52 | <200 | <5 | 11 | 240 | 890 | <2 | 17.3 | 63 | <5 | <50 | <20 | 4300 | <200 | <50 | 1.9 | 58 | <20 | <0.2 | 7 | 21 | 10 |
| 195-5651 | 40 | <5 | 73 | 590 | <5 | 5 | 310 | 840 | <2 | 18.6 | 64 | <5 | <50 | <20 | 4460 | <200 | <50 | 2.2 | 54 | <20 | <0.2 | <1 | 22 | 8.6 |
| 195-5681 | 405 | <5 | 67 | 520 | <5 | 10 | 240 | 1600 | <2 | 23.6 | 160 | <5 | <50 | <20 | 3820 | <200 | <50 | 2.9 | 49 | <20 | <0.2 | 6 | 41 | 17 |
| 195-5682 | 47 | <5 | 31 | <200 | <5 | 10 | 140 | 530 | <2 | 13.1 | 48 | <5 | <50 | <20 | 3810 | <200 | <50 | 1.3 | 51 | <20 | <0.2 | 5 | 15 | <0.8 |
| 195-5683 | 70 | <5 | 31 | <200 | <5 | 15 | 140 | 400 | <2 | 11.5 | 39 | <5 | <50 | <20 | 4390 | <200 | <50 | 1.6 | 52 | <20 | <0.2 | 5 | 14 | 11 |
| 195-5684 | 31 | <5 | 26 | 410 | <5 | 8 | 150 | 420 | <2 | 11.8 | 41 | <5 | <50 | <20 | 4700 | <200 | <50 | 1.2 | 49 | <20 | <0.2 | 3 | 14 | 4.7 |
| 195-5685 | 18 | <5 | 31 | <200 | <5 | 9 | 130 | 410 | <2 | 11.7 | 48 | <5 | <50 | <20 | 4430 | <200 | <50 | 1.1 | 45 | <20 | <0.2 | 7 | 14 | 6.1 |
| 195-5686 | 14 | <5 | 34 | <200 | <5 | 7 | 160 | 420 | <2 | 12.7 | 40 | <5 | <50 | <20 | 6530 | <200 | <50 | 1.3 | 45 | <20 | <0.2 | <1 | 14 | 7.4 |

# Activation Laboratories Ltd. Work Order: 10624 Report: 10515

| Sample description | AU PPB | AG PPM | AS PPM | BA PPM | BR PPM | CA % | CO PPM | CR PPM | CS PPM | FE % | HF PPM | HG PPM | IR PPB | MO PPM | NA PPM | NI PPM | RB PPM | SB PPM | SC PPM | SE PPM | SR % | TA PPM | TH PPM | U PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5687 | 29 | <5 | 33 | <200 | <5 | 12 | 160 | 450 | <2 | 11.9 | 59 | <5 | <50 | <20 | 4440 | 360 | <50 | 1.1 | 50 | <20 | <0.2 | 5 | 18 | 7.8 |
| 195-5688 | <5 | <5 | 26 | <200 | <5 | 11 | 120 | 420 | <2 | 10.7 | 40 | <5 | <50 | <20 | 4610 | <200 | <50 | 1.0 | 46 | <20 | <0.2 | 4 | 14 | 4.5 |
| 195-5689 | 164 | <5 | 32 | <200 | <5 | 11 | 110 | 410 | <2 | 10.9 | 35 | <5 | <50 | <20 | 4790 | <200 | <50 | 0.9 | 47 | <20 | <0.2 | 4 | 15 | 5.7 |
| 195-5690 | <5 | <5 | 23 | <200 | <5 | 14 | 120 | 440 | <2 | 11.2 | 26 | <5 | <50 | <20 | 6280 | 340 | <50 | 0.8 | 52 | <20 | <0.2 | 7 | 17 | 7.9 |
| 195-5691 | 18 | <5 | 39 | <200 | <5 | <2 | 320 | 540 | <2 | 22.7 | 50 | <5 | <50 | <20 | 5600 | <200 | <50 | 3.0 | 52 | 26 | <0.2 | <1 | 18 | 6.5 |
| 195-5692,3,4. | 17 | <5 | 41 | <200 | <5 | 2 | 130 | 200 | <2 | 9.95 | 350 | <5 | <50 | <20 | 1350 | <200 | <50 | 1.6 | 16 | <20 | <0.2 | 7 | 7.7 | 4.2 |
| 195-5695 | 29 | <5 | 50 | 680 | 6 | 14 | 130 | 1100 | <2 | 21.0 | 110 | <5 | <50 | <20 | 3960 | 580 | <50 | 2.1 | 50 | <20 | <0.2 | 8 | 32 | 5.6 |
| 195-5696 | 16 | <5 | 28 | <200 | <5 | 10 | 130 | 620 | <2 | 15.1 | 48 | <5 | <50 | <20 | 3120 | <200 | <50 | 1.0 | 42 | <20 | <0.2 | 4 | 14 | 5.4 |
| 195-5697 | <5 | <5 | 17 | <200 | <5 | 14 | 130 | 500 | <2 | 10.5 | 7 | <5 | <50 | <20 | 3570 | <200 | <50 | 0.7 | 47 | <20 | <0.2 | <1 | 4.9 | 3.1 |
| 195-5698 | <5 | <5 | 14 | <200 | <5 | 15 | 130 | 700 | <2 | 11.2 | 19 | <5 | <50 | <20 | 4590 | <200 | 55 | 0.8 | 51 | <20 | <0.2 | 4 | 11 | <0.8 |
| 195-5699 | 90 | <5 | 40 | <200 | <5 | 14 | 420 | 1600 | <2 | 27.9 | 160 | <5 | <50 | <20 | 2820 | 690 | <50 | 3.9 | 44 | <20 | <0.2 | 9 | 36 | 9.1 |
| 195-5700 | 81 | <5 | 48 | <200 | <5 | 13 | 140 | 2000 | <2 | 28.2 | 210 | <5 | <50 | <20 | 3680 | <200 | <50 | 3.2 | 35 | <20 | <0.2 | 18 | 110 | 25 |
| 195-5701 | 230 | <5 | 60 | <200 | <5 | 4 | 110 | 1000 | <2 | 25.7 | 90 | <5 | <50 | <20 | 1350 | <200 | <50 | 2.2 | 18 | <20 | <0.2 | 7 | 26 | 7.2 |
| 195-5702 | <5 | <5 | 58 | <200 | 12 | 10 | 58 | 46 | <2 | 32.5 | 14 | <5 | <50 | <20 | <500 | <200 | <50 | 1.1 | 4.2 | <20 | <0.2 | 3 | 9.4 | <0.5 |
| 195-5703 | 130 | <5 | 61 | <200 | <5 | 8 | 160 | 2300 | <2 | 33.5 | 230 | <5 | <50 | <20 | 2220 | 490 | <50 | 3.2 | 38 | 33 | <0.2 | 15 | 61 | 24 |
| 195-5704 | 9 | <5 | <2 | <200 | <5 | 13 | 53 | 1100 | <2 | 18.8 | 120 | <5 | <50 | <20 | 6490 | <200 | <50 | <0.2 | 97 | <20 | <0.2 | 9 | 53 | 7.4 |
| 195-5705 | 31 | <5 | 14 | 590 | <5 | 12 | 69 | 1300 | <2 | 17.4 | 130 | <5 | <50 | <20 | 5320 | <200 | <50 | 0.9 | 75 | <20 | <0.2 | 10 | 61 | 11 |
| 195-5706 | 68 | <5 | 45 | <200 | <5 | 8 | 180 | 1400 | <2 | 25.2 | 130 | <5 | <50 | 33 | 6530 | <200 | <50 | 1.7 | 49 | <20 | <0.2 | 5 | 72 | 9.3 |
| 195-5707 | 96 | <5 | 77 | <200 | <5 | <2 | 220 | 1500 | 3 | 27.7 | 86 | <5 | <50 | 20 | 3080 | 1100 | <50 | 2.6 | 26 | <20 | <0.2 | 2 | 48 | 9.5 |
| 195-5708 | 48 | <5 | 53 | 470 | <5 | 6 | 190 | 980 | <2 | 24.8 | 86 | <5 | <50 | <20 | 6400 | <200 | <50 | 2.0 | 38 | <20 | <0.2 | 2 | 35 | 2.6 |
| 195-5709 | 31 | <5 | 39 | <200 | <5 | 9 | 180 | 900 | <2 | 13.4 | 53 | <5 | <50 | <20 | 5880 | <200 | <50 | 1.4 | 55 | <20 | <0.2 | 6 | 21 | 5.6 |
| 195-5710 | 59 | <5 | 28 | <200 | <5 | 8 | 130 | 1000 | <2 | 15.4 | 150 | <5 | <50 | <20 | 4290 | <200 | <50 | 0.9 | 57 | 29 | <0.2 | 5 | 46 | 10 |

# Activation Laboratories Ltd. Work Order: 10624 Report: 10515

| Sample description | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5613 | <4 | 688 | 150 | 310 | 130 | 22 | 7.5 | 4 | 19.7 | 3.3 | 55.00 |
| 195-5614 | <4 | 1940 | 90 | 190 | 94 | 17 | 6.3 | 3 | 14.2 | 2.2 | 58.00 |
| 195-5615 | 15 | 1560 | 83 | 180 | 83 | 14 | 5.8 | 2 | 10.2 | 1.9 | 54.00 |
| 195-5616 | <4 | 827 | 93 | 220 | 91 | 19 | 6.7 | 3 | 12.4 | 2.0 | 53.00 |
| 195-5617 | 870 | 395 | 35 | 77 | 51 | 8.6 | 3.0 | 2 | 7.8 | 1.5 | 30.00 |
| 195-5618 | <4 | 1320 | 100 | 230 | 130 | 20 | 7.6 | 3 | 12.8 | 2.4 | 45.00 |
| 195-5619 | <4 | 225 | 140 | 300 | 130 | 25 | 8.1 | 4 | 13.6 | 2.2 | 56.00 |
| 195-5620 | <4 | <200 | 170 | 360 | 180 | 29 | 10.2 | 4 | 15.8 | 2.8 | 45.00 |
| 195-5621 | 19 | 270 | 180 | 390 | 180 | 32 | 10.9 | <2 | 17.1 | 3.1 | 53.00 |
| 195-5622 | <4 | <200 | 180 | 400 | 200 | 32 | 10.5 | 5 | 16.8 | 2.6 | 51.00 |
| 195-5623 | <4 | 247 | 150 | 320 | 170 | 25 | 8.9 | 5 | 15.8 | 2.4 | 55.00 |
| 195-5624 | <4 | 332 | 180 | 350 | 180 | 29 | 11.1 | 5 | 15.8 | 2.9 | 54.00 |
| 195-5625 | <4 | 345 | 180 | 400 | 170 | 35 | 11.9 | 6 | 19.1 | 3.0 | 27.00 |
| 195-5626 | <4 | 559 | 130 | 280 | 120 | 22 | 7.8 | 4 | 15.2 | 2.4 | 52.00 |
| 195-5627 | <4 | 552 | 120 | 280 | 120 | 24 | 8.4 | 4 | 15.6 | 2.8 | 35.00 |
| 195-5628 | 16 | 590 | 77 | 180 | 84 | 18 | 6.6 | <2 | 13.6 | 1.8 | 12.00 |
| 195-5629 | 180 | 738 | 130 | 300 | 160 | 24 | 8.2 | 3 | 15.6 | 2.5 | 39.00 |
| 195-5630 | <4 | 535 | 110 | 240 | 91 | 19 | 7.1 | 4 | 14.8 | 2.5 | 32.00 |
| 195-5631 | <4 | <200 | 110 | 240 | 93 | 20 | 7.2 | 3 | 15.2 | 2.7 | 31.00 |
| 195-5632 | <4 | 810 | 87 | 220 | 110 | 19 | 7.2 | 3 | 16.6 | 2.3 | 4.000 |
| 195-5633 | 28 | 676 | 100 | 210 | 94 | 18 | 6.2 | 3 | 13.5 | 2.3 | 34.00 |
| 195-5634 | 30 | 498 | 88 | 190 | 81 | 15 | 5.8 | 4 | 12.4 | 2.0 | 41.00 |
| 195-5635 | 26 | 517 | 110 | 240 | 120 | 21 | 7.9 | 3 | 14.8 | 2.7 | 28.00 |
| 195-5636 | 38 | 500 | 88 | 180 | 80 | 15 | 5.6 | <2 | 12.0 | 2.1 | 53.00 |
| 195-5637 | <4 | 684 | 85 | 200 | 89 | 17 | 6.4 | 2 | 13.9 | 2.3 | 28.00 |
| 195-5638 | 14 | 240 | 120 | 260 | 110 | 25 | 8.5 | <2 | 18.7 | 2.5 | 10.00 |
| 195-5639 | <4 | 285 | 48 | 100 | 60 | 8.5 | 3.6 | <2 | 9.4 | 1.4 | 55.00 |
| 195-5640 | <4 | 576 | 68 | 130 | 62 | 12 | 4.9 | 3 | 12.0 | 2.1 | 50.00 |
| 195-5641 | 140 | 824 | 89 | 190 | 95 | 15 | 5.7 | 3 | 10.0 | 1.9 | 53.00 |
| 195-5642 | 460 | 700 | 67 | 150 | 65 | 14 | 5.1 | <2 | 8.8 | 1.2 | 10.00 |
| 195-5643 | <4 | 249 | 63 | 130 | 44 | 11 | 4.5 | 2 | 11.5 | 1.7 | 48.00 |
| 195-5644 | 23 | 210 | 120 | 260 | 120 | 24 | 8.4 | <2 | 21.0 | 2.6 | 7.000 |
| 195-5645 | 29 | 473 | 120 | 250 | 100 | 19 | 7.3 | <2 | 15.8 | 2.8 | 46.00 |
| 195-5646 | 29 | 400 | 140 | 320 | 160 | 28 | 9.3 | <2 | 19.5 | 2.8 | 5.000 |
| 195-5647 | <4 | 380 | 70 | 170 | 76 | 13 | 4.7 | <2 | 10.2 | 1.3 | 4.000 |
| 195-5648 | <4 | 292 | 100 | 210 | 88 | 17 | 6.4 | 4 | 13.4 | 2.4 | 56.00 |
| 195-5649 | 15 | 210 | 100 | 210 | 100 | 17 | 6.7 | 2 | 12.6 | 2.4 | 51.00 |
| 195-5650 | <4 | 379 | 130 | 260 | 120 | 21 | 8.0 | 4 | 16.6 | 2.8 | 54.00 |
| 195-5651 | 21 | 285 | 120 | 260 | 120 | 20 | 7.3 | 5 | 16.1 | 2.8 | 56.00 |
| 195-5681 | <4 | 360 | 150 | 310 | 100 | 20 | 6.8 | 4 | 19.5 | 3.8 | 34.00 |
| 195-5682 | <4 | 280 | 94 | 200 | 83 | 17 | 6.5 | 3 | 12.9 | 2.1 | 58.00 |
| 195-5683 | 28 | 244 | 93 | 200 | 87 | 17 | 6.9 | <2 | 12.3 | 1.9 | 60.00 |
| 195-5684 | 99 | 283 | 99 | 220 | 100 | 18 | 7.4 | 3 | 12.5 | 2.2 | 56.00 |
| 195-5685 | 63 | 220 | 100 | 200 | 100 | 18 | 7.2 | <2 | 12.6 | 2.4 | 59.00 |
| 195-5686 | 51 | 382 | 96 | 210 | 110 | 17 | 6.8 | <2 | 12.5 | 2.2 | 47.00 |

# Activation Laboratories Ltd. Work Order: 10624 Report: 10515

| Sample description | W PPM | ZN PPM | LA PPM | CE PPM | ND PPM | SM PPM | EU PPM | TB PPM | YB PPM | LU PPM | Mass g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 195-5687 | 38 | 313 | 110 | 230 | 110 | 20 | 8.2 | 5 | 15.8 | 2.6 | 61.00 |
| 195-5688 | 31 | 359 | 94 | 200 | 110 | 17 | 6.5 | 3 | 11.5 | 2.3 | 60.00 |
| 195-5689 | <4 | 371 | 110 | 220 | 84 | 18 | 6.6 | 4 | 11.7 | 2.0 | 60.00 |
| 195-5690 | 200 | 237 | 120 | 260 | 120 | 22 | 7.7 | 4 | 13.4 | 2.3 | 59.00 |
| 195-5691 | 640 | 380 | 120 | 280 | 140 | 23 | 7.4 | <2 | 15.7 | 2.1 | 7.000 |
| 195-5692,3,4. | 250 | <200 | 38 | 94 | 58 | 7.6 | 1.9 | <2 | 11.1 | 2.0 | 3.000 |
| 195-5695 | <4 | 276 | 130 | 280 | 83 | 20 | 7.5 | 4 | 16.1 | 2.8 | 32.00 |
| 195-5696 | <4 | 220 | 62 | 130 | 44 | 11 | 4.1 | 2 | 10.2 | 1.8 | 50.00 |
| 195-5697 | 110 | 275 | 35 | 75 | 18 | 7.4 | 3.7 | <2 | 8.2 | 1.3 | 60.00 |
| 195-5698 | 130 | <200 | 50 | 110 | 31 | 9.3 | 3.8 | <2 | 9.0 | 1.5 | 51.00 |
| 195-5699 | 1700 | 360 | 150 | 330 | 160 | 26 | 8.4 | 4 | 22.3 | 3.0 | 6.000 |
| 195-5700 | 140 | 361 | 190 | 410 | 160 | 29 | 9.3 | 7 | 32.7 | 5.9 | 19.00 |
| 195-5701 | 35 | 380 | 72 | 171 | 76 | 12 | 3.7 | 2 | 12.6 | 2.0 | 2.500 |
| 195-5702 | 240 | <200 | 13 | 33 | 15 | 2.6 | 0.9 | <2 | 2.2 | 0.4 | 19.00 |
| 195-5703 | <4 | 500 | 190 | 420 | 130 | 27 | 8.8 | 6 | 34.3 | 5.8 | 21.00 |
| 195-5704 | <4 | 276 | 170 | 450 | 180 | 33 | 8.6 | 5 | 27.2 | 4.2 | 16.00 |
| 195-5705 | <4 | 392 | 190 | 400 | 160 | 27 | 7.7 | 6 | 26.9 | 4.5 | 19.00 |
| 195-5706 | 49 | <200 | 180 | 360 | 130 | 23 | 6.7 | 5 | 19.0 | 2.7 | 7.000 |
| 195-5707 | 59 | 260 | 158 | 352 | 159 | 24 | 6.9 | 4 | 10.8 | 1.8 | 2.000 |
| 195-5708 | 38 | 250 | 110 | 230 | 83 | 15 | 4.5 | <2 | 11.4 | 1.8 | 8.000 |
| 195-5709 | <4 | 378 | 140 | 310 | 150 | 25 | 8.5 | 3 | 15.0 | 2.5 | 41.00 |
| 195-5710 | 15 | 269 | 160 | 320 | 140 | 22 | 6.8 | 5 | 21.7 | 3.8 | 41.00 |

| SAMPLE | Ag | Cu | Ni | Zn | Cd | Mn | Pb |
|---|---|---|---|---|---|---|---|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 195-5613 | 1.0 | 1610 | 448 | 427 | 2.6 | 378 | 125 |
| 195-5614 | 1.6 | 1160 | 992 | 1520 | 8.3 | 337 | 268 |
| 195-5615 | 1.5 | 673 | 664 | 1260 | 6.8 | 399 | 228 |
| 195-5616 | 0.9 | 581 | 458 | 693 | 4.3 | 365 | 172 |
| 195-5617 | 0.6 | 1610 | 147 | 157 | 1.1 | 1010 | 28 |
| 195-5618 | 0.8 | 1050 | 585 | 871 | 6.6 | 625 | 53 |
| 195-5619 | 0.5 | 523 | 270 | 206 | 1.3 | 282 | 44 |
| 195-5620 | 0.2 | 167 | 99 | 66 | 0.8 | 551 | 16 |
| 195-5621 | 0.2 | 167 | 113 | 93 | 1.4 | 242 | 19 |
| 195-5622 | 0.4 | 284 | 136 | 102 | 1.4 | 250 | 24 |
| 195-5623 | 0.2 | 220 | 126 | 78 | 1.0 | 237 | 21 |
| 195-5624 | 0.3 | 203 | 135 | 119 | 1.1 | 235 | 20 |
| 195-5625 | 0.2 | 246 | 125 | 117 | 1.4 | 619 | 27 |
| 195-5626 | 0.6 | 615 | 312 | 297 | 2.6 | 324 | 24 |
| 195-5627 | 0.5 | 1250 | 221 | 289 | 2.4 | 876 | 26 |
| 195-5628 | 0.5 | 671 | 220 | 387 | 2.7 | 1570 | 23 |
| 195-5629 | 0.5 | 913 | 559 | 384 | 2.6 | 738 | 32 |
| 195-5630 | 0.6 | 783 | 173 | 101 | 0.6 | 565 | 47 |
| 195-5631 | 0.8 | 851 | 187 | 113 | 1.2 | 691 | 30 |
| 195-5632 | 1.8 | 3300 | 225 | 401 | 3.5 | 611 | 101 |
| 195-5633 | 1.1 | 1050 | 184 | 268 | 1.4 | 490 | 66 |
| 195-5634 | 0.8 | 1060 | 523 | 180 | 2.3 | 617 | 40 |
| 195-5635 | 0.9 | 1290 | 164 | 154 | 2.2 | 490 | 63 |
| 195-5636 | 1.8 | 1430 | 253 | 217 | 2.0 | 451 | 109 |
| 195-5637 | 1.3 | 1200 | 127 | 130 | 1.6 | 548 | 37 |
| 195-5638 | 0.4 | 624 | 193 | 119 | 1.3 | 771 | 19 |
| 195-5639 | -0.2 | 417 | 132 | 71 | 1.1 | 624 | 15 |
| 195-5640 | 1.7 | 1770 | 236 | 303 | 2.4 | 529 | 45 |
| 195-5641 | 1.0 | 1100 | 724 | 696 | 4.2 | 360 | 148 |
| 195-5642 | 0.9 | 651 | 304 | 386 | 2.3 | 506 | 68 |
| 195-5643 | 0.5 | 1100 | 209 | 95 | 1.1 | 590 | 16 |
| 195-5644 | -0.2 | 1290 | 75 | 46 | -0.5 | 949 | 5 |
| 195-5645 | 0.3 | 820 | 153 | 131 | 0.9 | 580 | 27 |
| 195-5646 | 0.5 | 669 | 163 | 100 | 1.2 | 712 | 18 |
| 195-5647 | -0.2 | 2130 | 234 | 70 | 1.6 | 472 | 16 |
| 195-5648 | 0.4 | 659 | 147 | 119 | 1.3 | 225 | 29 |
| 195-5649 | 0.3 | 678 | 160 | 112 | 1.2 | 659 | 20 |
| 195-5650 | 0.4 | 691 | 138 | 109 | 1.3 | 229 | 20 |
| 195-5651 | 0.4 | 710 | 155 | 113 | 1.3 | 289 | 26 |
| 195-5681 | 0.5 | 842 | 134 | 124 | 0.9 | 737 | 46 |
| 195-5682 | 0.5 | 863 | 120 | 130 | 1.2 | 277 | 30 |
| 195-5683 | 0.3 | 758 | 108 | 113 | 1.2 | 238 | 25 |
| 195-5684 | 0.2 | 672 | 102 | 125 | 1.3 | 262 | 21 |
| 195-5685 | 0.3 | 760 | 117 | 129 | 1.4 | 231 | 26 |
| 195-5686 | 0.3 | 871 | 127 | 162 | 1.9 | 521 | 24 |

Negative values indicate less than the detection limit

| SAMPLE | Ag | Cu | Ni | Zn | Cd | Mn | Pb |
|---|---|---|---|---|---|---|---|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 195-5687 | 0.4 | 980 | 127 | 135 | 1.7 | 222 | 16 |
| 195-5688 | 0.3 | 611 | 114 | 115 | 1.2 | 227 | 14 |
| 195-5689 | 0.5 | 604 | 112 | 112 | 1.7 | 205 | 17 |
| 195-5690 | 0.3 | 264 | 122 | 97 | 1.3 | 256 | 25 |
| 195-5691 | 0.6 | 831 | 158 | 105 | 2.2 | 739 | 22 |
| 195-5692/3,4 . | 0.8 | 8710 | 319 | 156 | 2.3 | 1340 | 68 |
| 195-5695 | 0.4 | 646 | 124 | 128 | 0.9 | 523 | 50 |
| 195-5696 | 0.2 | 827 | 114 | 63 | 0.8 | 362 | 29 |
| 195-5697 | 0.2 | 887 | 97 | 113 | 0.7 | 223 | 15 |
| 195-5698 | 0.2 | 519 | 103 | 74 | 1.0 | 279 | 8 |
| 195-5699 | -0.2 | 611 | 87 | 111 | 2.1 | 519 | 47 |
| 195-5700 | 0.8 | 681 | 119 | 219 | 1.6 | 426 | 73 |
| 195-5701 | 0.8 | 1090 | 144 | 180 | 2.5 | 488 | 88 |
| 195-5702 | -0.2 | 59 | 37 | 25 | 1.2 | 165 | 74 |
| 195-5703 | 0.8 | 1110 | 175 | 235 | 1.2 | 387 | 86 |
| 195-5704 | -0.2 | 29 | 26 | 22 | 0.9 | 601 | 12 |
| 195-5705 | -0.2 | 111 | 59 | 40 | 1.5 | 584 | 24 |
| 195-5706 | 0.8 | 349 | 162 | 102 | 2.8 | 982 | 55 |
| 195-5707 | 1.8 | 1200 | 271 | 94 | 3.0 | 761 | 88 |
| 195-5708 | 1.6 | 578 | 218 | 176 | 2.6 | 750 | 80 |
| 195-5709 | 0.4 | 473 | 109 | 101 | 1.0 | 494 | 22 |
| 195-5710 | 0.4 | 466 | 122 | 108 | 1.6 | 482 | 36 |

Negative values indicate less than the detection limit