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# Report on the 2013 Sunday Lake Diamond Drilling Program

*Transition Metals Corp. and Impala Platinum Holdings Limited*

Written By:
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August 20, 2015

# Contents

## Introduction

The Sunday Lake Project is a PGM-Cu-Ni exploration project located 25km north of Thunder Bay Ontario within the Midcontinent Rift (MCR). The project is a joint venture agreement between Impala Platinum (Implats) and Transition Metals Corp. (TMC). Initial exploration work in 2013 consisted of line cutting, geological mapping and ground magnetic, electromagnetic and gravity surveys. This data was used to design a 6 hole 2,544.3m diamond drilling program which is reported herein. Drilling was completed between October 21st and December 4th, 2013.

## Location

The Sunday Lake Project is located approximately 25km north of the City of Thunder Bay, Ontario. It is comprised of staked mining claims, optioned mining claims, optioned patents and leased patents which cover 2612ha (Figure 1). Access to the Sunday Lake property is attained by travelling north on Hwy. 527 from Thunder Bay, Ontario for 25km to Barnum Lake road. Travel west on Barnum Lake road for 7.5km to an unmarked, unmaintained logging road known as Ton Lake Road. The Ton Lake Road is followed west for another 7.5km to access the property.

## Land Tenure

The Sunday Lake property is comprised of 11 claims totalling 98 units and 3 privately owned patents (19889, 19890, 6056). See Figure 2 and 4.

**Table 1: Summary of the Sunday Lake claims.**

| Claim Number | Township | Recording Date | Claim Due Date | Units | Work Required | Total Applied | Total Reserve |
|---|---|---|---|---|---|---|---|
| **4210856** | JACQUES | 2006-Aug-18 | 2015-Aug-18 | 8 | $3,200 | $22,400 | $0 |
| **4210857** | JACQUES | 2006-Aug-18 | 2015-Aug-18 | 6 | $2,400 | $16,800 | $4,764 |
| **4210858** | JACQUES | 2006-Aug-18 | 2015-Aug-18 | 10 | $4,000 | $28,000 | $36,093 |
| **4230099** | JACQUES | 2008-Feb-21 | 2016-Feb-21 | 12 | $4,800 | $28,800 | $0 |
| **4247181** | JACQUES | 2010-Oct-18 | 2015-Oct-18 | 2 | $800 | $2,400 | $0 |
| **4274640** | JACQUES | 2013-May-13 | 2016-May-13 | 10 | $4,000 | $4,000 | $0 |
| **3009143** | ONION LAKE AREA | 2005-Feb-11 | 2017-Feb-11 | 8 | $3,200 | $32,000 | $39,715 |
| **4210859** | ONION LAKE AREA | 2006-Aug-18 | 2015-Aug-18 | 12 | $4,800 | $33,600 | $6,679 |
| **4210860** | ONION LAKE AREA | 2006-Aug-18 | 2015-Aug-18 | 8 | $3,200 | $22,400 | $0 |
| **4210861** | ONION LAKE AREA | 2006-Aug-18 | 2015-Aug-18 | 8 | $3,200 | $22,400 | $0 |
| **4274641** | ONION LAKE AREA | 2013-May-13 | 2016-May-13 | 14 | $5,600 | $5,600 | $0 |
| | | | | 98 | | | |

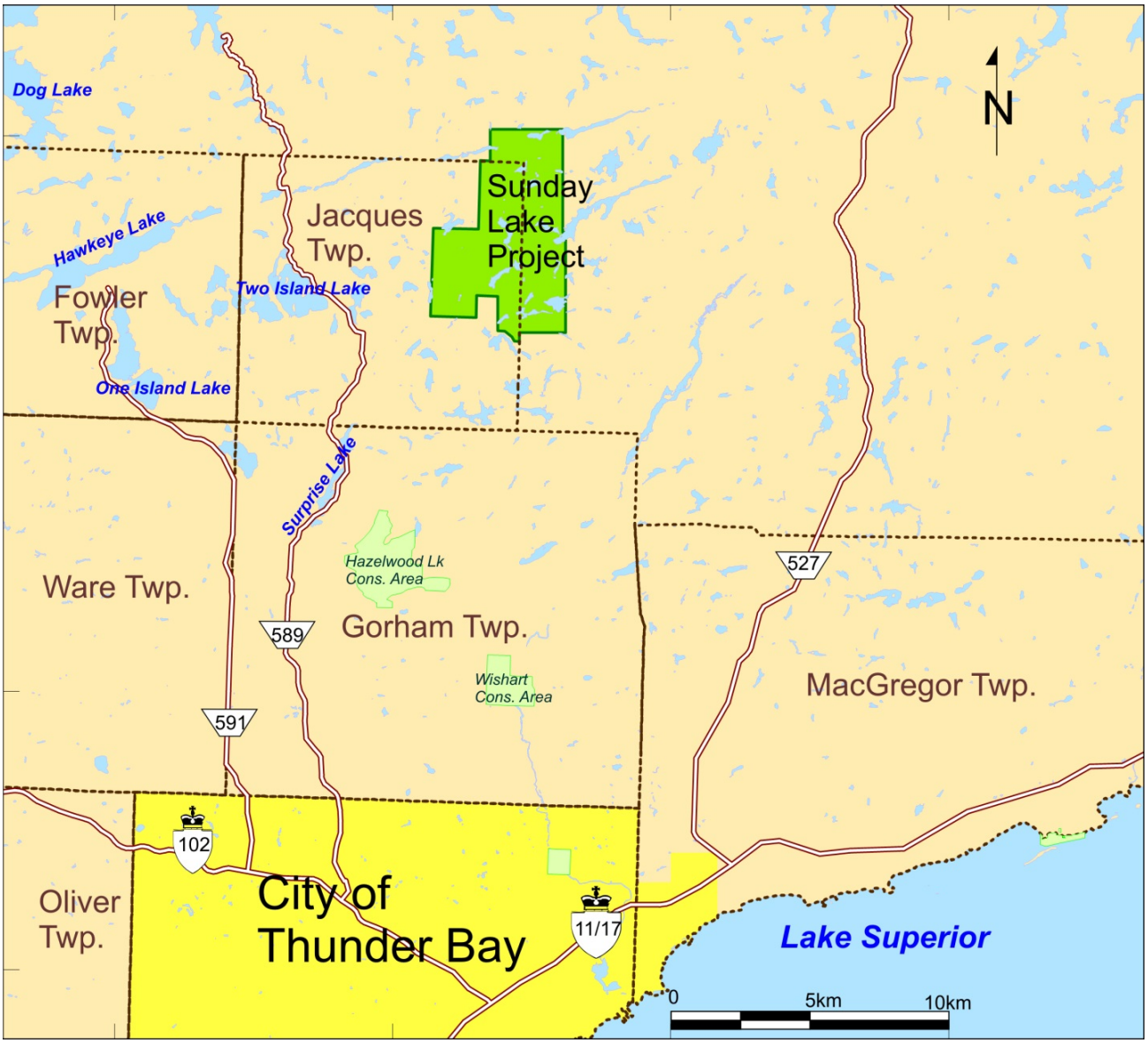



**Figure 1: Sunday Lake Project Location Map**

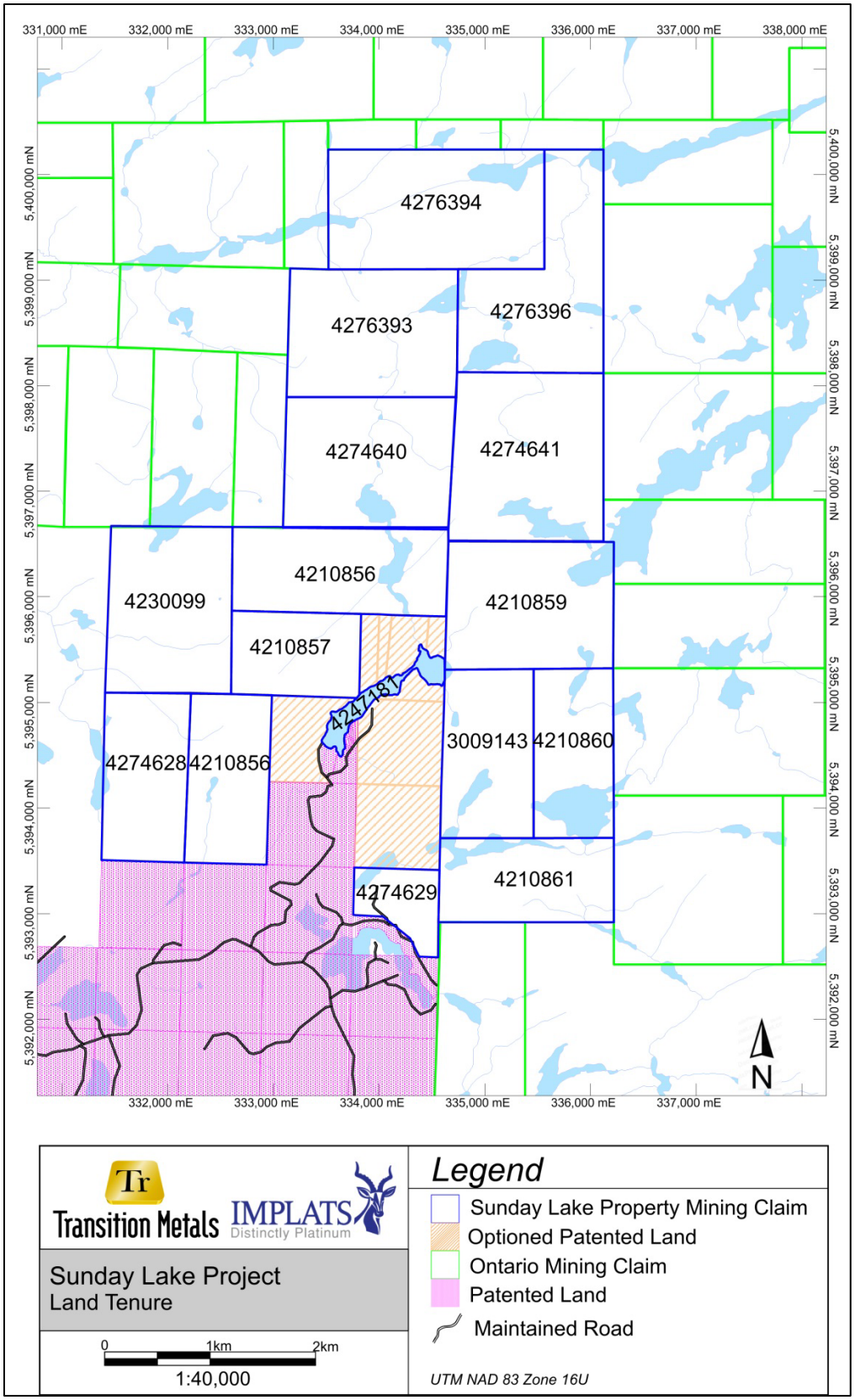



**Figure 2: Sunday Lake Land Tenure with claim numbers.**

## Regional Geology

The Sunday Lake Intrusion is a Proterozoic aged mafic-ultramafic intrusion associated with the ~1.1 Ga MCR. The MCR is believed to be an ancient failed rift which is expressed as a 2,500km long arcuate shaped package of volcanic, sedimentary and intrusive which extends from Kansas, through Lake Superior and terminating at the Grenville front in Northern Michigan (Figure 3). Exploration of MCR related intrusions has persisted for decades within the Duluth Complex, the Great Lakes Nickel Deposit and the Coldwell Complex (Marathon deposit) focusing largely on the base metal potential of these large tonnage, low grade deposits. As the geological understanding of the MCR became better understood, researchers recognized the potential for world class Ni-Cu-PGM deposits similar to those hosted in the analogous Norilsk mining camp of Russia. This information, coupled with rising precious metal prices in the late 1990's – early 2000's spurred a flurry of exploration activity in the region. This activity ultimately led to new discoveries in Michigan (Eagle Mine), Minnesota (Tamarack Tamarack deposit) and in Ontario (Thunder Bay North Deposit).

Unlike the large tonnage, low grade deposits previously discovered, these new discoveries boasted high grade Ni-Cu dominated mineralization at Eagle and Tamarack, and high grade PGM dominated mineralization at Thunder Bay North. Mineralization is hosted within irregularly shaped, primitive, ultramafic to mafic intrusions associated with the earliest stages of rift development. As such it was recognized that these 'early-rift' type intrusions were highly prospective for magmatic PGM-Cu-Ni mineralization.

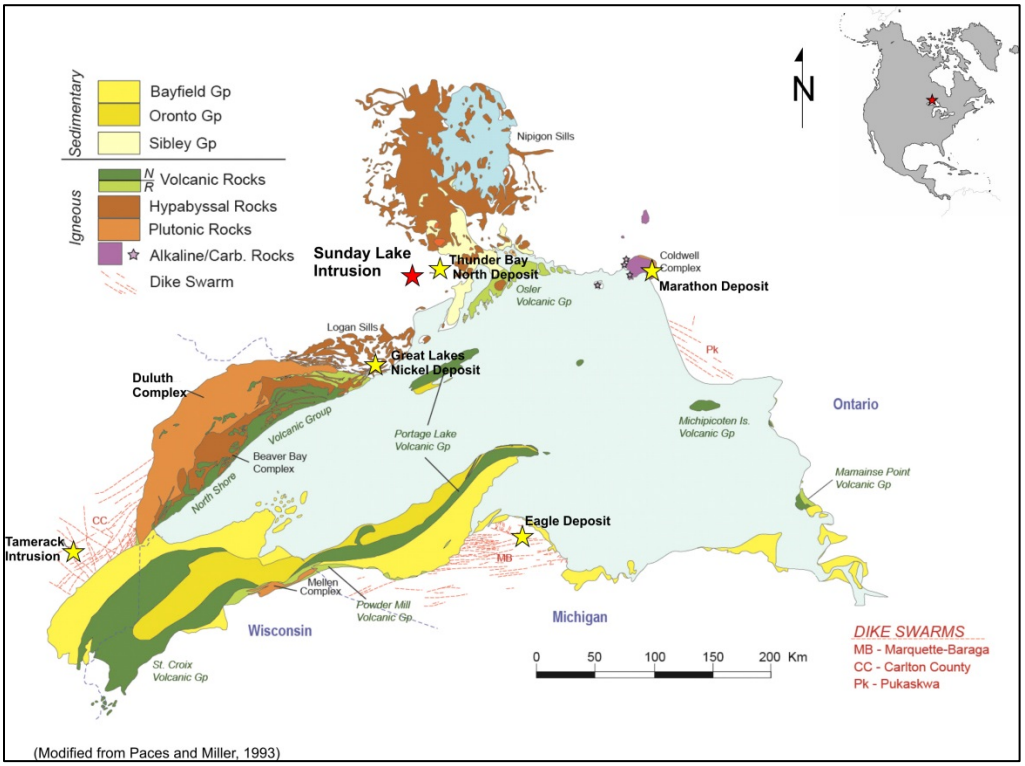



**Figure 3: Geology of the Midcontinent Rift with notable mineral deposits and intrusions.**

## Summary of Work

A six hole, 2544.3m diamond drilling program was completed between October 21st and December 4th 2013, to test geophysical and geological targets generated as a result of exploration activities in 2013. Forthright Drilling of Timiskaming Shores, Ontario was awarded the drilling contract. Drill hole location details are summarized in Table 1, and displayed in Figure 4. Results of the diamond drilling program are summarized below with drill logs and cross sections provided in Appendix A and B. A total of 410 samples were submitted for assay and whole rock geochemistry. Assay highlights for the 2013 drill program are included in Table 2, and complete results in Appendix C.

**Table 1: 2013 diamond drill hole details**

| Drill Hole | Easting | Northing | Azimuth | Dip | Depth (m) |
|---|---|---|---|---|---|
| SL-13-001 | 334276 | 5396165 | 305 | -60 | 248.5 |
| SL-13-002 | 334445 | 5395645 | 170 | -70 | 529 |
| SL-13-003 | 334406 | 5395755 | 278 | -60 | 356 |
| SL-13-004 | 334206 | 5395617 | 180 | -80 | 509.5 |
| SL-13-005 | 334073 | 5395768 | 135 | -85 | 239 |
| SL-13-006 | 334702 | 5395503 | 230 | -75 | 662.3 |
| Total | | | | | 2544.3m |

**Table 2: Assay highlights from 2013 diamond drilling program**

| Drill Hole | From (m) | To (m) | Length (m) | Pt (g/t) | Pd (g/t) | Au (g/t) | PGMs (Pt+Pd+Au) (g/t) | Cu (%) | Ni (%) | S (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-13-002 | 369.4 | 371.8 | 2.4 | 0.87 | 0.46 | 0.03 | 1.36 | 0.03 | 0.04 | 0.72 |
| and | 395.0 | 415.2 | 20.2 | 2.11 | 0.95 | 0.16 | 3.22 | 0.26 | 0.11 | 1.22 |
| including | 410.0 | 413.0 | 3.0 | 3.41 | 1.68 | 0.28 | 5.37 | 0.45 | 0.13 | 1.23 |
| SL-13-003 | 299.0 | 308.0 | 9.0 | 0.91 | 0.74 | 0.08 | 1.73 | 0.44 | 0.13 | 3.05 |
| including | 302.0 | 303.0 | 1.0 | 1.73 | 1.43 | 0.15 | 3.31 | 0.86 | 0.24 | 3.05 |
| SL-13-005 | 164.6 | 170.6 | 6.0 | 0.4 | 0.31 | 0.04 | 0.75 | 0.13 | 0.04 | 0.59 |
| including | 167.6 | 168.6 | 1.0 | 0.66 | 0.59 | 0.09 | 1.34 | 0.31 | 0.07 | 0.97 |
| SL-13-006 | 567.0 | 575.0 | 8.0 | 1.23 | 0.72 | 0.09 | 2.04 | 0.20 | 0.08 | 0.48 |
| and | 595.7 | 602.4 | 6.7 | 0.87 | 0.68 | 0.05 | 1.60 | 0.32 | 0.17 | 2.36 |
| including | 602 | 602.4 | 0.4 | 3.94 | 3.82 | 0.06 | 7.82 | 1.98 | 1.10 | 18.3 |
| and | 602.4 | 612.1 | 9.7 | 0.75 | 0.49 | 0.06 | 1.30 | 0.21 | 0.04 | 0.95 |
| including | 607.4 | 609.1 | 1.7 | 2.84 | 1.74 | 0.25 | 4.83 | 0.77 | 0.05 | 1.11 |

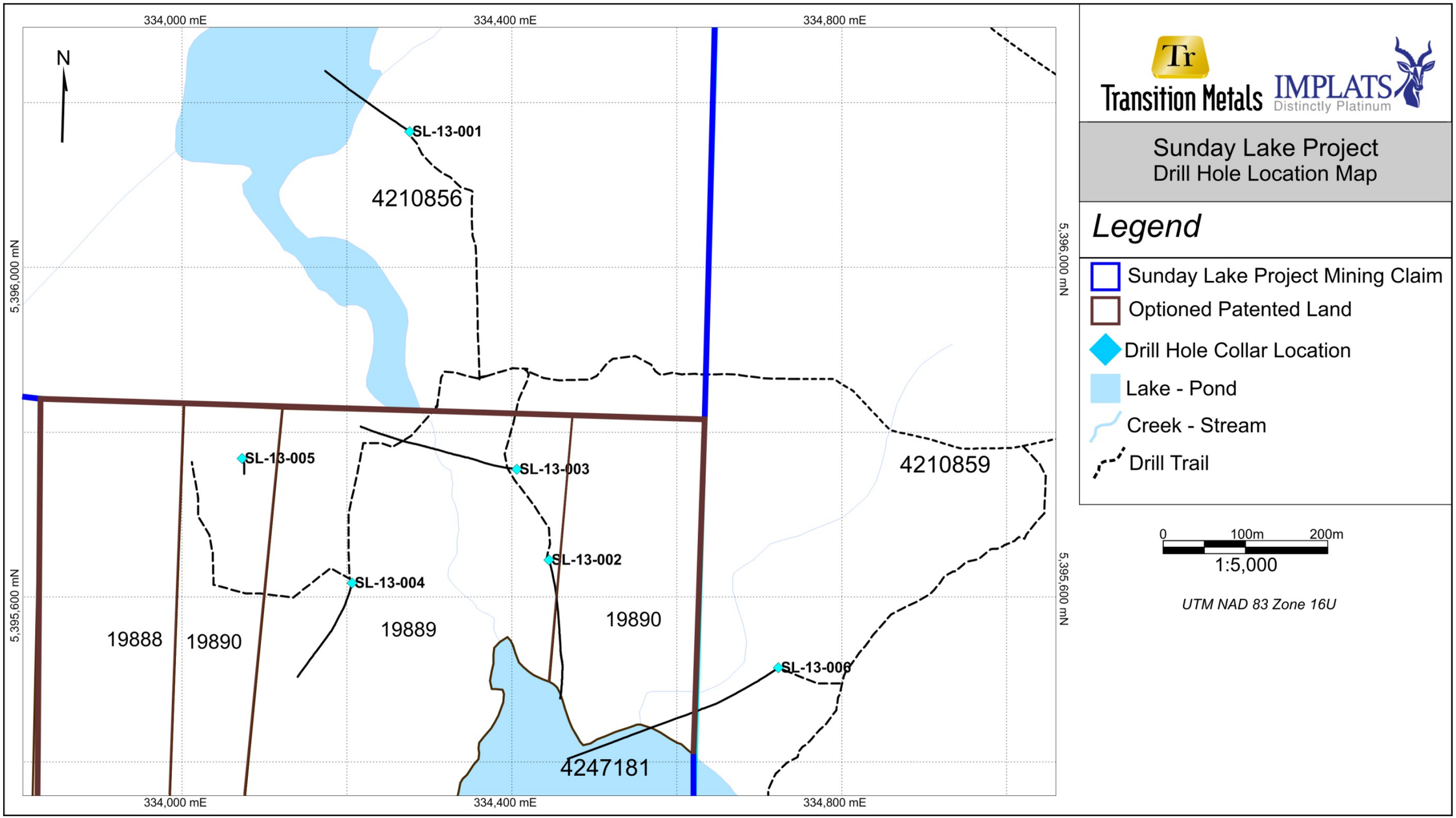



**Figure 4: Diamond Drill Hole Locations**

## Summary Logs

**SL-13-001**

Targeted the ovate shaped reversely polarized magnetic anomaly observed on lines 6370, 6270 and 6170. Due to the presence of a pond the hole was setup to the east of the anomaly and drilled at an angle. The drill hole intercepted interbanded metasediments and granodiorites throughout the majority of the hole. A series of 8 mafic dykes, ranging from 0.1-1.2m wide were encountered between 60.7 and 121.2m which have been shown to be geochemically related to the Sunday Lake Intrusion. No PGE mineralization was encountered.

**SL-13-002**

Targeted the interface between positive and negative magnetic signatures at the north end of the Sunday Lake anomaly. The hole was collared in metasedimentary country rocks and encountered a complex breccia zone from 211.6-362.5m. The breccia is strongly altered, with zonation of alteration minerals including albite, sericite, k-feldspar, hematite, chlorite and pyrite. Notably the breccia becomes more strongly pyritic as the contact with the intrusion is approached. From 362.5-480.6m the Sunday Lake Intrusion is encountered. An upper breccia zone with up to 1.72 g/t PGM is directly below the hanging wall contact persisting until 378.9m. This unit is followed by relatively barren fine grained gabbro until 393.3m where another breccia zone is observed until 398.9m. From 398.9-415.2m a distinct pyroxene cumulate melagabbronorite to pyroxenite unit with 1-3% fine grained chalcopyrite and pyrite is intercepted. This unit hosts the majority of a 20.2m intersection grading 3.22g/t PGM. The base of this unit is marked by a vari-textured hornblende gabbro with 1-3% coarse grained blebby cpy+po. Fine to medium grained, oikocrystic gabbro is encountered from 415.2 to 480.6. An internal contact at 438.5m is associated with another zone of anomalous PGM mineralization and disseminated py-po-cpy mineralization grading 220ppb PGM from 438.5-449m. The lower contact with brecciated metasedimentary country rocks shows no chilled margin and contains anomalous PGM (up to 278ppm). The footwall country rocks remain strongly hematite altered until the end of the hole at 529m.

**SL-13-003**

Targeted the isolated reversely polarized magnetic anomaly outlined on lines 5870 and 5770 as well as a modelled gravity anomaly. The hole collared in metasedimentary rocks. The rocks exhibit intervals of broken core and abundant fracturing from 89m downwards. Six narrow gabbro units are encountered from 119.6-156.4 with abundant broken core separating them. Chilled gabbro is observed to form a matrix around broken country rock clasts. No mineralization is associated with this unit. From 156.4-3 to 212.2m the rock is comprised of fractured and hematite altered metasediments and granite. From 212.2-307.8m the Sunday Lake Intrusion is encountered. An upper sequence of hematized and sausseritized plagioclase cumulate gabbro-leucogabbro is followed by a lower gabbro to melagabbronorite from 295-307.8m. This lower unit contains 1-10% blebby cpy-po and a 2cm zone of massive py+po at the basal contact. Assays returned a 9m wide mineralized zone grading 1.73 g/t PGM from 299.0-308.0m. The hole proceeded to 356m encountering granitic and metasedimentary country rocks.

**SL-13-004**

Targeted the positive magnetic anomaly at the northern contact of the Sunday Lake Intrusion approximately 240m west of hole SL-13-002. The hole was designed to again intersect the northern contact of the intrusion, hoping to extend the mineralized zone in SL-13-002 further west. The hole was collared in metasedimentary rocks and minor tonalite dykes until 255.0m. From 255.0 to 292m a series of 7 narrow mafic dykes were intersected including one from 261.7-262.6 which contained abundant sub-angular quartz clasts, similar to the breccia observed in SL-13-002. From 292-509.5m metasediments and minor tonalite dykes are encountered. Excessive hole deviation was noted as a reason for the hole missing its target.

**SL-13-005**

Targeted a positive magnetic lineament extending NW from the Sunday Lake Intrusion. RTEC hole 12SL0002 intersected 2.1m of mineralized gabbro grading 1.21g/t Pt+Pd along this same magnetic feature. Interbanded metasediments and massive granodiorite form the hanging wall from 0-117.7m followed by gabbro to melagabbronorite from 117.7 to 185.8m. Hematized gabbroic breccias are encountered at 117.7-119.4m and 153.8-154.8m surrounding hematite and epidote altered gabbro-leucogabbro. From 154.8-156.6 pyroxene cumulate melagabbronorite similar to those encountered in holes 002 and 003 is observed, however only anomalous PGM, up to 71ppb are present. Another gabbroic breccia follows, from 156.6 to 163.1m. Vari-textured hornblende gabbro with blebby cpy-po mineralization hosts an interval of PGM mineralization grading 0.75 g/t PGM from 164.6-170.6m. From 168.9-185.8m a lower gabbro unit is intersected with strong hematite and epidote alteration, rafts of country rock and anomalous PGM mineralization up to 0.52 g/t PGM from 181.5-182.5m. No chilled margin is observed at the lower contact with Quetico metasedimentary and granitic rocks.

**SL-13-006**

Targeted the down-dip extension of mineralization intersected in SL-13-002 along a gravity lineament believed to be associated with a fault zone. The hole was collared in metasediments which displays fracturing and minor carbonate and epidote alteration halos. Country rocks become progressively more fractured, brecciated and altered downhole until the contact with the Sunday Lake Intrusion at 407.8m. An upper gabbro to leucogabbro cap persists from 407.8 to 548.3m. The gabbro is red and green in colour due to hematite, k-feldspar and epidote alteration. At 548.3m a sharp contact is observed and a lower gabbroic unit is encountered. The lower gabbro fractionates downward, grading into an olivine melagabbro. Mineralized vari-textured hornblende gabbro is intersected from 566.9-571.2m, containing 1-3% coarse-grained blebby cpy-po. This rock hosts a zone of PGM mineralization grading 2.03g/t PGM from 567-575m. A narrow zone of peridotite is found at the base of the mineralized zone which diffusely grades back into an ophitic textured olivine gabbro to gabbronorite until 595.9m. A narrow interval of broken core separates this unit from the underlying olivine melagabbro to peridotite zone from 595.9-602.4m. This zone contains two distinct intervals of semi-massive sulfide mineralization (po-cpy) within isolated breccia zones. Overall the zone has a grade of 1.60g/t PGM, 0.32% Cu, and 0.17% Ni from 595.9-602.4m. From 602.4m the footwall is encountered, comprised of thermally altered metasediments which contain coarse grained blebby cpy-po as well as cpy rich stringers. This zone also carries PGM mineralization, grading 1.3g/t PGM over 9.7m from 602.4m. The hole was continued until 662.3m where it was terminated in metasediments.

## Conclusions

Exploration activities in 2013 significantly enhanced the understanding of the Sunday Lake Intrusion and its ability host a Ni-Cu-PGM deposit. The following can be concluded from work completed to date:

- The SLI is a mafic-ultramafic intrusion related to early-rift rocks of the Midcontinent Rift
- Drilling has outlined mineralized zones with >1g/t PGM up to 20m in thickness over a strike length of 800m between 150 and 500m below the surface.
- PGM mineralization is observed to occur in 3 environments, all containing sulfide minerals:
    - Gabbroic hosted, associated with blebby to disseminated cpy-po in gabbro, melagabbronorite and vari-textured hornblende gabbro.
    - Ultramafic hosted, associated blebby to semi-massive po-cpy within olivine melagabbro to peridotite.
    - Footwall hosted, associated with blebs and stringers of cpy+po in thermally altered footwall metasediments
- Mineralization in the SLI has high Pt:Pd ratios, typically >1:1.
- Sulfide mineralization has been shown to be proximal to a zone of brecciated country rocks and gabbroic breccias.
- The use of ground magnetic and gravity surveys in particular appear to be effective in targeting intrusive rocks of the SLI located peripheral to the main intrusion.
- The presence of highly conductive semi-massive sulfides in SL-13-006 shows that this mineralization should be amenable to the use of borehole EM to target extensions of this zone.
- The magnetic profile of the SLI may be in part attributed to the presence of magnetic hanging wall metasediments.

The SLI is a MCR related layered mafic-ultramafic intrusion that hosts ore grade PGM mineralization. The SLI may be up to 3.5km in diameter and has seen very little exploration across these extents. A follow up program is strongly recommended to outline the mineralized zones discovered to date.

## Signatures

**Steven Flank, H.BSc, G.I.T**

**124 Sherwood Drive**

**Thunder Bay, ON, Canada**

**P7B 6L1**

I, Steven Flank, hereby certify that:

1. I am employed as a Project Geologist for Transition Metals Corp. a publically traded junior mining company.

2. I have been granted the degree of Honours Bachelor of Science in Geology from Lakehead University (2011).

3. I have worked as an exploration geologist in Canada for over 4 years

4. I did personally conduct and co-supervise field programs on the Sunday Lake Property during the 2013 diamond drilling program reported herein.

Dated the 20th day of October, 2015

Steven Flank

**Grant Mourre, BSc, MSc, PGEO**

**19 Kristi Crt**

**Sudbury, ON, Canada**

**P3E 5R4**

I, Grant Mourre, hereby certify that:

1. I am employed as a Exploration Manager for Transition Metals Corp. a publically traded junior mining company.

2. I have worked as an exploration geologist in Canada for over 15 years

3. I did personally conduct and co-supervise field programs on the Sunday Lake Property during the 2013 diamond drilling program reported herein.

Dated the 20th day of October, 2015

Grant Mourre

# Appendix A: Diamond Drill Logs

# Detailed Log Report
# Hole Number SL-13-001

| Project | | Coordinates | | Collar | | | |
|---|---|---|---|---|---|---|---|
| **Project Name:** | SUNDAY LAKE | **Primary Coordinates Grid:** | UTM83-16 | **Collar Dip:** | -60.00 | **Collar Az:** | 300.00 |
| **Project Code:** | 23 | **North:** | 5,396,165.00 | **Length:** | 248.50 | | |
| **Location:** | SUNDAY LAKE | **East:** | 334,276.00 | **Hole Size:** | | | |
| **Start Date:** | Oct 21, 2013 | **Elev:** | 496.00 | **Hole Type:** | DD | | |
| **Completed Date:** | | **Destination Coordinates Grid:** | LL83 | **Casing:** | | | |
| **Contractor:** | | **North:** | 48.70 | **Collar Survey:** | N | **Plugged:** | N |
| **Core Storage:** | THUNDER BAY | **East:** | -89.25 | **Multishot Survey:** | N | **Pulse EM Survey:** | N |
| **Units:** | METRIC | **Elev:** | 496.00 | | | | |

## Detailed Lithology

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.50 | **CAS, Casing** | | | | | | | | | | | | |
| 0.50 | 24.15 | **IGRD, Granodiorite** | | | | | | | | | | | | |

WHITE-GREY, WEAKLY FOLIATED, GARNET BEARING GRANODIORITE. 40% QUARTZ, 30% PLAGIOCLASE, 20% BIOTITE, 10% K-FELDSPAR MINOR INTERVALS OF QUARTZ-ALBITE-MUSCOVITE PEGMATITE (DYKES?).

**Texture:**

**0.50 - 6.85: Medium Grained**

**0.50 - 6.85: Foliated**

WEAK DIRECTIONAL PREFFERED ORIENTATION OBSERVED IN BIOTITE

**7.40 - 7.40: Pegmatitic**

QUARTZ-ALBITE-MUSCOVITE PEGMATITE

**7.40 - 24.15: Foliated**

**24.15 - 24.15: Medium Grained**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24.15 | 25.60 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION. PYRITE OBSERVED ALONG FRACTURE SURFACE (39.6m)

**Texture:**

**24.15 - 25.60: Medium Grained**

**24.15 - 25.60: Foliated**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.60 | 38.75 | **IGRD, Granodiorite** | | | | | | | | | | | | |

WHITE-GREY, WEAKLY FOLIATED, GARNET BEARING GRANODIORITE. 40% QUARTZ, 30% PLAGIOCLASE, 20% BIOTITE, 10% K-FELDSPAR MINOR INTERVALS OF QUARTZ-ALBITE-ORTHOCLASE-MUSCOVITE PEGMATITE (DYKES?).

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**25.60 - 27.50: Medium Grained - Coarse Grained**

**25.60 - 27.50: Foliated**

**27.50 - 27.80: Pegmatitic**

QUARTZ-ALBITE-MUSCOVITE DYKE

**27.80 - 31.00: Foliated**

**27.80 - 31.00: Medium Grained**

38.75 40.25 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION.

**Mineralization:**

**39.60 - 39.60: Pyrite, Fracture Filling, 5%**

**Structure:**

**38.75 - 40.25: Foliation**

70 DTCA

**Texture:**

**38.75 - 40.25: Medium Grained**

**38.75 - 40.25: Foliated**

DEFINED BY BIOTITE ORIENTATION

40.25 53.50 **IGRD, Granodiorite**

WHITE-PINK-GREY, WEAKLY FOLIATED, GRANODIORITE. EUHEDRAL ORTHOCLASE OBSERVED IN SOME AREAS. 35% QUARTZ, 20% PLAGIOCLASE, 20% BIOTITE, 25% K-FELDSPAR MINOR INTERVALS OF QUARTZ-ALBITE-ORTHOCLASE-MUSCOVITE PEGMATITE (DYKES?).

**Texture:**

**40.25 - 53.00: Coarse Grained**

**53.00 - 53.50: Pegmatitic**

ORTHOCLASE, MUSCOVITE, QUARTZ, BIOTITE PEGMATITE

53.50 54.75 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION.

**Texture:**

**53.50 - 54.75: Medium Grained**

**53.50 - 54.75: Foliated**

54.75 55.00 **IGRD, Granodiorite**

WHITE-GREY INTERVAL OF GRANODIORITE AS BEFORE.

**Texture:**

**54.75 - 55.00: Coarse Grained**

55.00 55.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **55.00 - 55.50: Medium Grained** | | | | | | | | | | | | | | |
| **55.00 - 55.50: Foliated** | | | | | | | | | | | | | | |
| 55.50 | 57.45 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| WHITE-PINK-GREY, WEAKLY FOLIATED, GRANODIORITE. BOTTOM OF INTERVAL DOMINATED BY PEGMATITE. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **55.50 - 56.60: Coarse Grained Matrix** | | | | | | | | | | | | | | |
| **56.60 - 57.45: Pegmatitic** | | | | | | | | | | | | | | |
| QUARTZ-ALBITE-ORTHOCLASE PEGMATITE. BIOTITE AND MUSCOVITE PRESENT. | | | | | | | | | | | | | | |
| 57.45 | 57.70 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **57.45 - 57.70: Medium Grained** | | | | | | | | | | | | | | |
| **57.45 - 57.70: Foliated** | | | | | | | | | | | | | | |
| 57.70 | 57.95 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| WHITE, M.G MASSIVE GRANODIORITE. | | | | | | | | | | | | | | |
| 57.95 | 58.60 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **57.95 - 58.60: Medium Grained** | | | | | | | | | | | | | | |
| **57.95 - 58.60: Foliated** | | | | | | | | | | | | | | |
| 58.60 | 60.70 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| PINK-GREY GRANODIORITE. SLIGHTLY MORE ORTHOCLASE IN THIS INTERVAL COMPARED TO PREVIOUS INTERVALS. PEGMATITIC AT BOTTOM OF INTERVAL. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **58.60 - 59.70: Coarse Grained** | | | | | | | | | | | | | | |
| **59.70 - 60.70: Pegmatitic** | | | | | | | | | | | | | | |
| ALBITE-ORTHOCLASE-QUARTZ PEGMATITE WITH BIOTITE AND GARNET. | | | | | | | | | | | | | | |
| 60.70 | 61.40 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| PROTEROZOIC GABBRO DYKE. SHARP UPPER AND LOWER CONTACTS. ORBICULAR TEXTURE NOTED AT LOWER CONTACT (CHARACTERISTIC OF EARLY-RIFT TYPE DYKES). MODERATE FRACTURE FILLING CARBONATE ALTERATION. TRACE PYRITE ALONG FRACTURE SURFACES. | | | N500104 | 60.90 | 61.40 | 0.50 | 46.000 | 74.000 | 42.000 | 0.006 | 0.001 | 0.001 | 0.250 | 0.240 |
| **Structure:** | | | | | | | | | | | | | | |
| **60.70 - 60.70: Contact** | | | | | | | | | | | | | | |
| UPPER CONTACT 74 DTCA | | | | | | | | | | | | | | |
| **61.40 - 61.40: Contact** | | | | | | | | | | | | | | |
| LOWER CONTACT 78 DTCA | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**60.70 - 61.40: Fine Grained**

FINE GRAINED TO APHANITIC ALONG CONTACTS.

**60.70 - 61.40: Chilled Margin**

CHILLED MARGINS AT UPPER AND LOWER CONTACT.

61.40 61.65 **IGRD, Granodiorite**

QUARTZ-ALBITE-ORTHOCLASE PEGMATITE WIHT GARNET AND BIOTITE.

**Alteration:**

**61.40 - 61.65: Hematite, Veins, Weak**

VERY WEAK RED STAINING ALONG GRAIN BOUNDARIES

**Texture:**

**61.40 - 61.65: Pegmatitic**

61.65 63.35 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION.

**Structure:**

**61.65 - 63.35: Foliation**

48 dtca

**Texture:**

**61.65 - 63.35: Medium Grained**

**61.65 - 63.35: Foliated**

63.35 76.85 **IGRD, Granodiorite**

TOP OF INTERVAL DOMINATED BY QUARTZ-ALBITE-ORTHOCLASE PEGMATITE WITH BIOTITE AND MINOR PALE GREEN MICA. BOTTOM OF INTERVAL HAS C.G EQUIGRANULAR, WEAKLY FOLIATED GRANODIORITE AS BEFORE.

**Texture:**

**63.35 - 63.75: Coarse Grained**

**63.75 - 70.80: Pegmatitic**

**70.80 - 76.85: Coarse Grained**

76.85 79.35 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. QUARTZ-BIOTITE COMPOSITION.

**Texture:**

**76.85 - 79.35: Medium Grained**

**76.85 - 79.35: Foliated**

79.35 80.00 **IGD, Gabbroic dykes**

GREY, FINE GRAINED, STRONGLY MAGNETIC GABBRO DYKE. CONTACTS ARE SHARP, APPROXIMATELY 90 DTCA. WEAK HEMATITE STAINING IN CENTRE OF DYKE.

**Alteration:**

**79.35 - 80.00: Hematite, Pervasive, Weak**

WEAK HEMATITE STAINING IS STRONGEST IN THE CENTER OF THE DYKE.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Structure:**

**79.35 - 79.35: Contact**

85 DTCA

**80.00 - 80.00: Contact**

82 DTCA

**Texture:**

**79.35 - 80.00: Chilled Margin**

VERY THIN CHILLED MARGINS WITH 1-2mm LONG PLAGIOCLASE PHENOCRYSTS.

**79.35 - 80.00: Fine Grained - Medium Grained**

PYROXENE AND PLAGIOCLASE MATRIX WITH 1-2mm PLAGIOCLASE PHENOCRYSTS

**79.35 - 80.00: Porphyritic**

80.00 82.20 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. QUARTZ-BIOTITE COMPOSITION.

**Structure:**

**80.00 - 82.20: Foliation**

40 DTCA

**Texture:**

**80.00 - 82.20: Medium Grained**

**80.00 - 82.20: Foliated**

82.20 82.30 **IGD, Gabbroic dykes**

NARROW MAFIC DYKE WITH SHARP CONTACTS APPROX 75 DTCA. CONTACTS HAVE A NARROW BAND OF CHLORITE ALONG MARGIN. VISIBLE F.G. PLAGIOCLASE PHENOCRYTS OBSERVED.

**Structure:**

**82.20 - 82.20: Contact**

75 DTCA

**82.30 - 82.30: Contact**

75 DTCA

**Texture:**

**82.20 - 82.30: Chilled Margin**

**82.20 - 82.30: Fine Grained Matrix**

**82.20 - 82.30: Porphyritic**

FINE GRAINED PLAGIOCLASE PHENOCRYSTS

82.30 82.45 **IGRD, Granodiorite**

PINK-WHITE C.G GRANODIORITE AS ABOVE.

**Texture:**

**82.30 - 82.45: Coarse Grained**

82.45 88.95 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. QUARTZ-BIOTITE COMPOSITION

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**82.45 - 88.95: Medium Grained**

**82.45 - 88.95: Foliated**

88.95 89.50 **IGRD, Granodiorite**

WHITE GRANODIORITE.

**Texture:**

**88.95 - 89.50: Coarse Grained**

89.50 92.80 **MQZT, Mafic metasediment**

BIOTITE RICH QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED THROUGHOUT WITH NARROW BANDS OF QTZ-ALBITE (GNEISSIC?)

**Structure:**

**89.50 - 92.80: Foliation**

60 DTCA

**Texture:**

**89.50 - 92.80: Medium Grained**

**89.50 - 92.80: Foliated**

**89.50 - 92.80: Gneissic**

GNEISSIC BANDING BEGINNING TO DEVELOP

92.80 93.30 **IGD, Gabbroic dykes**

FINE GRAINED GABBRO DYKE WITH BRECCIATED COUNTRY ROCK AT CONTACTS. <1% VERY F.G DISSEMINATED PYRITE MINERALIZATION (1%).

**Mineralization:**

**92.80 - 93.30: Pyrite, Disseminated, <1%**

**Texture:**

**92.80 - 93.30: Xenolithic**

COUNTRY ROCK FRAGMENTS ALONG CONTACTS.

**92.80 - 93.30: Fine Grained - Aphanitic**

**92.80 - 93.30: Chilled Margin**

93.30 94.30 **MQZT, Mafic metasediment**

STRONGLY FOLIATED TO GNEISSIC QUETICO METASEDIMENTARY ROCKS.

**Texture:**

**93.30 - 94.30: Medium Grained**

**93.30 - 94.30: Foliated**

94.30 94.60 **IGD, Gabbroic dykes**

APHANITIC MAFIC DYKE WITH SHARP CONTACTS.

**Texture:**

**94.30 - 94.60: Aphanitic**

**94.30 - 94.60: Chilled Margin**

94.60 94.80 **MQZT, Mafic metasediment**

VERY STRONGLY SHEARED QUETICO METASEDIMENTARY ROCKS. POSSIBLE SHEAR ZONE. BIOTITE, K-FELDSPAR, QUARTZ. UP TO 10% DISSEMINATED PYRITE.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **94.60 - 94.80: Medium Grained** | | | | | | | | | | | | | | |
| **94.60 - 94.80: Foliated** | | | | | | | | | | | | | | |
| **94.60 - 94.80: Sheared** | | | | | | | | | | | | | | |
| 94.80 | 95.50 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| FINE GRAINED MAFIC DYKE. MODERATE CARBONATE ALTERATION THROUGHOUT IN VEINS. 2-5% PYRITE FOUND WITHIN VEINS AND DISSEMINATED IN DYKE. | | | N500105 | 94.80 | 95.50 | 0.70 | 75.000 | 141.000 | 45.000 | 0.010 | 0.002 | 0.002 | 1.100 | 0.560 |
| **Alteration:** | | | | | | | | | | | | | | |
| **94.80 - 95.50: Carbonate, Pervasive, Weak** | | | | | | | | | | | | | | |
| CARBONATE OCELLI OBSERVED. | | | | | | | | | | | | | | |
| **94.80 - 95.50: Carbonate, Veins, Moderate** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **94.80 - 95.50: Chilled Margin** | | | | | | | | | | | | | | |
| **94.80 - 95.50: Fine Grained** | | | | | | | | | | | | | | |
| **94.80 - 95.50: Massive** | | | | | | | | | | | | | | |
| 95.50 | 95.70 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| SLIVER OF METASEDIMENTS, NOT AS INTENSLY DEFORMED AS PREVIOUS INTERVAL. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **95.50 - 95.70: Medium Grained** | | | | | | | | | | | | | | |
| **95.50 - 95.70: Foliated** | | | | | | | | | | | | | | |
| 95.70 | 103.70 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| TYPICAL WHITE GRANODIORITE. WEAK PERVASSIVE POTASSIC (ALTERATION?) OBSERVED AT BOTTOM OF INTERVAL AS GABBRO DYKE IS APPROACHED. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **103.20 - 103.70: K-Feldspar, Pervasive, Moderate** | | | | | | | | | | | | | | |
| BECOMES STRONGER AS GABBRO DYKE IS APPROACHED. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **95.70 - 103.70: Coarse Grained** | | | | | | | | | | | | | | |
| 103.70 | 104.10 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| FINE GRAINED MAFIC DYKE. SHARP CONTACTS. MINOR BRECCIATION ALONG CONTACTS. | | | N500103 | 103.80 | 104.10 | 0.30 | 89.000 | 150.000 | 48.000 | 0.013 | 0.005 | 0.003 | 1.000 | 2.540 |
| **Texture:** | | | | | | | | | | | | | | |
| **103.70 - 104.10: Chilled Margin** | | | | | | | | | | | | | | |
| **103.70 - 104.10: Fine Grained** | | | | | | | | | | | | | | |
| **103.70 - 104.10: Xenolithic** | | | | | | | | | | | | | | |
| COUNTRY ROCK XENOLITHS ALONG MARGINS. | | | | | | | | | | | | | | |
| 104.10 | 114.60 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| WHITE-PINK GRANODIORITE. PERVASSIVE POTASSIC ALTERATION OBSERVED NEAR UPPER CONTACT WITH DYKE, QUICKLY WEAKENING AWAY FROM DYKE (ABSENT AFTER 104.8m). SMALL PEGMATITIC INTERVAL OBSERVED. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **104.10 - 104.80: K-Feldspar, Pervasive, Moderate** | | | | | | | | | | | | | | |
| BECOMES WEAKER AWAY FROM CONTACT WITH DYKE | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **104.10 - 114.60: Coarse Grained** | | | | | | | | | | | | | | |
| **114.20 - 114.50: Pegmatitic** | | | | | | | | | | | | | | |
| 114.60 | 120.00 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. BECOMING GNEISSIC THROUGH THIS INTERVAL. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **114.60 - 120.00: Gneissic** | | | | | | | | | | | | | | |
| **114.60 - 120.00: Medium Grained** | | | | | | | | | | | | | | |
| **114.60 - 120.00: Foliated** | | | | | | | | | | | | | | |
| 120.00 | 121.20 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| MAFIC DYKE. PYROXENE-PHYRIC, WIHT FINE GRAINED MATRIX OF PLAGIOCLASE, AND PYROXENE. MODERATELY TO STRONGLY CARBONATE ALTERED BY VEINS AND DISSEMINATED OCELLI. MODERATE HEMATITE ALTERATION IS PROXIMAL TO CARBONATE VEINS, APPEARS TO STAIN PLAGIOCLASE LATHS. | | | N500102 | 120.00 | 121.00 | 1.00 | 306.000 | 160.000 | 62.000 | 0.020 | 0.010 | 0.003 | 0.250 | 2.000 |
| **Alteration:** | | | | | | | | | | | | | | |
| **120.00 - 121.20: Hematite, Pervasive, Weak** | | | | | | | | | | | | | | |
| ALTERATION IS STRONGEST PROXIMAL TO CARBONATE VEINS. OBSERVED AS A RED STAINING ON PLAGIOCLASE LATHS. | | | | | | | | | | | | | | |
| **120.00 - 121.20: Carbonate, Veins, Moderate** | | | | | | | | | | | | | | |
| MODERATE TO STRONG CARBONATE ALTERATION THROUGHOUT | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **120.00 - 121.20: Chilled Margin** | | | | | | | | | | | | | | |
| **120.00 - 121.20: Fine Grained** | | | | | | | | | | | | | | |
| **120.50 - 121.00: Pyroxene Phyric** | | | | | | | | | | | | | | |
| PYROXENE PHENOCRYSTS ARE EUHEDRAL, AND ARE MARKEDLY COARSER THAN GROUNDMASS (2-4mm) | | | | | | | | | | | | | | |
| 121.20 | 123.20 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED TO GNEISSIC. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **121.20 - 123.20: Medium Grained** | | | | | | | | | | | | | | |
| **121.20 - 123.20: Gneissic** | | | | | | | | | | | | | | |
| **121.20 - 123.20: Foliated** | | | | | | | | | | | | | | |
| 123.20 | 126.65 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| TYPICAL WHITE GRANODIORITE. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **123.20 - 126.65: Coarse Grained** | | | | | | | | | | | | | | |
| **123.20 - 126.65: Massive** | | | | | | | | | | | | | | |
| 126.65 | 130.60 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

QUETICO METASEDIMENTARY ROCKS. STRONGLY DEFORMED BIOTITE RICH INTERVAL DISPLAYS A STRONG CRENULATION CLEAVAGE (126.9m). SEVERAL NARROW PEGMATITIC DYKES OBSERVED TO CROSS CUT WITHIN INTERVAL.

**Texture:**

**126.65 - 130.60: Medium Grained**

**126.80 - 126.90: Sheared**

BIOTITE RICH, SHEARED INTERVAL.

**126.90 - 127.00: Gneissic**

130.60 133.50 **IGRD, Granodiorite**

TYPICAL GRANODIORITE.

**Texture:**

**130.60 - 133.50: Coarse Grained**

**130.60 - 133.50: Massive**

133.50 136.85 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED TO GNEISSIC. MINOR INTERVALS OF GRANODIORITE WITHIN.

**Texture:**

**133.50 - 136.85: Medium Grained**

**133.50 - 136.85: Foliated**

**133.50 - 136.85: Gneissic**

136.85 137.15 **IGRD, Granodiorite**

NARROW DYKE OF GRANODIORITE.. LOOKS MORE TONALITIC IN COMPOSITION HERE.

**Texture:**

**136.85 - 137.15: Coarse Grained**

137.15 141.45 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. GNEISSIC TEXTURE THROUGHOUT.

**Texture:**

**137.15 - 141.45: Medium Grained**

**137.15 - 141.45: Gneissic**

**137.15 - 141.45: Foliated**

141.45 141.85 **IGRD, Granodiorite**

WHITE GRANODIORITE-TONALITE.

**Texture:**

**141.45 - 141.85: Coarse Grained**

141.85 145.10 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAKLY GNEISSIC THROUGHOUT.

**Texture:**

**141.85 - 145.10: Medium Grained**

**141.85 - 145.10: Gneissic**

**141.85 - 145.10: Foliated**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

145.10 146.60 **IGRD, Granodiorite**

PEGMATITIC BIOTITE BEARING GRANODIORITE.

**Texture:**

**145.10 - 146.60: Coarse Grained Matrix**

**145.10 - 146.60: Pegmatitic**

146.60 148.20 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. GNEISSIC TEXTURE.

**Texture:**

**146.60 - 148.20: Medium Grained**

**146.60 - 148.20: Gneissic**

**146.60 - 148.20: Foliated**

148.20 149.10 **IGRD, Granodiorite**

WHITE GRANODIORITE-TONALITE

**Texture:**

**148.20 - 149.10: Coarse Grained**

149.10 150.40 **MQZT, Mafic metasediment**

GNEISSIC QUETICO METASEDIMENTARY ROCKS.

**Texture:**

**149.10 - 150.40: Medium Grained**

**149.10 - 150.40: Gneissic**

**149.10 - 150.40: Foliated**

150.40 158.10 **IGRD, Granodiorite**

WHITE GRANODIORITE. GARNET AND MUSCOVITE OBSERVED SPORADICALLY THROUGHOUT.

**Texture:**

**150.40 - 157.60: Coarse Grained**

**157.60 - 158.10: Pegmatitic**

158.10 161.60 **MQZT, Mafic metasediment**

GNEISSIC QUETICO METASEDIMENTARY ROCKS

**Texture:**

**158.10 - 161.60: Medium Grained**

**158.10 - 161.60: Gneissic**

**158.10 - 161.60: Foliated**

161.60 166.00 **IGRD, Granodiorite**

GRANODIORITE WITH NARROW INTERVALS OF METASEDIMENTS. GARNET AND MUSCOVITE THROUGHOUT.

**Texture:**

**161.60 - 166.00: Coarse Grained**

**161.60 - 166.00: Porphyroblastic**

GARNET PORPHYROBLASTS

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

166.00 177.65 **MQZT, Mafic metasediment**

GNEISSIC QUETICO METASEDIMENTARY ROCKS WITH NARROW INTERVALS OF GRANODIORITE THROUGHOUT.

**Texture:**

**166.00 - 177.65: Medium Grained**

BIOTITE QUARTZ MELANOSOME

**166.00 - 177.65: Coarse Grained**

TONALITIC-GRANODIORITIC LEUCOSOME

177.65 180.65 **IGRD, Granodiorite**

GRANODIORITE TO TONALITE COMPOSITION. VERY QUARTZ RICH (UP TO 40%)

**Texture:**

**177.65 - 180.65: Coarse Grained Matrix**

**177.65 - 180.65: Foliated**

WEAK FOLIATION DEFINED BY BIOTITE ORIENTATION.

180.65 183.25 **MQZT, Mafic metasediment**

GNEISSIC QUETICO METASEDIMENTARY ROCKS WITH GRANODIORITE-TONALITE DYKES.

**Texture:**

**180.65 - 183.25: Medium Grained**

BIOTITE QUARTZ MELANOSOME

**180.65 - 183.25: Coarse Grained**

TONALITE-GRANODIORITE LEUCOSOME

183.25 188.10 **IGRD, Granodiorite**

GRANODIORITE TO TONALITE.

**Texture:**

**183.25 - 188.10: Coarse Grained**

**183.25 - 188.10: Massive**

188.10 202.80 **MQZT, Mafic metasediment**

GNEISSIC QUETICO METASEDIMENTARY ROCKS. GRANODIORITE INTERVALS INTERPRETTED AS LEUCOSOME.

**Texture:**

**188.10 - 202.80: Medium Grained**

BIOTITE QUARTZ MELAONSOME.

**188.10 - 202.80: Coarse Grained**

TONALITIC LEUCOSOME

**188.10 - 202.80: Gneissic**

202.80 248.50 **IGRD, Granodiorite**

WHITE-PINK MASSIVE GRANODIORITE. MORE K-FELDSPAR THAN PREVIOUS INTERVALS. NO GARNET OR MUSCOVITE OBSERVED.

**Texture:**

**202.80 - 248.50: Coarse Grained**

**202.80 - 248.50: Massive**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

## Survey Data

| Depth | Azimuth Decimal | Dip Decimal | Test Type | Flag | Comments |
|---|---|---|---|---|---|
| 30.20 | 304.20 | -60.60 | REFLEX | O | |
| 62.00 | 304.10 | -60.90 | REFLEX | O | |
| 122.00 | 305.80 | -59.50 | REFLEX | O | |
| 155.00 | 305.30 | -59.30 | REFLEX | O | |
| 212.00 | 307.50 | -58.00 | REFLEX | O | |
| 245.00 | 308.60 | -57.90 | REFLEX | O | |

# Detailed Log Report
# Hole Number SL-13-002

| Project | | Coordinates | | Collar | | | |
|---|---|---|---|---|---|---|---|
| **Project Name:** | SUNDAY LAKE | **Primary Coordinates Grid:** | UTM83-16 | **Collar Dip:** | -75.00 | **Collar Az:** | 180.00 |
| **Project Code:** | 23 | **North:** | 5,395,645.00 | **Length:** | 529.00 | | |
| **Location:** | SUNDAY LAKE | **East:** | 334,445.00 | **Hole Size:** | | | |
| **Start Date:** | Oct 26, 2013 | **Elev:** | 495.00 | **Hole Type:** | DD | | |
| **Completed Date:** | | **Destination Coordinates Grid:** | LL83 | **Casing:** | | | |
| **Contractor:** | | **North:** | 48.69 | **Collar Survey:** | N | **Plugged:** | N |
| **Core Storage:** | THUNDER BAY | **East:** | -89.25 | **Multishot Survey:** | N | **Pulse EM Survey:** | N |
| **Units:** | METRIC | **Elev:** | 495.00 | | | | |

## Detailed Lithology

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

0.00 3.00 **CAS, Casing**

DRILLED THROUGH LARGE BOULDER

3.00 14.75 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION. PYRITE OBSERVED ALONG FRACTURES. FELSIC LENSES ARE SPORADIC THROUGHOUT THE SEDIMENTS

**Texture:**

**3.00 - 14.75: Foliated**

MODERATE FOLIATION IN BIOTITE

**3.00 - 14.75: Medium Grained - Fine Grained**

14.75 16.60 **ITN, Tonalite**

PEGMATITIC DYKE WITH PLAGIOCLASE, QUARTZ AND MUSCOVITE. CONTACT AT 30 DEGREES.

**Texture:**

**14.75 - 16.60: Pegmatitic**

16.60 85.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. QUARTZ AND BIOTITE COMPOSITION. PYRITE OBSERVED ALONG FRACTURES

**Texture:**

**16.60 - 85.50: Medium Grained**

**16.60 - 85.50: Foliated**

85.50 140.25 **IGRD, Granodiorite**

COARSE GRAINED GRAONODIORITE TO TONALITE. WHITE-GREY COLOUR DUE TO GREY QUARTZ (MUCH DARKER IN COLOUR THAN IGRD IN SL-13-001). K-FELDSPAR GENERALLY ABSENT. PEGMATITIC INTERVALS CONTAIN ABUNDANT MUSCOVITE, POSSIBLY KYANITE, K-FELDSPAR AND QUARTZ.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**85.50 - 89.20: Coarse Grained - Medium Grained**

**89.20 - 97.70: Pegmatitic**

**97.70 - 137.30: Coarse Grained - Medium Grained**

**137.30 - 140.25: Pegmatitic**

140.25 152.35 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY. MASSIVE TO WEAKLY FOLIATED INTERVAL (META SANDSTONE?)

**Texture:**

**140.25 - 152.35: Foliated**

**140.25 - 152.35: Medium Grained**

152.35 153.00 **IGRD, Granodiorite**

GRANODIORITE TO TONALITE PEGMATITE DYKE. MUSCOVITE BEARING WITH CHLORITE ALONG FRACTURE SURFACES.

**Texture:**

**152.35 - 153.00: Pegmatitic**

153.00 211.80 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. MODERATELY TO STRONGLY FOLIATED WITH MINOR INTERVALS OF GRANODIORITE AND GRANITE DYKES. WEAK TO MODERATE HEMATITE AND EPIDOTE ALTERATION OCCURS ALONG FRACTURE SURFACES AND VEINS STARTING AT 191.1m. BROKEN CORE FROM 198-211.8m (BRITTLE FAULT ZONE). WITHIN FAULT ZONE ROCK IS FINE GRAINED, MASSIVE TO WEAKLY FOLIATED AND CONTAINS PYRITE ALONG FRACTURE SURFACES. ZONE IS ENDED AT FIRST ZONE OF BRECCIA FRAGMENTS.

**Alteration:**

**185.60 - 198.00: Epidote, Veins, Weak**

EPIDOTE FOUND IN VEINLETS WITH HEMATITE AND ALONG FRACTURE SURFACES.

**185.60 - 198.00: Hematite, Veins, Weak**

HEMATITE FOUND ALONG VEINLETS, SOMETIMES ASSOCIATED WITH EPIDOTE.

**Mineralization:**

**191.00 - 191.40: Pyrite, Fracture Filling, 1%%**

PYRITE ASSOCIATED WITH EPIDOTE AND HEMATITE VEINS ALONG FRACTURES.

**198.00 - 211.80: Pyrite, Fracture Filling, 1-2%%**

FINE GRAINED EUHEDRAL PYRITE FOUND SPORADICALLY THROUGHOUT INTERVAL OF BROKEN CORE.

**Texture:**

**153.00 - 198.00: Medium Grained**

**153.00 - 198.00: Foliated**

**167.50 - 173.00: Broken Core**

**198.00 - 211.80: Broken Core**

**198.00 - 211.80: Fine Grained**

211.80 270.60 **MQZT, Mafic metasediment**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

CATACLASTITE: UNIT IS BLEACHED GREY-WHITE TO PINK IN COLOUR. COMPRISED OF FRAGMENTS OF QUETICO METASEDIMENTARY ROCKS UP TO 10cm IN DIAMETER. FRAGMENTS SHOW DISTINCT CORONA TEXTURES, APPEAR ZONED AND ARE SUB-ANGULAR TO ROUNDED. CORONA TEXTURE APPEARS TO BE RECRYSTALLIZATION TO FINE GRAINED WHITE FELDSPAR (ALBITE?) DOWNHOLE, FRAGMENTS BECOME MORE POTASSIC, AND APPEAR TO RECRYSTALLIZE TO LARGE ORTHOCLASE CRYSTALS. MARTIX COMPRISED OF VERY FINE GRAINED FELDSPAR, CLAY AND PYRITE. SULFIDE CONTENT INCREASES DOWN HOLE. MATRIX BECOMES DARKER, MORE CHLORITIC DOWNHOLE.
218-230m: LESS FRAGMENTS OBSERVED (5-10%). MATRIX IS COMPRISED OF WHITE FELDSPAR AND CLAY. VERY POROUS. POSSIBLY FAULTED GRANODIORITE OR RECRYSTALLIZED FAULT GOUGE?
237.1-245.3m: BLEACHED WHITE COLOUR GRADUALLY FADES. TAKES ON A GREY COLOUR.
245.3:FRAGMENTS BECOMING GRANITIC-FELDSPAR RICH IN COMPOSITION, PINK-RED IN COLOUR.

**Alteration:**

**211.80 - 222.60: Albite, Pervasive, Strong**

BLEACHED FELDSPAR THROUGHOUT. CORONA TEXTURE APPEARS TO ALTER TO ALBITE

**222.60 - 253.55: K-Feldspar, Pervasive, Moderate**

FRAGEMENTS BEGIN TO CHANGE TO AN ORTHOCLASE RICH COMPOSITION.

**222.60 - 263.00: Chlorite, Pervasive, Strong**

CHLORITE ALTERATION TO MATRIX BECOMES MORE INTENSE DOWN HOLE AS INTRUSION IS APPROACHED.

**253.50 - 263.00: Sericite, Pervasive, Moderate**

ALTERATION HALOS AROUND FRAGMENTS CHANGE TO A GREEN COLOUR

**Mineralization:**

**211.80 - 270.60: Pyrite, Disseminated, 1-10%%**

PYRITE DISSEMINATED THROUGHOUT MATRIX AND WITHIN FRACTURES.

**Texture:**

**211.80 - 222.60: Medium Grained Matrix**

MATRIX COMPRISED OF SUBHEDRAL, WHITE FELDSPAR (ALBITE?) AND CLAY

**211.80 - 270.60: Brecciated**

**222.60 - 244.20: Fine Grained Matrix**

CHLORITIC MATRIX.

**254.00 - 270.60: Broken Core**

TOP OF INTERVAL IS SEVERYLY BROKEN TO CLAY AND GRAVEL.

270.60 283.95 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAKLY FOLIATED TO MASSIVE. GOOD CORE RECOVERY. VERY WEAK RED STAINING (HEMATITE?)

**Alteration:**

**270.60 - 283.95: Hematite, Patchy, Weak**

VERY WEAK RED STAINING IN SOME LOCATIONS

**Texture:**

**270.60 - 283.95: Medium Grained**

**270.60 - 283.95: Foliated**

283.95 285.10 **MQZT, Mafic metasediment**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

CATACLASTITE: DOMINANTLY BRICK RED GRANITIC CLASTS WITH A CHLORITE + PYRITE MATRIX.

**Alteration:**

**283.95 - 285.10: Chlorite, Fracture Filling, Moderate**

CHLORITIC MATRIX

**Mineralization:**

**283.95 - 285.10: Pyrite, Disseminated, 5%%**

DOMINANTLY IN MATRIX OF FAULT BRECCIA.

**Texture:**

**283.95 - 285.10: Brecciated**

BRECCIA FRAGMENTS ARE GRANITIC IN COMPOSITION, AND COARSE GRAINED. MATRIX IS ALSO GRANITIC BUT NOTABLY FINER GRAINED WITH ~5% VERY FINE GRAINED DISSEMINATED PYRITE. MATRIX COMPRISES 30-40% OF ROCK.

285.10 286.30 **IGR, Granite**

BRICK RED COARSE GRAINED TO PEGMATITIC, MUSCOVITE BEARING GRANITE-QUARTZ SYENITE. STRONGLY HEMATIZED. LIKELY AN ALTERATION OF A GRANODIORITE/TONALITE DYKE AS SEEN ABOVE.

**Alteration:**

**285.10 - 286.30: Epidote, Pervasive, Moderate**

FOUND THROUGHOUT BUT CONCENTRATED ALONG GRAIN BOUNDARIES AND AROUND MUSCOVITE.

**Texture:**

**285.10 - 286.30: Coarse Grained Matrix**

50% ORTHOCLASE, 30% QUARTZ, 10% PLAGIOCLASE, 10% MUSCOVITE + EPIDOTE

**285.10 - 286.30: Pegmatitic**

ORTHOCLASE CRYSTALS

286.30 295.90 **MQZT, Mafic metasediment**

MODERATELY TO STRONGLY HEMATIZED QUETICO METASEDIMENTARY ROCKS. RED TO GREY IN COLOUR WITH 2-5cm WIDE GRANITIC DYKE CROSS CUTTING UNIT.

**Alteration:**

**286.30 - 295.90: Hematite, Pervasive, Strong**

MODERATE TO STRONG HEMATIZATION GIVES BRICK RED COLOUR. STRONGEST PROXIMAL TO GRANITIC VEINLET. (290-292.5)

**Texture:**

**286.30 - 295.90: Medium Grained**

**286.30 - 295.90: Foliated**

295.90 301.80 **MQZT, Mafic metasediment**

CATACLASTITE. DULL GREY TO PINK, BLEACHED COLOUR. CLASTS AGAIN APPEAR TO BE FRAGMENTS OF QUETICO SEDIMENTARY ROCKS WITH CORONA TEXTURES, ALTERING TO ORTHOCLASE.

**Alteration:**

**295.90 - 301.80: K-Feldspar, Pervasive, Moderate**

CORONA TEXTURES OF ORTHOCLASE SURROUND BRECCIA FRAGMENTS.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**295.90 - 296.90: Broken Core**

**295.90 - 301.80: Brecciated**

CLAST SUPPORTED BRECCIA, ONLY 5-10% MATRIX.

301.80 306.70 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAKLY HEMATIZED.

**Alteration:**

**301.80 - 306.70: Hematite, Pervasive, Weak**

WEAK TO MODERATE

**Texture:**

**301.80 - 306.70: Medium Grained**

**301.80 - 306.70: Foliated**

306.70 307.60 **IGR, Granite**

BRICK RED GRANITE TO QUARTZ SYENITE. MODERATE HEMATITE ALTERATION ALONG GRAIN BOUNDARIES, ESPECIALLY QUARTZ.

**Alteration:**

**306.70 - 307.60: Hematite, Pervasive, Moderate**

STRONGEST ALONG QUARTZ GRAIN BOUNDARIES.

307.60 345.80 **MQZT, Mafic metasediment**

FAULT ZONE. INTERVALS OF MODERATELY TO WEAKLY HEMATIZED QUETICO METASEDIMENTARY ROCKS ARE SEPARATED BY NARROW INTERVALS OF CATACLASTITE AS ABOVE (DEFINED IN TEXTURE LOG). ORIENTATION OF FOLIATION IN QUETICO SECTIONS CAN CHANGE DRAMATICALLY BETWEEN FAULT ZONES, SUGGESTING ROTATION OF THESE UNITS IN THE FAULT. PYRITE FOUND IN MATRIX OF BRECCIATED ZONES, BECOMING MORE ABUNDANT DOWN HOLE.

**Alteration:**

**307.60 - 345.80: K-Feldspar, Patchy, Moderate**

BRECCIA FRAGMENTS SHOW CORONA TEXTURES ALTERED TO ORTHOCLASE.

**307.60 - 345.80: Hematite, Pervasive, Moderate**

HEMATITE ALTERATION MOST PREVALENT IN COMPETENT SEDIMENTARY ROCKS AND GRANITIC INTERVALS.

**Mineralization:**

**307.60 - 345.80: Pyrite, Fracture Filling, 1-10%%**

EUHEDRAL PYRITE FOUND ALONG FRACTURE SURFACES AND WITHIN MATRIX OF BRECCIATED ZONES.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Structure:**

**307.60 - 309.40: Brecciation**

**309.40 - 312.10: Foliation**

QUETICO

**312.10 - 312.30: Brecciation**

**312.30 - 313.00: Foliation**

QUETICO

**313.00 - 313.20: Brecciation**

**313.20 - 313.30: Foliation**

QUETICO

**313.30 - 314.45: Brecciation**

**314.45 - 314.75: Foliation**

QUETICO

**314.75 - 315.00: Brecciation**

**315.00 - 315.20: Foliation**

QUETICO

**315.20 - 315.70: Brecciation**

**315.70 - 316.15: Foliation**

QUETICO

**316.15 - 316.45: Brecciation**

**316.45 - 317.40: Foliation**

QUETICO

**317.40 - 317.50: Brecciation**

**317.50 - 317.87: Foliation**

QUETICO

**317.87 - 319.07: Brecciation**

**319.07 - 320.95: Foliation**

QUETICO

**320.95 - 321.80: Brecciation**

**321.80 - 323.60: Foliation**

QUETICO

**323.60 - 323.90: Brecciation**

**323.90 - 324.40: Foliation**

QUETICO

**324.40 - 325.30: Brecciation**

**325.50 - 328.20: Foliation**

QUETICO

**328.20 - 328.43: Brecciation**

**328.43 - 329.00: Foliation**

QUETICO

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **329.00 - 329.30: Brecciation** | | | | | | | | | | | | | | |
| **329.30 - 329.50: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **329.50 - 329.94: Brecciation** | | | | | | | | | | | | | | |
| **329.94 - 330.30: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **330.30 - 331.05: Brecciation** | | | | | | | | | | | | | | |
| **331.05 - 331.15: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **331.15 - 331.26: Brecciation** | | | | | | | | | | | | | | |
| **331.26 - 333.40: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **333.40 - 333.80: Brecciation** | | | | | | | | | | | | | | |
| **333.80 - 335.40: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **335.40 - 335.65: Brecciation** | | | | | | | | | | | | | | |
| **335.65 - 336.90: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **336.90 - 338.00: Brecciation** | | | | | | | | | | | | | | |
| **338.00 - 338.17: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **338.17 - 339.72: Brecciation** | | | | | | | | | | | | | | |
| **339.72 - 340.26: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **340.26 - 341.60: Brecciation** | | | | | | | | | | | | | | |
| **341.60 - 342.33: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **342.33 - 342.90: Brecciation** | | | | | | | | | | | | | | |
| **342.90 - 343.43: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| **343.43 - 345.25: Brecciation** | | | | | | | | | | | | | | |
| **345.25 - 345.80: Foliation** | | | | | | | | | | | | | | |
| QUETICO | | | | | | | | | | | | | | |
| 345.80 | 346.50 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| CROSSCUTTING MAFIC DYKE. GREY IN COLOUR WITH SHARP UPPER AND LOWER CONTACTS. ORBICULAR TEXTURE OBSERVED IN CENTRE OF DYKE, ARE UP TO 1cm IN DIAMETER. MATRIX BETWEEN ORBICULES (CARBONATE?) IS VERY FINE GRAINED, AND CONTAINS UP TO 5% FINE DISSEMINATED PYRITE AND CHALCOPYRITE. | | | N500101 | 345.80 | 346.50 | 0.70 | 41.000 | 1,590.000 | 17.000 | 0.007 | 0.003 | 0.001 | 0.250 | 0.530 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **345.80 - 346.50: Chilled Margin** | | | | | | | | | | | | | | |
| UPPER AND LOWER CONTACTS HAVE CHILLED MARGINS WITH <1mm PYROXENE PHENOCRYSTS | | | | | | | | | | | | | | |
| **345.80 - 346.50: Fine Grained** | | | | | | | | | | | | | | |
| GROUNDMASS IS VERY FINE GRAINED, DIFFICULT TO DETERMINE MINERALOGY. PYROXENE PHENOCRYSTS ARE ABUNDANT | | | | | | | | | | | | | | |
| **346.00 - 346.30: Spherulitic** | | | | | | | | | | | | | | |
| CARBONATE ALTERED ORBICULES UP TO 10mm DIAMETER. | | | | | | | | | | | | | | |
| 346.50 | 362.50 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| CATACLASTITE RICH QUETICO METASEDIMENTARY ROCKS. AS BEFORE, BRECCIATED ZONES ARE DIVIDED BY INTERVALS OF MORE COMPETENT HEMATITE AND NOW CHLORITE ALTERED QUETICO GROUP. POTASSIC ALTERATION PREVALENT AT TOP OF INTERVAL, BECOMING MORE CHLORITIC DOWN HOLE. NUMEROUS OPEN VOIDS FILLED WITH UP TO 30% PYRITE. | | | Q167042 | 353.00 | 354.00 | 1.00 | 64.000 | 7.000 | 25.000 | 0.003 | 0.001 | 0.003 | 0.250 | 3.020 |
| | | | Q167043 | 356.00 | 357.00 | 1.00 | 68.000 | 17.000 | 25.000 | 0.003 | 0.001 | 0.005 | 0.250 | 3.170 |
| | | | Q167044 | 357.00 | 358.00 | 1.00 | 70.000 | 14.000 | 29.000 | 0.003 | 0.001 | 0.003 | 0.250 | 2.310 |
| | | | Q167045 | 360.00 | 360.80 | 0.80 | 63.000 | 18.000 | 26.000 | 0.003 | 0.001 | 0.005 | 0.250 | 2.560 |
| | | | Q167046 | 360.80 | 362.00 | 1.20 | 97.000 | 37.000 | 36.000 | 0.027 | 0.009 | 0.006 | 0.250 | 3.910 |
| | | | Q167048 | 362.00 | 362.50 | 0.50 | 106.000 | 38.000 | 41.000 | 0.027 | 0.014 | 0.006 | 0.250 | 4.280 |
| **Alteration:** | | | | | | | | | | | | | | |
| **346.50 - 362.30: Chlorite, Fracture Filling, Strong** | | | | | | | | | | | | | | |
| FORMS THE MAJORITY OF THE MATRIX IN BRECCIATED INTERVALS AND PREVALENT ON ALL FRACTURE SURFACES. | | | | | | | | | | | | | | |
| **346.50 - 362.30: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| MODERATE TO WEAK HEMATITE ALTERATION THROUGHOUT. MOST PROMINENT IN COMPETENT INTERVALS OF QUETICO | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **346.50 - 362.30: Pyrite, Fracture Filling, 1-10%%** | | | | | | | | | | | | | | |
| FINE GRAINED EUHEDRAL PYRITE FOUND IN MATRIX OF BRECCIATED ZONES AS WELL AS IN OPEN SPACES. PYRITE CONTENT INCREASES TOWARDS LOWER CONTACT WITH GABBRO. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **346.50 - 347.80: Brecciated** | | | | | | | | | | | | | | |
| PINK SUBANGULAR CLASTS RICH IN ORTHOCLASE. | | | | | | | | | | | | | | |
| **347.80 - 348.30: Foliated** | | | | | | | | | | | | | | |
| BUFF PINK COLOUR, LOOKS BLEACHED | | | | | | | | | | | | | | |
| **347.80 - 348.30: Medium Grained** | | | | | | | | | | | | | | |
| **348.30 - 350.60: Brecciated** | | | | | | | | | | | | | | |
| PINK SUBANGULAR CLASTS RICH IN ORTHOCLASE | | | | | | | | | | | | | | |
| **350.60 - 351.90: Foliated** | | | | | | | | | | | | | | |
| RED, GREY COLOUR | | | | | | | | | | | | | | |
| **350.60 - 351.90: Medium Grained** | | | | | | | | | | | | | | |
| **351.90 - 354.70: Brecciated** | | | | | | | | | | | | | | |
| CLAST COLOUR CHANGING TO A DARK MAROON AND GREEN. OPEN SPACES IN MATRIX FILLED WITH PYRITE. GREEN COLOUR MAY BE DUE TO SAUSERITIZATION? | | | | | | | | | | | | | | |
| **354.70 - 356.60: Foliated** | | | | | | | | | | | | | | |
| BUFF MAROON COLOUR. PYRITE ABUNDANT IN FRACTURES | | | | | | | | | | | | | | |
| **354.70 - 356.60: Medium Grained** | | | | | | | | | | | | | | |
| **356.60 - 358.80: Brecciated** | | | | | | | | | | | | | | |
| STRONGLY CHLORITIZED BRECCIA | | | | | | | | | | | | | | |
| **358.80 - 362.30: Foliated** | | | | | | | | | | | | | | |
| MODERATELY HEMATIZED WITH BUFF GREEN STAINING IN FRACTRUED INTERVALS. PYRITE ABUNDANT ALONG FRACTURES AND IN OPEN SPACES. | | | | | | | | | | | | | | |
| **358.80 - 362.30: Fine Grained** | | | | | | | | | | | | | | |
| 362.50 | 364.80 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO BRECCIA. UNIT IS CHARACTERIZED BY ABUNDANT QUARTZ XENOLITHS. XENOLITHS ARE SUBROUNDED, APPEAR PARTIALLY DIGESTED AND ARE ASSOCIATED WITH HEMATITIC HALOS. MATRIX IS FINE GRAINED, SUBHEDRAL PYROXENE AND PLAGIOCLASE. PYROXENE PHENOCRYSTS ARE ~1-2mm DIAMETER. APPEARS TO HAVE A SHARP UPPER CONTACT BUT BROKEN CORE OBSCURES RELATIONSHIP.<br>362.9-364.8:5-10% DISSEMINATED PYRITE | | | N500140 | 362.50 | 363.50 | 1.00 | 244.000 | 625.000 | 50.000 | 0.224 | 0.069 | 0.026 | 0.250 | 1.410 |
| | | | N500141 | 363.50 | 364.80 | 1.30 | 252.000 | 408.000 | 63.000 | 0.489 | 0.267 | 0.026 | 0.250 | 3.090 |
| **Alteration:** | | | | | | | | | | | | | | |
| **362.50 - 364.80: Hematite, Patchy, Strong** | | | | | | | | | | | | | | |
| QUARTZ FRAGMENTS ARE STAINED DARK RED. PLAGIOCLASE APPEARS TO BE STAINED RED AS WELL IN PLACES. | | | | | | | | | | | | | | |
| **364.20 - 364.80: Epidote, Pervasive, Strong** | | | | | | | | | | | | | | |
| POROUS INTERVAL WITH ABUNDANT PYRITE AND EPIDOTE | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **362.60 - 364.80: Pyrite, Disseminated, 5-10%%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **362.50 - 362.50: Chilled Margin** | | | | | | | | | | | | | | |
| **362.50 - 364.80: Xenolithic** | | | | | | | | | | | | | | |
| **362.50 - 364.80: Fine Grained Matrix** | | | | | | | | | | | | | | |
| 364.80 | 365.40 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CHILLED MAFIC DYKE. HEMATITE STAINING THROUGHOUT INTERVAL. XENOLITH OF TAXITIC GABBRO FOUND WITHIN INTERVAL. | N500142 | 364.80 | 365.40 | 0.60 | 105.000 | 38.000 | 35.000 | 0.048 | 0.018 | 0.002 | 0.250 | 0.510 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **364.80 - 365.40: Hematite, Veins, Moderate** | | | | | | | | | | | | |
| | | NARROW HEMATITE VEINS CROSSCUT DYKE AT 90 DTCA. ALSO PERVASSIVE MAROON STAINING ON DYKE. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **364.80 - 365.40: Fine Grained** | | | | | | | | | | | | |
| | | **364.80 - 365.40: Chilled Margin** | | | | | | | | | | | | |
| | | UPPER AND LOWER MARGINS ARE CHILLED | | | | | | | | | | | | |
| 365.40 | 367.00 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GABBRO BRECCIA: OVERALL, LESS HEMATITE ALTERATION. INTERVAL IS GREY-GREEN IN COLOUR, EXTREMELY VARIABLE DUE TO THE NUMEROUS INCLUSIONS PRESENT. MINERALOGY IN GABBRO IS OBSCURE DUE TO ITS FINE GRAINED NATURE AND ANHEDRAL FORM. GREY-GREEN COLOUR SUGGESTS IT IS STRONGLY ALTERED. ABUNDANT QUARTZ CLASTS FROM 365.6 TO 366.1. AUTOBRECCIATION? OR LATE HYDROTHERMAL BRECCIATION OF GABBRO FROM 366.0-367.0 OBSERVED AS EPIDOTE AND PYRITE RICH MATRIX SURROUNDING GABBROIC CLASTS. 2-5% DISSEMINATED PYRITE THROUGHOUT INTERVAL. PYRITE IS SUBHEDRAL TO EUHEDRAL IN FORM AND RANGES FROM VERY FINE GRAINED TO MEDIUM GRAINED AGGREGATES. | N500143 | 365.40 | 366.40 | 1.00 | 269.000 | 562.000 | 57.000 | 0.262 | 0.087 | 0.023 | 0.250 | 2.200 |
| | | | N500144 | 366.40 | 367.40 | 1.00 | 303.000 | 220.000 | 75.000 | 0.276 | 0.092 | 0.025 | 0.250 | 2.470 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **365.40 - 367.00: Chlorite, Pervasive, Moderate** | | | | | | | | | | | | |
| | | MOTTLED LIGHT GREEN-GREY APPEARANCE MAY BE DUE TO CHLORITE+AMPHIBOLE+SERICITE? | | | | | | | | | | | | |
| | | **365.40 - 367.00: Hematite, Spots, Weak** | | | | | | | | | | | | |
| | | ASSOCIATED WITH QUARTZ CLASTS. | | | | | | | | | | | | |
| | | **365.40 - 367.00: Epidote, Pervasive, Moderate** | | | | | | | | | | | | |
| | | DARK GREEN ALTERATION ON MATRIX BETWEEN BRECCIATED INTERVALS. | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **365.40 - 366.00: Pyrite, Interstitial, 3%%** | | | | | | | | | | | | |
| | | PYRITE CONFINED TO EPIDOTE RICH MATRIX BETWEEN CLASTS. | | | | | | | | | | | | |
| | | **365.40 - 367.00: Pyrite, Disseminated, 2-5%%** | | | | | | | | | | | | |
| | | HETEROGENOUS DISTRIBUTION THROUGHOUT INTERVAL. SPOTTY DISSEMINATED PYRITE RANGING FROM <1mm TO 5mm IN DIAMETER. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **365.40 - 367.00: Fine Grained Matrix** | | | | | | | | | | | | |
| | | DIFFICULT TO TELL IN HAND SAMPLE BUT LIKELY AMPHIBOLE+CHLORITE+SERICITE BASED ON COLOUR-HABIT. | | | | | | | | | | | | |
| | | **365.40 - 367.00: Porphyritic** | | | | | | | | | | | | |
| | | SPOTTED TEXTURE DUE TO PORPHYRITIC PLAGIOCLASE-QUARTZ AGGREGATES. CAN SOMETIMES OCCUR AS HALOS AROUND PYRITE BUT NOT EXCLUSIVELY. | | | | | | | | | | | | |
| | | **365.60 - 366.10: Xenolithic** | | | | | | | | | | | | |
| | | SUBROUNDED QUARTZ CLASTS UP TO 3cm IN DIAMETER. APPEAR MORE MELTED THAN THOSE OBSERVED IN PREVIOUS INTERVAL | | | | | | | | | | | | |
| 367.00 | 369.30 | **IGB, Gabbro** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | PORPHYRITIC GABBRO. GENERALLY LACKING IN COUNTRY ROCK XENOLITHS. PORPHYRITIC PLAGIOCLASE/CARBONATE TYPICALLY 1-2mm DIAMETER. SOMETIMES ASSOCIATED WITH PYRITE CRYSTALS. SPOTTY HEMATITE ALTERATION THROUGHOUT. | N500145 | 367.40 | 368.40 | 1.00 | 257.000 | 486.000 | 62.000 | 0.412 | 0.153 | 0.022 | 0.250 | 1.440 |
| | | | N500146 | 368.40 | 369.30 | 0.90 | 276.000 | 792.000 | 58.000 | 0.201 | 0.054 | 0.028 | 0.250 | 1.010 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **368.00 - 368.60: Hematite, Patchy, Moderate** | | | | | | | | | | | | |
| | | ASSOCIATED WITH PHENOCRYSTS OR AS A RED STAINING ON PLAGIOCLASE. | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **367.00 - 369.30: Pyrite, Disseminated, 2-5%%** | | | | | | | | | | | | |
| | | HETEROGENOUS DISTRIBUTION THROUGHOUT INTERVAL. SPOTTY DISSEMINATED PYRITE RANGING FROM <1mm TO 5mm IN DIAMETER. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **367.00 - 369.30: Fine Grained Matrix** | | | | | | | | | | | | |
| | | DIFFICULT TO TELL IN HAND SAMPLE BUT LIKELY AMPHIBOLE+CHLORITE+SERICITE BASED ON COLOUR-HABIT. | | | | | | | | | | | | |
| | | **367.00 - 369.30: Porphyritic** | | | | | | | | | | | | |
| | | SPOTTED TEXTURE DUE TO PORPHYRITIC PLAGIOCLASE-QUARTZ AGGREGATES. CAN SOMETIMES OCCUR AS HALOS AROUND PYRITE BUT NOT EXCLUSIVELY. | | | | | | | | | | | | |
| | | **368.70 - 368.80: Xenolithic** | | | | | | | | | | | | |
| | | ANGULAR QUARTZ CLASTS OR POSSIBLY VEINS. | | | | | | | | | | | | |
| 369.30 | 369.40 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| | | FINE GRAINED MAFIC DYKE. DISTINCT CHILL MARGINS. | Q167109 | 369.30 | 369.40 | 0.10 | 79.000 | 70.000 | 49.000 | 0.014 | 0.009 | 0.022 | 0.250 | 3.280 |
| | | **Texture:** | | | | | | | | | | | | |
| | | **369.30 - 369.40: Aphanitic** | | | | | | | | | | | | |
| | | GREY MASSIVE GABBRO | | | | | | | | | | | | |
| | | **369.30 - 369.40: Massive** | | | | | | | | | | | | |
| | | **369.30 - 369.40: Chilled Margin** | | | | | | | | | | | | |
| 369.40 | 370.50 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | PORPHYRITIC GABBRO: SIMILAR TO PREVIOUS INTERVAL. NOTICEABLY LESS PYRITE (MAX 2%), AND PATCHY DISTRIBUTION. MODERATE HEMATITE ALTERATION GIVES CORE A SPOTTED RED-GREY COLOUR. HEMATITE APPEARS TO ALTER PLAGIOCLASE CRYSTALS IN GROUND MASS. PORPHYROCLASTS APPEAR TO BE QUARTZ-CARBONATE, WITH ROUNDED TO SUBROUNDED QUARTZ TYPICALLY SURROUNDED BY AGGREGATES OF CARBONATE +/- PLAGIOCLASE. | N500147 | 369.40 | 370.50 | 1.10 | 286.000 | 494.000 | 52.000 | 1.085 | 0.596 | 0.031 | 0.250 | 0.420 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **369.40 - 370.50: Hematite, Spots, Moderate** | | | | | | | | | | | | |
| | | HEMATITE STAINING ON PLAGIOCLASE AND AS WEAK, WHISPY 'VEINS' | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **369.40 - 370.50: Fine Grained** | | | | | | | | | | | | |
| | | SLIGHTLY COARSER THAN PREVIOUS INTERVAL. MINERALOGY IS SLIGHTLY LESS ALTERED AS WELL. 50-60% PYROXENE, IS WEAKLY URALITIZED. 40% PLAGIOCLASE, 5-10% QUARTZ + CARBONATE | | | | | | | | | | | | |
| | | **369.40 - 370.50: Porphyritic** | | | | | | | | | | | | |
| | | QUARTZ CARBONATE PHENOCRYSTS | | | | | | | | | | | | |
| | | **369.40 - 370.50: Subophitic** | | | | | | | | | | | | |
| | | WEAK SUBOPHITIC TEXURE BECOMES RECOGNIZABLE DUE TO LARGER GRAIN SIZE | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 370.50 | 370.60 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| | | APHANITIC GABBRO DYKE. DISTINCT CHILL MARGINS. | Q167110 | 370.50 | 370.60 | 0.10 | 100.000 | 35.000 | 50.000 | 0.154 | 0.077 | 0.013 | 0.250 | 0.400 |
| | | **Texture:** | | | | | | | | | | | | |
| | | **370.50 - 370.60: Aphanitic** | | | | | | | | | | | | |
| | | **370.50 - 370.60: Chilled Margin** | | | | | | | | | | | | |
| | | **370.50 - 370.60: Massive** | | | | | | | | | | | | |
| 370.60 | 371.80 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | PORPHYRITIC GABBRO. AS DESCRIBED ABOVE. MINOR AMOUNTS OF SUBANGULAR QUARTZ CLASTS ARE ~2mm DIAMETER. MODERATELY HEMATIZED. 371.6-371.8: 3 SETS OF NARROW EPIDOTE+PYRITE+HEMATITE 'VEINS. | N500148 | 370.60 | 371.80 | 1.20 | 266.000 | 425.000 | 53.000 | 0.648 | 0.336 | 0.028 | 0.250 | 0.760 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **370.60 - 371.80: Hematite, Pervasive, Moderate** | | | | | | | | | | | | |
| | | MODERATE TO STRONG ALTERATION GIVES CORE A SPOTTED RED-GREY COLOUR. | | | | | | | | | | | | |
| | | **371.60 - 371.80: Epidote, Veins, Strong** | | | | | | | | | | | | |
| | | EPIDOTE+HEMATITE+PYRITE VEINS | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **370.60 - 371.80: Pyrite, Disseminated, 1-2%%** | | | | | | | | | | | | |
| | | SPOTTY ZONES OF PYRITE THROUGHOUT INTERVAL. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **370.60 - 371.80: Porphyritic** | | | | | | | | | | | | |
| | | QUARTZ-CARBONATE PHENOCRYSTS TYPICALLY HAVE 'SHADOWS' OF HEMATITE SURROUNDING THEM. | | | | | | | | | | | | |
| | | **370.60 - 371.80: Subophitic** | | | | | | | | | | | | |
| | | WEAK SUBOPHITIC TEXTURE. | | | | | | | | | | | | |
| | | **370.60 - 371.80: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| 371.80 | 371.90 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| | | APHANITIC GABBRO DYKE. DISTINCT CHILL MARGINS | Q167111 | 371.80 | 371.90 | 0.10 | 85.000 | 92.000 | 55.000 | 0.070 | 0.046 | 0.014 | 0.250 | 3.240 |
| | | **Texture:** | | | | | | | | | | | | |
| | | **371.80 - 371.90: Aphanitic** | | | | | | | | | | | | |
| | | **371.80 - 371.90: Massive** | | | | | | | | | | | | |
| | | **371.80 - 371.90: Chilled Margin** | | | | | | | | | | | | |
| 371.90 | 372.15 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GABBRO BRECCIA. NARROW INTERVAL OF PYRITE RICH GABBRO BRECCIA. STRONGLY HEMATIZED, WITH UP TO 20% PYRITE. | N500149 | 371.90 | 373.50 | 1.60 | 137.000 | 278.000 | 53.000 | 0.247 | 0.132 | 0.008 | 0.250 | 2.340 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **371.90 - 372.15: Hematite, Pervasive, Strong** | | | | | | | | | | | | |
| | | **371.90 - 372.15: Hornblende, Pervasive, Strong** | | | | | | | | | | | | |
| | | STRONGLY URALITIZED. | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **371.90 - 372.15: Pyrite, Disseminated, 20%%** | | | | | | | | | | | | |
| | | STRONGLY DISSEMINATED THROUGHOUT MATRIX. | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **371.90 - 372.15: Xenolithic** | | | | | | | | | | | | | | |
| LARGE GABBROIC CLAST WITHIN INTERVAL. SIMILAR TO AUTOBRECCIATED UNIT ABOVE. | | | | | | | | | | | | | | |
| **371.90 - 372.15: Medium Grained** | | | | | | | | | | | | | | |
| MEDIUM GRAINED MATRIX OF PYRITE + AMPHIBOLE AND HEMATIZED PLAGIOCLASE. | | | | | | | | | | | | | | |
| 372.15 | 372.35 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| FINE GRAINED GABBRO DYKE WITH DISTINCT CHILLED MARGINS. | | | N500149 | 371.90 | 373.50 | 1.60 | 137.000 | 278.000 | 53.000 | 0.247 | 0.132 | 0.008 | 0.250 | 2.340 |
| **Alteration:** | | | | | | | | | | | | | | |
| **372.15 - 372.35: Hematite, Veins, Weak** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **372.15 - 372.35: Chilled Margin** | | | | | | | | | | | | | | |
| **372.15 - 372.35: Fine Grained** | | | | | | | | | | | | | | |
| FINE GRAINED TO APHANITIC NEAR MARGINS | | | | | | | | | | | | | | |
| **372.15 - 372.35: Massive** | | | | | | | | | | | | | | |
| 372.35 | 372.70 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO BRECCIA. STRONGLY HEMATIZED WITH 10-15% PYRITE. STRONGLY URALITIZED GABBROIC COMPONENT WITH MINOR QUARTZ AND HEMATITE RICH FRAGMENTS. | | | N500149 | 371.90 | 373.50 | 1.60 | 137.000 | 278.000 | 53.000 | 0.247 | 0.132 | 0.008 | 0.250 | 2.340 |
| **Alteration:** | | | | | | | | | | | | | | |
| **372.35 - 372.70: Hematite, Patchy, Strong** | | | | | | | | | | | | | | |
| MATRIX OF BRECCIA AS WELL AS SOME FRAGMENTS ARE HEMATIZED. | | | | | | | | | | | | | | |
| **372.35 - 372.70: Hornblende, Pervasive, Strong** | | | | | | | | | | | | | | |
| URALITIZATION | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **372.35 - 372.70: Xenolithic** | | | | | | | | | | | | | | |
| BRECCIA FRAGMENTS CONSIST OF LARGE GABBROIC CLASTS (UP TO 5cm) AS WELL AS FINER ANGULAR QUARTZ CLASTS (~1cm DIAMETER). | | | | | | | | | | | | | | |
| **372.35 - 372.70: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| GREEN MATRIX COMPRISED OF PYROXENE ALTERED TO AMPHIBOLE AND HEMATIZED PLAGIOCLASE | | | | | | | | | | | | | | |
| 372.70 | 373.50 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO. SHARP CHILLED MARGIN ADJACENT AT UPPER CONTACT. GRADUALLY COARSENS TO FINE-MEDIUM GRAINED UNTIL SHARP CONTACT WITH LATE MAFIC DYKE. VEIN, OR MELTED FRAGMENT OF STRONGLY HEMATIZED GABBRO HAS SHARP UPPER BUT DIFFUSE LOWER CONTACT WITHIN GABBRO (373.25-373.35). PORPHYRITIC QUARTZ CARBONATE FROM 373.55-.. FOLLOWED BY NARROW INTERVAL OF STRONGLY HEMATIZED BRECCIA. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **373.25 - 373.30: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| BRICK RED GABBROIC 'DYKE" | | | | | | | | | | | | | | |
| **373.30 - 373.50: Hematite, Patchy, Moderate** | | | | | | | | | | | | | | |
| RED STAINING ON PLAGIOCLASE, PROXIMAL TO PHENOCRYSTS OF QUARTZ-CARBONATE. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mineralization:** | | | | | | | | | | | | | | |
| **373.30 - 373.50: Pyrite, Disseminated, 1-2%%** | | | | | | | | | | | | | | |
| DISSEMINATED PYRITE APPEARS WITH PORPHYRITIC TEXTURE | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **372.70 - 373.25: Fine Grained** | | | | | | | | | | | | | | |
| **373.30 - 373.50: Porphyritic** | | | | | | | | | | | | | | |
| QUARTZ-CARBONATE PHENOCRYSTS. | | | | | | | | | | | | | | |
| **373.50 - 373.50: Xenolithic** | | | | | | | | | | | | | | |
| QUARTZ XENOLITHS ADJACENT TO CONTACT. | | | | | | | | | | | | | | |
| 373.50 | 373.70 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| APHANITIC GABBRO DYKE | | | Q167112 | 373.50 | 373.70 | 0.20 | 77.000 | 18.000 | 55.000 | 0.035 | 0.021 | 0.012 | 0.250 | 2.260 |
| **Alteration:** | | | | | | | | | | | | | | |
| **373.50 - 373.70: Hematite, Veins, Weak** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **373.50 - 373.70: Chilled Margin** | | | | | | | | | | | | | | |
| **373.50 - 373.70: Aphanitic** | | | | | | | | | | | | | | |
| **373.50 - 373.70: Massive** | | | | | | | | | | | | | | |
| 373.70 | 374.40 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO BRECCIA. PYRITIC AND HEMATIZED BRECCIA. 10-15% PYRITE THROUGHOUT. CLASTS OF GREY-GREEN GABBRO WITH ANGULAR QUARTZ XENOLITHS SURROUNDED BY PYRITIC AND HEMATITIC GABBRO MATRIX. PYRITE OBSERVED TO RIM GABBRO CLASTS AND LOWER CONTACT. | | | N500150 | 373.70 | 374.40 | 0.70 | 201.000 | 393.000 | 54.000 | 0.232 | 0.075 | 0.011 | 0.250 | 3.520 |
| **Alteration:** | | | | | | | | | | | | | | |
| **373.70 - 374.40: Epidote, Pervasive, Moderate** | | | | | | | | | | | | | | |
| **373.70 - 374.40: Hornblende, Patchy, Moderate** | | | | | | | | | | | | | | |
| URALITIZATION OF MATRIX AND GABBRO FRAGMENTS | | | | | | | | | | | | | | |
| **373.70 - 374.40: Hematite, Patchy, Strong** | | | | | | | | | | | | | | |
| HEMATIZED CLASTS WITHIN MATRIX OF BRECCIA. | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **373.70 - 374.40: Pyrite, Rims, 5-10%%** | | | | | | | | | | | | | | |
| PYRITE OBSERVED TO RIM XENOLITHS | | | | | | | | | | | | | | |
| **373.70 - 374.40: Pyrite, Disseminated, 5%%** | | | | | | | | | | | | | | |
| DISSEMINATED PYRITE WITHIN MATRIX OF BRECCIA. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **373.70 - 374.40: Xenolithic** | | | | | | | | | | | | | | |
| CONTAINS TWO GENERATIONS OF CLASTS. EARLY QUARTZ XENOLITHS ARE OBSERVED WIHTIN GABBROIC CLASTS. | | | | | | | | | | | | | | |
| **373.70 - 374.40: Medium Grained Matrix** | | | | | | | | | | | | | | |
| 374.40 | 374.90 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| APHANITIC GABBRO DYKE. SHARP CHILLED MARGINS. | | | N500151 | 374.40 | 374.90 | 0.50 | 50.000 | 14.000 | 35.000 | 0.015 | 0.007 | 0.001 | 0.250 | 0.710 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Alteration:** | | | | | | | | | | | | |
| | | **374.40 - 374.90: Hematite, Pervasive, Moderate** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **374.40 - 374.90: Aphanitic** | | | | | | | | | | | | |
| | | **374.40 - 374.90: Massive** | | | | | | | | | | | | |
| | | **374.40 - 374.90: Chilled Margin** | | | | | | | | | | | | |
| 374.90 | 378.20 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GABBRO BRECCIA. LARGE INTERVAL RICH IN SUBANGULAR QUARTZ CLASTS UP TO 6cm LONG. QUARTZ CLASTS ARE RIMMED BY BLACK (CHLORITIC?) HALOS. HEMATITE IS PERVASSIVE IN GROUNDMASS OF PLAGIOCLASE AND AMPHIBOLE PLUS PYRITE. INTERVAL IS TRANSITIONAL TO HEMATIZED GABBRO. | N500152 | 374.90 | 375.90 | 1.00 | 116.000 | 146.000 | 39.000 | 0.135 | 0.051 | 0.007 | 0.250 | 2.430 |
| | | | N500153 | 375.90 | 376.90 | 1.00 | 94.000 | 151.000 | 33.000 | 0.279 | 0.140 | 0.001 | 0.250 | 2.320 |
| | | | N500154 | 376.90 | 377.90 | 1.00 | 110.000 | 258.000 | 35.000 | 0.135 | 0.079 | 0.003 | 0.250 | 0.940 |
| | | | N500155 | 377.90 | 378.90 | 1.00 | 159.000 | 277.000 | 51.000 | 0.080 | 0.052 | 0.008 | 0.250 | 0.260 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **374.90 - 378.20: Chlorite, Veins, Moderate** | | | | | | | | | | | | |
| | | CHLORITIC RIMS AROUND QUARTZ FRAGMENTS. | | | | | | | | | | | | |
| | | **374.90 - 378.20: Hornblende, Pervasive, Moderate** | | | | | | | | | | | | |
| | | MATRIX IS URALITIZED | | | | | | | | | | | | |
| | | **374.90 - 378.20: Hematite, Patchy, Strong** | | | | | | | | | | | | |
| | | MATRIX IS STRONGLY HEMATIZED | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **374.90 - 378.20: Pyrite, Disseminated, 5-15%%** | | | | | | | | | | | | |
| | | VARIABLY PYRITIC THROUGHOUT. PYRITE OFTEN RIMS QUARTZ XENOLITHS, OR IS DISSEMINATED IN BRECCIA MATRIX. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **374.90 - 378.20: Xenolithic** | | | | | | | | | | | | |
| | | **374.90 - 378.20: Medium Grained Matrix** | | | | | | | | | | | | |
| | | MATRIX IS SUBHEDRAL HEMATIZED PLAGIOCLASE WITH AMPHIBOLE AND STRONGLY PYRITIC IN PLACES. | | | | | | | | | | | | |
| 378.20 | 393.30 | **IGB, Gabbro** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GABBRO. SEQUENCE OF TEXTURALLY VARIABLE, INTERGRANULAR GABBRO. TOP OF INTERVAL IS STRONGLY HEMATIZED, GRADUALLY LOSING ALTERATION DOWH HOLE. GRAIN SIZE VARIES FROM MEDIUM TO COARSE GRAINED AT TOP TO FINE GRAINED IN CENTRE OF INTERVAL. TRACE DISSEMINATED PYRITE THROUGHOUT. BOTTOM OF INTERVAL SHOWS PYROXENE CUMMULATE TEXTURE WHICH IS MODERATELY URALITIZED. SHARP LOWER CONTACT WITH GABBRO BRECCIA. | N500156 | 378.90 | 380.00 | 1.10 | 140.000 | 165.000 | 54.000 | 0.015 | 0.009 | 0.003 | 0.250 | 0.130 |
| | | | N500157 | 380.00 | 381.00 | 1.00 | 164.000 | 151.000 | 57.000 | 0.023 | 0.009 | 0.003 | 0.250 | 0.120 |
| | | | N500159 | 381.00 | 382.00 | 1.00 | 170.000 | 149.000 | 59.000 | 0.024 | 0.009 | 0.003 | 0.250 | 0.100 |
| | | | N500160 | 382.00 | 383.00 | 1.00 | 160.000 | 146.000 | 57.000 | 0.017 | 0.008 | 0.002 | 0.250 | 0.140 |
| | | | N500161 | 383.00 | 384.00 | 1.00 | 169.000 | 210.000 | 61.000 | 0.023 | 0.016 | 0.003 | 0.250 | 0.140 |
| | | | N500162 | 384.00 | 385.00 | 1.00 | 165.000 | 157.000 | 60.000 | 0.017 | 0.008 | 0.003 | 0.250 | 0.120 |
| | | | N500163 | 385.00 | 386.00 | 1.00 | 182.000 | 164.000 | 59.000 | 0.018 | 0.012 | 0.003 | 0.250 | 0.120 |
| | | | N500164 | 386.00 | 387.00 | 1.00 | 203.000 | 442.000 | 56.000 | 0.393 | 0.230 | 0.017 | 0.250 | 0.140 |
| | | | N500165 | 387.00 | 388.00 | 1.00 | 159.000 | 143.000 | 61.000 | 0.018 | 0.008 | 0.002 | 0.250 | 0.130 |
| | | | N500166 | 388.00 | 389.00 | 1.00 | 171.000 | 161.000 | 61.000 | 0.018 | 0.011 | 0.002 | 0.250 | 0.120 |
| | | | N500167 | 389.00 | 390.00 | 1.00 | 173.000 | 178.000 | 60.000 | 0.018 | 0.010 | 0.004 | 0.250 | 0.140 |
| | | | N500168 | 390.00 | 391.00 | 1.00 | 291.000 | 271.000 | 69.000 | 0.066 | 0.046 | 0.010 | 0.250 | 0.140 |
| | | | N500169 | 391.00 | 392.00 | 1.00 | 481.000 | 557.000 | 80.000 | 0.213 | 0.149 | 0.035 | 0.250 | 0.300 |
| | | | N500170 | 392.00 | 393.00 | 1.00 | 400.000 | 374.000 | 82.000 | 0.072 | 0.051 | 0.008 | 0.250 | 0.220 |
| | | | N500171 | 393.00 | 394.00 | 1.00 | 313.000 | 991.000 | 55.000 | 0.420 | 0.167 | 0.050 | 0.250 | 0.430 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **378.20 - 379.90: Hematite, Pervasive, Strong** | | | | | | | | | | | | |
| | | HEMATITE ALTERATION IS MOST INTENSE AT TOP OF INTERVAL, GRADUALLY DECREASING DOWNHOLE. | | | | | | | | | | | | |
| | | **390.80 - 393.30: Hornblende, Pervasive, Moderate** | | | | | | | | | | | | |
| | | URALITIZATION OF PYROXENE | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **378.20 - 390.80: Pyrite, Trace, TRACE%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **378.20 - 378.50: Varitextured** | | | | | | | | | | | | |
| | | **378.20 - 390.80: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| | | INTERGRANULAR TEXTURE. 55-60% PYROXENE, 40-45% PLAGIOCLASE. SUBHEDRAL OVERALL. | | | | | | | | | | | | |
| | | **378.50 - 393.30: Homogeneous** | | | | | | | | | | | | |
| | | VERY SLIGHT CHANGES IN GRAINSIZE BUT GENERALLY HOMOGENOUS | | | | | | | | | | | | |
| | | **390.80 - 393.30: Medium Grained** | | | | | | | | | | | | |
| | | SLIGHTLY COARSER GRAINED IN PYROXENE CUMMULATE ZONE | | | | | | | | | | | | |
| 393.30 | 394.30 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GABBRO BRECCIA. AS ABOVE, STRONGLY HEMATIZED RED-WHITE BRECCIA WITH LARGE ANGULAR QUARTZ CLASTS WITHIN A HEMATIZED AND EPIDOTE ALTERED GABBROIC MATRIX. QUARTZ CLASTS ARE AGAIN RIMMED BY A DARK BLACK MINERAL (CHLORITE). 2-3% DISSEMINATED TO BLEBBY PYRITE FROM 393.7-394.3m. | N500172 | 394.00 | 395.00 | 1.00 | 284.000 | 544.000 | 62.000 | 0.229 | 0.084 | 0.019 | 0.250 | 0.510 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **393.30 - 394.30: Hornblende, Patchy, Moderate** | | | | | | | | | | | | | | |
| URALITIZATION OF MATRIX | | | | | | | | | | | | | | |
| **393.30 - 394.30: Hematite, Patchy, Strong** | | | | | | | | | | | | | | |
| HEMATIZED MATRIX | | | | | | | | | | | | | | |
| **393.60 - 393.80: Epidote, Patchy, Moderate** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **393.30 - 394.30: Pyrite, Disseminated, 1-2%%** | | | | | | | | | | | | | | |
| FINE GRAINED TO MEDIUM GRAINED BLEBS | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **393.30 - 394.30: Xenolithic** | | | | | | | | | | | | | | |
| DOMINANTLY SUBANGULAR, PARTIALLY DIGESTED QUARTZ FRAGMENTS. | | | | | | | | | | | | | | |
| **393.30 - 394.30: Medium Grained Matrix** | | | | | | | | | | | | | | |
| HEMATITE AND EPIDOTE ALTERED | | | | | | | | | | | | | | |
| 394.30 | 396.50 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO. VARIABLY HEMATIZED THROUGHOUT INTERVAL. GENERALLY MEDIUM GRAINED WITH AN INTERGRANULAR TEXTURE. 1-2% DISSEMINATED PYRITE, RANGING FROM VERY FINE GRAINED TO BLEBS UP TO 5mm. | | | N500173 | 395.00 | 396.00 | 1.00 | 654.000 | 1,745.000 | 90.000 | 0.955 | 0.503 | 0.064 | 1.600 | 1.170 |
| | | | N500174 | 396.00 | 397.00 | 1.00 | 969.000 | 2,130.000 | 115.000 | 2.530 | 1.190 | 0.145 | 0.250 | 1.990 |
| **Alteration:** | | | | | | | | | | | | | | |
| **394.30 - 395.20: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| STAINING ON PLAGIOCLASE. | | | | | | | | | | | | | | |
| **395.20 - 395.50: Epidote, Pervasive, Weak** | | | | | | | | | | | | | | |
| **395.50 - 396.00: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| ALMOST APPEARS VEIN LIKE, TO PERVASSIVE | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **394.30 - 396.50: Pyrite, Disseminated, 1-2%%** | | | | | | | | | | | | | | |
| STYLE OF MINERALIZATION CHANGES FROM MEDIUM GRAINED BLEBS-BLOCKS IN HEMATIZED SECTIONS TO VERY FINE GRAINED DISSEMINATED IN URALITIZED ZONES. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **394.30 - 396.50: Medium Grained** | | | | | | | | | | | | | | |
| RAPID, MINOR CHANGES IN GRAIN SIZE APPEAR TO BE CONTROLLED BY ALTERATION, IN PARTICULAR URALITIZATION OF PYROXENE. INTERGRANULAR TEXTURE THROUGHOUT. | | | | | | | | | | | | | | |
| **394.30 - 396.50: Varitextured** | | | | | | | | | | | | | | |
| 396.50 | 398.90 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO BRECCIA. MUCH HIGHER MATRIX COMPONENT THROUGH THIS INTERVAL, WITH MATRIX BEING ONLY WEAKLY HEMATIZED GABBRO. QUARTZ XENOLITHS ARE RIMMED BY HEMATITE IN THIS INTERVAL AS OPPOSED TO CHLORITIC HALOS IN EARLIER INTERVALS. NO EPIDOTE OR AMPHIBOLE ALTERATION OBSERVED IN MATRIX. COARSE GRAINED PYRITE BLOCKS-BLEBS (20%) FROM 396.6-396.8m. | | | N500175 | 397.00 | 398.00 | 1.00 | 565.000 | 1,250.000 | 72.000 | 1.275 | 0.624 | 0.067 | 0.500 | 1.300 |
| | | | N500176 | 398.00 | 399.00 | 1.00 | 401.000 | 740.000 | 56.000 | 0.840 | 0.419 | 0.031 | 0.600 | 1.140 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **396.50 - 398.90: Hematite, Spots, Weak** | | | | | | | | | | | | | | |
| HEMATITIC HALOS AROUND QUARTZ CLASTS | | | | | | | | | | | | | | |
| **398.40 - 398.70: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| MORE STAINING OF PLAGIOCLASE IN MATRIX COMPARED TO REST OF INTERVAL. | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **396.60 - 396.80: Pyrite, Blebby, 20%** | | | | | | | | | | | | | | |
| **%** | | | | | | | | | | | | | | |
| **396.80 - 397.00: Pyrite/Chalcopyrite, Disseminated, 2-5%%** | | | | | | | | | | | | | | |
| DOMINANTLY PYRITE RANGING FROM MEDIUM GRAINED TO VERY FINE GRAINED. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **396.50 - 398.90: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| MATRIX COMPRISED OF INTERGRANULAR PYROXENE (55%) AND PLAGIOCLASE (45%). | | | | | | | | | | | | | | |
| **396.50 - 398.90: Xenolithic** | | | | | | | | | | | | | | |
| XENOLITHS ARE SUBANGULAR AND ARE COMPRISED OF QUARTZ RANGING FROM 5mm TO 5cm IN LENGTH | | | | | | | | | | | | | | |
| 398.90 | 402.30 | **IMGNO, Melagabbronorite** | | | | | | | | | | | | |
| MELAGABBRONORITE TO GABBRO. PYROXENE CUMMULATE TEXTURE WITH INTERSTITIAL PLAGIOCLASE DOMINATES THIS INTERVAL. FINE TO MEDIUM GRAINED WITH 1-2% FINE GRAINED INTERSTITIAL TO INTERCUMMULUS PYRRHOTITE/CHALCOPYRITE. 1-3% DISSEMINATED, MEDIUM TO COARSE GRAINED, PYRITE OCCURS AS EUHEDRAL CUBES OR BLEBBY AGGREGATES OF FINER GRAINED CRYSTALS. WEAK HEMATITIC HALOS AROUND ORTHOPYROXENE PHENOCRYSTS, GIVING THEM A MAROON COLOURED HALO. | | N500106 | 399.00 | 400.00 | 1.00 | 1,310.000 | 2,420.000 | 138.000 | 2.640 | 1.290 | 0.128 | 1.000 | 1.410 |
| | | | N500107 | 400.00 | 401.00 | 1.00 | 908.000 | 1,745.000 | 102.000 | 1.455 | 0.582 | 0.104 | 0.700 | 0.870 |
| | | | N500108 | 401.00 | 402.00 | 1.00 | 1,410.000 | 3,650.000 | 144.000 | 3.810 | 1.600 | 0.263 | 2.100 | 1.090 |
| | | | N500109 | 402.00 | 403.00 | 1.00 | 1,020.000 | 2,490.000 | 99.000 | 2.410 | 0.973 | 0.163 | 1.300 | 1.560 |
| **Mineralization:** | | | | | | | | | | | | | | |
| **398.90 - 402.30: Pyrrhotite/Chalcopyrite, Interstitial, 1-2%%** | | | | | | | | | | | | | | |
| VERY FINE GRAINED SULFIDE IS PREDOMINANTLY PYRRHOTITE PYRITE, WRAPPING AROUND SILICATES SHOWING FRACTIONATION TEXTURE. | | | | | | | | | | | | | | |
| **398.90 - 402.30: Pyrite, Disseminated, 1-3%%** | | | | | | | | | | | | | | |
| MEDIUM GRAINED EUHEDRAL TO ANHEDRAL PYRITE. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **398.90 - 400.80: Massive** | | | | | | | | | | | | | | |
| MASSIVE INTERGRANULAR TEXTURE THROUGH TOP OF INTERVAL. MORE GABBROIC IN COMPOSITION. | | | | | | | | | | | | | | |
| **398.90 - 402.30: Medium Grained** | | | | | | | | | | | | | | |
| **400.80 - 402.30: Orthocumulates** | | | | | | | | | | | | | | |
| PYROXENE CUMMULATE. SILCATES COMPOSITION IS APPROXIMATELY 55% CLINOPYROXENE, 25% ORTHOPYROXENE, 15% PLAGIOCLASE, 5% BIOTITE | | | | | | | | | | | | | | |
| 402.30 | 402.80 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| HEMATITIC GABBRO DYKE. SHARP UPPER AND LOWER CHILLED MARGINS. FINE GRAINED TO MEDIUM GRAINED AND INTERGRANULAR TEXTURE IN CENTRE OF DYKE. PLAGIOCLASE IS PREFERENTIALLY HEMATIZED, GIVING THEM A RED COLOUR. WEAK EPIDOTE ALTERATION. | | N500109 | 402.00 | 403.00 | 1.00 | 1,020.000 | 2,490.000 | 99.000 | 2.410 | 0.973 | 0.163 | 1.300 | 1.560 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **402.30 - 402.80: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| HEMATITE STAINING OF PLAGIOCLASE AND MINOR HEMATITE RICH VEINS. | | | | | | | | | | | | | | |
| **402.60 - 402.70: Epidote, Pervasive, Weak** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **402.30 - 402.80: Pyrite, Trace, TRACE%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **402.30 - 402.80: Chilled Margin** | | | | | | | | | | | | | | |
| **402.30 - 402.80: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| 50% PLAGIOCLASE, 50% PYROXENE. | | | | | | | | | | | | | | |
| 402.80 | 405.40 | **IMGNO, Melagabbronorite** | | | | | | | | | | | | |
| PYROXENE CUMMULATE MELAGABBRONORITE. AS ABOVE, CHARACTERIZED BY CUMMULATES OF WEAKLY HEMATIZED ORTHOPYROXENE AND UNALTERED CLINOPYROXENE WIHT INTERSTITIAL PLAGIOCLASE AND BIOTITE. 1-2% INTERCUMMULUS PYRRHOTITE AND CHALCOPYRITE AND 1-3% DISSEMINATED PYRITE. PYRITE BECOMES COARSE GRAINED AND MORE ABUNDANT IN AND PROXIMAL TO NARROW HEMATITE VEINS. | | N500110 | 403.00 | 404.00 | 1.00 | 1,350.000 | 3,530.000 | 128.000 | 2.860 | 1.070 | 0.269 | 1.300 | 1.310 |
| | | | N500111 | 404.00 | 405.00 | 1.00 | 1,020.000 | 1,630.000 | 112.000 | 1.145 | 0.444 | 0.061 | 0.600 | 1.770 |
| | | | N500112 | 405.00 | 406.00 | 1.00 | 1,110.000 | 2,650.000 | 109.000 | 1.950 | 0.683 | 0.180 | 1.300 | 1.310 |
| **Alteration:** | | | | | | | | | | | | | | |
| **403.60 - 403.60: Hematite, Veins, Moderate** | | | | | | | | | | | | | | |
| **405.10 - 405.10: Hematite, Veins, Strong** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **402.80 - 403.30: Pyrrhotite/Chalcopyrite, Intercumulus, 1%%** | | | | | | | | | | | | | | |
| OBSERVED TO WRAP AROUND PYROXENES, AND SHOWING FRACTIONATION TEXTURE. | | | | | | | | | | | | | | |
| **402.80 - 405.40: Pyrite, Disseminated, 1-3%%** | | | | | | | | | | | | | | |
| FINE TO MEDIUM GRAINED PYRITE INTERSTITIALY THROUGHOUT, COARSE GRAINED EUHEDRAL PYRITE WITHIN HEMATITE VEINS. | | | | | | | | | | | | | | |
| **403.30 - 405.40: Chalcopyrite, Trace, TRACE%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **402.80 - 405.40: Orthocumulates** | | | | | | | | | | | | | | |
| PYROXENE CUMMULATE TEXTURE WITH INTERSTITIAL PLAGIOCLASE. | | | | | | | | | | | | | | |
| **402.80 - 405.40: Medium Grained** | | | | | | | | | | | | | | |
| **405.30 - 405.40: Oikocrysts** | | | | | | | | | | | | | | |
| PLAGIOCLASE OIKOCRYSTS OBSERVED AT BOTTOM OF INTERVAL | | | | | | | | | | | | | | |
| 405.40 | 405.50 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| CHILLED MAFIC DYKE. THIN CARBONATE-HEMATITE VEINS OBSERVED. | | | N500112 | 405.00 | 406.00 | 1.00 | 1,110.000 | 2,650.000 | 109.000 | 1.950 | 0.683 | 0.180 | 1.300 | 1.310 |
| **Alteration:** | | | | | | | | | | | | | | |
| **405.40 - 405.50: Hematite, Veins, Weak** | | | | | | | | | | | | | | |
| **405.40 - 405.50: Carbonate, Veins, Moderate** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **405.40 - 405.50: Pyrite, Veins, 3%%** | | | | | | | | | | | | | | |
| ASSOCIATED WITH HEMATITE VEINS. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **405.40 - 405.50: Chilled Margin** | | | | | | | | | | | | | | |
| **405.40 - 405.50: Fine Grained - Aphanitic** | | | | | | | | | | | | | | |
| 405.50 | 407.80 | **IMGNO, Melagabbronorite** | | | | | | | | | | | | |
| | | PYROXENE CUMMULATE MELAGABBRONORITE. | N500113 | 406.00 | 407.00 | 1.00 | 966.000 | 1,755.000 | 105.000 | 1.085 | 0.411 | 0.107 | 0.800 | 0.980 |
| | | | N500114 | 407.00 | 408.00 | 1.00 | 1,150.000 | 1,985.000 | 116.000 | 1.235 | 0.484 | 0.109 | 1.300 | 0.810 |
| **Alteration:** | | | | | | | | | | | | | | |
| **405.50 - 407.80: Hematite, Pervasive, Weak** | | | | | | | | | | | | | | |
| | | HEMATIZATION OF ORHTOPYROXENE | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **405.50 - 405.80: Pyrrhotite/Chalcopyrite, Intercumulus, 1%%** | | | | | | | | | | | | | | |
| | | FINE TO MEDIUM GRAINED | | | | | | | | | | | | |
| **405.50 - 407.80: Chalcopyrite, Disseminated, TRACE%** | | | | | | | | | | | | | | |
| | | VERY FINE GRAINED CHALCOPYRITE THROUGHOUT INTERVAL. | | | | | | | | | | | | |
| **405.50 - 407.80: Pyrite, Disseminated, 1%%** | | | | | | | | | | | | | | |
| | | DOMINANTLY FINE GRAINED EUHEDRAL PYRITE. | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **405.50 - 407.80: Orthocumulates** | | | | | | | | | | | | | | |
| | | ORTHO AND CLINOPYROXENE CUMMULATE WITH INTERSTITIAL PLAGIOCLASE. | | | | | | | | | | | | |
| **405.50 - 407.80: Medium Grained** | | | | | | | | | | | | | | |
| 407.80 | 413.80 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GRADATIONAL CONTACT. PLAGIOCLASE CONTENT INCREASES TO 30-40% AND TEXTURE BECOMES DOMINANTLY INTERGRANULAR TO WEAKLY SUBOPHITIC. DISSEMINATED PYRITE AND CHALCOPYRITE ARE PATCHY THROUGHOUT INTERVAL, RANGING FROM 3% TO TRACE. HEMATIZED ORTHOPYROXENE NOT OBSERVED. BECOMES FINER GRAINED DOWN INTERVAL TO THE GRADATIONAL CONTACT WITH THE VARITEXTURED HORNBLENDE GABBRO. | N500115 | 408.00 | 409.00 | 1.00 | 1,560.000 | 4,830.000 | 115.000 | 3.780 | 1.395 | 0.406 | 2.400 | 1.590 |
| | | | N500121 | 409.00 | 410.00 | 1.00 | 1,360.000 | 1,855.000 | 121.000 | 1.305 | 0.529 | 0.090 | 0.800 | 1.250 |
| | | | N500116 | 410.00 | 411.00 | 1.00 | 1,280.000 | 4,510.000 | 103.000 | 3.370 | 1.475 | 0.300 | 2.700 | 1.360 |
| | | | N500117 | 411.00 | 412.00 | 1.00 | 1,170.000 | 4,850.000 | 102.000 | 3.830 | 1.880 | 0.315 | 2.400 | 1.180 |
| | | | N500118 | 412.00 | 413.00 | 1.00 | 1,430.000 | 4,200.000 | 119.000 | 3.020 | 1.680 | 0.221 | 1.900 | 1.140 |
| | | | N500119 | 413.00 | 414.00 | 1.00 | 923.000 | 2,670.000 | 115.000 | 1.325 | 0.765 | 0.106 | 1.600 | 0.800 |
| **Alteration:** | | | | | | | | | | | | | | |
| **413.20 - 413.80: Hornblende, Pervasive, Moderate** | | | | | | | | | | | | | | |
| | | URALITIZATION OF PYROXENE IS GRADATIONAL TO CONTACT WITH HORNBLENDE GABBRO. | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **407.80 - 413.80: Pyrrhotite/Pyrite/Chalcopyrite, Disseminated, 1-2%%** | | | | | | | | | | | | | | |
| | | FINE GRAINED DISSEMINATED PYRITE AND CHALCOPYRITE DOMINATE WITH MINOR PYRRHOTITE. | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **407.80 - 413.80: Subophitic** | | | | | | | | | | | | | | |
| PLAGIOCLASE OIKOCRYSTS BEGIN TO APPEAR THROUGHOUT INTERVAL. | | | | | | | | | | | | | | |
| **407.80 - 413.80: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| **413.20 - 413.80: Varitextured** | | | | | | | | | | | | | | |
| BEGIN TO SEE COARSE GRAINED CARBONATE AND HEMATITIZED PLAGIOCLASE. | | | | | | | | | | | | | | |
| 413.80 | 415.20 | **IHGB, Hornblende Gabbro** | | | | | | | | | | | | |
| VARITEXTURED HORNBLENDE GABBRO. CHARACTERIZED BY THE PRESENCE OF COARSE GRAINED AMPHIBOLE AND CARBONATE WITHIN A FINE GRAINED MATRIX OF PLAGIOCLASE AND AMPHIBOLE/PYROXENE. LOOKS SIMILAR TO ROCKS THAT HOST MINERALIZATION IN HISTORIC HOLE SL-11-001. QUARTZ XENOLITHS FOUND AT TOP OF INTERVAL. COARSE GRAINED BLEBBY CHALCOPYRITE AND PYRITE AT TOP OF INTERVAL. HEMATITE ALTERED GABBROIC VEINS FOUND IN CENTRE OF INTERVAL. | | N500120 | 414.00 | 415.20 | 1.20 | 744.000 | 1,955.000 | 89.000 | 1.450 | 0.925 | 0.088 | 0.800 | 0.540 |
| **Texture:** | | | | | | | | | | | | | | |
| **413.80 - 415.20: Varitextured** | | | | | | | | | | | | | | |
| 415.20 | 480.60 | **IGB, Gabbro** | | | | | | | | | | | | |

| From | To | Lithology |
|---|---|---|
| | | GABBRO SEQUENCE. CAN BE BROKEN INTO TWO DISTINCT GROUPS BASED ON ALTERATION AND TEXTURE. FROM 415.2-442.5m AND 451.8-455.1m ROCK IS A MEDIUM TO FINE GRAINED UNALTERED GABBRO, WITH DISTINCT OIKOCRYSTIC TEXTURE. PLAGIOCLASE OCCURS AS MEDIUM GRAINED OIKOCRYSTS, WITH FINE GRAINED CHADACRYSTS OF CLINOPYROXENE AND PLAGIOCLASE. THIS UNIT CONTAINS BLEBBY TO DISSEMINATED PYRRHOTITE AND CHALCOPYRITE MINERALIZATION AS INDICATED IN THE MINERALIZATION LOG. FROM 442.5-451.8m AND 455.1-480.6m THE GABBRO IS MODERATELY TO STRONGLY HEMATITE ALTERED (PINK-RED PLAGIOCLASE) AND VARIABLY SAUSSERITIZED. IT ALSO HAS AN OIKOCRYSTIC TEXTURE, WITH COARSE GRAINED PLAGIOCLASE OIKOCRYST SURROUNDING CLINOPYROXENE AND PLAGIOCLASE. THIS UNIT MAY CONTAIN DISSEMINATED PYRITE, BUT IS LARGELY UNMINERALIZED. LOWER CONTACT WITH BRECCIATED QUETICO SHOWS NO CHILLED MARGIN. |

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N500178 | 415.20 | 416.00 | 0.80 | 167.000 | 124.000 | 53.000 | 0.036 | 0.019 | 0.002 | 0.250 | 0.090 |
| N500179 | 416.00 | 417.50 | 1.50 | 160.000 | 133.000 | 60.000 | 0.015 | 0.012 | 0.002 | 0.250 | 0.120 |
| N500180 | 417.50 | 419.00 | 1.50 | 178.000 | 131.000 | 63.000 | 0.017 | 0.008 | 0.002 | 0.250 | 0.100 |
| N500181 | 419.00 | 420.50 | 1.50 | 170.000 | 135.000 | 57.000 | 0.018 | 0.008 | 0.003 | 0.250 | 0.060 |
| N500182 | 420.50 | 422.00 | 1.50 | 170.000 | 136.000 | 60.000 | 0.018 | 0.007 | 0.002 | 0.250 | 0.130 |
| N500183 | 422.00 | 423.50 | 1.50 | 185.000 | 149.000 | 64.000 | 0.018 | 0.008 | 0.002 | 0.250 | 0.140 |
| N500184 | 423.50 | 425.00 | 1.50 | 173.000 | 155.000 | 58.000 | 0.018 | 0.007 | 0.002 | 0.250 | 0.120 |
| N500185 | 425.00 | 426.50 | 1.50 | 149.000 | 131.000 | 49.000 | 0.015 | 0.007 | 0.001 | 0.250 | 0.320 |
| N500186 | 426.50 | 428.00 | 1.50 | 198.000 | 152.000 | 61.000 | 0.019 | 0.007 | 0.004 | 0.250 | 0.150 |
| N500187 | 428.00 | 429.50 | 1.50 | 192.000 | 137.000 | 63.000 | 0.018 | 0.007 | 0.003 | 0.250 | 0.170 |
| N500188 | 429.50 | 431.00 | 1.50 | 187.000 | 130.000 | 62.000 | 0.017 | 0.007 | 0.002 | 0.250 | 0.220 |
| N500189 | 431.00 | 432.50 | 1.50 | 185.000 | 133.000 | 61.000 | 0.016 | 0.006 | 0.002 | 0.250 | 0.420 |
| N500190 | 432.50 | 434.00 | 1.50 | 186.000 | 138.000 | 59.000 | 0.018 | 0.008 | 0.002 | 0.250 | 0.300 |
| N500191 | 434.00 | 435.50 | 1.50 | 192.000 | 153.000 | 62.000 | 0.020 | 0.011 | 0.002 | 0.250 | 0.510 |
| N500192 | 435.50 | 437.00 | 1.50 | 184.000 | 142.000 | 62.000 | 0.022 | 0.013 | 0.002 | 0.250 | 0.320 |
| N500193 | 437.00 | 438.50 | 1.50 | 177.000 | 148.000 | 60.000 | 0.026 | 0.012 | 0.002 | 0.250 | 0.270 |
| N500194 | 438.50 | 440.00 | 1.50 | 394.000 | 432.000 | 80.000 | 0.131 | 0.104 | 0.012 | 0.250 | 0.210 |
| N500195 | 440.00 | 441.50 | 1.50 | 309.000 | 292.000 | 65.000 | 0.112 | 0.067 | 0.014 | 0.250 | 0.160 |
| N500196 | 441.50 | 443.00 | 1.50 | 402.000 | 1,280.000 | 68.000 | 0.223 | 0.184 | 0.038 | 0.500 | 0.280 |
| N500198 | 443.00 | 444.50 | 1.50 | 395.000 | 1,540.000 | 72.000 | 0.152 | 0.141 | 0.024 | 0.250 | 0.330 |
| N500199 | 444.50 | 446.00 | 1.50 | 258.000 | 539.000 | 70.000 | 0.043 | 0.037 | 0.016 | 0.250 | 0.200 |
| N500200 | 446.00 | 447.50 | 1.50 | 254.000 | 716.000 | 71.000 | 0.057 | 0.055 | 0.008 | 0.250 | 0.250 |
| N500201 | 447.50 | 449.00 | 1.50 | 242.000 | 660.000 | 68.000 | 0.064 | 0.050 | 0.008 | 0.250 | 0.240 |
| N500202 | 449.00 | 450.50 | 1.50 | 194.000 | 232.000 | 66.000 | 0.018 | 0.009 | 0.002 | 0.250 | 0.180 |
| N500203 | 450.50 | 452.00 | 1.50 | 237.000 | 560.000 | 76.000 | 0.042 | 0.032 | 0.006 | 0.250 | 0.330 |
| N500204 | 452.00 | 453.50 | 1.50 | 249.000 | 457.000 | 87.000 | 0.085 | 0.054 | 0.006 | 0.250 | 0.320 |
| N500205 | 453.50 | 455.00 | 1.50 | 218.000 | 343.000 | 79.000 | 0.039 | 0.025 | 0.004 | 0.250 | 0.220 |
| N500206 | 455.00 | 456.50 | 1.50 | 241.000 | 994.000 | 68.000 | 0.183 | 0.147 | 0.011 | 0.250 | 0.420 |
| N500207 | 456.50 | 458.00 | 1.50 | 116.000 | 227.000 | 34.000 | 0.016 | 0.012 | 0.002 | 0.600 | 0.160 |
| N500208 | 458.00 | 459.50 | 1.50 | 170.000 | 261.000 | 67.000 | 0.035 | 0.028 | 0.004 | 0.250 | 0.340 |
| N500209 | 459.50 | 461.00 | 1.50 | 166.000 | 200.000 | 65.000 | 0.015 | 0.010 | 0.002 | 0.250 | 0.210 |
| N500210 | 461.00 | 462.50 | 1.50 | 193.000 | 278.000 | 73.000 | 0.033 | 0.024 | 0.005 | 0.250 | 0.230 |
| N500211 | 462.50 | 464.00 | 1.50 | 199.000 | 245.000 | 70.000 | 0.030 | 0.014 | 0.004 | 0.250 | 0.150 |

| From | To | Lithology |
|---|---|---|

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N500212 | 464.00 | 465.50 | 1.50 | 193.000 | 194.000 | 61.000 | 0.026 | 0.014 | 0.004 | 0.250 | 0.140 |
| N500213 | 465.50 | 467.00 | 1.50 | 186.000 | 195.000 | 69.000 | 0.035 | 0.019 | 0.006 | 0.250 | 0.230 |
| N500214 | 467.00 | 468.50 | 1.50 | 190.000 | 221.000 | 73.000 | 0.026 | 0.013 | 0.003 | 0.250 | 0.320 |
| N500215 | 468.50 | 470.00 | 1.50 | 178.000 | 188.000 | 64.000 | 0.018 | 0.009 | 0.002 | 0.250 | 0.500 |
| N500216 | 470.00 | 471.50 | 1.50 | 186.000 | 215.000 | 66.000 | 0.026 | 0.017 | 0.003 | 0.250 | 0.740 |
| N500218 | 471.50 | 473.00 | 1.50 | 194.000 | 214.000 | 68.000 | 0.020 | 0.013 | 0.002 | 0.250 | 0.990 |
| N500219 | 473.00 | 474.50 | 1.50 | 175.000 | 220.000 | 58.000 | 0.024 | 0.018 | 0.002 | 0.250 | 0.640 |
| N500220 | 474.50 | 476.00 | 1.50 | 233.000 | 476.000 | 67.000 | 0.083 | 0.076 | 0.009 | 0.250 | 0.820 |
| N500221 | 476.00 | 477.50 | 1.50 | 147.000 | 230.000 | 48.000 | 0.046 | 0.044 | 0.004 | 0.250 | 0.830 |
| N500222 | 477.50 | 479.00 | 1.50 | 294.000 | 585.000 | 74.000 | 0.141 | 0.125 | 0.012 | 0.250 | 0.770 |
| N500223 | 479.00 | 480.50 | 1.50 | 232.000 | 456.000 | 61.000 | 0.082 | 0.075 | 0.009 | 0.250 | 0.650 |
| N500224 | 480.50 | 482.00 | 1.50 | 156.000 | 180.000 | 37.000 | 0.047 | 0.044 | 0.002 | 0.250 | 0.600 |

**Alteration:**

**425.80 - 426.30: Hematite, Veins, Strong**

DYKE OF RED GABBRO, SHARP CONTACTS.

**443.30 - 451.80: Hematite, Pervasive, Weak**

RED STAINING ON PLAGIOCLASE

**443.30 - 451.80: Epidote, Patchy, Moderate**

ALTERATION RANGES FROM WEAK TO VERY STRONG IN PLACES. GIVES CORE A GREEN LOOK.

**454.90 - 457.90: Hematite, Patchy, Strong**

**454.90 - 457.90: Epidote, Patchy, Strong**

**459.10 - 459.20: Hematite, Veins, Strong**

DYKE OF RED GABBRO WITH SHARP CONTACTS.

**459.20 - 480.60: Epidote, Pervasive, Moderate**

**459.20 - 480.60: Hematite, Pervasive, Moderate**

**Mineralization:**

**432.65 - 432.75: Pyrite, Disseminated, 1%%**

**439.80 - 440.00: Pyrrhotite/Chalcopyrite, Blebby, 1%%**

**442.80 - 443.30: Pyrrhotite/Chalcopyrite, Blebby, 1%%**

**467.00 - 476.00: Pyrite, Disseminated, TRACE%**

**476.00 - 480.60: Pyrrhotite/Pyrite/Chalcopyrite, Disseminated, 1%%**

PATCHY MINERALIZATION THROUGHOUT INTERVAL, RANGING FROM VERY FINE GRAINED PYRITE TO BLEBBY PYRRHOTITE + CHALCOPYRITE.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **415.20 - 439.80: Medium Grained** | | | | | | | | | | | | | | |
| 55% CLINOPYROXENE, 45% PLAGIOCLASE ON AVERAGE. | | | | | | | | | | | | | | |
| **415.20 - 480.60: Oikocrysts** | | | | | | | | | | | | | | |
| PLAGIOCLASE ENCLOSING EARLIER PLAGIOCLASE AND CLINOPYROXENE. | | | | | | | | | | | | | | |
| **439.80 - 442.50: Fine Grained** | | | | | | | | | | | | | | |
| 55% CLINOPYROXENE, 45% PLAGIOCLASE ON AVERAGE. | | | | | | | | | | | | | | |
| **442.50 - 442.60: Pegmatitic** | | | | | | | | | | | | | | |
| PEGMAITIC AMPHIBOLE AND K-FELDSPAR WITHIN GABBRO. | | | | | | | | | | | | | | |
| **442.60 - 443.00: Coarse Grained** | | | | | | | | | | | | | | |
| **443.00 - 443.90: Medium Grained** | | | | | | | | | | | | | | |
| 55% CLINOPYROXENE, 45% PLAGIOCLASE ON AVERAGE. | | | | | | | | | | | | | | |
| **443.90 - 451.80: Medium Grained - Coarse Grained** | | | | | | | | | | | | | | |
| 50% CLINOPYROXENE, 50% PLAGIOCLASE ON AVERAGE | | | | | | | | | | | | | | |
| **451.80 - 454.90: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| 55% CLINOPYROXENE, 45% PLAGIOCLASE ON AVERAGE | | | | | | | | | | | | | | |
| **454.90 - 457.90: Varitextured** | | | | | | | | | | | | | | |
| STRONGLY ALTERED ZONE. PATCHES AND PODS OF PEGMATITIC HEMATIZED GABBRO ALONG WITH FINE GRAINED SAUSSERITIZED GREEN GABBRO. | | | | | | | | | | | | | | |
| **454.90 - 476.60: Medium Grained - Coarse Grained** | | | | | | | | | | | | | | |
| **476.60 - 477.40: Varitextured** | | | | | | | | | | | | | | |
| HEMATITIC GABBRO VEIN | | | | | | | | | | | | | | |
| **477.40 - 480.60: Medium Grained - Fine Grained** | | | | | | | | | | | | | | |
| SLIGHTLY FINER GRAINED TOWARDS CONTACT. NO CHILL MARGIN OBSERVED. | | | | | | | | | | | | | | |
| 480.60 | 529.00 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. STRONGLY HEMATIZED FOOTWALL ROCKS. BRECCIATED UPPER CONTACT WITH INTRUSION. ABUNDANT PYRITE THROUGHOUT. | | | N500225 | 482.00 | 482.50 | 0.50 | 93.000 | 10.000 | 27.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.210 |
| **Alteration:** | | | | | | | | | | | | | | |
| **480.60 - 529.00: Hematite, Patchy, Strong** | | | | | | | | | | | | | | |
| RED STAINING ON INDIVIDUAL BEDS GIVES ROCK A STRIPED APPEARANCE. MINOR GRANITIC VEINS ARE STRONGLY HEMATIZED. | | | | | | | | | | | | | | |
| **507.90 - 509.80: Quartz, Veins, Strong** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **480.60 - 529.00: Pyrite, Fracture Filling, 1-2%%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **480.60 - 529.00: Banded** | | | | | | | | | | | | | | |
| **480.60 - 529.00: Medium Grained** | | | | | | | | | | | | | | |

## Survey Data

| Depth | Azimuth Decimal | Dip Decimal | Test Type | Flag | Comments |
|---|---|---|---|---|---|
| 32.00 | 163.10 | -74.30 | REFLEX | O | |
| 62.00 | 168.30 | -73.50 | REFLEX | O | |
| 92.00 | 168.20 | -72.90 | REFLEX | O | |
| 122.00 | 173.00 | -72.00 | REFLEX | O | |
| 152.00 | 172.30 | -71.30 | REFLEX | O | |
| 182.00 | 174.20 | -70.70 | REFLEX | O | |
| 242.00 | 330.50 | -72.70 | REFLEX | D | |
| 272.00 | 176.60 | -70.80 | REFLEX | O | |
| 302.00 | 176.50 | -70.10 | REFLEX | O | |
| 332.00 | 177.30 | -70.40 | REFLEX | O | |
| 362.00 | 175.40 | -70.50 | REFLEX | O | |
| 392.00 | 168.80 | -70.30 | REFLEX | O | |
| 422.00 | 181.80 | -70.10 | REFLEX | O | |
| 461.00 | 182.70 | -70.00 | REFLEX | O | |
| 497.00 | 184.90 | -69.90 | REFLEX | O | |
| 526.00 | 189.60 | -69.80 | REFLEX | O | |

# Detailed Log Report
# Hole Number SL-13-003

| Project | | Coordinates | | Collar | | | |
|---|---|---|---|---|---|---|---|
| **Project Name:** | SUNDAY LAKE | **Primary Coordinates Grid:** | UTM83-16 | **Collar Dip:** | -60.00 | **Collar Az:** | 280.00 |
| **Project Code:** | 23 | **North:** | 5,395,755.00 | **Length:** | 356.00 | | |
| **Location:** | SUNDAY LAKE | **East:** | 334,406.00 | **Hole Size:** | | | |
| **Start Date:** | Nov 02, 2013 | **Elev:** | 494.00 | **Hole Type:** | DD | | |
| **Completed Date:** | | **Destination Coordinates Grid:** | LL83 | **Casing:** | | | |
| **Contractor:** | | **North:** | 48.69 | **Collar Survey:** | N | **Plugged:** | N |
| **Core Storage:** | THUNDER BAY | **East:** | -89.25 | **Multishot Survey:** | N | **Pulse EM Survey:** | N |
| **Units:** | METRIC | **Elev:** | 494.00 | | | | |

## Detailed Lithology

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 4.00 | **CAS, Casing** | | | | | | | | | | | | |
| 4.00 | 78.50 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED. MINOR VEINS/BANDS OF TONALITIC LEUCOSOME.

**Structure:**

**4.00 - 78.50: Foliation**

DEFINED BY BIOTITE ORIENTATION AND BANDING. ~70-80 DTCA

**Texture:**

**4.00 - 12.70: Fine Grained - Medium Grained**

BIOTITE RICH. STRONGLY FOLIATED

**4.00 - 78.50: Foliated**

**12.70 - 26.90: Play Phyric**

PLAGIOCLASE PHYRIC TEXTURE. UP TO 5mm LONG. SANDSTONE PROTOLITH?

**26.90 - 78.50: Fine Grained - Medium Grained**

BIOTITE RICH, STRONGLY FOLIATED

| From | To | Lithology |
|---|---|---|
| 78.50 | 80.30 | **IGR, Granite** |

PEGMATITIC GRANITE DYKE. MODERATELY SERICITIZED. MYRMEKITIC TEXTURE OBSERVED. BIOTITE AND MUSCOVITE OBSERVED.

**Alteration:**

**78.50 - 80.30: Sericite, Patchy, Weak**

**Texture:**

**78.50 - 80.30: Pegmatitic**

**78.50 - 80.30: Fractured**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.30 | 91.20 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. NUMEROUS GRANITIC/TONALITIC DYKES/BANDS NEAR TOP OF INTERVAL. FRACTURE FILLING HEMATITE ALTERATION ASSOCIATED WITH PYRITE (89-91.2). BLEACHED HALOS OBSERVED AROUND FRACTURES. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **89.00 - 91.20: Hematite, Fracture Filling, Weak** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **89.00 - 91.20: Pyrite, Fracture Filling, 1%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **80.30 - 91.20: Foliated** | | | | | | | | | | | | | | |
| **80.30 - 91.20: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| **89.00 - 91.20: Fractured** | | | | | | | | | | | | | | |
| BLEACHED HALOS AROUND FRACTURES ALONG WITH HEMATITE AND PYRITE | | | | | | | | | | | | | | |
| 91.20 | 92.00 | **IGR, Granite** | | | | | | | | | | | | |
| VERY FRACTURED AND POROUS GRANITE. FLAT BLACK AMPHIBOLE CRYSTALS THROUGHOUT. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **91.20 - 92.00: Hornblende, Pervasive, Moderate** | | | | | | | | | | | | | | |
| EUHEDARL COARSE GRAINED AMPHIBOLE WITHIN GRANITE | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **91.20 - 92.00: Coarse Grained** | | | | | | | | | | | | | | |
| **91.20 - 92.00: Fractured** | | | | | | | | | | | | | | |
| 92.00 | 94.70 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. CORE IS BROKEN UP AND FAIRLY FINE GRAINED. WEAK HEMATITE ALTERATION ALONG FRACTURE PLANES ASSOCIATED WITH A BLEACHED HALO AND FINE GRAINED PYRITE. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **92.00 - 94.70: Hematite, Fracture Filling, Weak** | | | | | | | | | | | | | | |
| ASSOCIATED WITH BLEACHED HALOS AROUND FRACTURES | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **92.00 - 94.70: Medium Grained - Fine Grained** | | | | | | | | | | | | | | |
| **92.00 - 94.70: Foliated** | | | | | | | | | | | | | | |
| **92.00 - 94.70: Fractured** | | | | | | | | | | | | | | |
| **93.70 - 94.10: Broken Core** | | | | | | | | | | | | | | |
| 94.70 | 95.10 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| MAFIC DYKE. DISTINCT CHILLED MARGINS WITH FINE GRAINED MASSIVE CORE. | | | Q167034 | 94.70 | 95.10 | 0.40 | 41.000 | 7.000 | 31.000 | 0.005 | 0.003 | 0.002 | 0.250 | 0.360 |
| **Alteration:** | | | | | | | | | | | | | | |
| **94.70 - 95.10: Carbonate, Veins, Moderate** | | | | | | | | | | | | | | |
| VERY NARROW CARBONATE VEINLETS. ASSOCIATED WITH PYRITE | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **94.70 - 95.10: Pyrite, Veins, 1%** | | | | | | | | | | | | | | |
| ASSOCIATED WITH CARBONATE VEINS | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**94.70 - 95.10: Fine Grained**

**94.70 - 95.10: Chilled Margin**

**94.70 - 95.10: Massive**

95.10 106.20 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. HEMATITE ALTERATION SLIGHTLY STRONGER THROUGHOUT, OCCURING AS A PERVASSIVE MAROON STAINING AND AS FRACTURE FILLING VEINLETS.

**Alteration:**

**95.10 - 101.00: Hematite, Fracture Filling, Weak**

**Texture:**

**95.10 - 96.00: Fractured**

HEMATITE ALTERATION AND BLEACHED HALOS AROUND FRACTURES HERE

**95.10 - 101.00: Foliated**

**95.10 - 101.00: Medium Grained**

106.20 106.90 **IGR, Granite**

GRANITE DYKE. POROUS, BROKEN CORE. RED-GREEN COLOUR

**Texture:**

**106.20 - 106.90: Coarse Grained**

**106.20 - 106.90: Fractured**

106.90 117.55 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. MODERATELY TO STRONGLY HEMATIZED. PERVASSIVE MAROON STAINING THROUGHOUT. VERY FRACTURED INTERVAL.

**Alteration:**

**106.90 - 117.55: Hematite, Pervasive, Moderate**

**108.50 - 110.00: Carbonate, Fracture Filling, Weak**

CARBONATE AND HEMATITE VEINS INTRUDE ALONG FRACTURES

**Texture:**

**106.90 - 117.55: Medium Grained**

**106.90 - 117.55: Foliated**

117.55 118.60 **IGR, Granite**

GRANITE WITH QUARTZ VEINS. GRANITE IS BRICK RED IN COLOUR, STRONGLY HEMATIZED.

**Alteration:**

**117.70 - 118.20: Quartz, Veins, Strong**

MASSIVE QUARTZ VEIN WITH INTERSTITIAL SERICITE

**118.20 - 118.60: Hematite, Pervasive, Strong**

BRICK RED COLOUR

**Texture:**

**117.55 - 118.60: Coarse Grained**

118.60 119.60 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAKLY HEMATIZED, STRONGLY FRACTURED.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **118.60 - 119.60: Hematite, Pervasive, Weak** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **118.60 - 119.60: Foliated** | | | | | | | | | | | | | | |
| **118.60 - 119.60: Medium Grained** | | | | | | | | | | | | | | |
| 119.60 | 124.30 | **IGB, Gabbro** | | | | | | | | | | | | |
| MAGMATIC BRECCIA: ANGULAR CLASTS OF COUNTRY ROCK CONSISTING OF METASEDIMENT, QUARTZ AND GRANITIC FRAGMETNS ARE SUPPORTED BY AN APHANITIC GABBROIC MATRIX. CLAST SIZES RANGE FROM 20cm TO 1cm. CLASTS ARE TYPICALLY HEMATIZED AND CONTAIN UP TO 10% FINE GRAINED DISSEMINATED PYRITE. | | | Q167035 | 123.50 | 124.30 | 0.80 | 81.000 | 67.000 | 29.000 | 0.007 | 0.004 | 0.003 | 0.250 | 1.580 |
| **Alteration:** | | | | | | | | | | | | | | |
| **119.60 - 124.30: Hematite, Patchy, Moderate** | | | | | | | | | | | | | | |
| ALTERATION OCCURS IN BRECCIA CLASTS GIVING THEM A RED-MAROON COLOUR | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **119.60 - 124.30: Pyrite, Fragments, 1-10%%** | | | | | | | | | | | | | | |
| REPLACEMENT TYPE MINERALIZATION IN FRAGMENTS. VERY FINE GRAINED | | | | | | | | | | | | | | |
| **124.20 - 124.30: Pyrrhotite, Disseminated, 5%%** | | | | | | | | | | | | | | |
| FINE GRAINED PYRRHOTITE WITHIN HEMATITE RICH 'VEIN' NEAR CONTACT WITH NEXT GABBROIC UNIT. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **119.60 - 124.30: Aphanitic** | | | | | | | | | | | | | | |
| MATRIX | | | | | | | | | | | | | | |
| **119.60 - 124.30: Brecciated** | | | | | | | | | | | | | | |
| 124.30 | 125.30 | **IGB, Gabbro** | | | | | | | | | | | | |
| MAROON COLOURED QUARTZ GABBRO. WEAK HEMATITE STAINING ON PLAGIOCLASE. SUBOPHITIC TEXTURE WITH PODS OF QUARTZ CARBONATE GIVING UNIT A SPOTTED APPEARANCE. QUARTZ CLASTS ARE FINE GRAINED AND TYPICALLY RIMMED BY PLAGIOCLASE. 1-2% FINE GRAINED DISSEMINATED PYRITE THROUGHOUT. | | | Q167036 | 124.30 | 125.40 | 1.10 | 73.000 | 126.000 | 44.000 | 0.013 | 0.005 | 0.003 | 0.250 | 1.430 |
| **Alteration:** | | | | | | | | | | | | | | |
| **124.30 - 125.30: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| OCCURS AS A STAINING ON PLAGIOCLASE AND AS NARROW VEINLETS | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **124.30 - 125.30: Pyrite, Disseminated, 2%%** | | | | | | | | | | | | | | |
| FINE GRAINED EUHEDRAL | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **124.30 - 125.30: Subophitic** | | | | | | | | | | | | | | |
| **124.30 - 125.30: Porphyritic** | | | | | | | | | | | | | | |
| QUARTZ CARBONATE AGGREGATES | | | | | | | | | | | | | | |
| 125.30 | 125.90 | **IGB, Gabbro** | | | | | | | | | | | | |
| MAGMATIC BRECCIA. AS ABOVE, CLASTS OF QUETICO SEDIMENTS IN AN APHANITIC GABBROIC MATRIX. FINE GRAINED DISSEMINATED PYRITE WITHIN CLASTS. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Alteration:** | | | | | | | | | | | | |
| | | **125.30 - 125.90: Hematite, Patchy, Moderate** | | | | | | | | | | | | |
| | | HEMATITE STAINING ON CLASTS | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **125.30 - 125.90: Pyrite, Clasts, 2%%** | | | | | | | | | | | | |
| | | VERY FINE GRAINED | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **125.30 - 125.90: Brecciated** | | | | | | | | | | | | |
| | | **125.30 - 125.90: Aphanitic** | | | | | | | | | | | | |
| | | MATRIX | | | | | | | | | | | | |
| 125.90 | 137.00 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| | | CATACLASTITE. BRECCIATED INTERVAL (125.9-127) FOLLOWED BY BROKEN AND WASHED OUT CORE. FRAGMENTS ARE ARE GREY-GREEN IN COLOUR AND ARE COMPRISED OF BROKEN UP QUETICO SEDIMENTS. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **125.90 - 127.00: Brecciated** | | | | | | | | | | | | |
| | | ANGULAR FRAGMENTS OF QUETICO AND GRANITE | | | | | | | | | | | | |
| | | **127.00 - 137.00: Broken Core** | | | | | | | | | | | | |
| | | GRAVEL FOLLOWED BY BLOCKY FRAGMENTS OF BRECCIATED QUETICO | | | | | | | | | | | | |
| 137.00 | 145.50 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | HEMATIZED GABBRO. SIMILAR IN APPEARANCE TO QUARTZ GABBRO. FINE GRAINED TO MEDIUM GRAINED, SUBHEDRAL PLAGIOCLASE (45%), PYROXENE (55%). TRACE PYRITE THROUGHOUT. DISTINCT, WIDE CHILL MARGINS AT UPPER AND LOWER CONTACTS. PERVASSIVE CARBONATE ALTERATION THROUGHOUT. | Q167037 | 137.90 | 139.50 | 1.60 | 29.000 | 30.000 | 36.000 | 0.003 | 0.001 | 0.002 | 0.250 | 0.320 |
| | | | Q167038 | 139.50 | 141.00 | 1.50 | 30.000 | 18.000 | 38.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.260 |
| | | | Q167039 | 141.00 | 142.50 | 1.50 | 42.000 | 122.000 | 38.000 | 0.003 | 0.001 | 0.002 | 0.250 | 0.490 |
| | | | Q167040 | 142.50 | 144.00 | 1.50 | 40.000 | 20.000 | 27.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.210 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **137.00 - 145.50: Hematite, Pervasive, Weak** | | | | | | | | | | | | |
| | | ALTERS PLAGIOCLASE. | | | | | | | | | | | | |
| | | **137.00 - 145.50: Carbonate, Patchy, Moderate** | | | | | | | | | | | | |
| | | VEINLETS AND OCELLI OF CARBONATE THROUGHOUT INTERVAL. | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **137.00 - 145.50: Pyrite, Disseminated, TRACE%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **137.00 - 138.00: Very Fine Grained** | | | | | | | | | | | | |
| | | **137.00 - 145.50: Chilled Margin** | | | | | | | | | | | | |
| | | GREY-GREEN COLOURED CHILLED MARGINS. LOWER CONTACT IS BRECCIATED | | | | | | | | | | | | |
| | | **138.00 - 143.20: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| | | **143.20 - 145.50: Very Fine Grained** | | | | | | | | | | | | |
| 145.50 | 151.30 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| | | BROKEN CORE AND CATACLASTITE. FAULT ZONE RICH IN QUETICO SEDIMENT FRAGMENTS | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **145.50 - 151.30: Broken Core** | | | | | | | | | | | | | | |
| **145.50 - 151.30: Brecciated** | | | | | | | | | | | | | | |
| 151.30 | 154.90 | **IGB, Gabbro** | | | | | | | | | | | | |
| MAGMATIC BRECCIA. INTERVAL STARTS WHERE MAFIC BRECCIA MATRIX IS OBSERVED. CARRIES OVER A LARGE INTERVAL OF BROKEN CORE UNTIL SHARP CONTACT WITH NEXT GABBROIC UNIT. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **151.30 - 154.90: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **151.30 - 153.90: Broken Core** | | | | | | | | | | | | | | |
| GRAVEL, AND FRACTURED CORE | | | | | | | | | | | | | | |
| **153.90 - 154.90: Brecciated** | | | | | | | | | | | | | | |
| FRAGMENTS OF MAROON COLOURED QUETICO UP TO 10cm LONG WITHIN APHANITIC MAFIC MATRIX. | | | | | | | | | | | | | | |
| 154.90 | 156.40 | **IGB, Gabbro** | | | | | | | | | | | | |
| QUARTZ GABBRO. AS BEFORE, PODS OF QUARTZ CARBONATE GIVE CORE A SPOTTED APPEARANCE. MODERATELY HEMATIZED THROUGHOUT INTERVAL. SHARP UPPER CONTACT WITH FRAGMENT OF QUETICO, BUT NO CHILL MARGIN. LOWER CONTACT WITH GRANITE HAS A NARROW CHILL MARGIN, WITH MELTED, PARTLY ASSIMILATED FRAGMENTS OF GRANITE. SUBOPHITIC TEXTURE. FINE GRAINED DISSEMINATED PYRITE THROUHGOUT INTERVAL. BLEBBY PYRITE WITH MINOR CHALCOPYRITE ADJACENT TO QUETICO XENOLITH AT 157.75. | | | Q167041 | 155.00 | 156.40 | 1.40 | 62.000 | 67.000 | 41.000 | 0.009 | 0.004 | 0.003 | 0.250 | 2.720 |
| **Alteration:** | | | | | | | | | | | | | | |
| **154.90 - 156.40: Carbonate, Pods, Moderate** | | | | | | | | | | | | | | |
| QUARTZ CARBONATE PODS/OCELLI | | | | | | | | | | | | | | |
| **154.90 - 156.40: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| STAINING ON PLAGIOCLASE | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **154.90 - 156.40: Pyrite, Disseminated, 2-3%%** | | | | | | | | | | | | | | |
| **155.75 - 155.75: Pyrite/Chalcopyrite, Blebby, 10%%** | | | | | | | | | | | | | | |
| AGGREGATE OF FINER GRAINED PYRITE WITH STRINGER CHALCOPYRITE INSIDE BLEB. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **154.90 - 156.40: Medium Grained** | | | | | | | | | | | | | | |
| SUBHEDRAL PYROXENE PLAGIOCLASE AND QUARTZ | | | | | | | | | | | | | | |
| **155.70 - 156.00: Xenolithic** | | | | | | | | | | | | | | |
| FRAGMENT OF HEMATIZED QUETICO. | | | | | | | | | | | | | | |
| **156.40 - 156.40: Chilled Margin** | | | | | | | | | | | | | | |
| 156.40 | 157.50 | **IGR, Granite** | | | | | | | | | | | | |
| BRICK RED GRANITE TO QUARTZ SYENITE. FRACTURING OBSERVED IN ORTHOCLASE AND QUARTZ CRYSTALS. BRICK RED IN COLOUR. INTERSTITIAL AMPHIBOLES APPEARS TO BE DUE TO ALTERATION. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **156.40 - 157.50: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| BRICK RED COLOUR | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**156.40 - 157.50: Pegmatitic**

**156.40 - 157.50: Fractured**

157.50 183.60 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. MODERATELY FRACTURED THROUGHOUT WITH CARBONATE VEINLETS INFILLING. MINOR GRANITIC DYKES ARE WITHIN INTERVAL. PYRITE FOUND ALONG NEARLY ALL FRACTURE SURFACES.

**Alteration:**

**157.50 - 183.60: Carbonate, Fracture Filling, Weak**

**Mineralization:**

**157.50 - 183.60: Pyrite, Fracture Filling, 1-2%%**

**Texture:**

**157.50 - 183.60: Fractured**

**157.50 - 183.60: Foliated**

**157.50 - 183.60: Medium Grained**

**164.90 - 165.70: Brecciated**

183.60 184.20 **ITN, Tonalite**

CROSSCUTTING TONALITE DYKE. MUSCOVITE AND GARNET BEARING.

**Texture:**

**183.60 - 184.20: Pegmatitic**

**183.60 - 184.20: Porphyroblastic**

GARNET

184.20 194.00 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. NOTICEABLY LESS FRACTURED THAN PREVIOUS INTERVAL.

**Texture:**

**184.20 - 194.00: Medium Grained**

**184.20 - 194.00: Foliated**

194.00 194.70 **IGR, Granite**

GRANITIC DYKE. MUSCOVITE AND BIOTITE BEARING. HAS A BLEACHED PINK COLOUR

**Texture:**

**194.00 - 194.70: Coarse Grained**

**194.00 - 194.70: Massive**

194.70 196.70 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. BROKEN CORE WITHIN INTERVAL.

**Mineralization:**

**194.70 - 196.70: Pyrite, Fracture Filling, 1-2%%**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**194.70 - 195.00: Broken Core**

**194.70 - 196.70: Foliated**

**194.70 - 196.70: Medium Grained**

**196.00 - 196.40: Broken Core**

196.70 197.00 **IGR, Granite**

GRANITE. BIOTITE AND MUSCOVITE BEARING. BLEACHED PINK IN COLOUR.

**Texture:**

**196.70 - 197.00: Coarse Grained**

**196.70 - 197.00: Massive**

197.00 200.30 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. PYRITE CONTENT IN FRACTURES INCREASES FROM PREVIOUS INTERVAL. VERY FRACTURED THROUGHOUT.

**Mineralization:**

**197.00 - 200.30: Pyrite, Fracture Filling, 3-5%%**

**Texture:**

**197.00 - 200.30: Medium Grained**

**197.00 - 200.30: Foliated**

**197.00 - 200.30: Fractured**

200.30 204.70 **IGR, Granite**

GRANITE DYKE. FRACTURED THROUGHOUT. BLEACHED PINK COLOUR AT TOP, DEEP RED AT BOTTOM OF INTERVAL

**Texture:**

**200.30 - 204.70: Coarse Grained**

**200.30 - 204.70: Fractured**

204.70 208.30 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAKLY HEMATIZED. FRACTURED THROUGHOUT.

**Alteration:**

**206.40 - 208.30: Hematite, Pervasive, Weak**

**Mineralization:**

**204.70 - 208.30: Pyrite, Fracture Filling, 2%%**

**Texture:**

**204.70 - 205.20: Broken Core**

**204.70 - 208.30: Medium Grained**

**204.70 - 208.30: Foliated**

208.30 208.80 **IGR, Granite**

GRANITE. DARK RED IN COLOUR WITH MELTED, IRREGULAR QUARTZ PODS.

**Alteration:**

**208.30 - 208.80: Hematite, Pervasive, Strong**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **208.30 - 208.80: Coarse Grained** | | | | | | | | | | | | | | |
| **208.30 - 208.80: Heterogeneous** | | | | | | | | | | | | | | |
| 208.80 | 212.20 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. FRACTURED THROUGHOUT WITH CARBONATE AND PYRITE ANNEALING. HEMATITE ALTERATION INCREASES TOWARDS CONTACT WITH GABBRO. BRECCIA AT BOTTOM OF INTERVAL CONTAINS LARGE, IRREGULAR QUARTZ CLASTS WITHIN A HEMATIZED MATRIX. | | | N500226 | 212.00 | 213.50 | 1.50 | 58.000 | 36.000 | 46.000 | 0.007 | 0.005 | 0.006 | 0.250 | 0.570 |
| **Alteration:** | | | | | | | | | | | | | | |
| **208.80 - 212.20: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| **208.80 - 212.20: Carbonate, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **208.80 - 212.20: Pyrite, Fracture Filling, 2%%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **208.80 - 212.00: Medium Grained** | | | | | | | | | | | | | | |
| **208.80 - 212.00: Foliated** | | | | | | | | | | | | | | |
| **212.00 - 212.20: Brecciated** | | | | | | | | | | | | | | |
| 212.20 | 300.70 | **IGB, Gabbro** | | | | | | | | | | | | |

| From | To | Lithology |
|---|---|---|
| | | GABBRO. MODERATELY HEMATIZED AND SAUSSERITIZED BETWEEN 212.2-245.5m GIVES CORE A GREEN AND RED COLOUR . ALTERATION DECREASES GRADUALLY UNTIL GENERALLY ABSENT BY 260m. TEXTURE IS DOMINANTLY INTERGRANULAR, MEDIUM TO COARSE GRAINED PLAGIOCLASE AND CLINOPYROXENE. APPROXIMATELY 1% FINELY DISSEMINATED PYRITE THROUGHOUT. |

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N500227 | 213.50 | 215.00 | 1.50 | 69.000 | 117.000 | 43.000 | 0.011 | 0.009 | 0.005 | 0.250 | 0.270 |
| N500228 | 215.00 | 216.50 | 1.50 | 69.000 | 214.000 | 48.000 | 0.011 | 0.008 | 0.005 | 0.250 | 0.320 |
| N500229 | 216.50 | 218.00 | 1.50 | 65.000 | 309.000 | 56.000 | 0.008 | 0.005 | 0.004 | 0.250 | 0.300 |
| N500230 | 218.00 | 219.50 | 1.50 | 61.000 | 280.000 | 56.000 | 0.011 | 0.006 | 0.005 | 0.250 | 0.630 |
| N500231 | 219.50 | 221.00 | 1.50 | 61.000 | 264.000 | 56.000 | 0.014 | 0.007 | 0.006 | 0.250 | 0.450 |
| N500232 | 221.00 | 222.50 | 1.50 | 58.000 | 267.000 | 47.000 | 0.015 | 0.007 | 0.006 | 0.250 | 0.270 |
| N500233 | 222.50 | 224.00 | 1.50 | 60.000 | 316.000 | 52.000 | 0.008 | 0.004 | 0.005 | 0.250 | 0.300 |
| N500234 | 224.00 | 225.50 | 1.50 | 62.000 | 275.000 | 50.000 | 0.014 | 0.007 | 0.007 | 0.250 | 0.310 |
| N500235 | 225.50 | 227.00 | 1.50 | 72.000 | 261.000 | 56.000 | 0.020 | 0.010 | 0.008 | 0.250 | 0.510 |
| N500236 | 227.00 | 228.50 | 1.50 | 68.000 | 263.000 | 48.000 | 0.027 | 0.011 | 0.008 | 0.250 | 0.260 |
| N500238 | 228.50 | 230.00 | 1.50 | 59.000 | 177.000 | 45.000 | 0.021 | 0.008 | 0.007 | 0.250 | 0.670 |
| N500239 | 230.00 | 231.50 | 1.50 | 76.000 | 253.000 | 51.000 | 0.030 | 0.015 | 0.009 | 0.250 | 0.520 |
| N500240 | 231.50 | 233.00 | 1.50 | 81.000 | 319.000 | 48.000 | 0.031 | 0.015 | 0.009 | 0.250 | 0.210 |
| N500241 | 233.00 | 234.50 | 1.50 | 81.000 | 142.000 | 51.000 | 0.025 | 0.016 | 0.007 | 0.250 | 0.630 |
| N500242 | 234.50 | 236.00 | 1.50 | 73.000 | 147.000 | 46.000 | 0.037 | 0.018 | 0.007 | 0.250 | 0.380 |
| N500243 | 236.00 | 237.50 | 1.50 | 76.000 | 211.000 | 49.000 | 0.032 | 0.014 | 0.009 | 0.250 | 0.370 |
| N500244 | 237.50 | 239.00 | 1.50 | 76.000 | 213.000 | 47.000 | 0.029 | 0.015 | 0.008 | 0.250 | 0.150 |
| N500245 | 239.00 | 240.50 | 1.50 | 77.000 | 246.000 | 50.000 | 0.029 | 0.014 | 0.009 | 0.250 | 0.910 |
| N500246 | 240.50 | 242.00 | 1.50 | 83.000 | 291.000 | 50.000 | 0.031 | 0.014 | 0.010 | 0.250 | 0.290 |
| N500247 | 242.00 | 243.50 | 1.50 | 81.000 | 305.000 | 49.000 | 0.033 | 0.018 | 0.011 | 0.250 | 0.270 |
| N500248 | 243.50 | 245.00 | 1.50 | 85.000 | 305.000 | 49.000 | 0.035 | 0.017 | 0.011 | 0.250 | 0.270 |
| N500249 | 245.00 | 246.50 | 1.50 | 91.000 | 314.000 | 52.000 | 0.036 | 0.017 | 0.012 | 0.250 | 0.790 |
| N500250 | 246.50 | 248.00 | 1.50 | 88.000 | 236.000 | 47.000 | 0.060 | 0.016 | 0.017 | 0.250 | 0.480 |
| Q167001 | 248.00 | 249.50 | 1.50 | 84.000 | 165.000 | 46.000 | 0.060 | 0.022 | 0.012 | 0.250 | 0.560 |
| Q167002 | 249.50 | 251.00 | 1.50 | 91.000 | 117.000 | 48.000 | 0.018 | 0.015 | 0.004 | 0.250 | 0.400 |
| Q167003 | 251.00 | 252.50 | 1.50 | 90.000 | 105.000 | 48.000 | 0.015 | 0.011 | 0.005 | 0.250 | 0.600 |
| Q167004 | 252.50 | 254.00 | 1.50 | 89.000 | 102.000 | 48.000 | 0.018 | 0.016 | 0.005 | 0.250 | 0.520 |
| Q167005 | 254.00 | 255.50 | 1.50 | 96.000 | 108.000 | 46.000 | 0.008 | 0.008 | 0.004 | 0.250 | 0.150 |
| Q167006 | 255.50 | 257.00 | 1.50 | 91.000 | 115.000 | 43.000 | 0.012 | 0.011 | 0.005 | 0.250 | 0.180 |
| Q167008 | 257.00 | 258.50 | 1.50 | 92.000 | 118.000 | 43.000 | 0.018 | 0.018 | 0.005 | 0.250 | 0.220 |
| Q167009 | 258.50 | 260.00 | 1.50 | 97.000 | 105.000 | 45.000 | 0.014 | 0.014 | 0.004 | 0.250 | 0.160 |
| Q167010 | 260.00 | 261.50 | 1.50 | 105.000 | 108.000 | 47.000 | 0.012 | 0.013 | 0.003 | 0.250 | 0.220 |
| Q167011 | 261.50 | 263.00 | 1.50 | 109.000 | 105.000 | 47.000 | 0.013 | 0.015 | 0.003 | 0.250 | 0.070 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Q167012 | 263.00 | 264.50 | 1.50 | 105.000 | 102.000 | 47.000 | 0.011 | 0.014 | 0.003 | 0.250 | 0.200 |
| | | | Q167013 | 264.50 | 266.00 | 1.50 | 111.000 | 106.000 | 48.000 | 0.012 | 0.012 | 0.005 | 0.250 | 0.070 |
| | | | Q167014 | 266.00 | 267.50 | 1.50 | 110.000 | 105.000 | 48.000 | 0.013 | 0.015 | 0.003 | 0.250 | 0.130 |
| | | | Q167015 | 267.50 | 269.00 | 1.50 | 114.000 | 106.000 | 50.000 | 0.011 | 0.011 | 0.004 | 0.250 | 0.080 |
| | | | Q167016 | 269.00 | 270.50 | 1.50 | 123.000 | 109.000 | 49.000 | 0.012 | 0.010 | 0.003 | 0.250 | 0.210 |
| | | | Q167017 | 270.50 | 272.00 | 1.50 | 125.000 | 107.000 | 51.000 | 0.010 | 0.010 | 0.004 | 0.250 | 0.090 |
| | | | Q167018 | 272.00 | 273.50 | 1.50 | 122.000 | 115.000 | 50.000 | 0.009 | 0.008 | 0.003 | 0.250 | 0.200 |
| | | | Q167019 | 273.50 | 275.00 | 1.50 | 128.000 | 106.000 | 52.000 | 0.010 | 0.007 | 0.003 | 0.250 | 0.080 |
| | | | Q167020 | 275.00 | 276.50 | 1.50 | 135.000 | 113.000 | 54.000 | 0.012 | 0.011 | 0.003 | 0.250 | 0.080 |
| | | | Q167021 | 276.50 | 278.00 | 1.50 | 138.000 | 120.000 | 56.000 | 0.011 | 0.006 | 0.003 | 0.250 | 0.070 |
| | | | Q167022 | 278.00 | 279.50 | 1.50 | 144.000 | 128.000 | 56.000 | 0.013 | 0.008 | 0.003 | 0.250 | 0.270 |
| | | | Q167023 | 279.50 | 281.00 | 1.50 | 147.000 | 121.000 | 57.000 | 0.014 | 0.007 | 0.003 | 0.250 | 0.520 |
| | | | Q167024 | 281.00 | 282.50 | 1.50 | 151.000 | 126.000 | 57.000 | 0.014 | 0.007 | 0.004 | 0.250 | 0.130 |
| | | | Q167025 | 282.50 | 284.00 | 1.50 | 153.000 | 120.000 | 56.000 | 0.014 | 0.007 | 0.003 | 0.250 | 0.070 |
| | | | Q167026 | 284.00 | 285.50 | 1.50 | 145.000 | 139.000 | 55.000 | 0.012 | 0.008 | 0.003 | 0.250 | 0.590 |
| | | | Q167027 | 284.00 | 285.50 | 1.50 | 29.000 | 25.000 | 25.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.040 |
| | | | Q167028 | 285.50 | 287.00 | 1.50 | 148.000 | 126.000 | 55.000 | 0.015 | 0.007 | 0.004 | 0.250 | 0.250 |
| | | | Q167029 | 287.00 | 288.50 | 1.50 | 145.000 | 137.000 | 59.000 | 0.015 | 0.008 | 0.004 | 0.250 | 0.280 |
| | | | Q167030 | 288.50 | 290.00 | 1.50 | 150.000 | 150.000 | 59.000 | 0.016 | 0.012 | 0.004 | 0.250 | 0.240 |
| | | | Q167031 | 290.00 | 291.00 | 1.00 | 157.000 | 132.000 | 59.000 | 0.016 | 0.012 | 0.004 | 0.250 | 0.210 |
| | | | Q167032 | 291.00 | 292.00 | 1.00 | 150.000 | 142.000 | 54.000 | 0.015 | 0.011 | 0.003 | 0.250 | 0.100 |
| | | | N500122 | 292.00 | 293.00 | 1.00 | 150.000 | 181.000 | 63.000 | 0.028 | 0.027 | 0.004 | 0.250 | 0.120 |
| | | | N500123 | 293.00 | 294.00 | 1.00 | 159.000 | 270.000 | 61.000 | 0.032 | 0.031 | 0.006 | 0.250 | 0.100 |
| | | | N500124 | 294.00 | 295.00 | 1.00 | 294.000 | 837.000 | 70.000 | 0.107 | 0.147 | 0.014 | 0.500 | 0.250 |
| | | | N500138 | 295.00 | 296.00 | 1.00 | 604.000 | 2,200.000 | 94.000 | 0.223 | 0.171 | 0.047 | 1.100 | 0.490 |
| | | | N500139 | 295.00 | 296.00 | 1.00 | 34.000 | 18.000 | 23.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.030 |
| | | | N500126 | 296.00 | 297.00 | 1.00 | 332.000 | 852.000 | 77.000 | 0.040 | 0.031 | 0.007 | 0.250 | 0.330 |
| | | | N500127 | 297.00 | 298.00 | 1.00 | 326.000 | 690.000 | 74.000 | 0.147 | 0.083 | 0.031 | 0.500 | 0.160 |
| | | | N500128 | 298.00 | 299.00 | 1.00 | 619.000 | 1,965.000 | 92.000 | 0.386 | 0.333 | 0.030 | 1.100 | 1.030 |
| | | | N500129 | 299.00 | 300.00 | 1.00 | 1,250.000 | 4,690.000 | 119.000 | 0.851 | 0.804 | 0.071 | 2.000 | 1.770 |
| | | | N500130 | 300.00 | 301.00 | 1.00 | 1,210.000 | 4,040.000 | 137.000 | 0.830 | 0.764 | 0.064 | 2.100 | 1.530 |

**Alteration:**

**212.20 - 245.50: Hematite, Pervasive, Moderate**

**212.20 - 245.50: Epidote, Pervasive, Moderate**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mineralization:** | | | | | | | | | | | | | | |
| **212.20 - 255.60: Pyrite, Disseminated, 1%%** | | | | | | | | | | | | | | |
| VERY FINE GRAINED PYRITE | | | | | | | | | | | | | | |
| **294.50 - 300.70: Pyrrhotite/Chalcopyrite, Blebby, TRACE%** | | | | | | | | | | | | | | |
| PATCHY BLEBS OCCUR THROUGHOUT INTERVAL. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **212.20 - 212.90: Varitextured** | | | | | | | | | | | | | | |
| **212.90 - 284.20: Medium Grained - Coarse Grained** | | | | | | | | | | | | | | |
| INTERGRANULAR TEXTURE. MODAL COMPOSITION RANGES FROM 60% PLAGIOCLASE 40% PYROXENE AT TOP OF INTERVAL (TO 245m), BECOMING MORE MAFIC DOWNHOLE TO 254m WHERE PLAGIOCLASE AND PYROXENE ARE FOUND IN EQUAL PROPORTIONS. | | | | | | | | | | | | | | |
| **228.30 - 229.00: Coarse Grained** | | | | | | | | | | | | | | |
| STRONGLY ALTERED ZONE WITH PLAGIOCLASE LATHS UP TO 2cm LONG. | | | | | | | | | | | | | | |
| **284.20 - 294.00: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| GRADUAL DECREASE IN GRAIN SIZE. CRYSTALS BECOMING MORE SUBHEDRAL COMPARED TO ABOVE. | | | | | | | | | | | | | | |
| **294.00 - 300.70: Fine Grained** | | | | | | | | | | | | | | |
| **296.10 - 298.20: Varitextured** | | | | | | | | | | | | | | |
| VARIABLE GRAIN SIZE THROUGHOUT INTERVAL. PATCHES/PODS OF COARSE GRAINED GABBRO. | | | | | | | | | | | | | | |
| 300.70 | 300.90 | **IGNO, Gabbronorite** | | | | | | | | | | | | |
| NARROW INTERVAL OF GABBRONORITE. ADCUMMULATE TEXTURE WITH COARSER EUHEDRAL ORTHOPYROXENE AND FINERGRAINED INTERCUMMULUS CLINOPYROXENE AND PLAGIOCLASE. ORTHOPYROXENE CRYSTALS ARE PREFFERENTIALY HEMATIZED, OBSERVED AS A MAROON HALO. SHARP UPPER AND LOWER MARGINS. | | | N500130 | 300.00 | 301.00 | 1.00 | 1,210.000 | 4,040.000 | 137.000 | 0.830 | 0.764 | 0.064 | 2.100 | 1.530 |
| **Alteration:** | | | | | | | | | | | | | | |
| **300.70 - 300.90: Hematite, Patchy, Weak** | | | | | | | | | | | | | | |
| MAROON STAINING ON ORTHOPYROXENE. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **300.70 - 300.90: Medium Grained** | | | | | | | | | | | | | | |
| ORTHOPYROXENE CRYSTALS ARE MARKEDLY COARSER THAN GROUNDMASS | | | | | | | | | | | | | | |
| **300.70 - 300.90: Adcumulate** | | | | | | | | | | | | | | |
| 300.90 | 302.40 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO. FINE GRAINED TO MEDIUM GRAINED WITH PATCHY ZONES OF MINERALIZATION THROUGHOUT. UP TO 10% PYRRHOTITE+CHALCOPYRITE THROUGH 302-302.4m. SULFIDES OBSERVED TO ENCLOSE EARLIER SILICATE PHASES (CPX?). | | | N500131 | 301.00 | 302.00 | 1.00 | 1,020.000 | 3,830.000 | 115.000 | 0.856 | 0.697 | 0.071 | 1.900 | 1.930 |
| | | | N500132 | 302.00 | 303.00 | 1.00 | 2,400.000 | 8,640.000 | 202.000 | 1.725 | 1.425 | 0.154 | 4.100 | 3.050 |
| **Alteration:** | | | | | | | | | | | | | | |
| **301.10 - 301.10: Chlorite, Veins, Weak** | | | | | | | | | | | | | | |
| CHLORITE RIMS PYRITE IN NARROW VEIN. | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **300.90 - 302.40: Pyrrhotite/Chalcopyrite, Blebby, 5-10%%** | | | | | | | | | | | | | | |
| BLEBBY SULFIDE UP TO 10%. SHOWS STRONG FRACTIONATION TEXTURES. | | | | | | | | | | | | | | |
| **301.10 - 301.10: Pyrite, Veins, 1%%** | | | | | | | | | | | | | | |
| CHLORITE/PYRITE VEIN. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **300.90 - 302.40: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| INTERGRANULAR TEXTURE. SUBHEDRAL PYROXENE AND PLAGIOCLASE GIVES CORE A MASSIVE APPEARANCE. | | | | | | | | | | | | | | |
| 302.40 | 302.90 | **IMGNO, Melagabbronorite** | | | | | | | | | | | | |
| PYROXENE CUMMULATE HORIZON. ORTHOPYROXENE CRYSTALS ARE AGAIN STAINED MAROON DUE TO HEMATITE ALTERATION. 1-2% BLEBBY TO INTERSTITAL PYRRHOTITE+CHALCOPYRITE MINERALIZATION THROUGHOUT. | | | N500132 | 302.00 | 303.00 | 1.00 | 2,400.000 | 8,640.000 | 202.000 | 1.725 | 1.425 | 0.154 | 4.100 | 3.050 |
| **Mineralization:** | | | | | | | | | | | | | | |
| **302.40 - 302.90: Pyrrhotite/Chalcopyrite, Blebby, 1-2%%** | | | | | | | | | | | | | | |
| BLEBBY TO INTERSTITIAL IN HABIT. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **302.40 - 302.90: Adcumulate** | | | | | | | | | | | | | | |
| **302.40 - 302.90: Medium Grained** | | | | | | | | | | | | | | |
| ORTHOPYROXENE CRYSTALS ARE MARKEDLY COARSER THAN GROUNDMASS | | | | | | | | | | | | | | |
| 302.90 | 305.70 | **IGB, Gabbro** | | | | | | | | | | | | |
| FINE GRAINED GABBRO. 1-3% PYRRHOTITE + CHALCOPYRITE FOUND SPORADICALLY THROUGHOUT INTERVAL. 5% COARSE GRAINED BLEBBY PYRRHOTITE AND CHALCOPYRITE FOUND FROM 303.1-303.2m SHOWING FRACTIONATION TEXTURES. PYRITE AND CHLORITE VEINS FOUND THROUGH 305.3-305.7m. | | | N500133 | 303.00 | 304.00 | 1.00 | 820.000 | 3,940.000 | 95.000 | 0.745 | 0.624 | 0.070 | 1.400 | 1.350 |
| | | | N500134 | 304.00 | 305.00 | 1.00 | 822.000 | 3,270.000 | 86.000 | 0.802 | 0.590 | 0.086 | 1.700 | 2.130 |
| | | | N500135 | 305.00 | 306.00 | 1.00 | 828.000 | 3,200.000 | 84.000 | 0.612 | 0.412 | 0.070 | 2.500 | 5.370 |
| **Mineralization:** | | | | | | | | | | | | | | |
| **302.90 - 305.70: Pyrrhotite/Chalcopyrite, Blebby, 1-3%%** | | | | | | | | | | | | | | |
| PATCHY ZONES OF BLEBBY SULFIDE THROUGHOUT INTERVAL. | | | | | | | | | | | | | | |
| **305.30 - 305.70: Pyrite, Veins, 20%%** | | | | | | | | | | | | | | |
| NARROW VEINS OF MASSIVE PYRITE CROSSCUT UNIT. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **302.90 - 305.70: Fine Grained** | | | | | | | | | | | | | | |
| INTERSTIAL TEXTURE. SUBHEDRAL PYROXENE AND PLAGIOCLASE GIVES INTERVAL A MASSIVE APPEARANCE. | | | | | | | | | | | | | | |
| 305.70 | 306.20 | **IMGNO, Melagabbronorite** | | | | | | | | | | | | |
| CUMMULATE PYROXENE TEXTURE AGAIN FOUND THROUGH THIS NARROW INTERVAL. ORTHOPYROXENE CRYSTALS ARE NOTICEABLY COARSER THAN GROUNDMASS OF CLINOPYROXENE AND PLAGIOCLASE, BUT ARE NOT HEMATIZED AS BEFORE. APPROXIMATELY 1% FINE, DISSEMINATED PYRRHOTITE + CHALCOPYRITE. | | | N500136 | 306.00 | 307.00 | 1.00 | 640.000 | 1,895.000 | 86.000 | 0.342 | 0.217 | 0.044 | 2.900 | 4.280 |
| **Mineralization:** | | | | | | | | | | | | | | |
| **305.70 - 306.20: Pyrrhotite/Chalcopyrite, Disseminated, 1%%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **305.70 - 306.20: Medium Grained** | | | | | | | | | | | | | | |
| ORTHOPYROXENE CRYSTALS ARE MARKEDLY COARSER THAN GROUNDMASS | | | | | | | | | | | | | | |
| **305.70 - 306.20: Adcumulate** | | | | | | | | | | | | | | |
| 306.20 | 307.80 | **IGB, Gabbro** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BASAL GABBROIC UNIT. STRONGLY ALTERED AND VARIABLE. AVERAGES 5% PYRITE, PYRRHOTITE + CHALCOPYRITE, IN BLEBBY AND DISSEMINATED HABIT. 2cm WIDE ZONE OF SULFIDE FOUND ALONG BASAL CONTACT WITH MINOR INCLUSIONS OF PYROXENE. WEAK AMPHIBOLE+SERICITE ALTERATION GIVES INTERVAL A FINE GRAINED MOTTLED APPEARANCE THROUGHOUT. | N500137 | 307.00 | 307.80 | 0.80 | 2,300.000 | 6,480.000 | 200.000 | 1.460 | 1.155 | 0.096 | 7.900 | 6.030 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **306.20 - 307.80: Hornblende, Pervasive, Moderate** | | | | | | | | | | | | |
| | | OVERPRINTING AMPHIBOLE ALTERATION? GIVES CORE A MOTTLED GREEN APPEARANCE. | | | | | | | | | | | | |
| | | **306.20 - 307.80: Sericite, Pervasive, Moderate** | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **306.20 - 307.80: Pyrite, Veins, 1-10%%** | | | | | | | | | | | | |
| | | CROSSCUTTING SULFIDE VEINS ARE DOMINANT AT TOP AND BOTTOM OF INTERVAL. | | | | | | | | | | | | |
| | | **307.30 - 307.80: Pyrrhotite/Chalcopyrite, Blebby, 5%%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **306.20 - 307.10: Fine Grained** | | | | | | | | | | | | |
| | | **307.10 - 307.80: Varitextured** | | | | | | | | | | | | |
| 307.80 | 309.10 | **IGR, Granite** | | | | | | | | | | | | |
| | | STRONGLY HEMATIZED GRANITE. FRACTURE FILLINIG PYRITE THROUGHOUT. ALSO SMALL ZONES OF BLEACHED WHITE-GREEN GRANITE (SERICITIZED?) | Q167279 | 307.80 | 308.80 | 1.00 | 255.000 | 1,270.000 | 17.000 | 0.478 | 0.354 | 0.037 | 1.200 | 1.690 |
| | | | Q167280 | 308.80 | 309.80 | 1.00 | 135.000 | 231.000 | 17.000 | 0.059 | 0.044 | 0.006 | 0.250 | 1.270 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **307.80 - 309.10: Hematite, Pervasive, Strong** | | | | | | | | | | | | |
| | | **307.80 - 309.10: Sericite, Patchy, Strong** | | | | | | | | | | | | |
| | | GIVES GRANITE A GREEN COLOUR IN PLACES. | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **307.80 - 309.10: Pyrite, Fracture Filling, 2%%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **307.80 - 309.10: Fractured** | | | | | | | | | | | | |
| | | **307.80 - 309.10: Coarse Grained** | | | | | | | | | | | | |
| 309.10 | 318.40 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| | | QUETICO METASEDIMENTARY ROCKS. FRACTURED THROUGHOUT WITH CARBONATE AND PYRITE FILLING IN FRACTURES. WEAKLY HEMATITE ALTERATION IS PATCHY THROUGH INTERVAL. | | | | | | | | | | | | |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **309.10 - 318.40: Hematite, Pervasive, Moderate** | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **309.10 - 318.40: Pyrite, Fracture Filling, 1%%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **309.10 - 318.40: Foliated** | | | | | | | | | | | | |
| | | **309.10 - 318.40: Medium Grained** | | | | | | | | | | | | |
| 318.40 | 319.80 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| | | FINE GRAINED GABBRO DYKE. STRONGLY CARBONATE ALTERED AND FRACTURED. BRECCIATED UPPER AND LOWER MARGINS WITHING CHILLED GROUNDMASS. TRACE PYRITE. | Q167033 | 318.50 | 319.80 | 1.30 | 372.000 | 132.000 | 67.000 | 0.017 | 0.010 | 0.003 | 0.250 | 1.440 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Alteration:**

**318.40 - 319.80: Carbonate, Fracture Filling, Moderate**

**318.40 - 319.80: Carbonate, Pervasive, Strong**

OBSCURES MINERALOGY

**Mineralization:**

**318.40 - 319.80: Pyrite, Disseminated, TRACE%**

**Texture:**

**318.40 - 318.40: Brecciated**

FRAGMENTS OF GRANITE COUNTRY ROCK WITHIN CHILLED MARGIN

**318.40 - 319.80: Fractured**

CARBONATE FILLING FRACTURES.

**318.40 - 319.80: Fine Grained**

MASSIVE TEXTURE

**318.40 - 319.80: Chilled Margin**

319.80 324.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**319.80 - 324.50: Pyrite, Fracture Filling, 1%%**

**Texture:**

**319.80 - 324.50: Foliated**

**319.80 - 324.50: Medium Grained**

324.50 325.00 **IGR, Granite**

BLEACHED PINK GRANITE.

**Texture:**

**324.50 - 325.00: Massive**

**324.50 - 325.00: Coarse Grained**

325.00 341.80 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**325.00 - 341.80: Pyrite, Fracture Filling, 1%%**

**Texture:**

**325.00 - 341.80: Medium Grained**

**325.00 - 341.80: Foliated**

341.80 343.00 **IGR, Granite**

GRANITE DYKE.

**Texture:**

**341.80 - 343.00: Coarse Grained**

**341.80 - 343.00: Massive**

343.00 344.40 **MQZT, Mafic metasediment**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**343.00 - 344.40: Pyrite, Fracture Filling, 1%%**

**Texture:**

**343.00 - 344.40: Foliated**

**343.00 - 344.40: Medium Grained**

344.40 345.00 **ITN, Tonalite**

TONALITE PEGMATITIC DYKE.

**Texture:**

**344.40 - 345.00: Massive**

**344.40 - 345.00: Pegmatitic**

345.00 345.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**345.00 - 345.50: Pyrite, Fracture Filling, TRACE.%**

**Texture:**

**345.00 - 345.50: Foliated**

**345.00 - 345.50: Medium Grained**

345.50 346.60 **ITN, Tonalite**

TONALITE DYKE

**Texture:**

**345.50 - 346.60: Massive**

**345.50 - 346.60: Coarse Grained Matrix**

346.60 355.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**346.60 - 355.50: Pyrite, Fracture Filling, TRACE%**

**Texture:**

**346.60 - 355.50: Foliated**

**346.60 - 355.50: Medium Grained**

355.50 356.00 **ITN, Tonalite**

PEGMATITIC TONALITE DYKE.

**Texture:**

**355.50 - 356.00: Pegmatitic**

## Survey Data

| Depth | Azimuth Decimal | Dip Decimal | Test Type | Flag | Comments |
|---|---|---|---|---|---|
| 14.00 | 278.10 | -59.30 | REFLEX | O | |
| 32.00 | 279.40 | -58.70 | REFLEX | O | |
| 62.00 | 285.10 | -57.90 | REFLEX | O | |
| 92.00 | 287.80 | -57.50 | REFLEX | O | |
| 122.00 | 283.60 | -56.60 | REFLEX | O | |
| 152.00 | 285.10 | -56.50 | REFLEX | O | |
| 182.00 | 285.70 | -56.20 | REFLEX | O | |
| 212.00 | 284.90 | -55.90 | REFLEX | O | |
| 242.00 | 282.00 | -55.70 | REFLEX | O | |
| 272.00 | 288.00 | -55.80 | REFLEX | O | |
| 314.00 | 288.20 | -55.40 | REFLEX | O | |
| 344.00 | 291.20 | -53.10 | REFLEX | O | |

# Detailed Log Report
# Hole Number SL-13-004

| Project | | Coordinates | | Collar | | | |
|---|---|---|---|---|---|---|---|
| **Project Name:** | SUNDAY LAKE | **Primary Coordinates Grid:** | UTM83-16 | **Collar Dip:** | -80.00 | **Collar Az:** | 190.00 |
| **Project Code:** | 23 | **North:** | 5,395,617.00 | **Length:** | 509.50 | | |
| **Location:** | SUNDAY LAKE | **East:** | 334,206.00 | **Hole Size:** | | | |
| **Start Date:** | Nov 07, 2013 | **Elev:** | 501.00 | **Hole Type:** | DD | | |
| **Completed Date:** | | **Destination Coordinates Grid:** | LL83 | **Casing:** | | | |
| **Contractor:** | | **North:** | 48.69 | **Collar Survey:** | N | **Plugged:** | N |
| **Core Storage:** | THUNDER BAY | **East:** | -89.25 | **Multishot Survey:** | N | **Pulse EM Survey:** | N |
| **Units:** | METRIC | **Elev:** | 501.00 | | | | |

## Detailed Lithology

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 2.30 | **CAS, Casing** | | | | | | | | | | | | |
| 2.30 | 21.60 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. | | | | | | | | | | | | | | |
| 21.60 | 25.40 | **ITN, Tonalite** | | | | | | | | | | | | |
| PEGMATITIC MUSCOVITE BEARING TONALITE DYKE. | | | | | | | | | | | | | | |
| 25.40 | 64.40 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| 64.40 | 66.40 | **ITN, Tonalite** | | | | | | | | | | | | |
| PEGMATITIC MUSCOVITE BEARING TONALITE DYKE. | | | | | | | | | | | | | | |
| 66.40 | 125.90 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| 125.90 | 130.10 | **ITN, Tonalite** | | | | | | | | | | | | |
| COARSE GRAINED GARNET AND MUSCOVITE BEARING TONALITE DYKE. | | | | | | | | | | | | | | |
| 130.10 | 161.40 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| 161.40 | 165.10 | **ITN, Tonalite** | | | | | | | | | | | | |
| PEGMATITIC MUSCOVITE AND GARNET BEARING TONALITE DYKE. | | | | | | | | | | | | | | |
| 165.10 | 183.40 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| 183.40 | 188.20 | **ITN, Tonalite** | | | | | | | | | | | | |
| PEGMATITIC TONALITE DYKE. MUSCOVITE, BIOTITE AND GARNET BEARING. | | | | | | | | | | | | | | |
| 188.20 | 203.00 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| 203.00 | 205.60 | **ITN, Tonalite** | | | | | | | | | | | | |
| PEGMATITIC MUSCOVITE BEARING TONALITE DYKE. | | | | | | | | | | | | | | |
| 205.60 | 255.00 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

255.00 256.20 **IGD, Gabbroic dykes**

BROKEN CORE WITH FRAGMENTS OF A FINE GRAINED GABBROIC DYKE. CARBONATE OCELLI THROUGHOUTH.

**Alteration:**

**255.00 - 256.20: Carbonate, Fracture Filling, Moderate**

LOOK LIKE AMYGDULES OF CARBONATE. COULD BE XENOLITHS AS WELL.

**Texture:**

**255.00 - 256.00: Broken Core**

**255.00 - 256.20: Fine Grained**

PHENOCRYSTS OF PYROXENE ARE SLIGHTLY LARGER THAN GROUNDMASS.

**255.00 - 256.20: Chilled Margin**

CHILLED UPPER AND LOWER CONTACTS

256.20 261.70 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Texture:**

**256.20 - 261.70: Foliated**

**256.20 - 261.70: Medium Grained**

261.70 262.60 **IGB, Gabbro**

GABBRO BRECCIA. ABUNDANT QUARTZ CLASTS IN A GREY-BLACK MAFIC MATRIX. TRACE PO-CPY IN BOTTOM OF INTERVAL. NO CHILL MARGINS OBSERVED, AND CONTACT IS VERY DIFFUSE WITH COUNTRY ROCK.

**Mineralization:**

**262.60 - 262.60: Pyrrhotite/Chalcopyrite, Disseminated, TRACE%**

FOUND AT BASE OF INTERVAL

**Texture:**

**261.70 - 262.60: Fine Grained Matrix**

GREY GREEN IN COLOUR

**261.70 - 262.60: Xenolithic**

QUARTZ AND CARBONATE CLASTS

262.60 264.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. FRACTURE FILLING CARBONATE ALTERATION SIMILAR TO WHAT IS OBSERVED PROXIMAL TO INTRUSION IN HOLE 002.

**Alteration:**

**262.60 - 264.50: Carbonate, Fracture Filling, Moderate**

NARROW FRACTURE CONTROLLED VEINLETS OF CARBONATE

**Texture:**

**262.60 - 264.50: Fractured**

**262.60 - 264.50: Foliated**

**262.60 - 264.50: Medium Grained**

264.50 264.90 **IGD, Gabbroic dykes**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

FINE GRAINED MAFIC DYKE WITH SHARP CHILLED MARGINS. PLAGIOCLASE PHYRIC TEXTURE. LOWER CHILL MARGIN HAS A 5cm WIDE ZONE OF FINE GRAINED GREY MATERIAL WHICH APPEARS DISTINCTLY DIFFERENT FROM REST OF DYKE.

**Alteration:**

**264.50 - 264.90: Carbonate, Pods, Weak**

CARBONATE OCELLI FOUND AT UPPER MAGIN OF DYKE.

**Mineralization:**

**264.50 - 264.90: Pyrite, Wisps, TRACE%**

MASS OF VERY FINE GRAINED PYRITE IN CENTRE OF INTERVAL.

**Texture:**

**264.50 - 264.90: Chilled Margin**

**264.50 - 264.90: Fine Grained**

**264.50 - 264.90: Pyroxene Phyric**

264.90 275.40 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. FRACTURE FILLING CARBONATE ALTERATION SIMILAR TO WHAT IS OBSERVED PROXIMAL TO INTRUSION IN HOLE 002.

**Alteration:**

**264.90 - 275.40: Carbonate, Fracture Filling, Moderate**

**Texture:**

**264.90 - 275.40: Foliated**

**264.90 - 275.40: Medium Grained**

275.40 275.60 **IGD, Gabbroic dykes**

FINE GRAINED MAFIC DYKE. ORBICULAR TEXTURE ALONG MARGINS. SHARP CHILLED MARGINS.

**Alteration:**

**275.40 - 275.60: Carbonate, Pervasive, Weak**

**Texture:**

**275.40 - 275.60: Fine Grained**

**275.40 - 275.60: Chilled Margin**

275.60 280.30 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONG FRACTURE FILLING CARBONATE ALTERATION.

**Alteration:**

**275.60 - 280.30: Carbonate, Fracture Filling, Strong**

**Texture:**

**275.60 - 280.30: Fractured**

**275.60 - 280.30: Foliated**

**275.60 - 280.30: Medium Grained**

280.30 281.10 **IGD, Gabbroic dykes**

MAFIC DYKE. SHARP CHILLED MARGINS. MASSIVE TEXTURE EQUIGRANULAR TEXTURE.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **280.30 - 281.10: Equigranular** | | | | | | | | | | | | | | |
| **280.30 - 281.10: Massive** | | | | | | | | | | | | | | |
| **280.30 - 281.10: Fine Grained** | | | | | | | | | | | | | | |
| 281.10 | 284.60 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. FRACTURE FILLING CARBONATE ALTERATION. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **281.10 - 284.60: Carbonate, Fracture Filling, Strong** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **281.10 - 284.60: Foliated** | | | | | | | | | | | | | | |
| **281.10 - 284.60: Medium Grained** | | | | | | | | | | | | | | |
| 284.60 | 285.10 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| MAFIC DYKE. VERY FRACTURED WITH STRONG CARBONATE ALTERATION. SHARP CHILLED MARGINS. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **284.60 - 285.10: Carbonate, Fracture Filling, Strong** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **284.60 - 285.10: Xenolithic** | | | | | | | | | | | | | | |
| BRECCIATED FRAGMENTS OF QUARTZ CARBONATE. | | | | | | | | | | | | | | |
| **284.60 - 285.10: Fine Grained** | | | | | | | | | | | | | | |
| **284.60 - 285.10: Chilled Margin** | | | | | | | | | | | | | | |
| 285.10 | 290.80 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. WEAK FRACTURE FILLING CARBONATE ALTERATION | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **285.10 - 290.80: Carbonate, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **285.10 - 290.80: Foliated** | | | | | | | | | | | | | | |
| **285.10 - 290.80: Medium Grained** | | | | | | | | | | | | | | |
| 290.80 | 292.40 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO. RED GREY COLOUR DUE TO MODERATE HEMATITE ALTERATION. 2% PYRRHOTITE/CHALCOPYRITE AT BOTTOM OF INTERVAL. NO CHILL MARGINS OBSERVED. | | | Q167108 | 290.80 | 292.40 | 1.60 | 252.000 | 619.000 | 61.000 | 0.120 | 0.084 | 0.010 | 0.250 | 0.620 |
| **Alteration:** | | | | | | | | | | | | | | |
| **290.80 - 292.40: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **292.00 - 292.40: Pyrrhotite/Chalcopyrite, Blebby, 2%%** | | | | | | | | | | | | | | |
| MEDIUM GRAINED BLEBS OF FRACTIONATED SULFIDE. | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**290.80 - 292.40: Xenolithic**

MINOR QUARTZ CARBONATE CLASTS WITHIN UNIT.

**290.80 - 292.40: Medium Grained**

40% HEMATIZED PLAGIOCLASE, 60% PYROXENE

292.40 322.00 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. CARBONATE ALTERATION IS ABSENT THROUGH INTERVAL. CHLORITIC SHEAR ZONE? FOUND FROM 309.5-316.2. MINOR PEGMATITE DYKES CROSS CUT UNIT.

**Structure:**

**309.50 - 316.20: Shear**

STRONGLY FOLIATED BIOTITE AND CHLORITE RICH INTERVAL. POSSIBLE SHEAR ZONE?

**Texture:**

**292.40 - 322.00: Foliated**

**292.40 - 322.00: Medium Grained**

322.00 387.40 **IGRD, Granodiorite**

WHITE-GREY GRANODIORITE TO TONALITE. FRACTURED CORE FROM 333.6-365m BECOMING MORE INTENSE AT 364m (GRAVEL). GENERALLY EQUIGRANULAR WITH MINOR PEGMATITIC VEINS/PATCHES.

**Texture:**

**322.00 - 387.40: Equigranular**

**322.00 - 387.40: Coarse Grained**

**333.60 - 365.00: Broken Core**

FRACTURED CORE THROUGHOUT INTERVAL

387.40 407.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. GNEISSIC THROUGH THIS INTERVAL. NUMEROUS GRANODIORITE VEINS ARE FOLDED WITHIN CORE.

**Texture:**

**387.40 - 407.50: Gneissic**

**387.40 - 407.50: Medium Grained**

407.50 412.80 **IGRD, Granodiorite**

GRANODIORITE TO TONALITE.

**Texture:**

**407.50 - 411.50: Coarse Grained**

**411.50 - 412.80: Pegmatitic**

412.80 509.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. GNEISSIC TEXTURE OBSERVED FROM 437m. TONALITE DYKES APPEAR TO BE PART OF LEUCOSOME.

**Texture:**

**412.80 - 509.50: Medium Grained**

**437.00 - 509.50: Gneissic**

## Survey Data

| Depth | Azimuth Decimal | Dip Decimal | Test Type | Flag | Comments |
|---|---|---|---|---|---|
| 29.00 | 195.80 | -79.10 | REFLEX | O | |
| 62.00 | 196.00 | -79.10 | REFLEX | O | |
| 92.00 | 199.90 | -78.60 | REFLEX | O | |
| 122.00 | 199.10 | -78.00 | REFLEX | O | |
| 152.00 | 203.40 | -77.80 | REFLEX | O | |
| 182.00 | 208.80 | -76.40 | REFLEX | O | |
| 212.00 | 207.40 | -76.10 | REFLEX | O | |
| 242.00 | 206.20 | -75.20 | REFLEX | O | |
| 272.00 | 210.20 | -74.50 | REFLEX | O | |
| 302.00 | 214.70 | -73.00 | REFLEX | O | |
| 335.00 | 216.10 | -72.30 | REFLEX | O | |
| 392.00 | 218.60 | -72.00 | REFLEX | O | |
| 422.00 | 215.70 | -71.80 | REFLEX | O | |
| 452.00 | 215.50 | -71.50 | REFLEX | O | |
| 482.00 | 216.80 | -70.50 | REFLEX | O | |
| 506.00 | 216.70 | -69.90 | REFLEX | O | |

# Detailed Log Report
# Hole Number SL-13-005

| Project | | Coordinates | | Collar | | | |
|---|---|---|---|---|---|---|---|
| **Project Name:** | SUNDAY LAKE | **Primary Coordinates Grid:** | UTM83-16 | **Collar Dip:** | -85.00 | **Collar Az:** | 135.00 |
| **Project Code:** | 23 | **North:** | 5,395,768.00 | **Length:** | 239.00 | | |
| **Location:** | SUNDAY LAKE | **East:** | 334,073.00 | **Hole Size:** | | | |
| **Start Date:** | Nov 16, 2013 | **Elev:** | 496.00 | **Hole Type:** | DD | | |
| **Completed Date:** | | **Destination Coordinates Grid:** | LL83 | **Casing:** | | | |
| **Contractor:** | | **North:** | 48.69 | **Collar Survey:** | N | **Plugged:** | N |
| **Core Storage:** | THUNDER BAY | **East:** | -89.25 | **Multishot Survey:** | N | **Pulse EM Survey:** | N |
| **Units:** | METRIC | **Elev:** | 496.00 | | | | |

## Detailed Lithology

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 9.00 | **CAS, Casing** | | | | | | | | | | | | |
| 9.00 | 29.80 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

**Mineralization:**

**9.00 - 29.80: Pyrite, Fracture Filling, 1%%**

**Structure:**

**9.00 - 29.80: Foliation**

10 DTCA

**Texture:**

**9.00 - 29.80: Foliated**

**9.00 - 29.80: Medium Grained**

| From | To | Lithology |
|---|---|---|
| 29.80 | 30.00 | **IGD, Gabbroic dykes** |

GREEN MAROON MAFIC DYKE. DISTINCT ORBICULAR TEXTURE, WITH ROUNDED CONCENTRICALY ZONED MAROON COLOURED ORBS WITHIN A FINE GRAINED MAFIC MATRIX. ORBS OBSERVED TO COALESCE INTO LINEAR AGGREGATES OR AS CIRCLES. VERY UNIQUE TEXTURE.

**Alteration:**

**29.80 - 30.00: Carbonate, Patchy, Moderate**

ORBS ARE RICH IN CARBONATE.

**Structure:**

**29.80 - 29.80: Contact**

90 DTCA

**30.00 - 30.00: Contact**

45 DTCA

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**29.80 - 30.00: Fine Grained**

30.00 37.20 **MQZT, Mafic metasediment**

**Mineralization:**

**30.00 - 37.20: Pyrite, Fracture Filling, 1%%**

**Structure:**

**30.00 - 37.20: Foliation**

40 DTCA

**Texture:**

**30.00 - 37.20: Medium Grained**

**30.00 - 37.20: Foliated**

37.20 40.90 **ITN, Tonalite**

PEGMATITIC TONALITE DYKE. MUSCOVITE AND GARNET BEARING.

**Structure:**

**37.20 - 37.20: Contact**

75 DTCA

**40.90 - 40.90: Contact**

75 DTCA

**Texture:**

**37.20 - 40.90: Massive**

**37.20 - 40.90: Pegmatitic**

40.90 41.40 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**40.90 - 41.40: Pyrite, Fracture Filling, 1%%**

**Structure:**

**40.90 - 41.40: Foliation**

20 DTCA

**Texture:**

**40.90 - 41.40: Medium Grained**

**40.90 - 41.40: Foliated**

41.40 45.10 **IGRD, Granodiorite**

DOMINANTLY MEDIUM GRAINED GRANODIORITE WITH MINOR INTERVALS OF CROSSCUTTING TONALITE PEGMATITE DYKES.

**Structure:**

**45.10 - 45.10: Contact**

40 DTCA

**Texture:**

**41.40 - 45.10: Massive**

**41.40 - 45.10: Medium Grained - Coarse Grained**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

45.10 48.10 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. BROKEN CORE THROUGHOUT MAJORITY OF INTERVAL.

**Mineralization:**

**45.10 - 48.10: Pyrite, Fracture Filling, 1%%**

**Structure:**

**45.10 - 48.10: Foliation**

70 DTCA

**Texture:**

**45.10 - 48.10: Medium Grained**

**45.10 - 48.10: Foliated**

**45.10 - 48.10: Broken Core**

48.10 50.40 **ITN, Tonalite**

PEGMATITIC TONALITE DYKE. MUSCOVITE AND GARNET BEARING.

**Structure:**

**48.10 - 48.10: Contact**

50 DTCA

**50.40 - 50.40: Contact**

50 DTCA

**Texture:**

**48.10 - 50.40: Pegmatitic**

50.40 50.90 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**50.40 - 50.90: Pyrite, Fracture Filling, 1%**

**Structure:**

**50.40 - 50.90: Foliation**

50 DTCA

**Texture:**

**50.40 - 50.90: Medium Grained**

**50.40 - 50.90: Foliated**

50.90 63.80 **IGRD, Granodiorite**

COARSE TO MEDIUM GRAINED GRANODIORITE WITH MINOR CROSSCUTTING TONALITE DYKES.

**Structure:**

**50.90 - 50.90: Contact**

45 DTCA

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**50.90 - 59.00: Massive**

**50.90 - 63.80: Medium Grained - Coarse Grained**

**59.00 - 63.80: Foliated**

FOLIATION DEVELOPS AT BOTTOM OF INTERVAL

63.80 66.70 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS

**Mineralization:**

**63.80 - 66.70: Pyrite, Fracture Filling, 1%%**

**Texture:**

**63.80 - 66.70: Medium Grained**

**63.80 - 66.70: Foliated**

66.70 68.50 **IGRD, Granodiorite**

**Texture:**

**66.70 - 68.50: Coarse Grained Matrix**

68.50 73.70 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS.

**Mineralization:**

**68.50 - 73.70: Pyrite, Fracture Filling, 1%%**

**Texture:**

**68.50 - 73.70: Medium Grained**

**68.50 - 73.70: Foliated**

73.70 74.10 **IGRD, Granodiorite**

GRANODIORITE DYKE.

**Texture:**

**73.70 - 74.10: Coarse Grained**

74.10 90.70 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. FRACTURE FILLING CARBONATE WITH MINOR BLEACHED HALOS OBSERVED FROM 87-88m.

**Mineralization:**

**74.10 - 90.70: Pyrite, Fracture Filling, 1-2%%**

**Texture:**

**74.10 - 90.70: Medium Grained**

**74.10 - 90.70: Foliated**

**86.50 - 86.80: Broken Core**

90.70 100.00 **IGRD, Granodiorite**

GRANODIORITE. ROCK BEGINNING TO HAVE A GREY COLOUR AS OPPOSED TO WHITE ABOVE. BROKEN CORE FROM 97.7 TO 99.5m WITH CHLORITE ALTERATION ALONG FRACTURES.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **97.70 - 99.50: Chlorite, Fracture Filling, Weak** | | | | | | | | | | | | | | |
| **99.50 - 99.90: Hematite, Pervasive, Weak** | | | | | | | | | | | | | | |
| RED-PINK STAINING ON GRANODIORITE. POSSIBLY POTASSIC ALTERATION. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **90.70 - 100.00: Coarse Grained** | | | | | | | | | | | | | | |
| **97.70 - 99.50: Broken Core** | | | | | | | | | | | | | | |
| MILDLY BROKEN | | | | | | | | | | | | | | |
| 100.00 | 117.70 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. PINK GRANODIORITE DYKES FOUND AT TOP OF INTERVAL. FRACTURE FILLING CARBONATE VEINS ARE FOUND SPORADICALLY THROUGHOUT. UNIT CONTAINS ABUNDANT PYRITE ALONG NEARLY EVERY FRACTURE SURFACE. HEMATITE ALTERATION BECOMES PERVASSIVE AND STRONGER TOWARDS LOWER CONTACT. CARBONATE VEINLETS INCREASE TOWARDS CONTACT WITH INTRUSION. | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **100.00 - 113.50: Carbonate, Fracture Filling, Weak** | | | | | | | | | | | | | | |
| **113.50 - 117.70: Carbonate, Veins, Moderate** | | | | | | | | | | | | | | |
| FRACTURE FILLING CARBONATE VEINS WITH HEMATITE RIMS BECOME MORE ABUNDANT. TREND AT APPROXIMATELY 70 DTCA. | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **100.00 - 117.70: Pyrite, Fracture Filling, 5%%** | | | | | | | | | | | | | | |
| PYRITE FOUND ALONG NEARLY EVERY FRACTURE SURFACE. | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **100.00 - 117.70: Bedded** | | | | | | | | | | | | | | |
| 30-40 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **100.00 - 117.70: Medium Grained** | | | | | | | | | | | | | | |
| **100.00 - 117.70: Foliated** | | | | | | | | | | | | | | |
| 117.70 | 119.40 | **IGB, Gabbro** | | | | | | | | | | | | |
| GABBRO BRECCIA. DARK RED GABBROIC MATRIX WITH ABUNDANT SUBANGULAR QUARTZ XENOLITH RANGING FROM 0.5-3cm. XENOLITHS SHOW BLACK-GREEN CORONA TEXTURES. UPPER CONTACT IS DIFFUSE, NOTED WHERE THE FIRST XENOLITH APPEARS. 1-2% DISSEMINATED PYRITE IS VARIABLE IN SIZE AND HABIT, RANGING FROM FINE GRAINED TO MEDIUM GRAINED. | | | Q167049 | 117.70 | 118.60 | 0.90 | 62.000 | 148.000 | 27.000 | 0.011 | 0.009 | 0.005 | 0.250 | 0.680 |
| | | | Q167050 | 118.60 | 119.40 | 0.80 | 90.000 | 413.000 | 36.000 | 0.031 | 0.029 | 0.010 | 0.250 | 0.970 |
| **Alteration:** | | | | | | | | | | | | | | |
| **117.70 - 119.40: Epidote, Pervasive, Strong** | | | | | | | | | | | | | | |
| **117.70 - 119.40: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **117.70 - 119.40: Pyrite, Disseminated, 1-2%%** | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **117.70 - 119.40: Xenolithic** | | | | | | | | | | | | | | |
| ANGULAR QUARTZ XENOLITHS AND RARELY FRAGMENTS OF QUETICO SEDIMENTS. | | | | | | | | | | | | | | |
| **117.70 - 119.40: Varitextured** | | | | | | | | | | | | | | |
| **117.70 - 119.40: Medium Grained Matrix** | | | | | | | | | | | | | | |
| DARK RED TO GREEN COLOUR | | | | | | | | | | | | | | |
| **117.70 - 119.40: Brecciated** | | | | | | | | | | | | | | |
| 119.40 | 153.80 | **IGB, Gabbro** | | | | | | | | | | | | |
| RED GREEN GABBRO. COARSER TO MEDIUM GRAINED, AND STRONGLY HEMATITE AND EPIDOTE ALTERED TO 148.1m. FROM 148.1 TO 155.8m GABBRO IS RELATIVELY UNALTERED, AND IS NOTICEABLY FINER GRAINED. TRACE DISSEMINATED PYRITE FOUND THROUGHOUT UNIT. | | | Q167051 | 119.40 | 121.00 | 1.60 | 35.000 | 154.000 | 38.000 | 0.011 | 0.006 | 0.005 | 0.250 | 1.120 |
| | | | Q167052 | 121.00 | 122.50 | 1.50 | 51.000 | 192.000 | 43.000 | 0.012 | 0.007 | 0.003 | 0.250 | 0.850 |
| | | | Q167053 | 122.50 | 124.00 | 1.50 | 65.000 | 205.000 | 45.000 | 0.012 | 0.008 | 0.005 | 0.250 | 0.210 |
| | | | Q167054 | 124.00 | 125.50 | 1.50 | 62.000 | 196.000 | 44.000 | 0.017 | 0.009 | 0.011 | 0.250 | 0.290 |
| | | | Q167055 | 125.50 | 127.00 | 1.50 | 63.000 | 176.000 | 45.000 | 0.017 | 0.009 | 0.005 | 0.250 | 0.940 |
| | | | Q167056 | 127.00 | 128.50 | 1.50 | 61.000 | 183.000 | 44.000 | 0.014 | 0.010 | 0.004 | 0.250 | 0.310 |
| | | | Q167057 | 128.50 | 130.00 | 1.50 | 63.000 | 197.000 | 42.000 | 0.014 | 0.010 | 0.003 | 0.250 | 0.660 |
| | | | Q167058 | 130.00 | 131.50 | 1.50 | 65.000 | 181.000 | 44.000 | 0.014 | 0.010 | 0.005 | 0.250 | 0.360 |
| | | | Q167059 | 131.50 | 133.00 | 1.50 | 62.000 | 165.000 | 42.000 | 0.014 | 0.011 | 0.005 | 0.250 | 0.570 |
| | | | Q167060 | 133.00 | 134.50 | 1.50 | 59.000 | 126.000 | 39.000 | 0.014 | 0.011 | 0.006 | 0.250 | 0.760 |
| | | | Q167061 | 134.50 | 136.00 | 1.50 | 62.000 | 136.000 | 42.000 | 0.018 | 0.013 | 0.004 | 0.250 | 0.280 |
| | | | Q167062 | 136.00 | 137.50 | 1.50 | 62.000 | 81.000 | 46.000 | 0.018 | 0.014 | 0.004 | 0.250 | 0.580 |
| | | | Q167063 | 137.50 | 139.00 | 1.50 | 60.000 | 142.000 | 40.000 | 0.018 | 0.014 | 0.003 | 0.250 | 0.380 |
| | | | Q167064 | 139.00 | 140.50 | 1.50 | 65.000 | 134.000 | 41.000 | 0.015 | 0.012 | 0.003 | 0.250 | 0.450 |
| | | | Q167065 | 140.50 | 142.00 | 1.50 | 62.000 | 127.000 | 42.000 | 0.013 | 0.010 | 0.003 | 0.250 | 0.290 |
| | | | Q167066 | 142.00 | 143.50 | 1.50 | 66.000 | 110.000 | 43.000 | 0.013 | 0.010 | 0.003 | 0.250 | 0.460 |
| | | | Q167068 | 143.50 | 145.00 | 1.50 | 62.000 | 114.000 | 39.000 | 0.013 | 0.009 | 0.004 | 0.250 | 0.290 |
| | | | Q167069 | 145.00 | 146.50 | 1.50 | 69.000 | 176.000 | 42.000 | 0.013 | 0.009 | 0.004 | 0.250 | 0.180 |
| | | | Q167070 | 146.50 | 148.00 | 1.50 | 66.000 | 113.000 | 45.000 | 0.014 | 0.009 | 0.004 | 0.250 | 0.570 |
| | | | Q167071 | 148.00 | 149.50 | 1.50 | 162.000 | 123.000 | 60.000 | 0.014 | 0.006 | 0.003 | 0.250 | 0.510 |
| | | | Q167072 | 149.50 | 151.00 | 1.50 | 203.000 | 175.000 | 65.000 | 0.026 | 0.010 | 0.004 | 0.250 | 0.180 |
| | | | Q167073 | 151.00 | 152.50 | 1.50 | 248.000 | 394.000 | 67.000 | 0.074 | 0.056 | 0.009 | 0.250 | 0.290 |
| | | | Q167074 | 152.50 | 153.80 | 1.30 | 301.000 | 447.000 | 63.000 | 0.104 | 0.052 | 0.022 | 0.250 | 0.130 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Alteration:** | | | | | | | | | | | | |
| | | **119.40 - 148.10: Hematite, Pervasive, Strong** | | | | | | | | | | | | |
| | | VARIABLY HEMATIZED THROUGHOUT, | | | | | | | | | | | | |
| | | **119.40 - 148.10: Epidote, Pervasive, Strong** | | | | | | | | | | | | |
| | | VARIBALY SAUSSERITIZED THROUGHOUT | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **119.40 - 153.80: Pyrite, Trace, TRACE%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **119.40 - 120.00: Varitextured** | | | | | | | | | | | | |
| | | COARSE GRAINED PODS OF HEMATITIC MATERIAL WITHIN GABBRO. NEEDLE SHAPED AMPHIBOLE UP TO 2cm LONG. | | | | | | | | | | | | |
| | | **119.40 - 148.10: Medium Grained - Coarse Grained** | | | | | | | | | | | | |
| | | INTERGRANULAR TEXTURE WITH 50-55% ALTERED PLAGIOCLASE WITH 45-50% CLINOPYROXENE. | | | | | | | | | | | | |
| | | **148.10 - 153.80: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| | | RAPID DECREASE IN GRAINSIZE. STILL APPEARS TO BE COMPRISED OF 50% PLAGIOCLASE AND 50% PYROXENE | | | | | | | | | | | | |
| | | **148.10 - 153.80: Oikocrysts** | | | | | | | | | | | | |
| | | OIKOCRYSTIC PLAGIOCLASE ENCLOSE PYROXENE AND EARLY PLAGIOCLASE | | | | | | | | | | | | |
| 153.80 | 154.80 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GABBRO BRECCIA. RED-GREY COLOUR WITH TYPICAL ANGULAR QUARTZ XENOLITHS (10%). VARITEXTURED WITH DARK BLACK AMPHIOLE AND RED PLAGIOCLASE PHENOCRYSTS BEING NOTICEABLY COARSER THAN THE MOTTLED GREY-GREEN MATRIX. 1-2% BLEBBY CHALCOPYRITE+PYRRHOTITE TO 154.1m | Q167075 | 153.80 | 154.80 | 1.00 | 210.000 | 274.000 | 55.000 | 0.066 | 0.040 | 0.005 | 0.250 | 0.210 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **153.80 - 154.80: Epidote, Patchy, Weak** | | | | | | | | | | | | |
| | | **153.80 - 154.80: Hematite, Patchy, Strong** | | | | | | | | | | | | |
| | | DIFFUSE PODS-BANDS OF HEMATITIC GABBRO | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **153.80 - 154.10: Pyrrhotite/Chalcopyrite, Blebby, 1%%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **153.80 - 154.80: Brecciated** | | | | | | | | | | | | |
| | | **153.80 - 154.80: Xenolithic** | | | | | | | | | | | | |
| | | **153.80 - 154.80: Varitextured** | | | | | | | | | | | | |
| 154.80 | 156.60 | **IMGNO, Melagabbronorite** | | | | | | | | | | | | |
| | | PYROXENE CUMMULATE MELAGABBRONORITE. AS OBSERVED IN HOLES 002 AND 003, DARK RED STAINED ORTHOPYROXENE CRYSTALS ARE PREVALENT. 50% CLINOPYROXENE, 25% ORTHOPYROXENE, 25% PLAGIOCLASE. | Q167076 | 154.80 | 155.80 | 1.00 | 350.000 | 231.000 | 77.000 | 0.042 | 0.019 | 0.010 | 0.250 | 0.250 |
| | | | Q167077 | 155.80 | 156.60 | 0.80 | 327.000 | 365.000 | 70.000 | 0.035 | 0.022 | 0.004 | 0.250 | 0.110 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **154.80 - 156.60: Hematite, Patchy, Moderate** | | | | | | | | | | | | |
| | | PREFFERENTIALLY ALTERS ORTHOPYROXENE. | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Texture:** | | | | | | | | | | | | |
| | | **154.80 - 156.60: Adcumulate** | | | | | | | | | | | | |
| | | **154.80 - 156.60: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| 156.60 | 163.10 | **IGB, Gabbro** | | | | | | | | | | | | |
| | | GABBRO BRECCIA. DOMINANTLY MEDIUM TO COARSE GRAINED HEMATIZED GABBRO WITH PATCHY QUARTZ XENOLITHS. XENOLITHS APPEAR PARTLY MELTED HERE, MORE ROUNDED THAN PREVIOUS INTERVALS. | Q167078 | 156.60 | 157.60 | 1.00 | 259.000 | 633.000 | 58.000 | 0.072 | 0.036 | 0.015 | 0.250 | 0.250 |
| | | | Q167079 | 157.60 | 158.60 | 1.00 | 345.000 | 994.000 | 66.000 | 0.041 | 0.017 | 0.022 | 0.250 | 0.510 |
| | | | Q167080 | 158.60 | 159.60 | 1.00 | 273.000 | 833.000 | 60.000 | 0.034 | 0.016 | 0.009 | 0.250 | 0.480 |
| | | | Q167081 | 159.60 | 160.60 | 1.00 | 324.000 | 1,370.000 | 62.000 | 0.046 | 0.020 | 0.019 | 0.250 | 0.310 |
| | | | Q167082 | 160.60 | 161.60 | 1.00 | 291.000 | 1,180.000 | 56.000 | 0.042 | 0.025 | 0.011 | 0.250 | 0.280 |
| | | | Q167083 | 161.60 | 162.60 | 1.00 | 275.000 | 991.000 | 65.000 | 0.028 | 0.014 | 0.008 | 0.600 | 1.300 |
| | | | Q167084 | 162.60 | 163.60 | 1.00 | 290.000 | 909.000 | 69.000 | 0.025 | 0.011 | 0.011 | 0.250 | 0.290 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **156.60 - 163.10: Hematite, Patchy, Strong** | | | | | | | | | | | | |
| | | QUARTZ FRAGMENTS ARE RIMMED BY DEEP RED MATERIAL. SPORADIC HEMATITIC PODS THROUGHOUT AS WELL. | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **156.60 - 163.10: Pyrrhotite/Pyrite/Chalcopyrite, Disseminated, 1%%** | | | | | | | | | | | | |
| | | SPORADIC SULFIDES THROUGHOUT. NO FRACTIONATION TEXTURES OBSERVED, ALL PHASES ARE FOUND IN DISCREET GRAINS/BLEBS. | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **156.60 - 163.10: Xenolithic** | | | | | | | | | | | | |
| | | HEMATIZED QUARTZ FRAGMENTS | | | | | | | | | | | | |
| | | **156.60 - 163.10: Heterogeneous** | | | | | | | | | | | | |
| | | **156.60 - 163.10: Varitextured** | | | | | | | | | | | | |
| 163.10 | 168.90 | **IHGB, Hornblende Gabbro** | | | | | | | | | | | | |
| | | INCLUSION BEARING HORNBLENDE GABBRO. COARSE GRAINED UNIT WITH 10-20% QUARTZ-CARBONATE FRAGMENTS (XENOLITHS?). FRAGMENTS ARE SUBROUNDED, AND UP TO 2cm DIAMETER. FRAGMENTS OFTEN RIMMED BY HEMATITE, EPIDOTE, AND CAN CONTAIN PYRITE. CARBONATE VEINS CUT UNIT AND CONTAIN DISSEMINATED PYRITE. STRONGLY EPIDOTE ALTERED, AND POSSIBLY CHLORITIZED GIVING THE GROUNDMASS A MOTTLED APPEARANCE IN PLACES. BLEBBY TO BLOCKY CHALCOPYRITE-PYRRHOTITE FROM 165.6 TO 168.9m. SULFIDES ARE FRACTIONATED AND OFTEN APPEAR BROKEN OR BRECCIATED, SEPARATING CHALCOPYRITE FROM PYRRHOTITE. SULFIDES ARE SIMILAR IN SIZE TO CARBONATE XENOLITHS, AND COULD POSSIBLY BE XENOLITHS THEMSELVES. | Q167085 | 163.60 | 164.60 | 1.00 | 241.000 | 590.000 | 63.000 | 0.088 | 0.058 | 0.010 | 0.250 | 0.160 |
| | | | Q167086 | 164.60 | 165.60 | 1.00 | 312.000 | 886.000 | 72.000 | 0.399 | 0.324 | 0.034 | 0.250 | 0.230 |
| | | | Q167088 | 165.60 | 166.60 | 1.00 | 351.000 | 615.000 | 78.000 | 0.320 | 0.260 | 0.034 | 0.700 | 0.850 |
| | | | Q167089 | 166.60 | 167.60 | 1.00 | 392.000 | 1,095.000 | 71.000 | 0.253 | 0.226 | 0.019 | 0.250 | 0.850 |
| | | | Q167090 | 167.60 | 168.60 | 1.00 | 684.000 | 3,190.000 | 83.000 | 0.658 | 0.593 | 0.093 | 0.250 | 0.970 |
| | | | Q167091 | 168.60 | 169.60 | 1.00 | 556.000 | 1,735.000 | 79.000 | 0.465 | 0.350 | 0.047 | 0.250 | 0.450 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **163.10 - 168.90: Chlorite, Pervasive, Moderate** | | | | | | | | | | | | |
| | | **163.10 - 168.90: Carbonate, Veins, Moderate** | | | | | | | | | | | | |
| | | **163.10 - 168.90: Epidote, Pervasive, Moderate** | | | | | | | | | | | | |
| | | **163.10 - 168.90: Hematite, Patchy, Weak** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mineralization:** | | | | | | | | | | | | | | |
| **163.10 - 168.90: Pyrite, Disseminated, 1%%** | | | | | | | | | | | | | | |
| EUHEDRAL DISSEMINATED PYRITE THROUGHOUT. | | | | | | | | | | | | | | |
| **165.60 - 168.90: Pyrrhotite/Chalcopyrite, Blebby, 1-5%%** | | | | | | | | | | | | | | |
| BLEBBY TO BLOCKY IN HABIT. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **163.10 - 168.90: Coarse Grained** | | | | | | | | | | | | | | |
| **163.10 - 168.90: Xenolithic** | | | | | | | | | | | | | | |
| **163.10 - 168.90: Heterogeneous** | | | | | | | | | | | | | | |
| VARIABLE IN TEXTURE AND COMPOSITION | | | | | | | | | | | | | | |
| 168.90 | 179.30 | **IGB, Gabbro** | | | | | | | | | | | | |
| FINE GRAINED TO MEDIUM GRAINED GABBRO. TRANSITIONAL CONTACT WITH OVERLYING HORNBLENDE GABBRO MARKED WHERE XENOLITHS ARE NO LONGER PRESENT. PLAGIOCLASE OIKOCRYSTS ENCLOSE PYROXENE. BECOMES COARSER GRAINED AND HEMATIZED FROM 174.2 TO LOWER CONTACT. TRACE DISSEMINATED TO BLEBBY PYRRHOTITE-CHALCOPYRITE-PYRITE FROM 174.2m TO 179.3m. NO CHILL MARGIN AT LOWER CONTACT. | | | Q167092 | 169.60 | 170.60 | 1.00 | 274.000 | 110.000 | 66.000 | 0.300 | 0.101 | 0.006 | 0.250 | 0.190 |
| | | | Q167093 | 170.60 | 171.60 | 1.00 | 311.000 | 506.000 | 63.000 | 0.134 | 0.074 | 0.044 | 0.250 | 0.100 |
| | | | Q167094 | 171.60 | 172.60 | 1.00 | 254.000 | 242.000 | 74.000 | 0.017 | 0.009 | 0.007 | 0.250 | 0.530 |
| | | | Q167095 | 172.60 | 173.60 | 1.00 | 221.000 | 477.000 | 72.000 | 0.031 | 0.024 | 0.006 | 0.250 | 0.160 |
| | | | Q167096 | 173.60 | 174.60 | 1.00 | 183.000 | 270.000 | 74.000 | 0.045 | 0.035 | 0.006 | 0.250 | 0.300 |
| | | | Q167097 | 174.60 | 175.60 | 1.00 | 175.000 | 310.000 | 65.000 | 0.044 | 0.023 | 0.007 | 0.250 | 0.250 |
| | | | Q167098 | 175.60 | 176.60 | 1.00 | 171.000 | 262.000 | 68.000 | 0.036 | 0.025 | 0.005 | 0.250 | 0.240 |
| | | | Q167099 | 176.60 | 177.60 | 1.00 | 178.000 | 259.000 | 66.000 | 0.039 | 0.033 | 0.006 | 0.250 | 0.380 |
| | | | Q167100 | 177.60 | 178.60 | 1.00 | 195.000 | 404.000 | 59.000 | 0.065 | 0.064 | 0.009 | 0.250 | 0.270 |
| | | | Q167101 | 178.60 | 179.30 | 0.70 | 205.000 | 325.000 | 58.000 | 0.056 | 0.046 | 0.008 | 0.250 | 0.220 |
| **Alteration:** | | | | | | | | | | | | | | |
| **172.40 - 172.65: Epidote, Patchy, Moderate** | | | | | | | | | | | | | | |
| **172.40 - 172.65: Hematite, Patchy, Moderate** | | | | | | | | | | | | | | |
| **173.00 - 179.30: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| **174.60 - 175.80: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **168.90 - 169.20: Pyrrhotite/Chalcopyrite, Blebby, 1%%** | | | | | | | | | | | | | | |
| SIMILAR MINERALIZATION AS OBSERVED ABOVE, WITH DISCREET CPY-PO BLEBS. FINE GRAINED. | | | | | | | | | | | | | | |
| **174.20 - 179.30: Pyrrhotite/Pyrite/Chalcopyrite, Disseminated, TRACE%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **168.90 - 172.40: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| **168.90 - 179.30: Oikocrysts** | | | | | | | | | | | | | | |
| PLAGIOCLASE OIKOCRYSTS | | | | | | | | | | | | | | |
| **172.40 - 172.65: Coarse Grained - Medium Grained** | | | | | | | | | | | | | | |
| DIFFUSE ZONE OF COARSER, HEMATIZED AND EPIDOTE ALTERED GABBRO. | | | | | | | | | | | | | | |
| **172.65 - 174.50: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| **174.50 - 179.30: Medium Grained** | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 179.30 | 181.50 | **MQZT, Mafic metasediment**<br>HEMATIZED QUETICO METASEDIMENTARY ROCKS. POSSIBLE RAFT IN INTRUSION? NARROW BAND OF BRICK RED GRANITE AND GABBRO BRECCIA WITHIN INTERVAL.<br>**Alteration:**<br>**179.30 - 180.80: Hematite, Pervasive, Strong**<br>**Texture:**<br>**179.30 - 181.50: Broken Core**<br>STRONGLY FRACTURED.<br>**179.30 - 181.50: Medium Grained**<br>**179.30 - 181.50: Foliated** | | | | | | | | | | | | |
| 181.50 | 184.50 | **IGB, Gabbro**<br>GABBRO. STRONGLY HEMATITE AND EPIDOTE ALTERED AT TOP OF INTERVAL LOSING ALTERATION BY 184.2. APPEARS TO BECOME MORE MAFIC AT BASE OF INTERVAL, RANGING FROM 50% PLAGIOCLASE AT TOP TO 30% AT BOTTOM. 2-3% DISSEMINATED CHALCOPYRITE-PYRRHOTITE-PYRITE WITHIN 20cm OF UPPER AND LOWER CONTACTS<br>**Alteration:**<br>**181.50 - 181.70: Epidote, Pervasive, Moderate**<br>**181.50 - 184.20: Hematite, Patchy, Moderate**<br>**Mineralization:**<br>**181.50 - 181.70: Pyrrhotite/Pyrite/Chalcopyrite, Disseminated, 3%%**<br>**181.50 - 184.50: Pyrite, Trace, TRACE%**<br>**Texture:**<br>**181.50 - 182.40: Xenolithic**<br>MINOR QUARTZ CLASTS UP TO 1cm DIAMETER.<br>**182.40 - 183.00: Medium Grained**<br>**183.00 - 184.50: Fine Grained - Medium Grained**<br>POSSIBLE INTERNAL CONTACT AT GRAIN SIZE CHANGE. | Q167102 | 181.50 | 182.50 | 1.00 | 308.000 | 818.000 | 60.000 | 0.333 | 0.158 | 0.032 | 0.250 | 0.600 |
| | | | Q167103 | 182.50 | 183.50 | 1.00 | 112.000 | 160.000 | 46.000 | 0.019 | 0.011 | 0.004 | 0.250 | 0.170 |
| | | | Q167104 | 183.50 | 184.50 | 1.00 | 181.000 | 171.000 | 61.000 | 0.034 | 0.027 | 0.005 | 0.250 | 0.620 |
| 184.50 | 185.80 | **IOMGNO, Olivine Melagabbronorite**<br>DIFFERENT TEXTURE THAN PREVIOUS IMGNO INTERVAL. IT LACKS THE STRONG CUMMULATE TEXTURE OBSERVED BEFORE. MORE EQUIGRANULAR, AND NO HEMATITE ALTERATION ON ORTHOPYROXENE. 40% CLINOPYROXENE, 30% ORTHOPYROXENE, 25% PLAGIOCLASE 5% OLIVINE. DISSEMINATED TO BLEBBY CHALCOPYRITE-PYRRHOTITE PLUS PYRITE THROUGHOUT INTERVAL. NO CHILL MARGIN AT LOWER CONTACT.<br>**Mineralization:**<br>**185.60 - 185.80: Pyrrhotite/Pyrite/Chalcopyrite, Disseminated, 2%%**<br>**Structure:**<br>**184.50 - 185.80: Contact**<br>VERY DIFFUSE CONTACT. NO CHILL MARGIN. APPROXIMATELY 80 DTCA<br>**Texture:**<br>**184.50 - 185.80: Fine Grained - Medium Grained**<br>INTERGRANULAR TEXTURE | Q167105 | 184.50 | 185.50 | 1.00 | 529.000 | 871.000 | 88.000 | 0.187 | 0.153 | 0.017 | 0.600 | 0.620 |
| 185.80 | 196.80 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

QUETICO METASEDIMENTARY ROCKS. VERY FINE GRAINED AT CONTACT, POSSIBLY DUE TO HORNFELSING. FRACTURE FILLING CARBONATE VEINS FOUND THROUGHOUT.

**Alteration:**

**185.80 - 196.80: Carbonate, Fracture Filling, Moderate**

**Structure:**

**185.80 - 196.80: Foliation**

50 DTCA. VERY WEAK HERE

**Texture:**

**185.80 - 187.70: Fine Grained**

POSSIBLE HORNFELSING EFFECT.

**187.70 - 196.80: Medium Grained**

**187.70 - 196.80: Foliated**

196.80 200.30 **IGR, Granite**

PINK-RED PEGMATITIC GRANITE. VERY FRACTURED THROUGHOUT WITH CARBONATE FILLING FRACTURES.

**Alteration:**

**196.80 - 200.30: Carbonate, Fracture Filling, Moderate**

**Structure:**

**196.80 - 196.80: Contact**

60 DTCA

**200.30 - 200.30: Contact**

80 DTCA

**Texture:**

**196.80 - 200.30: Fractured**

**196.80 - 200.30: Pegmatitic**

200.30 211.80 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAK FRACTION FILLING CARBONATE ALTERATION.

**Alteration:**

**200.30 - 211.80: Carbonate, Fracture Filling, Weak**

**Structure:**

**200.30 - 211.80: Bedded**

30 DTCA

**Texture:**

**200.30 - 211.80: Medium Grained**

**200.30 - 211.80: Foliated**

211.80 212.60 **IGRD, Granodiorite**

PEGMATITIC GRANODIORITE-TONALITE DYKE.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Structure:** | | | | | | | | | | | | | | |
| **211.80 - 211.80: Contact** | | | | | | | | | | | | | | |
| 30 DTCA | | | | | | | | | | | | | | |
| **212.60 - 212.60: Contact** | | | | | | | | | | | | | | |
| 70 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **211.80 - 212.60: Pegmatitic** | | | | | | | | | | | | | | |
| 212.60 | 217.40 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **212.60 - 217.40: Foliation** | | | | | | | | | | | | | | |
| 35 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **212.60 - 217.40: Medium Grained** | | | | | | | | | | | | | | |
| **212.60 - 217.40: Foliated** | | | | | | | | | | | | | | |
| 217.40 | 222.40 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| WHITE-GREY GRANODIORITE. MINOR PEGMATITIC ZONES. | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **217.40 - 217.40: Contact** | | | | | | | | | | | | | | |
| 40 DTCA | | | | | | | | | | | | | | |
| **222.40 - 222.40: Contact** | | | | | | | | | | | | | | |
| 75 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **217.40 - 218.40: Pegmatitic** | | | | | | | | | | | | | | |
| **217.40 - 222.40: Coarse Grained** | | | | | | | | | | | | | | |
| 222.40 | 223.80 | **IGD, Gabbroic dykes** | | | | | | | | | | | | |
| DARK GREY MAFIC DYKE WITH ABUNDANT FRACTURE FILLING CARBONATE VEINS. ALSO RED STAINED CARBONATE OCELLI, WHICH APPEAR TO ALTER PYROXENE?. PYROXENE PHYRIC TEXTURE. 40% PYROXENE, 40% PLAGIOCLASE, 20% CARBONATE. | | | Q167106 | 222.40 | 223.80 | 1.40 | 336.000 | 166.000 | 70.000 | 0.017 | 0.010 | 0.004 | 0.250 | 2.300 |
| **Alteration:** | | | | | | | | | | | | | | |
| **222.40 - 223.80: Carbonate, Veins, Strong** | | | | | | | | | | | | | | |
| **222.40 - 223.80: Carbonate, Spots, Moderate** | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **222.40 - 222.40: Contact** | | | | | | | | | | | | | | |
| 75 DTCA | | | | | | | | | | | | | | |
| **223.80 - 223.80: Contact** | | | | | | | | | | | | | | |
| 70 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **222.40 - 223.80: Pyroxene Phyric** | | | | | | | | | | | | | | |
| **222.40 - 223.80: Chilled Margin** | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 223.80 | 239.00 | **IGRD, Granodiorite** | | | | | | | | | | | | |

GREY-WHITE GRANODIORITE

**Texture:**

**223.80 - 239.00: Coarse Grained**

## Survey Data

| Depth | Azimuth Decimal | Dip Decimal | Test Type | Flag | Comments |
|---|---|---|---|---|---|
| 32.00 | 153.90 | -85.50 | REFLEX | O | |
| 62.00 | 161.00 | -85.80 | REFLEX | O | |
| 92.00 | 169.70 | -86.00 | REFLEX | O | |
| 122.00 | 180.50 | -85.20 | REFLEX | O | |
| 152.00 | 185.30 | -85.40 | REFLEX | O | |
| 182.00 | 178.60 | -85.30 | REFLEX | O | |
| 215.00 | 185.20 | -85.00 | REFLEX | O | |
| 239.00 | 178.60 | -85.30 | REFLEX | O | |

# Detailed Log Report
# Hole Number SL-13-006

| Project | | Coordinates | | Collar | | | |
|---|---|---|---|---|---|---|---|
| **Project Name:** | SUNDAY LAKE | **Primary Coordinates Grid:** | UTM83-16 | **Collar Dip:** | -75.00 | **Collar Az:** | 235.00 |
| **Project Code:** | 23 | **North:** | 5,395,503.00 | **Length:** | 662.30 | | |
| **Location:** | SUNDAY LAKE | **East:** | 334,702.00 | **Hole Size:** | | | |
| **Start Date:** | Nov 26, 2013 | **Elev:** | 486.00 | **Hole Type:** | DD | | |
| **Completed Date:** | | **Destination Coordinates Grid:** | LL83 | **Casing:** | | | |
| **Contractor:** | | **North:** | 48.69 | **Collar Survey:** | N | **Plugged:** | N |
| **Core Storage:** | THUNDER BAY | **East:** | -89.25 | **Multishot Survey:** | N | **Pulse EM Survey:** | N |
| **Units:** | METRIC | **Elev:** | 486.00 | | | | |

## Detailed Lithology

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 3.00 | **CAS, Casing** | | | | | | | | | | | | |
| 3.00 | 67.10 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |

QUETICO METASEDIMENTARY ROCKS. STRONGLY FOLIATED TO GNEISSIC, WITH MINOR NARROW BANDS OF TONALITIC LEUCOSOME. CORE LOOKS SILICIFIED FROM 13.3-15.2m AND FROM 30-36.5m. 1-3% DISSEMINATED PYRITE THROUGHOUT, APPEARS MOST ABUNDANT IN SILICIFIED ZONES. FRACTURES WITH A BLEACHED HALO BECOME MORE ABUNDANT, AND WIDER DOWN INTERVAL(SIMILAR TO ALTERATION OBSERVED PROXIMAL TO INTRUSION IN PREVIOUS HOLES).

**Alteration:**

**3.00 - 56.00: Carbonate, Fracture Filling, Moderate**

LATE FRACTURES CROSSCUT FOLIATION AND BEDDING. CHARACTERIZED BY A BLEACHED HALO WITH CARBONATE+ EPIDOTE.

**13.30 - 15.20: Silica, Banded, Strong**

SILICIFIED HORIZON IN SEDIMENTS.

**30.00 - 36.50: Epidote, Pervasive, Weak**

EPIDOTE+CHLORITE HALOS AROUND QUARTZ ALBITE BANDS. ALSO PERVASSIVE ALTERATION OBSERVED AS GREEN COLOUR IN CORE.

**30.00 - 36.50: Silica, Banded, Strong**

NARROW INTERVALS OF QUARTZ-ALBITE BANDS WITHIN BROAD QUARTZ-EPIDOTE ALTERATION.

**Mineralization:**

**13.30 - 36.50: Pyrite, Disseminated, 1-3%%**

**Structure:**

**3.00 - 56.00: Bedded**

75-90 DTCA

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**3.00 - 56.00: Medium Grained**

**3.00 - 56.00: Foliated**

**6.60 - 9.50: Broken Core**

VERY BLOCKY INTERVAL.

67.10 70.00 **IGRD, Granodiorite**

GNEISSIC, PORPHYRITIC GRANODIORITE. FELDSPAR PHENOCYRSTS APPEAR PORPHYROBLASTIC WITHIN BIOTITE RICH MATRIX. 2% DISSEMINATED PYRITE. BANDING AND CONTACTS ORIENTED 10 DTCA. HEMATITE ALTERATION NOTED NEAR BOTTOM OF INTERVAL.

**Alteration:**

**68.30 - 68.40: Epidote, Patchy, Weak**

PEGMATITIC ZONE CONATINS EPIDOTE PATCHES

**69.00 - 70.00: Hematite, Fracture Filling, Weak**

PINK STAINING ALONG FRACTURES AND AT CONTACT WITH SEDIMENTS.

**Structure:**

**67.10 - 67.10: Contact**

10 DTCA

**67.10 - 70.00: Gneissic**

10 DTCA

**70.00 - 70.00: Contact**

10 DTCA

**Texture:**

**67.10 - 70.00: Coarse Grained**

**67.10 - 70.00: Porphyroblastic**

FELDSPAR CRYSTALS UP TO 5mm WIDE OVERPRINT EARLIER MINERAL PHASES.

**67.10 - 70.00: Gneissic**

70.00 109.80 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. BEGINNING TO APPEAR GNEISSIC THROUGH THIS INTERVAL WITH NARROW BANDS OF TONALITIC LEUCOSOME. FRACTURES FILLED WITH EPIDOTE, CLAY AND CARBONATE BECOME MORE ABUNDANT, AND WIDER THAN PREVIOUS INTERVAL.

**Alteration:**

**70.00 - 109.80: Carbonate, Fracture Filling, Moderate**

**70.00 - 109.80: Epidote, Fracture Filling, Moderate**

EPIDOTE/CARBONATE FRACTURES BECOME WIDER, AND MORE STRONGLY ALTERED DOWN INTERVAL.

**Structure:**

**70.00 - 109.80: Foliation**

10 DTCA.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**70.00 - 109.00: Gneissic**

WEAK GNEISSIC TEXTURE. TONALITIC LEUCOSOME

**70.00 - 109.80: Medium Grained**

**71.50 - 72.20: Broken Core**

EPIDOTE AND CLAY RICH BROKEN CORE

**104.00 - 105.50: Broken Core**

EPIDOTE AND CLAY RICH BROKEN CORE

109.80 111.10 **MQZT, Mafic metasediment**

CATACLASTITE. GREY-GREEN FAULT GOUGE WITH LITHIFIED FRAGMENTS OF QUETICO SEDIMENTS. FRAGMENTS SHOW A GREY-GREEN ROUNDED BLEACHED HALO, SIMILAR TO OBSERVATIONS IN HOLE 002.

**Alteration:**

**109.80 - 111.10: Epidote, Fracture Filling, Moderate**

**Structure:**

**109.80 - 111.10: Fault**

**Texture:**

**109.80 - 111.10: Brecciated**

FRAGMENTS OF QUETICO ARE WITHIN A EPIDOTE-CARBONATE-CLAY MATRIX

111.10 162.50 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAKLY GNEISSIC THROUGH INTERVAL. LATER BRITTLE STRUCTURES INCLUDE BRECCIATION, BROKEN CORE AND ASSOCIATED HEMATITE AND EPIDOTE ALTERATION.

**Alteration:**

**111.10 - 153.50: Hematite, Fracture Filling, Moderate**

HEMATITE ALTERATION OBSERVED AS HALOS AROUND FRACTURES AND WITHIN LEUCOSOME BANDS

**111.10 - 153.50: Epidote, Fracture Filling, Weak**

BLEACHED HALOS AROUND FRACTURES CONTAIN EPIDOTE AND CARBONATE

**111.10 - 153.50: Carbonate, Fracture Filling, Weak**

**114.00 - 114.40: Quartz, Veins, Strong**

QUARTZ EPIDOTE VEIN X-CUTS SEDIMENTS

**153.50 - 162.50: Epidote, Fracture Filling, Moderate**

FRACTURES BECOME WIDER, BRECCIATING CORE

**153.50 - 162.50: Hematite, Fracture Filling, Strong**

FRACTURES BECOME WIDER, MORE STRONGLY ALTERED. STRONGEST ALTERATION OBSERVED IN BRECCIATED ZONES.

**Structure:**

**111.10 - 162.50: Foliation**

15 DTCA FOLIATION DEFINED BY GNEISSIC BANDING

**114.00 - 114.40: Veins**

10 DTCA

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**111.10 - 162.50: Gneissic**

**111.10 - 162.50: Medium Grained**

**115.80 - 117.20: Broken Core**

**122.40 - 122.60: Brecciated**

STRONGLY HEMATIZED, BRICK RED, BRECCIA FRAGMENTS

**125.00 - 125.20: Brecciated**

STRONGLY HEMATIZED, BRICK RED MATRIX AROUND QUETICO FRAGMENTS.

**134.70 - 135.70: Broken Core**

**135.70 - 135.90: Brecciated**

STRONGLY HEMATIZED, BRICK RED, BRECCIATED FRAGMENTS

**140.90 - 141.20: Brecciated**

VERY STRONG EPIDOTE AND HEMATITE ALTERATION ASSOCIATED WITH FRACTURES AND BRECCIATION.

**152.40 - 152.50: Brecciated**

STRONGLY HEMATIZED BRICK RED BRECCIA FRAGMENTS

**153.50 - 159.00: Broken Core**

ANGULAR BLOCKY CORE AND GRAVEL THROUGHOUT INTERVAL. NARROW INTERVALS OF COMPETENT CORE ARE QUARTZ RICH AND STRONGLY HEMATIZED.

162.50 172.00 **MQZT, Mafic metasediment**

CATACLASTITE. INTERVAL DOMINATED BY BROKEN CORE AND BRECCIATED QUETICO SEDIMENTS. MATRIX COMPRISED OF GREEN GREY CLAY. CLASTS SHOW CORONA TEXTURES DUE TO ALTERATION TO CLAY/EPIDOTE.

**Alteration:**

**162.50 - 167.00: Hematite, Fracture Filling, Strong**

FRACTURES BECOME WIDER, MORE STRONGLY ALTERED. STRONGEST ALTERATION OBSERVED IN BRECCIATED ZONES.

**162.50 - 172.00: Epidote, Fracture Filling, Moderate**

FRACTURES BECOME WIDER, BRECCIATING CORE

**Texture:**

**162.50 - 172.00: Broken Core**

ROCK CHIPS AND GRAVEL RICH INTERVAL. COMPETENT CORE COMPRISED OF STRONGLY HEMATIZED AND BRECCIATED SEDIMENT. CLAY RICH FAULT GOUGE PREVALENT.

**162.50 - 172.00: Brecciated**

COMPETENT AND BROKEN CORE SHOW SPORADIC INTERVALS OF BRICK RED BRECCIA. FROM 167 BRECCIA CONSISTS OF GREY GREEN FRAGMENTS IN A CLAY MATRIX.

**162.50 - 172.00: Medium Grained**

172.00 201.40 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. INTERVAL DOMINATED BY BROKEN CORE. COMPETENT CORE COMPRISED OF FOLIATED TO GNEISSIC QUETICO WITH PATCHY HEMATITE ALTERATION. HEMATITE ALTERATION STRONGEST WITHIN TONALITE LEUCOSOME. FRACTURE FILLING EPIDOTE/CARBONATE STILL VISIBLE AS BLEACHED HALOS AROUND FRACTURES. TRACE PYRITE THROUGHOUT.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Alteration:**

**172.00 - 201.40: Carbonate, Fracture Filling, Moderate**

CARBONATE VEINS FILL FRACTURES THROUGHOUT INTERVAL. RANDOM ORIENTATION.

**174.00 - 175.00: Hematite, Patchy, Strong**

RED STAINING PREVALENT THROUGHUT LEUCOSOME.

**Structure:**

**172.00 - 201.40: Foliation**

10-20 DTCA. DEFINED BY GNEISSIC BANDING

**Texture:**

**172.00 - 201.40: Gneissic**

NARROW DISCREET INTERVALS OF QUARTZ RICH, TONALITIC LEUCOSOME

**172.00 - 201.40: Medium Grained**

**173.00 - 174.50: Broken Core**

**176.00 - 181.00: Broken Core**

BLOCKY, BROKEN CORE

**183.50 - 183.80: Broken Core**

**186.40 - 186.70: Brecciated**

201.40 203.00 **MQZT, Mafic metasediment**

CATACLASTITE. SUBROUNDED CLASTS OF QUETICO WITHIN CLAY RICH MATRIX. CLASTS SHOW TYPICAL CORONA TEXTURES, ALTERING TO CLAY SIMILAR TO MATRIX.

**Alteration:**

**201.40 - 203.00: Epidote, Fracture Filling, Moderate**

CLAY AND EPIDOTE ALTERED MATRIX

**Texture:**

**201.40 - 203.00: Brecciated**

203.00 261.30 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. STRONGLY FRACTURED AND DOMINATED BY BROKEN CORE UNTIL 215.8m AFTER WHICH IT BECOMES MORE COMPETENT. HEMATITE ALTERATION CONFINED TO FRACTURES AND BRECCIATED ZONES UNTIL APPROXIMATELY 225m, WHERE ROCK BECOMES MAROON COLOURED DUE TO PERVASSIVE ALTERATION.

**Alteration:**

**203.00 - 261.30: Carbonate, Fracture Filling, Moderate**

FRACTURES WITH BLEACHED HALOS.

**203.00 - 261.30: Hematite, Veins, Moderate**

HEMATITE APPEARS TO STAIN EARLIER VEINS AND LEUCOSOME PREFFERENTIALY.

**225.00 - 261.30: Hematite, Pervasive, Moderate**

MAROON STAINING ON CORE.

**Mineralization:**

**203.00 - 261.30: Pyrite, Fracture Filling, 1-3%%**

DISSEMINATED FINE GRAINED EUHEDRAL PYRITE FOUND ALONG NEARLY ALL FRACTURE SURFACES. ALSO A COMPONENT OF THE MATRIX WITHIN BRECCIATED INTERVALS.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Structure:**

**203.00 - 240.00: Foliation**

10-20 DTCA. DEFINED BY GNEISSIC BANDING.

**Texture:**

**203.00 - 261.20: Medium Grained**

**203.00 - 261.30: Foliated**

**214.50 - 215.50: Brecciated**

**214.50 - 215.50: Broken Core**

**230.60 - 231.40: Brecciated**

SUBROUNDED CLASTS OF HEMATIZED QUETICO WITH GREY-GREEN ALTERATION HALOS.

**232.20 - 233.00: Brecciated**

3 NARROW INTERVALS OF STRONGLY HEMATIZED BRECCIA

**233.00 - 233.50: Broken Core**

**242.90 - 242.95: Brecciated**

EPIDOTE AND HEMATITE RICH MATIX

**246.00 - 246.80: Broken Core**

**249.30 - 250.00: Brecciated**

VERY SOFT, CLAY RICH BRECCIA. ONLY 20% FRAGMENTS. FAULT GOUGE?

**251.40 - 252.10: Broken Core**

**254.80 - 255.30: Broken Core**

**259.90 - 260.50: Brecciated**

HEMATITE RICH BRECCIA. BRECCIA SUROUNDS NARROW GRANITIC DYKE.

**261.10 - 261.30: Brecciated**

BRECCIATED CONTACT WITH GABBRO DYKE.

261.30 261.90 **IGR, Granite**

BRICK RED GRANITE. STRONG HEMATITE ALTERATION. MODERATELY FRACTURED.

**Alteration:**

**261.30 - 261.90: Hematite, Pervasive, Strong**

**Structure:**

**261.30 - 261.90: Contact**

80 DTCA.

**Texture:**

**261.30 - 261.90: Coarse Grained**

**261.30 - 261.90: Fractured**

LATE BRITTLE FRACTURES FILLED WITH CHLORITE OR ALBITE.

261.90 266.60 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. WEAK PERVASSIVE HEMATITE ALTERATION GIVES CORE A MAROON COLOUR. ABUNDANT BROKEN CORE, AND DISCREET BRECCIATED ZONES. STRONG HEMATIZATION IN BRECCIATED ZONES AND ALONG FRACTURES.

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alteration:** | | | | | | | | | | | | | | |
| **261.90 - 266.60: Hematite, Pervasive, Weak** | | | | | | | | | | | | | | |
| **261.90 - 266.60: Epidote, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| HEMATITE AND EPIDOTE FOUND ALONG FRACTURE PLANES. | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **261.90 - 266.60: Foliation** | | | | | | | | | | | | | | |
| 35 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **261.90 - 266.60: Medium Grained** | | | | | | | | | | | | | | |
| **261.90 - 266.60: Foliated** | | | | | | | | | | | | | | |
| 266.60 | 269.40 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| CATACLASTITE. STRONGLY HEMATIZED BRECCIA. 70-80% SUBANGULAR CLASTS OF SEDIMENT ARE UP TO 5cm DIAMETER. CLASTS SHOW CORONA TEXTURES, ALTERING TO HEMATITE AND CHLORITE. CLASTS RANGE FROM PEBBLE SIZED TO UP TO 5cm LONG. MATRIX COMPRISED OF CHLORITE AND PYRITE. CARBONATE FOUND WITHIN MATRIX APPEARS TO BE LATE, OPEN SPACE FILLING. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **266.60 - 267.70: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| CLASTS PREFERENTIALY HEMATITE ALTERED. | | | | | | | | | | | | | | |
| **266.60 - 269.40: Carbonate, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| CARBONATE FOUND WITHIN MATRIX OF BRECCIA. | | | | | | | | | | | | | | |
| **267.70 - 269.40: Sericite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| ALTERATION OF CLASTS CHANGES FROM RED TO GREEN-GREY COLOUR. POSSIBLE SERICITE+EPIDOTE ALTERATION. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **266.60 - 269.40: Brecciated** | | | | | | | | | | | | | | |
| 269.40 | 274.10 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. PERVASSIVE HEMATITE STAINING GIVES CORE A MAROON COLOUR. MINOR INTERVALS OF BRECCIATION HAVE STRONGER HEMATITE ALTERATION AND EPIDOTE ALTERATION. | | | Q167113 | 273.10 | 274.10 | 1.00 | 73.000 | 27.000 | 21.000 | 0.003 | 0.002 | 0.002 | 0.250 | 0.920 |
| **Alteration:** | | | | | | | | | | | | | | |
| **269.40 - 274.10: Hematite, Fracture Filling, Weak** | | | | | | | | | | | | | | |
| WEAK HEMATITE STAINING ASSOCIATED WITH BLEACHED HALOS SURROUNDING FRACTURES. | | | | | | | | | | | | | | |
| **269.40 - 274.10: Sericite, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| DOMINANTLY SERICITE ALTERATION ON FRACTURES AND WITHIN BRECCIA CLASTS. | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **269.40 - 274.10: Foliation** | | | | | | | | | | | | | | |
| 10 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **269.40 - 274.10: Medium Grained** | | | | | | | | | | | | | | |
| **269.40 - 274.10: Foliated** | | | | | | | | | | | | | | |
| **271.30 - 271.50: Brecciated** | | | | | | | | | | | | | | |
| SERICITE AND HEMATITE ALTERED BRECCIA. | | | | | | | | | | | | | | |

| From | To | Lithology |
|---|---|---|
| 274.10 | 276.60 | **MQZT, Mafic metasediment** |

CATACLASTITE. STRONGLY HEMATIZED BRECCIATED ZONE. 70-80% SUBANGULAR SEDIMENT CLASTS ARE SUBANGULAR WITH TYPICAL CORONA TEXTURES. MATRIX COMPRISED OF CHLORITE AND PYRITE.

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Q167114 | 274.10 | 275.10 | 1.00 | 81.000 | 32.000 | 26.000 | 0.003 | 0.002 | 0.004 | 0.250 | 3.670 |
| Q167115 | 275.10 | 276.10 | 1.00 | 77.000 | 19.000 | 25.000 | 0.003 | 0.002 | 0.004 | 0.250 | 3.580 |
| Q167116 | 276.10 | 277.10 | 1.00 | 77.000 | 15.000 | 22.000 | 0.003 | 0.002 | 0.002 | 0.250 | 1.730 |

**Alteration:**

**274.10 - 276.60: Hematite, Pervasive, Strong**

DOMINANTLY HEMATITE ALTERATION. SOME SERICITE ALTERATION IN CENTRE OF CLASTS.

**274.10 - 276.60: Carbonate, Fracture Filling, Moderate**

OPEN SPACE FILLING CARBONATE WITHIN MATRIX OF BRECIA.

**Mineralization:**

**274.10 - 276.60: Pyrite, Disseminated, 5%%**

FINE GRAINED EUHEDRAL PYRITE FOUND WITHIN MATRIX OF BRECCIA.

**Texture:**

**274.10 - 276.60: Brecciated**

| From | To | Lithology |
|---|---|---|
| 276.60 | 320.30 | **MQZT, Mafic metasediment** |

QUETICO METASEDIMENTARY ROCKS. DEEP MAROON COLOUR DUE TO PERVASSIVE HEMATITE ALTERATION. MODERATELY FRACTURED WITH STRONG HEMATITE+CHLORITE FILLING FRACTURES. GENERALLY COMPETENT CORE. BEDDING PARALLEL QUARTZ VEINING CHARACTERIZED BY CHLORITIC HALOS AND DEEP RED STAINING IN ADJACENT SEDIMENT.

**Alteration:**

**276.60 - 320.30: Hematite, Pervasive, Strong**

**292.90 - 293.70: Quartz, Veins, Moderate**

**295.30 - 298.30: Quartz, Veins, Moderate**

**307.50 - 307.90: Quartz, Veins, Moderate**

**309.80 - 312.80: Quartz, Veins, Strong**

IRREGULAR QUARTZ VEINS. APPEAR BLOCKY, POSSIBLY PODS?

**317.90 - 318.50: Quartz, Veins, Moderate**

**Mineralization:**

**276.60 - 320.30: Pyrite, Fracture Filling, 1-3%%**

PYRITE ALONG NEARLY EVERY FRACTURE SURFACE.

**Structure:**

**276.60 - 279.10: Foliation**

5 DTCA.

**320.30 - 320.30: Contact**

10 DTCA

**Texture:**

**276.60 - 320.30: Medium Grained**

**276.60 - 320.30: Foliated**

**278.30 - 278.45: Brecciated**

**285.10 - 285.30: Brecciated**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

320.30 322.60 **IMD, Mafic dykes**

CHLORITE RICH INTERVAL. POSSIBLY AN ARCHEAN GABBRO DYKE. VERY SOFT CORE, WITH BRECCIATED ZONES.

**Alteration:**

**320.30 - 322.60: Chlorite, Pervasive, Strong**

**Mineralization:**

**320.30 - 322.60: Pyrite, Disseminated, 1%%**

FINE GRAINED PYRITE HAS A PATCHY DISTRIBUTION.

**Structure:**

**322.60 - 322.60: Contact**

30 DTCA

**Texture:**

**320.30 - 322.60: Fine Grained**

**320.30 - 322.60: Brecciated**

IN SITU BRECCIA OBSERVED AS WELL AS FRAGMENTS OF QUARTZ.

322.60 326.00 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. FAIRLY COMPETENT INTERVAL. NO HEMATITE ALTERATION. CORE HAS A BLEACHED APPEARANCE. POSSIBLE SERICITE ALTERATION?

**Alteration:**

**322.60 - 326.00: Sericite, Pervasive, Weak**

**Structure:**

**322.60 - 326.00: Foliation**

15 DTCA

**Texture:**

**322.60 - 326.00: Medium Grained**

**322.60 - 326.00: Foliated**

326.00 330.40 **MQZT, Mafic metasediment**

CATACLASTITE. STRONGLY ALTERED BRECCIATED UNIT. 90% CLASTS OF SEDIMENT WITH BLEACHED PINK HALOS. FRACTURED QUARTZ VEINS FROM 330m.

**Mineralization:**

**326.00 - 330.40: Pyrite, Disseminated, 1-2%%**

FINE GRAINED DISSEMINATED PYRITE WITHIN MATRIX OF BRECCIA.

**Structure:**

**326.00 - 330.40: Foliation**

20 DTCA

**Texture:**

**326.00 - 330.40: Medium Grained**

**326.00 - 330.40: Foliated**

**326.00 - 330.40: Fractured**

BLEACHED FRACTURES WITH CHLORITE

330.40 336.70 **MQZT, Mafic metasediment**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

QUETICO METASEDIMENTARY ROCKS. BLEACHED RED APPEARANCE. MODERATELY FRACTURED, WITH BLEACHED HALOS SURROUNDING FRACTURES (SERICITE?).

**Alteration:**

**330.40 - 336.70: Sericite, Pervasive, Moderate**

POSSIBLE CAUSE OF BLEACHED APPEARANCE OF CORE.

**330.40 - 336.70: Hematite, Pervasive, Weak**

**330.40 - 336.70: Sericite, Fracture Filling, Moderate**

**Mineralization:**

**330.40 - 336.70: Pyrite, Fracture Filling, 1%%**

**Structure:**

**330.40 - 336.70: Foliation**

20 DTCA

**Texture:**

**330.40 - 336.70: Medium Grained**

**330.40 - 336.70: Foliated**

**330.90 - 331.20: Brecciated**

336.70 342.70 **IGR, Granite**

STRONGLY FRACTURED GRANITIC DYKE. PEGMATITIC WITH FRACTURE CONTROLLED HEMATITE STAINING.

**Alteration:**

**336.70 - 342.70: Hematite, Pervasive, Weak**

**336.70 - 342.70: Chlorite, Fracture Filling, Moderate**

**336.70 - 342.70: Sericite, Fracture Filling, Moderate**

**Structure:**

**336.70 - 336.70: Contact**

20 DTCA

**342.70 - 342.70: Contact**

80 DTCA. BROKEN CORE AT CONTACT

**Texture:**

**336.70 - 342.70: Pegmatitic**

**336.70 - 342.70: Fractured**

CHLORITIC AND SERICITIC ALTERATION ASSOCIATED WITH FRACTURING.

**336.70 - 342.70: Coarse Grained**

342.70 346.40 **MQZT, Mafic metasediment**

QUETICO METASEDIMENTARY ROCKS. BLEACHED GREY COLOUR WITH WEAK HEMATITE VEINING.

**Alteration:**

**344.00 - 344.30: Sericite, Fracture Filling, Moderate**

**344.00 - 344.30: Chlorite, Fracture Filling, Moderate**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mineralization:** | | | | | | | | | | | | | | |
| **342.70 - 346.40: Pyrite, Fracture Filling, 1-2%%** | | | | | | | | | | | | | | |
| MEDIUM GRAINED EUHEDRAL PYRITE WITHIN FRACTURES | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **342.70 - 346.40: Foliation** | | | | | | | | | | | | | | |
| 20 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **342.70 - 346.40: Medium Grained** | | | | | | | | | | | | | | |
| **342.70 - 346.40: Foliated** | | | | | | | | | | | | | | |
| **344.00 - 344.30: Brecciated** | | | | | | | | | | | | | | |
| SERICITIC AND CHLORITIC BRECCIA ZONE. | | | | | | | | | | | | | | |
| 346.40 | 350.30 | **IGR, Granite** | | | | | | | | | | | | |
| BLEACHED RED-PINK GABBRO. COARSE GRAINED TO PEGMATITIC. STRONGLY FRACTURED. CHLORITE FILLS FRACTURES WITH SERICITIC HALOS EXTENDING APPROXIMATELY 2mm INTO WALL ROCK. | | | | | | | | | | | | | | |
| **Alteration:** | | | | | | | | | | | | | | |
| **346.40 - 350.30: Sericite, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| SERICITIC HALOS AROUND BRITTLE FRACTURES | | | | | | | | | | | | | | |
| **346.40 - 350.30: Chlorite, Fracture Filling, Moderate** | | | | | | | | | | | | | | |
| FRACTURES HAVE A CHLORITIC CORE. | | | | | | | | | | | | | | |
| **346.60 - 350.30: Hematite, Pervasive, Moderate** | | | | | | | | | | | | | | |
| **347.70 - 348.40: Sericite, Pervasive, Strong** | | | | | | | | | | | | | | |
| **Structure:** | | | | | | | | | | | | | | |
| **346.40 - 346.60: Contact** | | | | | | | | | | | | | | |
| 10 DTCA | | | | | | | | | | | | | | |
| **350.30 - 350.30: Contact** | | | | | | | | | | | | | | |
| 45 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **346.40 - 350.30: Coarse Grained** | | | | | | | | | | | | | | |
| **346.40 - 350.30: Pegmatitic** | | | | | | | | | | | | | | |
| **346.40 - 350.30: Fractured** | | | | | | | | | | | | | | |
| **347.70 - 348.40: Brecciated** | | | | | | | | | | | | | | |
| STRONGLY ALTERED AND FRACTURED INTERVAL | | | | | | | | | | | | | | |
| 350.30 | 407.80 | **MQZT, Mafic metasediment** | | | | | | | | | | | | |
| QUETICO METASEDIMENTARY ROCKS. BUFF GREY COLOUR WITH ABUNDANT FRACTURES. FRACTURES ARE FILLED BY CHLORITE, PYRITE WITH SERICITIC THEN HEMATITC HALOS. TRACE TO 5% PYRITE FOUND WITHIN MOST FRACTURES. NARROW INTERVALS OF BRECCIATION AS ABOVE. DISCREET ZONES OF BRECCIATION OBSERVED THROUGH INTERVAL. AS CONTACT WITH GABBRO IS APPROACHED PERVASSIVE HEMATITE ALTERATION STAINS CORE DARK RED STARTING AT 365.2m TO 399.8m. FROM 399.8 TO 407.8m COLOUR CHANGES TO GREY GREEN WITH VEINS OF HEMATITIC MATERIAL CROSSCUTTING. HORNFELSING FROM 399.8m RESULTS IN A COARSER SEDIMENTARY ROCK COMPRISED OF AMPHIBOLE, K-FELDSPAR AND CHLORITE. | | | | Q167117 | 406.30 | 407.80 | 1.50 | 71.000 | 5.000 | 19.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.340 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Alteration:**

**350.30 - 407.80: Quartz, Veins, Weak**

BEDDING PARALLEL QUARTZ VEINS FOUND SPORADICALLY THROUHGOUT INTERVAL.

**350.30 - 407.80: Hematite, Fracture Filling, Strong**

**365.20 - 399.80: Hematite, Pervasive, Moderate**

MODERATE TO LOCALLY STRONG HEMATIZATION.

**365.20 - 407.80: Chlorite, Fracture Filling, Moderate**

**365.20 - 407.80: Sericite, Fracture Filling, Moderate**

**Mineralization:**

**350.30 - 407.80: Pyrite, Fracture Filling, 1-5%%**

**Structure:**

**350.30 - 407.80: Foliation**

10-0 DTCA

**Texture:**

**350.30 - 407.80: Medium Grained**

**350.30 - 407.80: Foliated**

**350.30 - 407.80: Fractured**

**352.80 - 353.30: Brecciated**

**353.70 - 354.00: Brecciated**

**367.30 - 368.20: Brecciated**

GRANITIC BRECCIA. MIXTURE OF SEDIMENT CLASTS AND GRANITE.

**399.80 - 407.80: Hornfelsed**

GREEN-GREY COLOUR AS CONTACT IS APPROACHED. SLIGHTLY COARSER MINERAL ASSEMBLAGE OF K-FELDSPAR, AMPHIBOLE AND CHLORITE.

407.80 548.30 **IGB, Gabbro**

| From | To | Lithology |
|---|---|---|
| | | RED GREEN GABBRO ZONE. UPPER ZONE IS DARK RED AND BLACK IN COLOUR. MEDIUM TO COARSE GRAINED SUBOPHITIC TEXTURE. 70-80% K-FELDSPAR OR PLAGIOCLASE WHICH IS DARK RED IN COLOUR (HEMATIZED?), 20-30% ACTINOLITE/PYROXENE UNTIL 430.5m. FROM 430.5m ROCK BECOMES NOTICEABLY MORE MAFIC WITH UP TO 40% ACTINOLITE/PYROXENE, 60% HEMATIZED FELDSPAR. LATH TO PRISMATIC SHAPED ACTINOLITE UP TO 3m LONG PREVALENT UNTIL 477m. ALTERATION CHANGES FROM DOMINANTLY HEMTATITIC TO SAUSSERITIC THROUGH INTERVAL GIVING CORE EITHER A RED OR GREEN COLOUR RESPECTIVELY. ALTERATION APPEARS TO ATTACK FELSPAR PREFERRENTIALY. TEXTURE THROUGHOUT IS INTERGRANULAR AND GENERALLY MASSIVE. WEAK FOLIATION FROM 500-509m (IGNEOUS FOLIATION?). NARROW DYKES OF MONZONITE CROSS CUT UNIT. TRACE, FINE GRAINED DISSEMINATED PYRITE AND CHALCOPYRITE SCATTERED THROUGHOUT. |

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Q167118 | 407.80 | 409.30 | 1.50 | 7.000 | 1.000 | 12.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.530 |
| Q167119 | 409.30 | 410.80 | 1.50 | 1.000 | 6.000 | 11.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.060 |
| Q167120 | 410.80 | 412.30 | 1.50 | 1.000 | 33.000 | 11.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.070 |
| Q167121 | 412.30 | 413.80 | 1.50 | 1.000 | 4.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.100 |
| Q167122 | 413.80 | 415.30 | 1.50 | 0.500 | 1.000 | 13.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.060 |
| Q167123 | 415.30 | 416.80 | 1.50 | 0.500 | 19.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.050 |
| Q167124 | 416.80 | 419.30 | 2.50 | 1.000 | 0.500 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.130 |
| Q167125 | 419.30 | 420.80 | 1.50 | 0.500 | 0.500 | 13.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| Q167126 | 420.80 | 422.30 | 1.50 | 1.000 | 0.500 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| Q167128 | 422.30 | 423.80 | 1.50 | 3.000 | 3.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| Q167129 | 423.80 | 425.30 | 1.50 | 0.500 | 0.500 | 13.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| Q167130 | 425.30 | 426.80 | 1.50 | 1.000 | 3.000 | 14.000 | 0.003 | 0.001 | 0.005 | 0.250 | 0.060 |
| Q167131 | 426.80 | 428.30 | 1.50 | 0.500 | 23.000 | 17.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.060 |
| Q167132 | 428.30 | 429.80 | 1.50 | 0.500 | 34.000 | 18.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| Q167133 | 429.80 | 431.30 | 1.50 | 1.000 | 34.000 | 23.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| Q167134 | 431.30 | 432.80 | 1.50 | 0.500 | 19.000 | 26.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.120 |
| Q167135 | 432.80 | 434.30 | 1.50 | 0.500 | 17.000 | 26.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.110 |
| Q167136 | 434.30 | 435.80 | 1.50 | 1.000 | 39.000 | 27.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| Q167137 | 435.80 | 437.30 | 1.50 | 1.000 | 39.000 | 23.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.050 |
| Q167138 | 437.30 | 438.80 | 1.50 | 0.500 | 2.000 | 20.000 | 0.003 | 0.001 | 0.002 | 0.250 | 0.060 |
| Q167139 | 438.80 | 440.30 | 1.50 | 2.000 | 0.500 | 23.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.050 |
| Q167140 | 440.30 | 441.80 | 1.50 | 1.000 | 3.000 | 22.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.060 |
| Q167141 | 441.80 | 443.30 | 1.50 | 0.500 | 17.000 | 20.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| Q167142 | 443.30 | 444.80 | 1.50 | 1.000 | 86.000 | 18.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| Q167143 | 444.80 | 446.30 | 1.50 | 0.500 | 28.000 | 17.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.130 |
| Q167144 | 446.30 | 447.80 | 1.50 | 0.500 | 2.000 | 20.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.200 |
| Q167145 | 447.80 | 449.30 | 1.50 | 0.500 | 1.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.050 |
| Q167146 | 449.30 | 450.80 | 1.50 | 0.500 | 22.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.070 |
| Q167148 | 450.80 | 452.30 | 1.50 | 0.500 | 11.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.040 |
| Q167149 | 452.30 | 453.80 | 1.50 | 0.500 | 36.000 | 16.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.030 |
| Q167150 | 453.80 | 455.30 | 1.50 | 0.500 | 9.000 | 16.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.110 |
| Q167151 | 455.30 | 456.80 | 1.50 | 0.500 | 7.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| Q167152 | 456.80 | 458.30 | 1.50 | 0.500 | 34.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Q167153 | 458.30 | 459.80 | 1.50 | 0.500 | 56.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167154 | 459.80 | 461.30 | 1.50 | 0.500 | 18.000 | 14.000 | 0.003 | 0.001 | 0.002 | 0.250 | 0.080 |
| | | | Q167155 | 461.30 | 462.80 | 1.50 | 0.500 | 21.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.070 |
| | | | Q167156 | 462.80 | 464.30 | 1.50 | 0.500 | 11.000 | 13.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.100 |
| | | | Q167157 | 464.30 | 465.80 | 1.50 | 0.500 | 58.000 | 14.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167158 | 465.80 | 467.30 | 1.50 | 0.500 | 27.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167159 | 467.30 | 468.80 | 1.50 | 0.500 | 16.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167160 | 468.80 | 470.30 | 1.50 | 0.500 | 17.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.070 |
| | | | Q167161 | 470.30 | 471.80 | 1.50 | 1.000 | 5.000 | 15.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.050 |
| | | | Q167162 | 471.80 | 473.30 | 1.50 | 0.500 | 12.000 | 19.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| | | | Q167163 | 473.30 | 474.80 | 1.50 | 0.500 | 12.000 | 20.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| | | | Q167164 | 474.80 | 476.30 | 1.50 | 0.500 | 11.000 | 24.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.090 |
| | | | Q167165 | 476.30 | 477.80 | 1.50 | 0.500 | 75.000 | 27.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.070 |
| | | | Q167166 | 477.80 | 479.30 | 1.50 | 1.000 | 36.000 | 31.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167168 | 479.30 | 480.80 | 1.50 | 4.000 | 31.000 | 33.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.070 |
| | | | Q167169 | 480.80 | 482.30 | 1.50 | 1.000 | 38.000 | 35.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.170 |
| | | | Q167170 | 482.30 | 483.80 | 1.50 | 1.000 | 35.000 | 38.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.100 |
| | | | Q167171 | 483.80 | 485.30 | 1.50 | 1.000 | 33.000 | 40.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167172 | 485.30 | 486.80 | 1.50 | 2.000 | 40.000 | 40.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.130 |
| | | | Q167173 | 486.80 | 488.30 | 1.50 | 0.500 | 51.000 | 39.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.100 |
| | | | Q167174 | 488.30 | 489.80 | 1.50 | 2.000 | 49.000 | 41.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.110 |
| | | | Q167175 | 489.80 | 491.30 | 1.50 | 4.000 | 60.000 | 39.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.130 |
| | | | Q167176 | 491.30 | 492.80 | 1.50 | 6.000 | 107.000 | 40.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167177 | 492.80 | 494.30 | 1.50 | 12.000 | 158.000 | 42.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.060 |
| | | | Q167178 | 494.30 | 495.80 | 1.50 | 14.000 | 176.000 | 44.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167179 | 495.80 | 497.30 | 1.50 | 20.000 | 222.000 | 44.000 | 0.003 | 0.001 | 0.002 | 0.250 | 0.110 |
| | | | Q167180 | 497.30 | 498.80 | 1.50 | 24.000 | 255.000 | 51.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.160 |
| | | | Q167181 | 498.80 | 500.30 | 1.50 | 25.000 | 247.000 | 52.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.100 |
| | | | Q167182 | 500.30 | 501.80 | 1.50 | 27.000 | 273.000 | 54.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.130 |
| | | | Q167183 | 501.80 | 503.30 | 1.50 | 33.000 | 308.000 | 46.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167184 | 503.30 | 504.80 | 1.50 | 40.000 | 352.000 | 50.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.080 |
| | | | Q167185 | 504.80 | 506.30 | 1.50 | 46.000 | 357.000 | 51.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.110 |
| | | | Q167186 | 506.30 | 507.80 | 1.50 | 47.000 | 403.000 | 48.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.160 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Q167188 | 507.80 | 509.30 | 1.50 | 71.000 | 425.000 | 63.000 | 0.003 | 0.001 | 0.002 | 0.250 | 0.270 |
| | | | Q167189 | 509.30 | 510.80 | 1.50 | 69.000 | 423.000 | 56.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.140 |
| | | | Q167190 | 510.80 | 512.30 | 1.50 | 85.000 | 500.000 | 60.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.130 |
| | | | Q167191 | 512.30 | 513.80 | 1.50 | 90.000 | 493.000 | 56.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.120 |
| | | | Q167192 | 513.80 | 515.30 | 1.50 | 100.000 | 482.000 | 64.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.190 |
| | | | Q167193 | 515.30 | 516.80 | 1.50 | 99.000 | 408.000 | 60.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.130 |
| | | | Q167194 | 516.80 | 518.30 | 1.50 | 82.000 | 327.000 | 53.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.130 |
| | | | Q167195 | 518.30 | 519.80 | 1.50 | 60.000 | 266.000 | 46.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.160 |
| | | | Q167196 | 519.80 | 521.30 | 1.50 | 57.000 | 250.000 | 42.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.120 |
| | | | Q167197 | 521.30 | 522.80 | 1.50 | 58.000 | 228.000 | 44.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.090 |
| | | | Q167198 | 522.80 | 524.30 | 1.50 | 57.000 | 244.000 | 42.000 | 0.003 | 0.001 | 0.003 | 0.250 | 0.080 |
| | | | Q167199 | 524.30 | 525.80 | 1.50 | 54.000 | 214.000 | 42.000 | 0.003 | 0.001 | 0.005 | 0.250 | 0.080 |
| | | | Q167200 | 525.80 | 527.30 | 1.50 | 54.000 | 236.000 | 42.000 | 0.003 | 0.001 | 0.005 | 0.250 | 0.110 |
| | | | Q167201 | 527.30 | 528.80 | 1.50 | 48.000 | 236.000 | 43.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.100 |
| | | | Q167202 | 528.80 | 530.30 | 1.50 | 57.000 | 254.000 | 45.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.100 |
| | | | Q167203 | 530.30 | 531.80 | 1.50 | 49.000 | 211.000 | 40.000 | 0.003 | 0.001 | 0.005 | 0.250 | 0.100 |
| | | | Q167204 | 531.80 | 533.30 | 1.50 | 55.000 | 210.000 | 40.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.110 |
| | | | Q167205 | 533.30 | 534.80 | 1.50 | 54.000 | 240.000 | 43.000 | 0.003 | 0.001 | 0.005 | 0.250 | 0.060 |
| | | | Q167206 | 534.80 | 536.30 | 1.50 | 55.000 | 250.000 | 44.000 | 0.003 | 0.001 | 0.005 | 0.250 | 0.050 |
| | | | Q167208 | 536.30 | 537.80 | 1.50 | 66.000 | 277.000 | 48.000 | 0.003 | 0.001 | 0.004 | 0.250 | 0.050 |
| | | | Q167209 | 537.80 | 539.30 | 1.50 | 84.000 | 297.000 | 54.000 | 0.005 | 0.001 | 0.014 | 0.250 | 0.090 |
| | | | Q167210 | 539.30 | 540.80 | 1.50 | 69.000 | 262.000 | 46.000 | 0.006 | 0.001 | 0.008 | 0.250 | 0.090 |
| | | | Q167211 | 540.80 | 542.30 | 1.50 | 63.000 | 285.000 | 48.000 | 0.008 | 0.001 | 0.007 | 0.250 | 0.130 |
| | | | Q167212 | 542.30 | 543.80 | 1.50 | 54.000 | 220.000 | 46.000 | 0.012 | 0.001 | 0.007 | 0.250 | 0.200 |
| | | | Q167213 | 543.80 | 545.30 | 1.50 | 76.000 | 301.000 | 54.000 | 0.022 | 0.001 | 0.010 | 0.250 | 0.200 |
| | | | Q167214 | 545.30 | 546.80 | 1.50 | 74.000 | 312.000 | 58.000 | 0.032 | 0.003 | 0.010 | 0.250 | 0.280 |
| | | | Q167215 | 546.80 | 548.30 | 1.50 | 87.000 | 370.000 | 55.000 | 0.074 | 0.031 | 0.011 | 0.250 | 0.310 |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Alteration:**

**407.80 - 483.30: Hematite, Pervasive, Strong**

GIVES GABBRO A DEEP RED COLOUR. DEFINED AS COMPLETE RED STAINING OF FELDSPAR

**483.30 - 486.00: Hematite, Pervasive, Moderate**

DEFINED AS COMPLETE RIMMING OF FELDSPAR WITH RED HEMATITE CORONA

**486.00 - 495.80: Hematite, Pervasive, Weak**

DEFINED AS SPOTTY INTERSTITIAL ALTERATION AND PARTIAL CORONA TEXTURES AROUND FELDSPAR.

**486.00 - 501.60: Sericite, Pervasive, Moderate**

SERICITE OR SAUSSERITE ALTERATION ON FELDSPAR GIVING THEM A GREEN-BLUE COLOUR.

**495.80 - 501.60: Hematite, Pervasive, Moderate**

DEFINED AS COMPLETE RIMMING OF FELDSPAR WITH RED HEMATITE CORONA

**501.60 - 507.90: Hematite, Pervasive, Weak**

DEFINED AS SPOTTY INTERSTITIAL ALTERATION AND PARTIAL CORONA TEXTURES AROUND FELDSPAR.

**501.60 - 515.20: Sericite, Pervasive, Strong**

SERICITE OR SAUSSERITE ALTERATION ON FELDSPAR GIVING THEM A GREEN-BLUE COLOUR.

**507.90 - 508.20: Hematite, Pervasive, Moderate**

DEFINED AS COMPLETE RIMMING OF FELDSPAR WITH RED HEMATITE CORONA

**508.20 - 515.20: Hematite, Pervasive, Weak**

DOMINANTLY SAUSSERITE ALTERATION WITH PATCHY INTERSTITIAL HEMATITE STAINING.

**515.20 - 532.50: Hematite, Pervasive, Moderate**

DEFINED AS COMPLETE RIMMING OF FELDSPAR WITH RED HEMATITE CORONA

**515.20 - 532.50: Sericite, Pervasive, Moderate**

SERICITE OR SAUSSERITE ALTERATION ON FELDSPAR GIVING THEM A GREEN-BLUE COLOUR.

**532.50 - 537.80: Hematite, Pervasive, Weak**

**532.50 - 537.80: Sericite, Pervasive, Strong**

SERICITE OR SAUSSERITE ALTERATION ON FELDSPAR GIVING THEM A GREEN-BLUE COLOUR

**537.80 - 548.30: Hematite, Pervasive, Moderate**

PATCHY HEMATIZATION OF FELDSPAR.  NARROW HEMATITE RICH MONZONITE VEINS CROSSCUT.

**Mineralization:**

**407.80 - 475.00: Pyrite/Chalcopyrite, Disseminated, TRACE%**

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Structure:** | | | | | | | | | | | | | | |
| **488.90 - 488.90: Contact** | | | | | | | | | | | | | | |
| MONZONITE DYKE. 75 DTCA | | | | | | | | | | | | | | |
| **489.10 - 489.10: Contact** | | | | | | | | | | | | | | |
| MONZONITE DYKE. 75 DTCA | | | | | | | | | | | | | | |
| **490.60 - 490.60: Contact** | | | | | | | | | | | | | | |
| MONZONITE DYKE. 40 DTCA | | | | | | | | | | | | | | |
| **490.80 - 490.80: Contact** | | | | | | | | | | | | | | |
| MONZONITE DYKE. 40 DTCA | | | | | | | | | | | | | | |
| **500.00 - 509.00: Foliation** | | | | | | | | | | | | | | |
| IGNEOUS FOLIATION. WEAK. 80 DTCA | | | | | | | | | | | | | | |
| **548.30 - 548.30: Contact** | | | | | | | | | | | | | | |
| SHARP CONTACT WITH UNDERLYING GABBRO. 65 DTCA | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **407.80 - 475.00: Subophitic** | | | | | | | | | | | | | | |
| ACICULAR PLAGIOCLASE ENCLOSED BY ACTINOLITE. LATHS OF PLAGIOCLASE SHOW INTERGRANULAR RELATIONSHIP WITH ACTINOLITE/PYROXENE. | | | | | | | | | | | | | | |
| **407.80 - 527.00: Medium Grained - Coarse Grained** | | | | | | | | | | | | | | |
| **474.10 - 478.20: Broken Core** | | | | | | | | | | | | | | |
| **488.90 - 489.10: Fine Grained** | | | | | | | | | | | | | | |
| FINE GRAINED, RED MONZONITE DYKE | | | | | | | | | | | | | | |
| 548.30 | 555.90 | **IGBO, Olivine Gabbro** | | | | | | | | | | | | |
| OLIVINE GABBRO. 40-50% CLINOPYROXENE, 30-40% MILKY INTERSTITAL AND OIKOCRYSTIC PLAGIOCLASE, 10-20% VERY FINE GRAINED OLIVINE, AND 2-5% BIOTITE. FINE TO MEDIUM GRAINED ORTHOCUMULATE MAFIC MINERALS ENCLOSED IN PLAGIOCLASE OIKOCRYSTS UP TO 5mm LONG. SHARP LOWER CONTACT WITH RAFT OF GRANODIORITE. TRACE FINE GRAINED PYRRHOTITE IN DISCREET INTERVALS. | | | Q167216 | 548.30 | 549.80 | 1.50 | 176.000 | 144.000 | 64.000 | 0.026 | 0.041 | 0.004 | 0.250 | 0.120 |
| | | | Q167217 | 549.80 | 551.30 | 1.50 | 176.000 | 102.000 | 60.000 | 0.013 | 0.007 | 0.002 | 0.250 | 0.050 |
| | | | Q167218 | 551.30 | 552.80 | 1.50 | 228.000 | 108.000 | 70.000 | 0.017 | 0.011 | 0.003 | 0.250 | 0.160 |
| | | | Q167219 | 552.80 | 554.30 | 1.50 | 253.000 | 117.000 | 77.000 | 0.015 | 0.008 | 0.003 | 0.250 | 0.100 |
| | | | Q167220 | 554.30 | 555.80 | 1.50 | 280.000 | 112.000 | 82.000 | 0.020 | 0.006 | 0.003 | 0.250 | 0.400 |
| | | | Q167221 | 555.80 | 557.30 | 1.50 | 175.000 | 78.000 | 52.000 | 0.012 | 0.003 | 0.002 | 0.250 | 0.180 |
| **Alteration:** | | | | | | | | | | | | | | |
| **548.70 - 549.10: Hematite, Pervasive, Weak** | | | | | | | | | | | | | | |
| **550.00 - 550.10: Hematite, Pervasive, Strong** | | | | | | | | | | | | | | |
| MONZONITE VEIN, STRONGLY HEMATIZED. | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **552.30 - 552.60: Pyrrhotite, Disseminated, 1%%** | | | | | | | | | | | | | | |
| VERY FINE GRAINED | | | | | | | | | | | | | | |
| **554.40 - 554.80: Pyrrhotite, Disseminated, 1%%** | | | | | | | | | | | | | | |
| VERY FINE GRAINED | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Structure:** | | | | | | | | | | | | |
| | | **555.90 - 555.90: Contact** | | | | | | | | | | | | |
| | | 25 DTCA | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **548.30 - 552.90: Oikocrysts** | | | | | | | | | | | | |
| | | PLAGIOCLASE OIKOCRYSTS | | | | | | | | | | | | |
| | | **548.30 - 552.90: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| | | **548.30 - 552.90: Orthocumulates** | | | | | | | | | | | | |
| | | PYROXENE AND OLIVINE FORM CUMMULATE TEXTURE WITH INTERSTITAL, AND OIKOCRYSTIC PLAGIOCLASE. | | | | | | | | | | | | |
| 555.90 | 556.40 | **IGRD, Granodiorite** | | | | | | | | | | | | |
| | | RAFT OF STRONGLY ALTERED GRANODIORITE. GREEN-WHITE COLOUR. COMPRISED OF FINE TO MEDIUM GRAINED SERICITIZED PLAGIOCLASE AND QUARTZ. | Q167221 | 555.80 | 557.30 | 1.50 | 175.000 | 78.000 | 52.000 | 0.012 | 0.003 | 0.002 | 0.250 | 0.180 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **555.90 - 556.40: Sericite, Pervasive, Strong** | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **555.90 - 556.40: Pyrite, Trace, TRACE%** | | | | | | | | | | | | |
| | | **Structure:** | | | | | | | | | | | | |
| | | **556.40 - 556.40: Contact** | | | | | | | | | | | | |
| | | 45 DTCA | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **555.90 - 556.40: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| | | **555.90 - 556.40: Massive** | | | | | | | | | | | | |
| 556.40 | 566.90 | **IGBO, Olivine Gabbro** | | | | | | | | | | | | |
| | | OLIVINE GABBRO TO OLIVINE MELAGABBRO. CONTINUATION OF PREVIOUS INTERVAL. 40-50% CLINOPYROXENE, 20-40% PLAGIOCLASE, 5-20% OLIVINE, 1-5% BIOTITE. ORTHOCUMMULATE TEXTURE NOT AS APPARENT, BUT PLAGIOCLASE OIKOCRYSTS PERSIST THROUGH INTERVAL. FRACTURED ZONE THROUGH 558.4-562.6 IS MODERATELY CHLORITE ALTERED. NO SULFIDES OBSERVED. DIFFUSE LOWER CONTACT WITH HORNBLENDE GABBRO. | Q167222 | 557.30 | 558.80 | 1.50 | 242.000 | 95.000 | 74.000 | 0.018 | 0.009 | 0.002 | 0.250 | 0.160 |
| | | | Q167223 | 558.80 | 560.30 | 1.50 | 244.000 | 95.000 | 71.000 | 0.018 | 0.006 | 0.002 | 0.250 | 0.060 |
| | | | Q167224 | 560.30 | 561.80 | 1.50 | 305.000 | 101.000 | 83.000 | 0.023 | 0.007 | 0.003 | 0.250 | 0.050 |
| | | | Q167225 | 561.80 | 563.30 | 1.50 | 329.000 | 113.000 | 85.000 | 0.019 | 0.007 | 0.003 | 0.250 | 0.120 |
| | | | Q167226 | 563.30 | 564.80 | 1.50 | 376.000 | 160.000 | 90.000 | 0.068 | 0.060 | 0.005 | 0.250 | 0.200 |
| | | | Q167228 | 564.80 | 566.30 | 1.50 | 476.000 | 137.000 | 98.000 | 0.051 | 0.028 | 0.005 | 0.250 | 0.250 |
| | | | Q167229 | 566.30 | 567.00 | 0.70 | 546.000 | 295.000 | 97.000 | 0.092 | 0.080 | 0.011 | 0.250 | 0.220 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **558.40 - 562.60: Chlorite, Fracture Filling, Moderate** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Texture:** | | | | | | | | | | | | | | |
| **556.40 - 566.90: Oikocrysts** | | | | | | | | | | | | | | |
| PLAGIOCLASE OIKOCRYSTS | | | | | | | | | | | | | | |
| **556.40 - 566.90: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| **556.40 - 566.90: Orthocumulates** | | | | | | | | | | | | | | |
| PYROXENE AND OLIVINE CONSTITUTE CUMMULATE PHASES. | | | | | | | | | | | | | | |
| **558.40 - 562.60: Fractured** | | | | | | | | | | | | | | |
| CHLORITIC FRACTURE ZONE | | | | | | | | | | | | | | |
| 566.90 | 571.20 | **IHGB, Hornblende Gabbro** | | | | | | | | | | | | |
| VARITEXTURED HORNBLENDE GABBRO. CHARACTERIZED BY THE PRESENCE OF ANGULAR IRREGULAR CARBONATE AND CHLORITIC XENOLITHS. XENOLITHS ARE UP TO 8mm LONG AND EITHER WHITE CARBONATE OR BLUE, SEMI TRANSLUCENT, SOFT MINERAL (CLAY ALTERATION?). CHLORITIC HALOS FOUND AROUND XENOLITHS AND AROUND SOME SULFIDE BLEBS. FRACTIONATED BLEBS OF CHALCOPYRITE/PYRRHOTITE ARE UP TO 15mm WIDE AND HAVE SCATTERED DISTRIBUTION, UP TO 3% IN PLACES. COMPOSITION IS VARIABLE BUT CONTAINS COARSE GRAINED AMPHIBOLE, MEDIUM GRAINED GRANULAR PYROXENE, FINE GRAINED OLIVINE AND INTERGRANULAR PLAGIOCLASE. DIFFUSE LOWER CONTACT MARKED BY THE ABSENCE OF XENOLITHS. | | Q167230 | 567.00 | 568.00 | 1.00 | 445.000 | 1,450.000 | 64.000 | 0.786 | 0.639 | 0.074 | 0.500 | 0.260 |
| | | | Q167231 | 568.00 | 569.00 | 1.00 | 624.000 | 1,770.000 | 73.000 | 0.836 | 0.660 | 0.069 | 0.250 | 0.220 |
| | | | Q167232 | 569.00 | 570.00 | 1.00 | 1,090.000 | 2,220.000 | 126.000 | 2.470 | 1.155 | 0.166 | 1.000 | 0.530 |
| | | | Q167233 | 570.00 | 571.20 | 1.20 | 935.000 | 2,700.000 | 96.000 | 2.540 | 1.345 | 0.163 | 0.900 | 0.300 |
| **Alteration:** | | | | | | | | | | | | | | |
| **567.60 - 567.60: Carbonate, Veins, Moderate** | | | | | | | | | | | | | | |
| QUARTZ CARBONATE VEIN AT 35 DTCA. | | | | | | | | | | | | | | |
| **Mineralization:** | | | | | | | | | | | | | | |
| **566.90 - 568.70: Pyrrhotite/Chalcopyrite, Blebby, 1%%** | | | | | | | | | | | | | | |
| TRACE TO 1% DISSEMINATED TO BLEBBY SULFIDE. | | | | | | | | | | | | | | |
| **568.70 - 570.50: Pyrrhotite/Chalcopyrite, Blebby, 2-3%%** | | | | | | | | | | | | | | |
| COARSE GRAINED BLEBS OF FRACTIONATED SULFIDE FOUND THROUGHOUT INTERVAL. PATCHY MINERALIZATION. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **566.90 - 571.20: Varitextured** | | | | | | | | | | | | | | |
| **566.90 - 571.20: Xenolithic** | | | | | | | | | | | | | | |
| CARBONATE XENOLITHS | | | | | | | | | | | | | | |
| **566.90 - 571.20: Coarse Grained** | | | | | | | | | | | | | | |
| 571.20 | 574.40 | **IPDT, Peridotite** | | | | | | | | | | | | |
| PERIDOTITE TO OLIVINE MELAGABBRO. 50-60% PYROXENE, 10-30% OLIVINE, 5-20% PLAGIOCLASE. TEXTURALLY VARIABLE BUT DOMINANTLY INTERGRANULAR TO CUMMULATE TEXTURED. SULFIDES SCATTERED THROUGHOUT INTERVAL. RANGE FROM 1% DISSEMINATED TO 3% BLEBBY CHALCOPYRITE-PYRRHOTITE. | | Q167234 | 571.20 | 572.00 | 0.80 | 613.000 | 1,195.000 | 84.000 | 0.534 | 0.322 | 0.048 | 0.700 | 0.290 |
| | | | Q167235 | 572.00 | 573.00 | 1.00 | 1,115.000 | 2,660.000 | 127.000 | 1.110 | 0.811 | 0.087 | 1.400 | 0.970 |
| | | | Q167236 | 573.00 | 574.00 | 1.00 | 1,040.000 | 2,360.000 | 119.000 | 0.768 | 0.389 | 0.071 | 1.600 | 0.820 |
| | | | Q167237 | 574.00 | 575.00 | 1.00 | 598.000 | 1,245.000 | 89.000 | 0.386 | 0.260 | 0.032 | 1.000 | 0.460 |
| **Alteration:** | | | | | | | | | | | | | | |
| **572.00 - 573.50: Serpentinization, Pervasive, Moderate** | | | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mineralization:** | | | | | | | | | | | | | | |
| **571.20 - 571.60: Pyrrhotite/Chalcopyrite, Disseminated, 2%%** | | | | | | | | | | | | | | |
| DISSEMINATED, INTERSTITIAL TO BLEBBY SULFIDE. | | | | | | | | | | | | | | |
| **572.00 - 574.40: Pyrrhotite/Chalcopyrite, Blebby, 1-3%%** | | | | | | | | | | | | | | |
| BLEBS RANGE FROM 1mm TO 5mm IN SIZE. | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **571.20 - 571.60: Medium Grained** | | | | | | | | | | | | | | |
| **571.60 - 572.00: Fine Grained** | | | | | | | | | | | | | | |
| INTERVAL OF FINE GRAINED, BARREN GABBRO. | | | | | | | | | | | | | | |
| **571.80 - 572.00: Broken Core** | | | | | | | | | | | | | | |
| **572.00 - 574.40: Orthocumulates** | | | | | | | | | | | | | | |
| CUMMULATE PYROXENE AND OLIVINE WITH INTERSTITIAL, MILKY WHITE PLAGIOCLASE. | | | | | | | | | | | | | | |
| **572.00 - 574.40: Medium Grained** | | | | | | | | | | | | | | |
| 574.40 | 578.50 | **IGB, Gabbro** | | | | | | | | | | | | |
| DIFFUSE, TRANSITIONAL CONTACT FROM OVERLYING UNIT. WHITE-GREY COLOUR. INTERGRANULAR FINE TO MEDIUM GRAINED TEXTURE. 50-60% PLAGIOCLASE, 40-50% PYROXENE, 1-5% BIOTITE. TRACE FINE GRAINED DISSEMINATED PYRITE. | | | Q167238 | 575.00 | 576.00 | 1.00 | 340.000 | 397.000 | 89.000 | 0.076 | 0.061 | 0.009 | 0.250 | 0.340 |
| | | | Q167239 | 576.00 | 577.00 | 1.00 | 487.000 | 1,080.000 | 103.000 | 0.281 | 0.211 | 0.026 | 0.250 | 0.780 |
| | | | Q167240 | 577.00 | 578.00 | 1.00 | 344.000 | 292.000 | 95.000 | 0.061 | 0.041 | 0.005 | 0.250 | 0.470 |
| | | | Q167241 | 578.00 | 579.00 | 1.00 | 359.000 | 528.000 | 91.000 | 0.101 | 0.072 | 0.007 | 0.250 | 0.410 |
| **Mineralization:** | | | | | | | | | | | | | | |
| **574.40 - 578.50: Pyrite, Trace, TRACE%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **574.40 - 578.50: Equigranular** | | | | | | | | | | | | | | |
| **574.40 - 578.50: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| INTERGRANULAR TEXTURE | | | | | | | | | | | | | | |
| 578.50 | 580.80 | **IGBO, Olivine Gabbro** | | | | | | | | | | | | |
| TRANSITIONAL CONTACT. CHARACTERIZED BY ORTHOCUMMULATE TEXTURE WITH 40-50% CLINOPYROXENE, 30-40% PLAGIOCLASE, 10-20% OLIVINE. FINE GRAINED WITH MEDIUM GRAINED OIKOCRYSTS OF PLAGIOCLASE DEVELOPING. 1-2% FINELY DISSEMINATED PYRITE THROUGHOUT. | | | Q167242 | 579.00 | 580.00 | 1.00 | 248.000 | 99.000 | 84.000 | 0.029 | 0.019 | 0.003 | 0.250 | 1.200 |
| | | | Q167243 | 580.00 | 581.00 | 1.00 | 255.000 | 111.000 | 84.000 | 0.025 | 0.017 | 0.002 | 0.250 | 1.030 |
| **Mineralization:** | | | | | | | | | | | | | | |
| **578.50 - 580.80: Pyrite, Disseminated, 1-2%%** | | | | | | | | | | | | | | |
| **Texture:** | | | | | | | | | | | | | | |
| **578.50 - 580.80: Fine Grained - Medium Grained** | | | | | | | | | | | | | | |
| **578.50 - 580.80: Orthocumulates** | | | | | | | | | | | | | | |
| PYROXENE AND OLIVINE CUMMULATE | | | | | | | | | | | | | | |
| **578.50 - 580.80: Oikocrysts** | | | | | | | | | | | | | | |
| PLAGIOCLASE OIKOCRYSTS | | | | | | | | | | | | | | |
| 580.80 | 587.30 | **IGB, Gabbro** | | | | | | | | | | | | |

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TRANSITIONAL CONTACT FROM OVERLYING UNIT. ROCK IS FINE-MEDIUM GRAINED, WITH AN INTERGRANULAR, OIKOCRYSTIC TEXTURE. SLIGHT PINK STAINING ON FELDSPAR DUE TO POTTASIC ALTERATION? TRACE PYRITE THROUGHOUT. TRANSITIONAL CONTACT WITH UNDERLYING GABBRONORITE CHARACTERIZED BY THE APPEARANCE OF EUHEDRAL, BROWN ORTHOPYROXENE. | Q167244 | 581.00 | 582.50 | 1.50 | 222.000 | 251.000 | 64.000 | 0.015 | 0.009 | 0.006 | 0.250 | 0.150 |
| | | | Q167245 | 582.50 | 584.00 | 1.50 | 196.000 | 134.000 | 62.000 | 0.020 | 0.012 | 0.004 | 0.250 | 0.110 |
| | | | Q167246 | 584.00 | 585.50 | 1.50 | 207.000 | 148.000 | 67.000 | 0.018 | 0.009 | 0.003 | 0.250 | 0.120 |
| | | | Q167248 | 585.50 | 587.00 | 1.50 | 240.000 | 337.000 | 70.000 | 0.039 | 0.028 | 0.005 | 0.250 | 0.350 |
| | | | Q167249 | 587.00 | 588.50 | 1.50 | 256.000 | 510.000 | 70.000 | 0.039 | 0.032 | 0.007 | 0.250 | 0.300 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **580.80 - 587.30: K-Feldspar, Pervasive, Weak** | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **580.80 - 587.30: Pyrite, Disseminated, TRACE%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **580.80 - 587.30: Fine Grained - Medium Grained** | | | | | | | | | | | | |
| | | **580.80 - 587.30: Oikocrysts** | | | | | | | | | | | | |
| | | **580.80 - 587.30: Equigranular** | | | | | | | | | | | | |
| 587.30 | 595.90 | **IGNO, Gabbronorite** | | | | | | | | | | | | |
| | | 50-60% PLAGIOCLASE, 30-40% CLINOPYROXENE, 10-20% ORTHOPYROXENE. COARSE GRAINED OIKOCRYSTS OF PLAGIOCLASE ENCLOSE PYROXENE AND TABULAR PLAGIOCLASE. TRACE PYRITE THROUGHOUT. 2% FINE GRAINED BLEBBY PYRRHOTITE/CHALCOPYRITE FROM 595.7m. UNIT BECOMES SLIGHTLY MORE MAFIC AT BOTTOM, BUT ABRUPT TRANSITION WITH BROKEN CORE TO CONTACT WITH UNDERLYING UNIT. POSSIBLY FAULTED CONTACT? | Q167250 | 588.50 | 590.00 | 1.50 | 215.000 | 175.000 | 69.000 | 0.021 | 0.015 | 0.004 | 0.250 | 0.120 |
| | | | Q167251 | 590.00 | 591.50 | 1.50 | 199.000 | 144.000 | 60.000 | 0.020 | 0.011 | 0.003 | 0.250 | 0.150 |
| | | | Q167252 | 591.50 | 593.00 | 1.50 | 200.000 | 131.000 | 60.000 | 0.019 | 0.012 | 0.002 | 0.250 | 0.150 |
| | | | Q167253 | 593.00 | 594.50 | 1.50 | 260.000 | 371.000 | 66.000 | 0.077 | 0.078 | 0.008 | 0.250 | 0.200 |
| | | | Q167254 | 594.50 | 595.70 | 1.20 | 354.000 | 711.000 | 72.000 | 0.150 | 0.139 | 0.015 | 0.250 | 0.250 |
| | | | Q167255 | 595.70 | 596.70 | 1.00 | 738.000 | 1,320.000 | 121.000 | 0.650 | 0.475 | 0.062 | 0.900 | 0.360 |
| | | **Alteration:** | | | | | | | | | | | | |
| | | **587.30 - 595.90: K-Feldspar, Pervasive, Weak** | | | | | | | | | | | | |
| | | **Mineralization:** | | | | | | | | | | | | |
| | | **587.30 - 595.90: Pyrite, Disseminated, TRACE%** | | | | | | | | | | | | |
| | | **595.70 - 595.90: Pyrrhotite/Chalcopyrite, Blebby, 2%%** | | | | | | | | | | | | |
| | | **Texture:** | | | | | | | | | | | | |
| | | **587.30 - 595.90: Oikocrysts** | | | | | | | | | | | | |
| | | **587.30 - 595.90: Medium Grained** | | | | | | | | | | | | |
| | | **587.30 - 595.90: Equigranular** | | | | | | | | | | | | |
| 595.90 | 602.40 | **IOMGB, Olivine Melagabbro** | | | | | | | | | | | | |

| From | To | Lithology |
|---|---|---|
| | | OLIVINE MELAGABBRO TO PERIDOTITE. VARITEXTURED UNIT WITH TWO SEQUENCES OF MINERALIZED BRECCIAS. MEDIUM TO COARSE GRAINED TO 597.5m WITH 2-3% BLEBBY PO/CPY. FINE GRAINED MELAGABBRO FROM 597.5 GRADING TO MEDIUM GRAINED CUMMUALTE PERIDOTITE UNTIL 599.4m. 1-2% DISSEMINATED AND BLEBBY PO/CPY WITHIN THIS INTERVAL. BRECCIA ZONE FROM 599.4-600.7. COUNTRY ROCK XENOLITHS APPEAR TO BE QUETICO SEDIMENTS, PLUS QUARTZ CLASTS, RANGING FROM 1-10cm. MATRIX IS ANORTHOSITIC TO GABBROIC. 5-20% BLEBBY-BLOCKY PO-CPY AND POSSIBLY PN THROUGHOUT. 5cm OF SEMI MASSIVE PO-CPY-PN AT BASE OF BRECCIA ZONE. FROM 600.7-602m VARITEXTURED MELAGABBRO-PERIDOTITE WITH PYROXENE PHYRIC ZONES. CONTAINS 2-3% BLEBBY PO-CPY, RANGING FROM FINE TO MEDIUM GRAINED. BASAL BRECCIA FROM 602-602.4m AVERAGING 60% SEMI-MASSIVE PO-CPY-PN (80% 602.2-602.4m). SULFIDE PROPORTIONS ARE 70:30 PO/PN:CPY. BRECCIA FRAGMENTS COMPRISED OF ANGULAR CLASTS OF QUETICO METASEDIMENTS UP TO 10cm LONG. SULFIDE HORIZON MARKS BASE OF UNIT. |

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Q167256 | 596.70 | 597.70 | 1.00 | 549.000 | 1,415.000 | 84.000 | 0.609 | 0.392 | 0.055 | 1.100 | 0.330 |
| Q167257 | 597.70 | 598.70 | 1.00 | 546.000 | 1,100.000 | 85.000 | 0.280 | 0.228 | 0.029 | 0.250 | 0.410 |
| Q167258 | 598.70 | 599.40 | 0.70 | 719.000 | 1,160.000 | 112.000 | 0.357 | 0.225 | 0.025 | 0.500 | 0.580 |
| Q167259 | 599.40 | 599.70 | 0.30 | 1,255.000 | 1,010.000 | 170.000 | 0.371 | 0.258 | 0.011 | 0.250 | 1.830 |
| Q167260 | 599.70 | 600.00 | 0.30 | 4,840.000 | 5,480.000 | 466.000 | 0.716 | 0.786 | 0.020 | 1.800 | 7.910 |
| Q167261 | 600.00 | 600.40 | 0.40 | 703.000 | 1,385.000 | 64.000 | 0.275 | 0.288 | 0.011 | 0.250 | 1.180 |
| Q167262 | 600.40 | 600.70 | 0.30 | 3,450.000 | 6,250.000 | 295.000 | 1.360 | 1.075 | 0.058 | 1.700 | 5.900 |
| Q167263 | 600.70 | 601.30 | 0.60 | 886.000 | 2,700.000 | 107.000 | 1.120 | 0.738 | 0.081 | 1.500 | 1.130 |
| Q167264 | 601.30 | 602.00 | 0.70 | 1,085.000 | 3,910.000 | 118.000 | 1.360 | 0.854 | 0.099 | 1.800 | 1.610 |
| Q167265 | 602.00 | 602.40 | 0.40 | 10,000.000 | 10,000.000 | 806.000 | 3.940 | 3.820 | 0.063 | 5.000 | 18.300 |

**Mineralization:**

**595.90 - 597.50: Pyrrhotite/Chalcopyrite, Blebby, 2-3%%**

**597.50 - 599.40: Pyrrhotite/Chalcopyrite, Blebby, 1-2%%**

DISSEMINATED TO FINE GRAINED BLEBS

**599.40 - 600.65: Pyrrhotite/Pentlandite/Chalcopyrite, Blebby, 10-20%%**

BLEBBY, NEARLY NET TEXTURED SULFIDES

**600.65 - 600.70: Pyrrhotite/Pentlandite/Chalcopyrite, Semi-massive, 60%%**

**600.70 - 602.00: Pyrrhotite/Chalcopyrite, Blebby, 2-3%%**

FINE TO MEDIUM GRAINED BLEBS OF SULFIDE SCATTERED THROUGHOUT.

**602.00 - 602.40: Pyrrhotite/Pentlandite/Chalcopyrite, Semi-massive, 60%%**

INCLUDES 20cm OF 80% SULFIDE AT BASE.

**Structure:**

**602.40 - 602.40: Contact**

IRREGULAR, DIFFUSE LOWER CONTACT.

**Texture:**

**595.90 - 597.50: Varitextured**

MEDIUM AND COARSE GRAINED PYROXENE, PLAGIOCLASE WITH FINER GRAINED OLIVINE

**597.50 - 599.40: Mesocumulate**

**597.50 - 599.40: Medium Grained - Coarse Grained**

**599.40 - 600.70: Brecciated**

**599.40 - 600.70: Xenolithic**

**599.40 - 600.70: Medium Grained Matrix**

ANORTHOSITIC IN COMPOSITION

**600.70 - 601.00: Pyroxene Phyric**

NARROW INTERVAL OF PYROXENE PHYRIC GABBRO

**600.70 - 602.00: Varitextured**

RANGES FROM FINE TO MEDIUM GRAINED

**602.00 - 602.40: Brecciated**

| From | To | Lithology |
|---|---|---|
| 602.40 | 662.30 | **MQZT, Mafic metasediment**<br>GNEISSIC QUETICO SEDIMENTARY ROCKS. VERY HARD AND DENSE THROUGHOUT ENTIRE INTERVAL RELATIVE TO OVERLYING QUETICO. APPEAR TO BE SILICIFIED. VEINS AND SPORADIC WHISPS OF MAGMATIC PO-CPY PERSIST UNTIL 612m. QUARTZ RICH ZONES PROXIMAL TO CONTACT CONTAIN BLEBS OF MAGMATIC SULFIDE SUGGESTING MELTING OF THESE LITHOLOGIES DURING EMPLACENT OF THE INTRUSION. THESE MINERALIZED QUARTZ ZONES ALSO HAVE CHLORITIC HALOS AROUND BRECCIATED QUARTZ FRAGMENTS. FROM 612m CPY-PO IS ABSENT. TRACE TO 1% FINE GRAINED DISSEMINATED PYRITE UNTIL END OF HOLE. |

| Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Q167266 | 602.40 | 603.40 | 1.00 | 1,070.000 | 2,040.000 | 73.000 | 0.578 | 0.440 | 0.016 | 0.800 | 1.690 |
| Q167268 | 603.40 | 604.40 | 1.00 | 506.000 | 1,210.000 | 51.000 | 0.440 | 0.301 | 0.035 | 0.600 | 1.480 |
| Q167269 | 604.40 | 605.40 | 1.00 | 626.000 | 1,660.000 | 53.000 | 0.623 | 0.478 | 0.015 | 1.300 | 1.320 |
| Q167270 | 605.40 | 606.40 | 1.00 | 379.000 | 1,170.000 | 29.000 | 0.265 | 0.188 | 0.013 | 0.800 | 0.710 |
| Q167271 | 606.40 | 607.40 | 1.00 | 69.000 | 249.000 | 18.000 | 0.087 | 0.035 | 0.004 | 0.250 | 0.230 |
| Q167272 | 607.40 | 608.40 | 1.00 | 406.000 | 6,730.000 | 32.000 | 2.730 | 1.690 | 0.244 | 2.200 | 1.050 |
| Q167273 | 608.40 | 609.10 | 0.70 | 536.000 | 9,090.000 | 28.000 | 2.990 | 1.815 | 0.252 | 2.900 | 1.190 |
| Q167274 | 609.10 | 610.10 | 1.00 | 79.000 | 356.000 | 24.000 | 0.065 | 0.083 | 0.009 | 0.250 | 0.370 |
| Q167275 | 610.10 | 611.10 | 1.00 | 114.000 | 855.000 | 32.000 | 0.306 | 0.206 | 0.028 | 0.250 | 0.690 |
| Q167276 | 611.10 | 612.10 | 1.00 | 76.000 | 159.000 | 25.000 | 0.105 | 0.077 | 0.005 | 0.250 | 0.880 |
| Q167277 | 612.10 | 613.10 | 1.00 | 47.000 | 21.000 | 17.000 | 0.003 | 0.003 | 0.002 | 0.250 | 0.310 |
| Q167278 | 613.10 | 614.10 | 1.00 | 49.000 | 20.000 | 21.000 | 0.003 | 0.001 | 0.001 | 0.250 | 0.250 |

**Alteration:**

**602.40 - 662.30: Silica, Pervasive, Weak**

GIVES CORE BUFF GREY COLOUR. VERY HARD.

**608.00 - 608.60: Chlorite, Banded, Moderate**

FRAGMENTS OF QUARTZ IN BRECCIATED ZONE HAVE CORONAS OF CHLORITE.

**608.00 - 608.60: Quartz, Veins, Strong**

IRREGULAR QUARTZ VEIN/BRECCIA

**629.60 - 629.80: Quartz, Veins, Moderate**

**651.50 - 651.80: Quartz, Veins, Moderate**

IRREGULAR QUARTZ VEIN/BRECCIA ZONE. WORMY APPEARANCE, SIMILAR TO GRANOPHYRE

**Mineralization:**

**602.40 - 605.00: Pyrrhotite/Chalcopyrite, Veins, 1-2%%**

MINERALIZATION WITHIN VEINS (1-3mm) AND IN IRREGULAR BLEBS WHICH SEEM TO OVERPRINT THE SEDIMENTARY FABRIC.

**605.00 - 605.90: Pyrrhotite/Chalcopyrite, Veins, 5%%**

ZONE OF MINERALIZATION OBSERVED TO FOLLOW QUARTZ RICH BEDDING PLANE

**605.90 - 608.30: Pyrrhotite/Chalcopyrite, Veins, 1%%**

NARROW VEINS (1-3mm) FOLLOW BEDDING PLANES IN QUARTZ RICH BEDS.

**608.30 - 609.10: Pyrrhotite/Chalcopyrite, Blebby, 3%%**

MEDIUM TO COARSE GRAINED BLEBS WITHIN BRECCIATED QUARTZ RICH ZONE.

**609.10 - 612.00: Pyrrhotite/Chalcopyrite, Veins, 1-2%%**

NARROW VEINS (1-3mm) FOLLOW BEDDING PLANES IN QUARTZ RICH BEDS.

**Structure:**

**602.40 - 662.30: Banded**

10-20 DTCA. LITTLE VARIATION THROUGHOUT INTERVAL

| From | To | Lithology | Sample # | From | To | Length | Ni ppm | Cu ppm | Co ppm | Pt ppm | Pd ppm | Au ppm | Ag ppm | S % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Texture:**

**602.40 - 662.30: Gneissic**

**602.40 - 662.30: Foliated**

**602.40 - 662.30: Medium Grained**

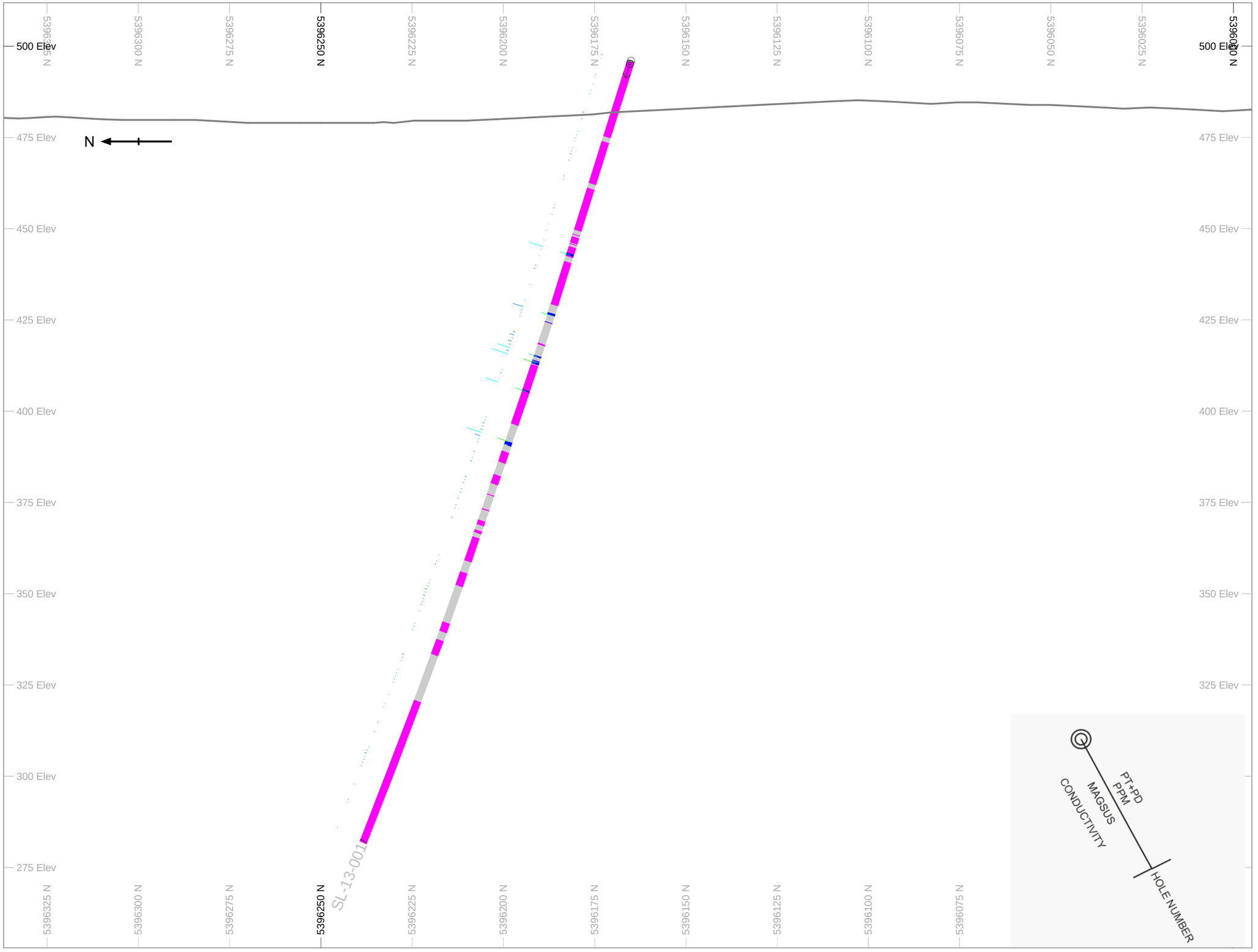
**608.00 - 608.60: Brecciated**

IRREGULAR, ANGULAR QUARTZ FRAGMENTS? CLEARLY CROSSCUT SEDIMENTARY FABRIC WHICH IS NOT BRECCIATED.

## Survey Data

| Depth | Azimuth Decimal | Dip Decimal | Test Type | Flag | Comments |
|---|---|---|---|---|---|
| 32.00 | 235.50 | -75.90 | REFLEX | O | |
| 62.00 | 237.10 | -75.40 | REFLEX | O | |
| 92.00 | 238.90 | -74.40 | REFLEX | O | |
| 122.00 | 239.50 | -73.50 | REFLEX | O | |
| 152.00 | 240.10 | -68.70 | REFLEX | O | |
| 182.00 | 241.00 | -69.20 | REFLEX | O | |
| 212.00 | 241.80 | -68.50 | REFLEX | O | |
| 242.00 | 242.50 | -67.80 | REFLEX | O | |
| 272.00 | 243.30 | -67.50 | REFLEX | O | |
| 302.00 | 252.60 | -67.80 | REFLEX | O | |
| 332.00 | 247.60 | -67.80 | REFLEX | O | |
| 362.00 | 250.10 | -67.10 | REFLEX | O | |
| 392.00 | 250.60 | -64.70 | REFLEX | O | |
| 422.00 | 249.80 | -66.00 | REFLEX | O | |
| 452.00 | 249.60 | -65.80 | REFLEX | O | |
| 482.00 | 248.10 | -66.20 | REFLEX | O | |
| 512.00 | 249.40 | -65.50 | REFLEX | O | |
| 542.00 | 253.10 | -65.00 | REFLEX | O | |
| 572.00 | 251.40 | -64.70 | REFLEX | O | |
| 602.00 | 257.30 | -64.60 | REFLEX | O | |
| 629.00 | 266.70 | -62.60 | REFLEX | O | |
| 632.00 | 265.10 | -64.30 | REFLEX | O | |

## Appendix B: Sections




SL_LITHO_CODE

- CASING
- GRANITE
- GRANODIORITE
- TONALITE
- GABBROIC DYKE
- GABBRO
- OLIVINE GABBRO
- HORNBLENDE GABBRO
- MELAGABBRONORITE
- OLIVINE MELAGABBRONORITE
- GABBRONORITE
- OLIVINE MELAGABBRO
- MAFIC DYKE
- PERIDOTITE
- MAFIC METASEDIMENTS
- LEUCOGABBRO
- MONZOGABBRO
- OXIDE LEUCOGABBRO
- GABBRO BRECCIA
- GRANITE BRECCIA
- METASEDIMENTARY BRECCIA
- GRANODIORITE BRECCIA

Platinum + Pladium

- [ABSENT]
- [FLOOR,0.05]
- [0.05,0.5]
- [0.5,1]
- [1,1.5]
- [1.5,2]
- [2,CEILING]

# Transition Metals Corp.

Sunday Lake Project, On, Canada

## 2013 Drilling Program

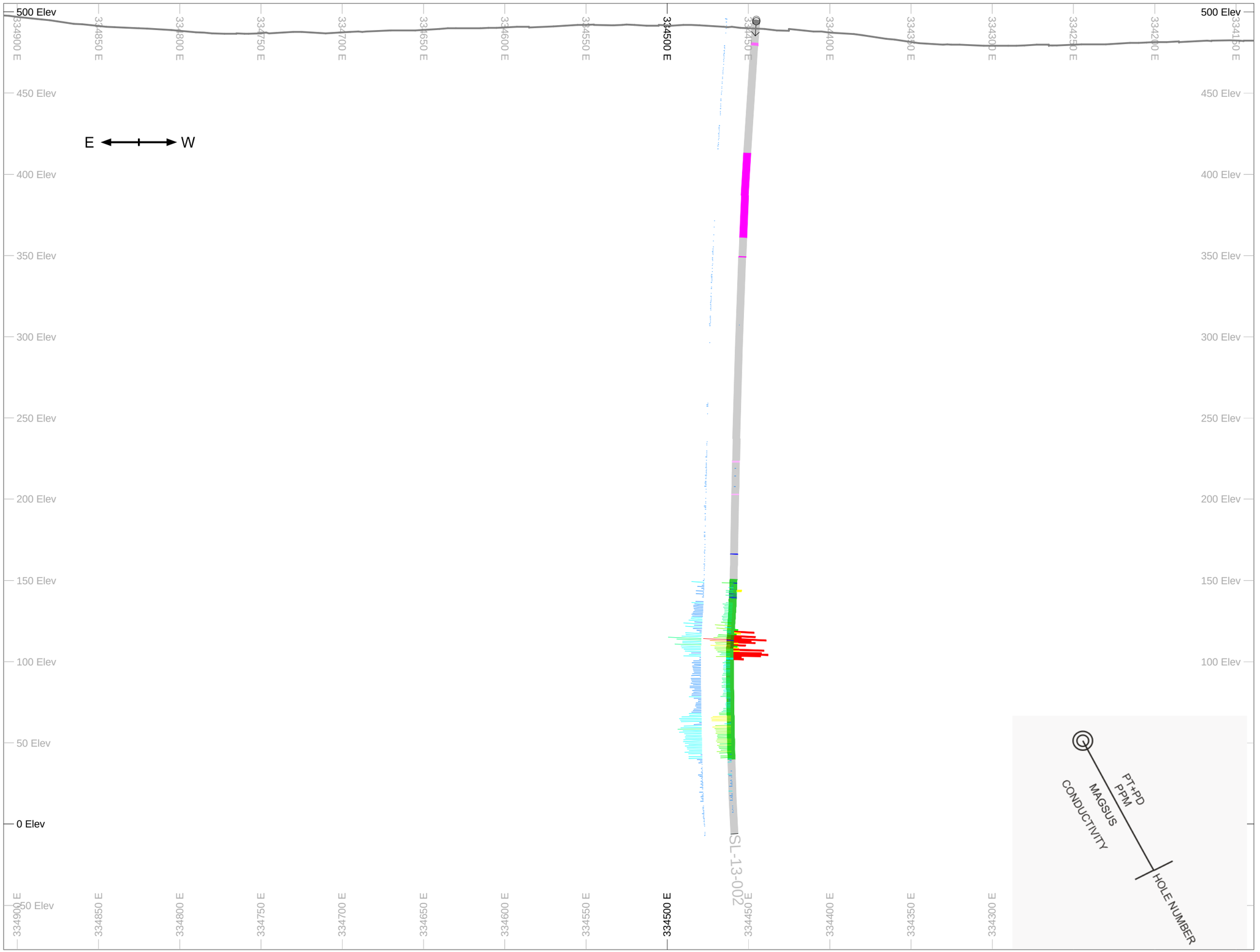
SL-13-001 LOOKING NORTH

1:1000

0 10 20 30 40 50 60 70

Transition Metals

NAD83 Zone 16




SL_LITHO_CODE

- CASING
- GRANITE
- GRANODIORITE
- TONALITE
- GABBROIC DYKE
- GABBRO
- OLIVINE GABBRO
- HORNBLENDE GABBRO
- MELAGABBRONORITE
- OLIVINE MELAGABBRONORITE
- GABBRONORITE
- OLIVINE MELAGABBRO
- MAFIC DYKE
- PERIDOTITE
- MAFIC METASEDIMENTS
- LEUCOGABBRO
- MONZOGABBRO
- OXIDE LEUCOGABBRO

Platinum + Pladium

- [ABSENT]
- [FLOOR,0.05]
- [0.05,0.5]
- [0.5,1]
- [1,1.5]
- [1.5,2]
- [2,CEILING]

# Transition Metals Corp.

Sunday Lake Project, On, Canada

## 2013 Drilling Program

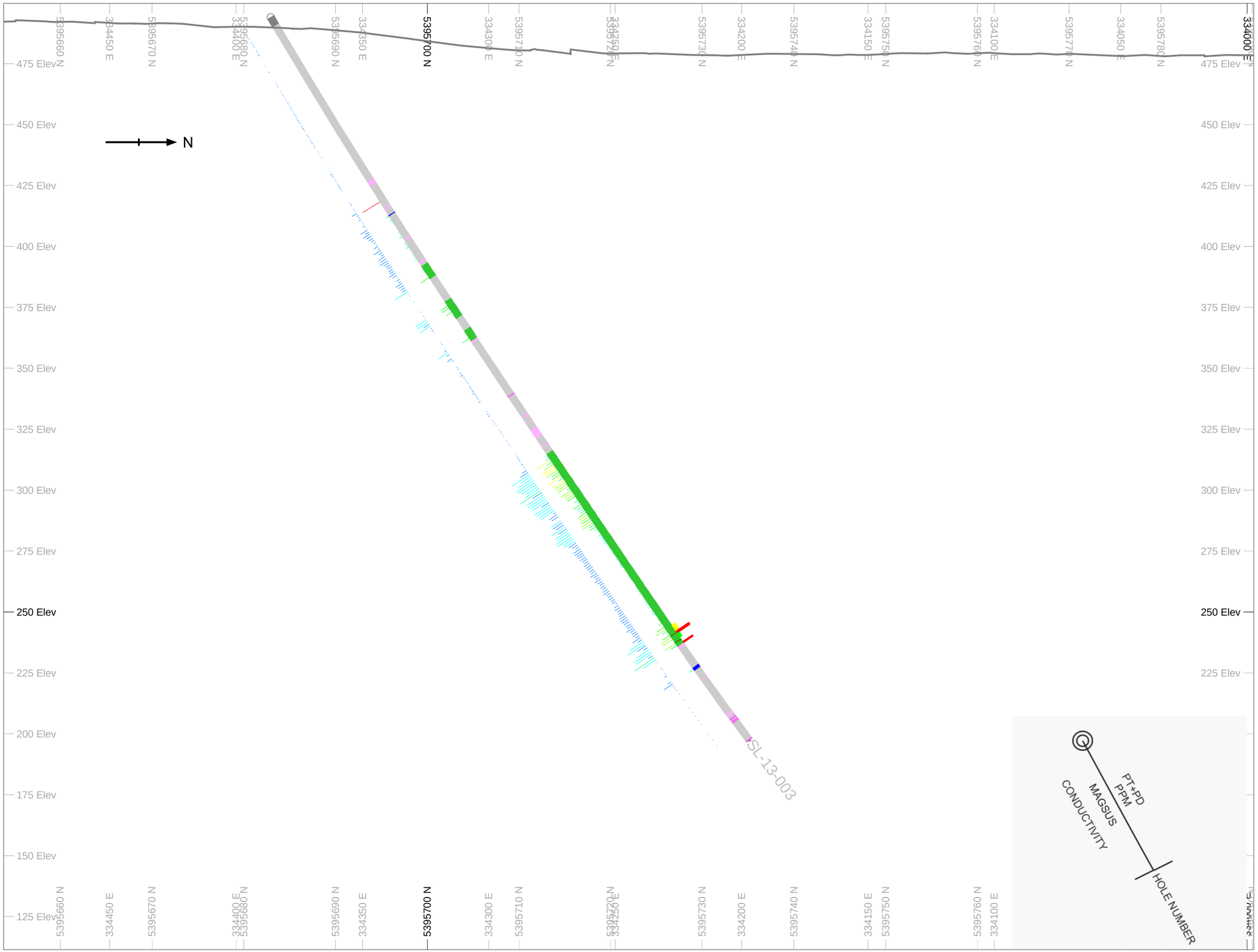
SL-13-002 LOOKING EAST

1:2250

0 25 50 75 100 125 150 175

Transition Metals

NAD83 Zone 16




SL_LITHO_CODE

- CASING
- GRANITE
- GRANODIORITE
- TONALITE
- GABBROIC DYKE
- GABBRO
- OLIVINE GABBRO
- HORNBLENDE GABBRO
- MELAGABBRONORITE
- OLIVINE MELAGABBRONORITE
- GABBRONORITE
- OLIVINE MELAGABBRO
- MAFIC DYKE
- PERIDOTITE
- MAFIC METASEDIMENTS
- LEUCOGABBRO
- MONZOGABBRO
- OXIDE LEUCOGABBRO

Platinum + Pladium

- [ABSENT]
- [FLOOR,0.05]
- [0.05,0.5]
- [0.5,1]
- [1,1.5]
- [1.5,2]
- [2,CEILING]

# Transition Metals Corp.

Sunday Lake Project, On, Canada

## 2013 Drilling Program

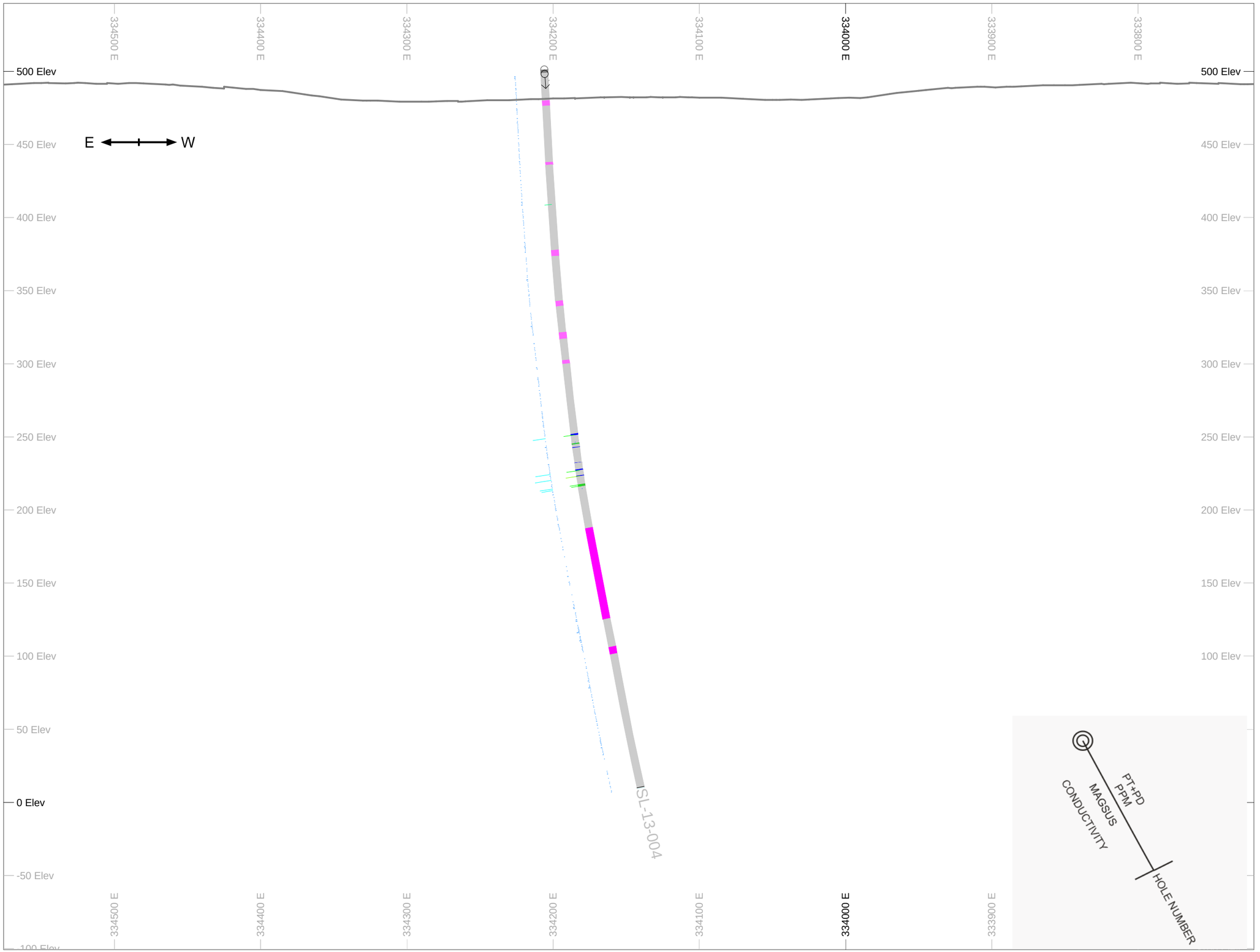
SL-13-003 LOOKING NORTH

1:1500

0 10 20 30 40 50 60 70 80 90 100 110

Transition Metals

NAD83 Zone 16




SL_LITHO_CODE

- CASING
- GRANITE
- GRANODIORITE
- TONALITE
- GABBROIC DYKE
- GABBRO
- OLIVINE GABBRO
- HORNBLENDE GABBRO
- MELAGABBRONORITE
- OLIVINE MELAGABBRONORITE
- GABBRONORITE
- OLIVINE MELAGABBRO
- MAFIC DYKE
- PERIDOTITE
- MAFIC METASEDIMENTS
- LEUCOGABBRO
- MONZOGABBRO
- OXIDE LEUCOGABBRO

Platinum + Pladium

- [ABSENT]
- [FLOOR,0.05]
- [0.05,0.5]
- [0.5,1]
- [1,1.5]
- [1.5,2]
- [2,CEILING]

# Transition Metals Corp.

Sunday Lake Project, On, Canada

## 2013 Drilling Program

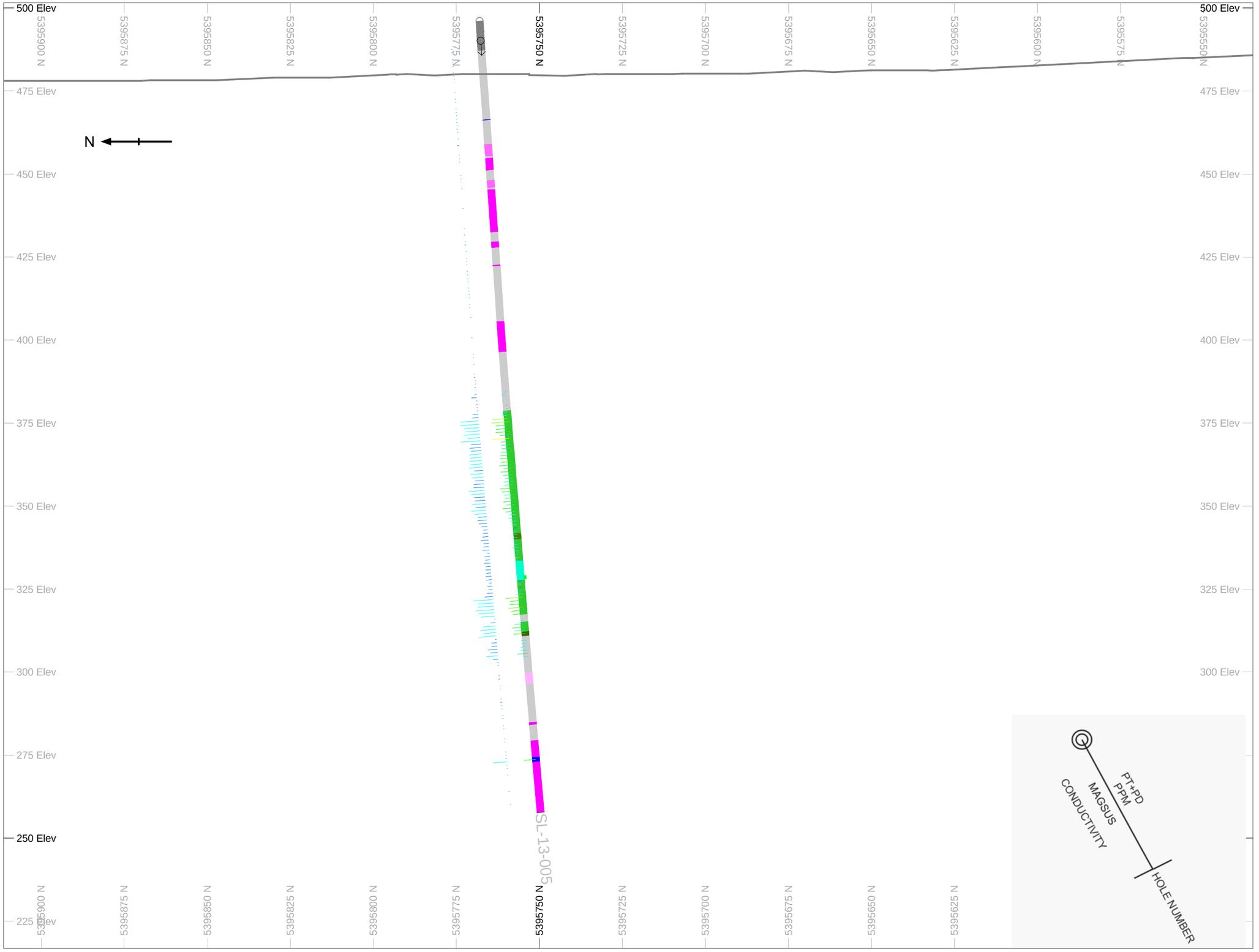
SL-13-004 LOOKING EAST

1:2500

0 25 50 75 100 125 150 175

Transition Metals

NAD83 Zone 16




SL_LITHO_CODE

- CASING
- GRANITE
- GRANODIORITE
- TONALITE
- GABBROIC DYKE
- GABBRO
- OLIVINE GABBRO
- HORNBLENDE GABBRO
- MELAGABBRONORITE
- OLIVINE MELAGABBRONORITE
- GABBRONORITE
- OLIVINE MELAGABBRO
- MAFIC DYKE
- PERIDOTITE
- MAFIC METASEDIMENTS
- LEUCOGABBRO
- MONZOGABBRO
- OXIDE LEUCOGABBRO

Platinum + Pladium

- [ABSENT]
- [FLOOR,0.05]
- [0.05,0.5]
- [0.5,1]
- [1,1.5]
- [1.5,2]
- [2,CEILING]

# Transition Metals Corp.

Sunday Lake Project, On, Canada

## 2013 Drilling Program

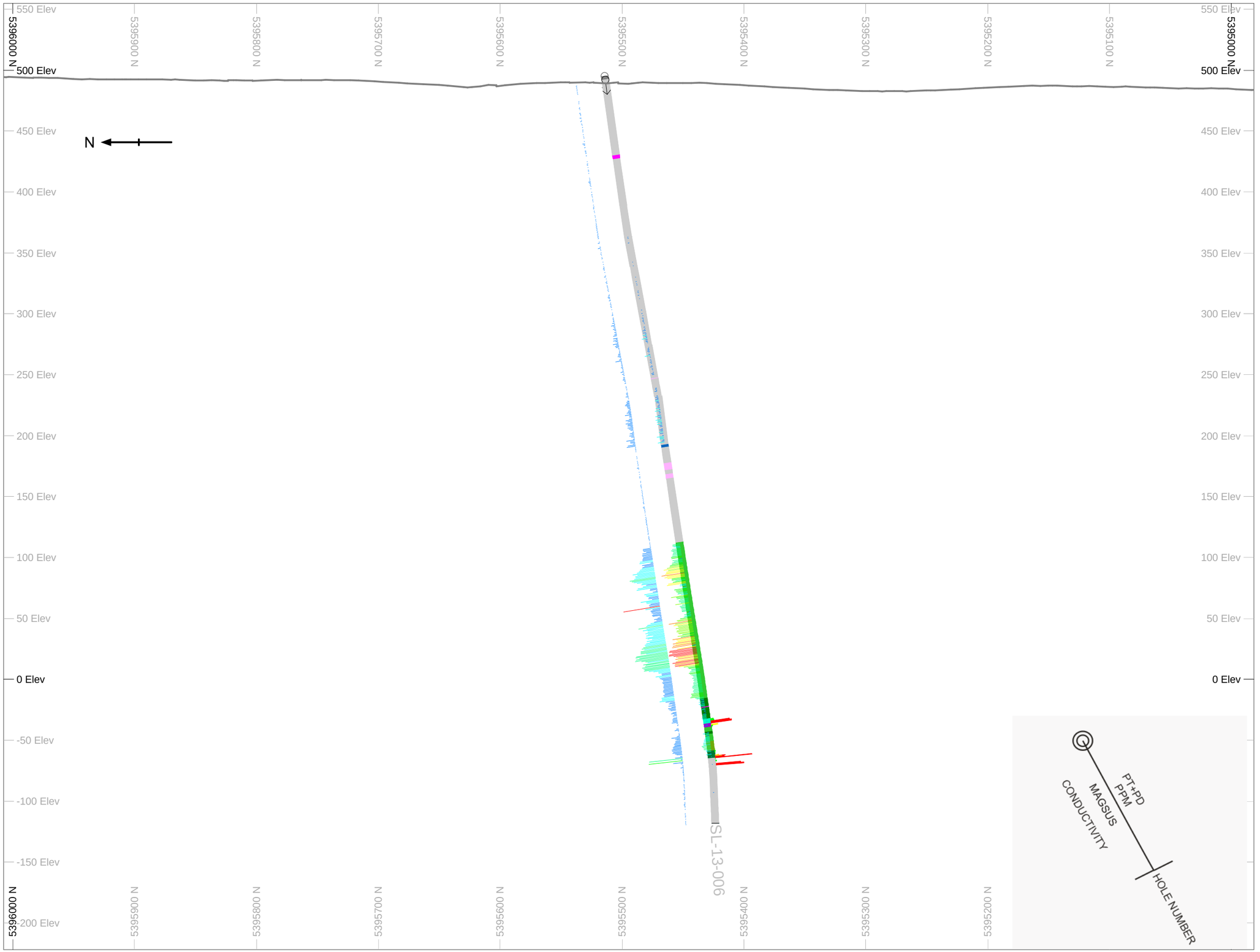
SL-13-005 LOOKING NORTH

1:1100

0 10 20 30 40 50 60 70 80

Transition Metals

NAD83 Zone 16




SL_LITHO_CODE

- CASING
- GRANITE
- GRANODIORITE
- TONALITE
- GABBROIC DYKE
- GABBRO
- OLIVINE GABBRO
- HORNBLENDE GABBRO
- MELAGABBRONORITE
- OLIVINE MELAGABBRONORITE
- GABBRONORITE
- OLIVINE MELAGABBRO
- MAFIC DYKE
- PERIDOTITE
- MAFIC METASEDIMENTS
- LEUCOGABBRO
- MONZOGABBRO
- OXIDE LEUCOGABBRO

Platinum + Pladium

- [ABSENT]
- [FLOOR,0.05]
- [0.05,0.5]
- [0.5,1]
- [1,1.5]
- [1.5,2]
- [2,CEILING]

# Transition Metals Corp.

Sunday Lake Project, On, Canada

## 2013 Drilling Program

SL-13-006 LOOKING NORTH

1:3000

0 25 50 75 100 125 150 175 200 225

Transition Metals

NAD83 Zone 16

## Appendix C: Assays

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 25-NOV-2013
Account: HTXMIN

# CERTIFICATE TB13198937

Project:

P.O. No.: PROJECT 23

This report is for 34 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 8-NOV-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTX MINERALS WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-02 | Find Sample for Addn Analysis |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Comments: RUSH WORK ON TB13198935

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-NOV-2013
Account: HTXMIN

# CERTIFICATE TB13198935

Project:

P.O. No.: PROJECT 23

This report is for 34 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 7-NOV-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTX MINERALS WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Comments: NON RUSH ON TB13198937

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198935

| Sample Description | Method Analyte Units LOR | WEI-21 Recvd Wt. kg 0.02 | PGM-ICP23 Au ppm 0.001 | PGM-ICP23 Pt ppm 0.005 | PGM-ICP23 Pd ppm 0.001 |
|---|---|---|---|---|---|
| FNOR1 | | 0.95 | <0.001 | <0.005 | 0.001 |
| N500106 | | 2.24 | 0.128 | 2.64 | 1.290 |
| N500107 | | 2.26 | 0.104 | 1.455 | 0.582 |
| N500108 | | 2.36 | 0.263 | 3.81 | 1.600 |
| N500109 | | 2.30 | 0.163 | 2.41 | 0.973 |
| N500110 | | 2.21 | 0.269 | 2.86 | 1.070 |
| N500111 | | 2.18 | 0.061 | 1.145 | 0.444 |
| N500112 | | 2.51 | 0.180 | 1.950 | 0.683 |
| N500113 | | 2.19 | 0.107 | 1.085 | 0.411 |
| N500114 | | 2.39 | 0.109 | 1.235 | 0.484 |
| N500115 | | 2.51 | 0.406 | 3.78 | 1.395 |
| N500116 | | 2.24 | 0.300 | 3.37 | 1.475 |
| N500117 | | 2.36 | 0.315 | 3.83 | 1.880 |
| N500118 | | 2.20 | 0.221 | 3.02 | 1.680 |
| N500119 | | 2.25 | 0.106 | 1.325 | 0.765 |
| N500120 | | 2.89 | 0.088 | 1.450 | 0.925 |
| N500121 | | 2.35 | 0.090 | 1.305 | 0.529 |
| N500122 | | 2.18 | 0.004 | 0.028 | 0.027 |
| N500123 | | 2.07 | 0.006 | 0.032 | 0.031 |
| N500124 | | 2.96 | 0.014 | 0.107 | 0.147 |
| N500125 | | 0.10 | 0.050 | 0.051 | 0.073 |
| N500126 | | 2.32 | 0.007 | 0.040 | 0.031 |
| N500127 | | 2.45 | 0.031 | 0.147 | 0.083 |
| N500128 | | 2.44 | 0.030 | 0.386 | 0.333 |
| N500129 | | 1.82 | 0.071 | 0.851 | 0.804 |
| N500130 | | 1.23 | 0.064 | 0.830 | 0.764 |
| N500131 | | 2.94 | 0.071 | 0.856 | 0.697 |
| N500132 | | 2.27 | 0.154 | 1.725 | 1.425 |
| N500133 | | 2.46 | 0.070 | 0.745 | 0.624 |
| N500134 | | 1.81 | 0.086 | 0.802 | 0.590 |
| N500135 | | 2.23 | 0.070 | 0.612 | 0.412 |
| N500136 | | 2.53 | 0.044 | 0.342 | 0.217 |
| N500137 | | 1.84 | 0.096 | 1.460 | 1.155 |
| N500138 | | 1.92 | 0.047 | 0.223 | 0.171 |

Comments: NON RUSH ON TB13198937

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198935

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | |
|---|---|
| | PGM-ICP23 |

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 25-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198937

| Sample Description | Method | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Ba | Ce | Cr | Cs |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.5 | 0.5 | 10 | 0.01 |
| FNOR1 | | <0.5 | <5 | <0.5 | 23 | 18 | 10 | <1 | 34 | 21 | 14 | 75 | 540 | 62.2 | 140 | 0.54 |
| N500106 | | 1.0 | 7 | <0.5 | 138 | 2420 | 50 | <1 | 1310 | 30 | 28 | 116 | 13.6 | 28.3 | 1940 | 0.83 |
| N500107 | | 0.7 | <5 | <0.5 | 102 | 1745 | 50 | <1 | 908 | 7 | 32 | 99 | 13.4 | 25.6 | 1990 | 0.92 |
| N500108 | | 2.1 | <5 | <0.5 | 144 | 3650 | 50 | 1 | 1410 | 4 | 33 | 120 | 23.3 | 24.9 | 2120 | 1.22 |
| N500109 | | 1.3 | <5 | <0.5 | 99 | 2490 | 40 | <1 | 1020 | <2 | 25 | 108 | 62.2 | 48.3 | 1100 | 0.95 |
| N500110 | | 1.3 | <5 | <0.5 | 128 | 3530 | 60 | <1 | 1350 | 7 | 27 | 123 | 73.7 | 28.3 | 1790 | 1.90 |
| N500111 | | 0.6 | <5 | <0.5 | 112 | 1630 | 60 | 1 | 1020 | <2 | 24 | 124 | 67.3 | 44.0 | 1560 | 1.67 |
| N500112 | | 1.3 | <5 | <0.5 | 109 | 2650 | 50 | <1 | 1110 | 8 | 24 | 105 | 93.0 | 42.3 | 1730 | 2.29 |
| N500113 | | 0.8 | <5 | <0.5 | 105 | 1755 | 60 | 1 | 966 | 4 | 24 | 102 | 115.5 | 46.6 | 1820 | 2.72 |
| N500114 | | 1.3 | 6 | <0.5 | 116 | 1985 | 70 | <1 | 1150 | 11 | 25 | 113 | 90.3 | 41.9 | 1850 | 2.08 |
| N500115 | | 2.4 | 6 | <0.5 | 115 | 4830 | 60 | <1 | 1560 | 9 | 25 | 114 | 99.0 | 46.6 | 1720 | 1.69 |
| N500116 | | 2.7 | <5 | <0.5 | 103 | 4510 | 60 | <1 | 1280 | 6 | 25 | 119 | 97.2 | 46.9 | 1790 | 1.96 |
| N500117 | | 2.4 | 5 | <0.5 | 102 | 4850 | 60 | 1 | 1170 | 5 | 20 | 159 | 79.5 | 54.6 | 2100 | 2.09 |
| N500118 | | 1.9 | 8 | <0.5 | 119 | 4200 | 80 | <1 | 1430 | 15 | 21 | 164 | 74.8 | 43.8 | 2540 | 2.43 |
| N500119 | | 1.6 | <5 | <0.5 | 115 | 2670 | 40 | <1 | 923 | 39 | 38 | 125 | 10.9 | 31.0 | 1620 | 0.64 |
| N500120 | | 0.8 | <5 | 0.5 | 89 | 1955 | 40 | <1 | 744 | 11 | 36 | 81 | 44.4 | 36.5 | 1830 | 0.47 |
| N500121 | | 0.8 | 5 | <0.5 | 121 | 1855 | 60 | <1 | 1360 | 2 | 24 | 121 | 93.9 | 49.4 | 1850 | 1.84 |
| N500122 | | <0.5 | <5 | <0.5 | 63 | 181 | 20 | <1 | 150 | 4 | 31 | 110 | 263 | 67.8 | 560 | 1.10 |
| N500123 | | <0.5 | <5 | <0.5 | 61 | 270 | 30 | <1 | 159 | 8 | 31 | 124 | 256 | 66.2 | 590 | 1.39 |
| N500124 | | 0.5 | <5 | <0.5 | 70 | 837 | 20 | 1 | 294 | 7 | 35 | 105 | 183.0 | 52.8 | 1150 | 1.54 |
| N500125 | | 0.8 | <5 | <0.5 | 90 | 2590 | 10 | 2 | 2360 | 11 | 17 | 98 | 252 | 26.1 | 140 | 0.29 |
| N500126 | | <0.5 | <5 | <0.5 | 77 | 852 | 20 | <1 | 332 | 9 | 45 | 92 | 19.7 | 30.5 | 700 | 0.36 |
| N500127 | | 0.5 | <5 | <0.5 | 74 | 690 | 20 | <1 | 326 | 6 | 48 | 96 | 34.7 | 29.7 | 980 | 0.28 |
| N500128 | | 1.1 | <5 | <0.5 | 92 | 1965 | 40 | 1 | 619 | 8 | 36 | 113 | 143.0 | 44.5 | 1100 | 0.71 |
| N500129 | | 2.0 | <5 | <0.5 | 119 | 4690 | 40 | 1 | 1250 | 6 | 33 | 120 | 129.5 | 52.6 | 950 | 0.86 |
| N500130 | | 2.1 | 9 | <0.5 | 137 | 4040 | 40 | <1 | 1210 | 22 | 37 | 133 | 102.0 | 49.0 | 1050 | 1.27 |
| N500131 | | 1.9 | 7 | <0.5 | 115 | 3830 | 70 | <1 | 1020 | 18 | 34 | 112 | 82.4 | 41.2 | 1060 | 1.19 |
| N500132 | | 4.1 | 7 | <0.5 | 202 | 8640 | 40 | <1 | 2400 | 14 | 34 | 198 | 94.5 | 28.8 | 1590 | 1.60 |
| N500133 | | 1.4 | <5 | <0.5 | 95 | 3940 | 40 | <1 | 820 | 11 | 28 | 114 | 305 | 51.3 | 410 | 1.54 |
| N500134 | | 1.7 | 7 | <0.5 | 86 | 3270 | 40 | <1 | 822 | 6 | 40 | 111 | 56.2 | 30.6 | 1420 | 0.50 |
| N500135 | | 2.5 | 168 | <0.5 | 84 | 3200 | 60 | <1 | 828 | 12 | 35 | 176 | 61.5 | 31.4 | 1960 | 1.72 |
| N500136 | | 2.9 | 35 | <0.5 | 86 | 1895 | 90 | <1 | 640 | 13 | 27 | 135 | 127.0 | 53.2 | 1370 | 3.23 |
| N500137 | | 7.9 | 51 | 0.6 | 200 | 6480 | 70 | 1 | 2300 | 18 | 28 | 81 | 83.2 | 47.3 | 1000 | 1.81 |
| N500138 | | 1.1 | <5 | <0.5 | 94 | 2200 | 30 | 1 | 604 | 12 | 37 | 97 | 116.0 | 37.1 | 1250 | 1.18 |

Comments: RUSH WORK ON TB13198935

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 25-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198937

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb | Nd | Pr | Rb | Sm | Sn |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 | 0.1 | 0.03 | 0.2 | 0.03 | 1 |
| FNOR1 | | 3.22 | 1.84 | 1.26 | 19.8 | 3.49 | 4.3 | 0.61 | 30.9 | 0.31 | 7.6 | 27.7 | 7.17 | 46.1 | 4.45 | <1 |
| N500106 | | 2.32 | 1.13 | 1.08 | 9.6 | 3.24 | 2.4 | 0.44 | 11.5 | 0.13 | 8.5 | 18.0 | 4.01 | 3.1 | 3.64 | <1 |
| N500107 | | 2.43 | 1.15 | 1.10 | 9.1 | 3.21 | 4.0 | 0.45 | 9.9 | 0.13 | 7.7 | 17.4 | 3.74 | 2.4 | 3.77 | <1 |
| N500108 | | 2.51 | 1.04 | 1.08 | 8.8 | 3.30 | 2.9 | 0.45 | 9.7 | 0.11 | 7.4 | 18.2 | 3.63 | 5.3 | 4.29 | <1 |
| N500109 | | 3.09 | 1.38 | 1.68 | 14.0 | 4.35 | 3.9 | 0.59 | 20.5 | 0.19 | 13.7 | 28.9 | 6.50 | 7.1 | 5.84 | <1 |
| N500110 | | 2.67 | 1.25 | 1.24 | 10.9 | 3.66 | 3.2 | 0.48 | 10.9 | 0.15 | 11.3 | 19.9 | 3.99 | 11.8 | 4.17 | <1 |
| N500111 | | 3.27 | 1.45 | 1.66 | 11.9 | 3.95 | 4.0 | 0.58 | 17.7 | 0.17 | 14.5 | 28.0 | 6.11 | 10.0 | 5.83 | <1 |
| N500112 | | 3.25 | 1.63 | 1.59 | 12.8 | 4.45 | 4.4 | 0.56 | 17.0 | 0.16 | 15.0 | 27.0 | 5.88 | 13.4 | 5.31 | <1 |
| N500113 | | 3.13 | 1.38 | 1.71 | 13.0 | 4.50 | 4.4 | 0.60 | 18.9 | 0.17 | 16.5 | 28.8 | 6.61 | 17.5 | 5.46 | <1 |
| N500114 | | 3.34 | 1.42 | 1.60 | 12.2 | 4.71 | 4.4 | 0.56 | 16.2 | 0.18 | 14.6 | 27.5 | 6.00 | 12.8 | 5.86 | <1 |
| N500115 | | 3.79 | 1.73 | 1.90 | 14.1 | 5.48 | 4.9 | 0.64 | 18.0 | 0.19 | 17.4 | 31.6 | 6.79 | 14.9 | 6.55 | <1 |
| N500116 | | 3.63 | 1.62 | 1.74 | 13.7 | 4.80 | 4.3 | 0.68 | 18.6 | 0.18 | 15.8 | 31.0 | 6.57 | 15.6 | 6.40 | <1 |
| N500117 | | 3.81 | 1.79 | 1.88 | 13.5 | 5.57 | 4.9 | 0.68 | 22.4 | 0.19 | 17.0 | 33.1 | 7.46 | 12.3 | 6.79 | <1 |
| N500118 | | 3.58 | 1.78 | 1.58 | 13.9 | 4.65 | 3.8 | 0.64 | 17.4 | 0.17 | 14.8 | 28.2 | 6.20 | 14.2 | 5.80 | <1 |
| N500119 | | 2.39 | 1.19 | 1.16 | 9.2 | 3.60 | 3.0 | 0.43 | 12.3 | 0.12 | 7.5 | 20.8 | 4.29 | 1.6 | 4.14 | <1 |
| N500120 | | 2.64 | 1.06 | 1.40 | 11.1 | 3.67 | 2.6 | 0.46 | 15.1 | 0.12 | 9.2 | 22.4 | 4.92 | 3.5 | 4.71 | <1 |
| N500121 | | 3.78 | 1.69 | 1.97 | 13.4 | 5.18 | 4.3 | 0.69 | 18.9 | 0.16 | 15.8 | 33.4 | 7.04 | 15.9 | 6.43 | <1 |
| N500122 | | 4.22 | 1.88 | 2.17 | 16.5 | 6.15 | 5.0 | 0.76 | 28.5 | 0.24 | 19.3 | 40.0 | 9.17 | 27.7 | 7.99 | <1 |
| N500123 | | 4.27 | 1.94 | 2.24 | 16.2 | 5.84 | 5.0 | 0.72 | 27.3 | 0.22 | 18.8 | 40.0 | 9.02 | 33.6 | 7.96 | <1 |
| N500124 | | 3.60 | 1.68 | 1.81 | 12.9 | 5.11 | 4.1 | 0.62 | 21.7 | 0.16 | 15.1 | 32.9 | 7.23 | 19.7 | 6.28 | <1 |
| N500125 | | 3.34 | 2.03 | 1.40 | 18.2 | 3.65 | 1.9 | 0.69 | 11.6 | 0.24 | 2.8 | 15.1 | 3.28 | 13.4 | 3.41 | <1 |
| N500126 | | 2.54 | 1.23 | 1.24 | 8.5 | 3.26 | 2.4 | 0.43 | 12.1 | 0.11 | 7.2 | 20.3 | 4.44 | 3.0 | 4.10 | <1 |
| N500127 | | 2.65 | 1.17 | 1.21 | 8.4 | 3.77 | 2.3 | 0.46 | 11.7 | 0.12 | 7.2 | 20.2 | 4.22 | 4.5 | 4.17 | <1 |
| N500128 | | 3.24 | 1.30 | 1.53 | 12.3 | 4.42 | 3.1 | 0.55 | 18.6 | 0.15 | 13.9 | 27.1 | 6.11 | 14.7 | 5.83 | <1 |
| N500129 | | 3.22 | 1.52 | 1.73 | 12.7 | 4.42 | 3.5 | 0.58 | 22.7 | 0.15 | 16.8 | 31.1 | 7.27 | 14.6 | 6.39 | <1 |
| N500130 | | 3.17 | 1.44 | 1.54 | 11.5 | 4.10 | 3.1 | 0.51 | 21.1 | 0.14 | 14.9 | 28.2 | 6.52 | 13.4 | 5.30 | <1 |
| N500131 | | 2.85 | 1.33 | 1.33 | 10.9 | 3.79 | 2.9 | 0.55 | 17.6 | 0.15 | 11.3 | 24.7 | 5.50 | 12.1 | 4.78 | <1 |
| N500132 | | 2.35 | 1.05 | 1.08 | 10.2 | 3.16 | 2.3 | 0.45 | 11.9 | 0.12 | 8.2 | 18.7 | 4.06 | 15.9 | 3.88 | <1 |
| N500133 | | 3.52 | 1.49 | 1.65 | 15.5 | 4.60 | 3.9 | 0.61 | 21.9 | 0.17 | 15.8 | 29.5 | 6.91 | 53.3 | 5.77 | <1 |
| N500134 | | 2.79 | 1.31 | 1.22 | 10.2 | 4.11 | 2.5 | 0.52 | 12.1 | 0.15 | 9.2 | 20.2 | 4.39 | 7.2 | 4.73 | <1 |
| N500135 | | 2.72 | 1.40 | 1.15 | 12.0 | 3.65 | 2.8 | 0.52 | 12.9 | 0.17 | 10.5 | 20.4 | 4.49 | 12.0 | 4.38 | <1 |
| N500136 | | 3.00 | 1.45 | 1.41 | 12.5 | 4.64 | 3.5 | 0.59 | 22.8 | 0.16 | 14.1 | 31.3 | 7.27 | 19.7 | 5.86 | <1 |
| N500137 | | 2.92 | 1.39 | 1.39 | 13.6 | 4.39 | 3.0 | 0.54 | 22.2 | 0.15 | 12.7 | 27.1 | 6.16 | 18.6 | 5.37 | 1 |
| N500138 | | 2.55 | 1.20 | 1.32 | 10.4 | 4.04 | 2.9 | 0.49 | 15.1 | 0.15 | 9.8 | 23.7 | 5.21 | 13.1 | 4.70 | <1 |

Comments: RUSH WORK ON TB13198935

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 25-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198937

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y | Yb | Zr | SiO2 | Al2O3 | Fe2O3 |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| | LOR | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 | 0.03 | 2 | 0.01 | 0.01 | 0.01 |
| FNOR1 | | 476 | 0.6 | 0.52 | 7.95 | <0.5 | 0.29 | 1.80 | 115 | <1 | 17.8 | 1.69 | 162 | 60.0 | 16.20 | 6.62 |
| N500106 | | 58.0 | 0.6 | 0.46 | 1.18 | <0.5 | 0.17 | 0.35 | 170 | 1 | 10.8 | 0.92 | 91 | 45.2 | 5.47 | 14.85 |
| N500107 | | 75.3 | 0.6 | 0.48 | 0.91 | <0.5 | 0.19 | 0.33 | 171 | <1 | 11.2 | 0.90 | 164 | 45.9 | 5.11 | 13.55 |
| N500108 | | 65.4 | 0.5 | 0.48 | 0.81 | <0.5 | 0.15 | 0.28 | 195 | <1 | 11.2 | 0.87 | 103 | 45.1 | 4.84 | 15.55 |
| N500109 | | 205 | 1.0 | 0.59 | 2.08 | <0.5 | 0.21 | 0.69 | 227 | <1 | 14.8 | 1.36 | 151 | 47.0 | 8.17 | 14.15 |
| N500110 | | 176.0 | 0.8 | 0.51 | 1.21 | <0.5 | 0.15 | 0.55 | 213 | <1 | 12.3 | 0.94 | 118 | 44.2 | 6.54 | 15.25 |
| N500111 | | 169.5 | 0.9 | 0.60 | 1.51 | <0.5 | 0.20 | 0.58 | 207 | 1 | 15.0 | 1.23 | 150 | 46.0 | 7.26 | 13.90 |
| N500112 | | 228 | 1.0 | 0.60 | 1.67 | <0.5 | 0.23 | 0.59 | 219 | 1 | 15.1 | 1.18 | 155 | 45.9 | 7.42 | 14.55 |
| N500113 | | 295 | 1.0 | 0.62 | 1.68 | <0.5 | 0.22 | 0.57 | 209 | <1 | 15.6 | 1.31 | 159 | 45.6 | 7.32 | 13.80 |
| N500114 | | 214 | 0.9 | 0.61 | 1.43 | <0.5 | 0.19 | 0.46 | 200 | <1 | 14.9 | 1.28 | 170 | 44.9 | 6.94 | 14.35 |
| N500115 | | 253 | 1.2 | 0.71 | 1.82 | <0.5 | 0.24 | 0.55 | 233 | <1 | 17.7 | 1.44 | 194 | 45.6 | 7.75 | 14.85 |
| N500116 | | 310 | 1.1 | 0.72 | 1.94 | <0.5 | 0.21 | 0.55 | 217 | <1 | 16.6 | 1.26 | 168 | 45.9 | 7.70 | 14.10 |
| N500117 | | 159.0 | 1.2 | 0.74 | 1.93 | <0.5 | 0.23 | 0.67 | 187 | 1 | 18.9 | 1.40 | 183 | 44.7 | 7.82 | 13.70 |
| N500118 | | 105.0 | 1.0 | 0.66 | 1.50 | <0.5 | 0.24 | 0.60 | 194 | 1 | 16.8 | 1.18 | 146 | 43.1 | 7.34 | 15.20 |
| N500119 | | 66.6 | 0.5 | 0.50 | 0.98 | <0.5 | 0.15 | 0.31 | 194 | <1 | 11.3 | 0.83 | 108 | 46.0 | 4.61 | 13.35 |
| N500120 | | 145.0 | 0.7 | 0.53 | 1.02 | <0.5 | 0.14 | 0.36 | 185 | <1 | 11.6 | 0.88 | 103 | 46.9 | 5.72 | 11.90 |
| N500121 | | 286 | 1.1 | 0.70 | 1.58 | <0.5 | 0.26 | 0.51 | 215 | <1 | 17.4 | 1.21 | 169 | 45.3 | 7.44 | 14.70 |
| N500122 | | 502 | 1.3 | 0.77 | 2.23 | <0.5 | 0.24 | 0.65 | 276 | <1 | 19.5 | 1.40 | 183 | 49.2 | 9.38 | 12.75 |
| N500123 | | 431 | 1.3 | 0.81 | 2.22 | <0.5 | 0.24 | 0.63 | 274 | <1 | 19.4 | 1.33 | 183 | 49.3 | 9.29 | 12.95 |
| N500124 | | 382 | 1.0 | 0.69 | 1.67 | <0.5 | 0.23 | 0.53 | 250 | <1 | 16.1 | 1.13 | 150 | 49.0 | 7.49 | 12.15 |
| N500125 | | 339 | 0.2 | 0.61 | 1.59 | <0.5 | 0.29 | 0.35 | 99 | 3 | 18.2 | 1.74 | 85 | 47.8 | 18.50 | 10.80 |
| N500126 | | 103.0 | 0.5 | 0.48 | 0.80 | <0.5 | 0.17 | 0.29 | 215 | <1 | 11.5 | 0.81 | 82 | 50.7 | 4.53 | 10.80 |
| N500127 | | 104.0 | 0.5 | 0.48 | 0.81 | <0.5 | 0.17 | 0.29 | 231 | <1 | 11.7 | 0.77 | 80 | 47.7 | 4.61 | 11.20 |
| N500128 | | 207 | 1.0 | 0.57 | 1.35 | <0.5 | 0.19 | 0.46 | 256 | <1 | 14.2 | 1.06 | 117 | 46.7 | 6.95 | 13.30 |
| N500129 | | 222 | 1.1 | 0.64 | 1.78 | <0.5 | 0.19 | 0.49 | 236 | <1 | 15.0 | 1.22 | 131 | 46.6 | 7.11 | 14.55 |
| N500130 | | 236 | 0.9 | 0.62 | 1.57 | <0.5 | 0.19 | 0.48 | 238 | <1 | 14.1 | 1.04 | 118 | 46.5 | 6.45 | 14.70 |
| N500131 | | 132.0 | 0.8 | 0.55 | 1.24 | <0.5 | 0.18 | 0.46 | 206 | <1 | 13.9 | 1.00 | 108 | 47.2 | 6.84 | 14.40 |
| N500132 | | 144.0 | 0.6 | 0.43 | 0.98 | <0.5 | 0.16 | 0.28 | 249 | <1 | 11.2 | 0.82 | 81 | 43.3 | 5.40 | 18.95 |
| N500133 | | 378 | 1.0 | 0.62 | 1.81 | <0.5 | 0.20 | 0.60 | 249 | <1 | 16.0 | 1.22 | 148 | 47.8 | 10.80 | 13.95 |
| N500134 | | 102.0 | 0.6 | 0.52 | 1.16 | <0.5 | 0.18 | 0.43 | 217 | <1 | 13.3 | 1.01 | 87 | 47.7 | 5.72 | 13.45 |
| N500135 | | 126.5 | 0.7 | 0.52 | 1.63 | <0.5 | 0.20 | 0.66 | 195 | <1 | 13.3 | 1.03 | 105 | 43.6 | 6.13 | 15.70 |
| N500136 | | 159.0 | 0.9 | 0.69 | 2.40 | <0.5 | 0.21 | 0.89 | 206 | <1 | 15.1 | 1.15 | 129 | 43.0 | 7.32 | 14.25 |
| N500137 | | 115.5 | 1.0 | 0.56 | 2.06 | <0.5 | 0.19 | 1.72 | 202 | 1 | 14.7 | 1.10 | 110 | 45.0 | 6.89 | 17.25 |
| N500138 | | 158.5 | 0.7 | 0.53 | 1.21 | <0.5 | 0.19 | 0.40 | 201 | <1 | 12.3 | 0.97 | 111 | 49.9 | 5.54 | 11.55 |

Comments: RUSH WORK ON TB13198935

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 25-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198937

| Sample Description | Method | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | OA-GRA05 | TOT-ICP06 | S-IR08 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO | LOI | Total | S |
| | Units | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| FNOR1 | | 6.24 | 3.83 | 4.66 | 1.56 | 0.02 | 0.63 | 0.12 | 0.14 | 0.06 | 0.06 | 1.74 | 101.88 | 0.03 |
| N500106 | | 9.96 | 16.75 | 0.73 | 0.08 | 0.26 | 1.16 | 0.21 | 0.12 | 0.01 | <0.01 | 4.65 | 99.45 | 1.41 |
| N500107 | | 11.30 | 17.15 | 0.85 | 0.06 | 0.27 | 1.16 | 0.21 | 0.11 | 0.01 | <0.01 | 3.88 | 99.56 | 0.87 |
| N500108 | | 10.45 | 17.60 | 0.77 | 0.13 | 0.28 | 1.27 | 0.21 | 0.10 | 0.01 | <0.01 | 4.01 | 100.32 | 1.09 |
| N500109 | | 8.87 | 12.05 | 2.48 | 0.32 | 0.14 | 1.67 | 0.19 | 0.17 | 0.03 | 0.01 | 4.06 | 99.31 | 1.56 |
| N500110 | | 8.17 | 16.10 | 1.22 | 0.33 | 0.23 | 1.76 | 0.23 | 0.11 | 0.02 | 0.01 | 4.08 | 98.25 | 1.31 |
| N500111 | | 7.43 | 15.15 | 1.88 | 0.28 | 0.20 | 1.64 | 0.20 | 0.18 | 0.02 | 0.01 | 4.81 | 98.96 | 1.77 |
| N500112 | | 7.78 | 15.75 | 1.81 | 0.40 | 0.23 | 1.84 | 0.20 | 0.15 | 0.03 | 0.01 | 4.09 | 100.16 | 1.31 |
| N500113 | | 7.55 | 15.85 | 1.71 | 0.54 | 0.23 | 1.76 | 0.19 | 0.15 | 0.04 | 0.01 | 3.84 | 98.59 | 0.98 |
| N500114 | | 7.68 | 16.55 | 1.39 | 0.42 | 0.24 | 1.73 | 0.20 | 0.19 | 0.03 | 0.01 | 4.12 | 98.75 | 0.81 |
| N500115 | | 8.40 | 14.35 | 1.83 | 0.38 | 0.21 | 1.84 | 0.19 | 0.17 | 0.03 | 0.01 | 4.37 | 99.98 | 1.59 |
| N500116 | | 8.12 | 14.45 | 1.89 | 0.46 | 0.23 | 1.77 | 0.21 | 0.18 | 0.04 | 0.01 | 4.04 | 99.10 | 1.36 |
| N500117 | | 6.09 | 15.95 | 1.82 | 0.34 | 0.27 | 1.69 | 0.21 | 0.17 | 0.02 | 0.01 | 5.44 | 98.23 | 1.18 |
| N500118 | | 5.61 | 17.90 | 1.19 | 0.39 | 0.33 | 1.66 | 0.23 | 0.17 | 0.01 | 0.01 | 5.72 | 98.86 | 1.14 |
| N500119 | | 11.85 | 15.70 | 0.39 | 0.05 | 0.21 | 1.18 | 0.20 | 0.10 | 0.01 | <0.01 | 4.44 | 98.09 | 0.80 |
| N500120 | | 12.10 | 14.60 | 0.72 | 0.14 | 0.24 | 1.21 | 0.22 | 0.11 | 0.02 | 0.01 | 4.33 | 98.22 | 0.54 |
| N500121 | | 7.66 | 14.80 | 1.81 | 0.49 | 0.24 | 1.78 | 0.21 | 0.19 | 0.04 | 0.01 | 4.06 | 98.73 | 1.25 |
| N500122 | | 10.30 | 9.34 | 2.52 | 0.87 | 0.07 | 2.06 | 0.19 | 0.21 | 0.06 | 0.03 | 2.38 | 99.36 | 0.12 |
| N500123 | | 10.20 | 9.52 | 2.68 | 0.79 | 0.08 | 2.04 | 0.21 | 0.22 | 0.05 | 0.03 | 2.27 | 99.63 | 0.10 |
| N500124 | | 11.70 | 11.75 | 1.93 | 0.59 | 0.15 | 1.73 | 0.19 | 0.18 | 0.05 | 0.02 | 1.59 | 98.52 | 0.25 |
| N500125 | | 9.67 | 5.38 | 2.66 | 0.56 | 0.02 | 0.53 | 0.14 | 0.17 | 0.04 | 0.03 | 2.05 | 98.35 | 1.49 |
| N500126 | | 14.15 | 14.05 | 0.68 | 0.12 | 0.09 | 1.17 | 0.18 | 0.08 | 0.01 | <0.01 | 2.95 | 99.51 | 0.33 |
| N500127 | | 15.15 | 14.30 | 0.80 | 0.13 | 0.12 | 1.21 | 0.19 | 0.08 | 0.01 | <0.01 | 2.70 | 98.20 | 0.16 |
| N500128 | | 11.65 | 12.20 | 1.73 | 0.40 | 0.14 | 1.69 | 0.19 | 0.14 | 0.03 | 0.02 | 2.89 | 98.03 | 1.03 |
| N500129 | | 11.00 | 11.20 | 1.92 | 0.44 | 0.12 | 1.56 | 0.19 | 0.17 | 0.03 | 0.01 | 3.26 | 98.16 | 1.77 |
| N500130 | | 11.10 | 12.75 | 1.35 | 0.40 | 0.13 | 1.42 | 0.20 | 0.14 | 0.03 | 0.01 | 3.28 | 98.46 | 1.53 |
| N500131 | | 11.10 | 13.65 | 1.10 | 0.36 | 0.14 | 1.37 | 0.19 | 0.13 | 0.01 | 0.01 | 5.24 | 101.74 | 1.93 |
| N500132 | | 10.40 | 13.40 | 0.88 | 0.41 | 0.20 | 1.34 | 0.19 | 0.10 | 0.02 | 0.01 | 4.30 | 98.90 | 3.05 |
| N500133 | | 8.42 | 8.91 | 2.48 | 1.39 | 0.05 | 1.67 | 0.22 | 0.16 | 0.05 | 0.03 | 3.29 | 99.22 | 1.35 |
| N500134 | | 12.75 | 13.80 | 1.00 | 0.24 | 0.19 | 1.31 | 0.17 | 0.11 | 0.01 | 0.01 | 3.71 | 100.17 | 2.13 |
| N500135 | | 9.10 | 13.90 | 1.02 | 0.31 | 0.26 | 1.34 | 0.13 | 0.12 | 0.02 | 0.01 | 6.69 | 98.33 | 5.37 |
| N500136 | | 6.41 | 14.45 | 1.08 | 0.45 | 0.18 | 1.43 | 0.13 | 0.20 | 0.02 | 0.01 | 6.53 | 95.46 | 4.28 |
| N500137 | | 8.77 | 10.65 | 1.02 | 0.44 | 0.14 | 1.29 | 0.16 | 0.16 | 0.01 | 0.01 | 6.23 | 98.02 | 6.03 |
| N500138 | | 12.70 | 13.70 | 1.21 | 0.38 | 0.16 | 1.32 | 0.21 | 0.10 | 0.02 | 0.01 | 2.52 | 99.32 | 0.49 |

Comments: RUSH WORK ON TB13198935

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 25-NOV-2013
Account: HTXMIN

# CERTIFICATE OF ANALYSIS TB13198937

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
FND-02

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| | | | |
|---|---|---|---|
| ME-4ACD81 | ME-ICP06 | ME-MS81 | OA-GRA05 |
| S-IR08 | TOT-ICP06 | | |

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

# CERTIFICATE TB13201449

Project: 23

P.O. No.:

This report is for 91 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-NOV-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTX MINERALS WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-QC | Pulverizing QC Test |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| N500101 | | 1.41 | 37.8 | 72.3 | 160 | 0.15 | 5.61 | 3.81 | 2.22 | 22.8 | 5.42 | 6.3 | 1.26 | 33.3 | 0.76 | 23.3 |
| N500102 | | 2.67 | 225 | 75.0 | 1180 | 3.86 | 4.94 | 2.25 | 2.49 | 16.9 | 7.19 | 6.3 | 0.84 | 30.7 | 0.26 | 23.6 |
| N500103 | | 0.72 | 210 | 66.8 | 320 | 1.57 | 4.35 | 1.83 | 2.43 | 16.8 | 6.34 | 5.5 | 0.73 | 28.2 | 0.22 | 22.4 |
| N500104 | | 1.20 | 153.5 | 68.3 | 270 | 1.18 | 4.35 | 1.87 | 2.31 | 18.8 | 6.10 | 5.6 | 0.80 | 28.0 | 0.24 | 22.3 |
| N500105 | | 1.43 | 353 | 68.8 | 280 | 2.81 | 4.35 | 1.91 | 2.40 | 17.8 | 5.90 | 5.3 | 0.78 | 28.7 | 0.23 | 22.1 |
| N500140 | | 2.07 | 101.5 | 53.4 | 930 | 0.57 | 5.30 | 2.41 | 2.32 | 15.7 | 6.69 | 4.2 | 0.99 | 22.8 | 0.25 | 12.6 |
| N500141 | | 2.16 | 60.1 | 75.9 | 540 | 0.64 | 5.53 | 2.41 | 2.32 | 15.9 | 7.52 | 5.8 | 0.99 | 33.0 | 0.28 | 11.8 |
| N500142 | | 0.91 | 101.0 | 64.2 | 360 | 0.65 | 4.45 | 1.96 | 2.16 | 15.0 | 6.02 | 5.4 | 0.80 | 26.3 | 0.22 | 21.6 |
| N500143 | | 1.86 | 11.6 | 59.2 | 910 | 0.46 | 4.29 | 1.92 | 1.84 | 12.7 | 5.74 | 3.9 | 0.73 | 27.4 | 0.24 | 8.6 |
| N500144 | | 1.88 | 9.9 | 61.4 | 1310 | 0.31 | 4.89 | 2.07 | 2.00 | 11.3 | 6.14 | 3.1 | 0.81 | 27.4 | 0.28 | 6.7 |
| N500145 | | 2.81 | 40.5 | 41.2 | 760 | 0.44 | 3.99 | 1.66 | 1.75 | 12.9 | 5.37 | 3.9 | 0.72 | 16.5 | 0.22 | 10.9 |
| N500146 | | 1.92 | 29.6 | 36.0 | 920 | 0.40 | 3.28 | 1.38 | 1.62 | 10.9 | 4.70 | 3.5 | 0.61 | 14.5 | 0.19 | 9.6 |
| N500147 | | 2.46 | 49.4 | 44.2 | 1310 | 0.45 | 3.89 | 1.68 | 1.70 | 12.9 | 5.17 | 3.9 | 0.67 | 18.2 | 0.20 | 12.9 |
| N500148 | | 2.71 | 41.9 | 42.9 | 1350 | 0.47 | 3.79 | 1.54 | 1.84 | 13.4 | 4.87 | 4.2 | 0.68 | 17.7 | 0.22 | 11.6 |
| N500149 | | 2.67 | 113.0 | 49.5 | 340 | 0.95 | 3.75 | 1.73 | 1.94 | 18.3 | 5.03 | 6.2 | 0.70 | 20.9 | 0.22 | 19.9 |
| N500150 | | 1.33 | 73.1 | 79.5 | 620 | 0.89 | 4.70 | 2.16 | 2.19 | 16.2 | 6.25 | 5.0 | 0.84 | 35.5 | 0.27 | 17.0 |
| N500151 | | 0.80 | 114.0 | 56.4 | 100 | 0.81 | 4.43 | 1.95 | 1.91 | 16.0 | 6.06 | 6.5 | 0.82 | 22.8 | 0.26 | 22.6 |
| N500152 | | 1.77 | 117.0 | 51.2 | 360 | 1.08 | 2.73 | 1.14 | 1.36 | 15.2 | 3.61 | 4.7 | 0.48 | 23.6 | 0.17 | 12.9 |
| N500153 | | 1.78 | 42.2 | 54.5 | 220 | 0.74 | 3.21 | 1.49 | 1.62 | 14.3 | 4.36 | 5.7 | 0.58 | 24.3 | 0.21 | 16.0 |
| N500154 | | 2.66 | 120.5 | 44.8 | 480 | 0.58 | 3.15 | 1.35 | 1.61 | 12.1 | 4.58 | 3.9 | 0.58 | 19.0 | 0.19 | 13.1 |
| N500155 | | 2.11 | 360 | 53.6 | 980 | 0.60 | 4.01 | 1.59 | 1.99 | 15.4 | 5.70 | 4.7 | 0.73 | 21.8 | 0.21 | 16.4 |
| N500156 | | 2.07 | 420 | 67.3 | 580 | 1.32 | 4.79 | 1.98 | 2.45 | 17.5 | 6.76 | 5.6 | 0.82 | 27.4 | 0.22 | 20.6 |
| N500157 | | 2.27 | 332 | 62.7 | 680 | 1.42 | 4.28 | 1.81 | 2.17 | 16.6 | 6.04 | 5.4 | 0.73 | 25.4 | 0.23 | 19.3 |
| N500158 | | 0.11 | 262 | 25.3 | 150 | 0.22 | 3.50 | 1.86 | 1.41 | 18.6 | 3.64 | 2.3 | 0.71 | 11.3 | 0.27 | 3.1 |
| N500159 | | 2.28 | 324 | 66.9 | 640 | 1.54 | 4.45 | 1.94 | 2.28 | 16.5 | 6.47 | 5.8 | 0.83 | 27.1 | 0.21 | 19.7 |
| N500160 | | 2.65 | 316 | 65.7 | 660 | 1.43 | 4.54 | 2.05 | 2.41 | 16.3 | 6.62 | 5.5 | 0.83 | 26.5 | 0.23 | 20.1 |
| N500161 | | 2.48 | 302 | 63.7 | 680 | 1.38 | 4.53 | 1.79 | 2.34 | 15.8 | 6.25 | 5.5 | 0.73 | 25.9 | 0.21 | 19.3 |
| N500162 | | 2.18 | 315 | 63.6 | 700 | 1.64 | 4.33 | 1.87 | 2.39 | 16.2 | 5.66 | 5.3 | 0.75 | 25.3 | 0.21 | 18.6 |
| N500163 | | 2.28 | 404 | 60.6 | 760 | 1.14 | 4.32 | 1.70 | 2.14 | 16.1 | 6.08 | 5.2 | 0.77 | 24.4 | 0.22 | 18.0 |
| N500164 | | 2.23 | 362 | 60.6 | 930 | 0.84 | 4.18 | 1.76 | 2.18 | 14.7 | 5.85 | 5.3 | 0.71 | 24.7 | 0.19 | 17.7 |
| N500165 | | 2.53 | 452 | 64.8 | 650 | 1.19 | 4.39 | 1.87 | 2.34 | 16.0 | 6.27 | 5.5 | 0.74 | 25.9 | 0.24 | 19.0 |
| N500166 | | 2.31 | 474 | 60.8 | 730 | 1.22 | 4.18 | 1.95 | 2.26 | 15.8 | 5.75 | 5.1 | 0.76 | 24.4 | 0.22 | 18.0 |
| N500167 | | 2.27 | 471 | 58.9 | 780 | 1.01 | 3.99 | 1.77 | 2.19 | 15.3 | 5.64 | 5.0 | 0.74 | 23.6 | 0.19 | 17.7 |
| N500168 | | 2.35 | 165.5 | 43.9 | 1380 | 0.84 | 3.43 | 1.39 | 1.72 | 11.4 | 4.68 | 3.7 | 0.60 | 17.9 | 0.18 | 12.3 |
| N500169 | | 2.04 | 13.8 | 31.8 | 1530 | 0.47 | 2.67 | 1.04 | 1.18 | 11.2 | 3.69 | 2.8 | 0.45 | 12.5 | 0.12 | 8.6 |
| N500170 | | 2.29 | 19.8 | 42.7 | 1270 | 0.36 | 3.05 | 1.28 | 1.46 | 13.2 | 4.19 | 4.0 | 0.52 | 17.0 | 0.14 | 12.6 |
| N500171 | | 2.25 | 142.0 | 43.3 | 600 | 0.45 | 3.14 | 1.38 | 1.55 | 11.8 | 4.27 | 4.0 | 0.55 | 17.5 | 0.17 | 13.5 |
| N500172 | | 2.43 | 213 | 53.3 | 820 | 0.24 | 3.63 | 1.65 | 1.85 | 12.6 | 5.07 | 4.4 | 0.64 | 22.4 | 0.18 | 16.1 |
| N500173 | | 2.20 | 78.7 | 51.9 | 910 | 0.30 | 3.49 | 1.59 | 1.90 | 15.3 | 4.89 | 4.1 | 0.64 | 21.9 | 0.18 | 16.9 |
| N500174 | | 2.15 | 39.9 | 32.0 | 1610 | 0.38 | 2.78 | 1.13 | 1.22 | 11.5 | 3.66 | 3.0 | 0.46 | 12.9 | 0.15 | 9.9 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| N500101 | | 36.7 | 8.98 | 5.5 | 6.35 | 2 | 119.5 | 1.5 | 0.86 | 4.36 | <0.5 | 0.62 | 2.80 | 269 | 2 | 35.7 |
| N500102 | | 45.2 | 10.50 | 13.3 | 8.75 | 2 | 385 | 1.6 | 0.96 | 2.40 | <0.5 | 0.29 | 1.33 | 303 | <1 | 22.0 |
| N500103 | | 39.8 | 9.05 | 11.8 | 7.69 | 2 | 427 | 1.5 | 0.77 | 2.43 | <0.5 | 0.26 | 0.76 | 283 | 1 | 19.1 |
| N500104 | | 40.5 | 9.33 | 18.3 | 7.96 | 2 | 528 | 1.5 | 0.87 | 2.83 | <0.5 | 0.26 | 0.99 | 279 | 1 | 19.6 |
| N500105 | | 40.8 | 9.54 | 19.3 | 7.66 | 2 | 472 | 1.4 | 0.83 | 2.42 | <0.5 | 0.28 | 0.86 | 278 | <1 | 19.1 |
| N500140 | | 32.8 | 7.36 | 8.4 | 7.39 | 1 | 126.0 | 0.8 | 0.96 | 1.77 | <0.5 | 0.30 | 0.76 | 293 | 2 | 26.7 |
| N500141 | | 43.2 | 10.10 | 5.8 | 9.12 | 2 | 211 | 0.7 | 1.03 | 2.93 | <0.5 | 0.31 | 0.98 | 268 | 2 | 25.8 |
| N500142 | | 37.6 | 8.60 | 8.9 | 7.42 | 2 | 128.5 | 1.4 | 0.85 | 2.38 | <0.5 | 0.25 | 0.73 | 299 | 1 | 20.1 |
| N500143 | | 32.7 | 7.61 | 0.8 | 6.25 | 2 | 135.0 | 0.5 | 0.71 | 4.25 | <0.5 | 0.26 | 1.04 | 225 | 2 | 19.6 |
| N500144 | | 36.8 | 8.45 | 0.8 | 7.35 | 2 | 155.0 | 0.5 | 0.87 | 2.96 | <0.5 | 0.28 | 0.93 | 258 | 2 | 22.0 |
| N500145 | | 27.9 | 6.08 | 4.2 | 6.42 | 1 | 104.0 | 0.7 | 0.76 | 1.55 | <0.5 | 0.21 | 0.45 | 266 | 1 | 17.4 |
| N500146 | | 24.7 | 5.25 | 3.5 | 5.43 | 1 | 157.5 | 0.6 | 0.67 | 1.41 | <0.5 | 0.20 | 0.57 | 251 | 1 | 14.9 |
| N500147 | | 27.9 | 6.31 | 5.6 | 5.95 | 1 | 209 | 0.8 | 0.69 | 1.87 | <0.5 | 0.23 | 0.63 | 246 | 1 | 16.9 |
| N500148 | | 26.8 | 5.71 | 6.0 | 6.06 | 1 | 171.5 | 0.6 | 0.73 | 1.75 | <0.5 | 0.21 | 0.56 | 248 | 1 | 17.1 |
| N500149 | | 28.1 | 6.46 | 12.0 | 6.43 | 3 | 97.5 | 1.3 | 0.73 | 3.61 | <0.5 | 0.24 | 1.17 | 287 | 1 | 18.6 |
| N500150 | | 39.4 | 9.73 | 11.4 | 8.12 | 9 | 211 | 0.9 | 0.89 | 6.18 | <0.5 | 0.28 | 2.38 | 192 | 4 | 23.4 |
| N500151 | | 33.5 | 7.80 | 10.8 | 6.99 | 3 | 93.8 | 1.5 | 0.77 | 3.45 | <0.5 | 0.25 | 1.13 | 277 | 1 | 19.8 |
| N500152 | | 27.3 | 6.69 | 20.0 | 5.04 | 5 | 344 | 0.8 | 0.49 | 2.70 | <0.5 | 0.20 | 1.51 | 149 | 2 | 12.8 |
| N500153 | | 30.3 | 7.13 | 4.6 | 5.61 | 6 | 90.6 | 1.0 | 0.62 | 4.39 | <0.5 | 0.22 | 1.69 | 184 | 3 | 15.9 |
| N500154 | | 27.7 | 6.28 | 12.7 | 5.46 | 3 | 121.0 | 0.9 | 0.62 | 2.35 | <0.5 | 0.20 | 0.85 | 169 | 2 | 14.5 |
| N500155 | | 33.7 | 7.79 | 25.6 | 6.90 | 1 | 214 | 1.0 | 0.76 | 1.77 | <0.5 | 0.23 | 0.53 | 265 | <1 | 17.0 |
| N500156 | | 40.3 | 9.12 | 30.0 | 8.39 | 2 | 297 | 1.2 | 0.86 | 2.23 | <0.5 | 0.24 | 0.72 | 295 | <1 | 20.6 |
| N500157 | | 38.9 | 8.95 | 24.0 | 7.78 | 2 | 302 | 1.2 | 0.83 | 2.02 | <0.5 | 0.23 | 0.67 | 289 | <1 | 18.7 |
| N500158 | | 15.1 | 3.25 | 14.4 | 3.77 | 1 | 354 | 0.1 | 0.57 | 1.73 | <0.5 | 0.26 | 0.32 | 105 | 3 | 18.9 |
| N500159 | | 39.1 | 9.05 | 23.2 | 8.45 | 2 | 309 | 1.2 | 0.89 | 2.23 | <0.5 | 0.25 | 0.66 | 275 | <1 | 19.7 |
| N500160 | | 38.7 | 9.02 | 23.1 | 8.06 | 1 | 286 | 1.1 | 0.94 | 2.20 | <0.5 | 0.24 | 0.64 | 281 | <1 | 19.8 |
| N500161 | | 38.6 | 8.74 | 23.6 | 7.63 | 1 | 310 | 1.1 | 0.82 | 2.14 | <0.5 | 0.24 | 0.61 | 286 | <1 | 19.4 |
| N500162 | | 37.3 | 8.47 | 24.3 | 7.94 | 1 | 309 | 1.1 | 0.83 | 2.17 | <0.5 | 0.26 | 0.64 | 287 | 1 | 19.1 |
| N500163 | | 38.1 | 8.73 | 28.3 | 7.51 | 1 | 247 | 1.2 | 0.83 | 2.03 | <0.5 | 0.22 | 0.63 | 290 | 1 | 18.6 |
| N500164 | | 35.5 | 8.21 | 29.5 | 7.82 | 2 | 205 | 1.0 | 0.78 | 2.15 | <0.5 | 0.21 | 0.64 | 263 | 1 | 18.4 |
| N500165 | | 38.3 | 8.75 | 31.4 | 8.07 | 2 | 311 | 1.2 | 0.86 | 2.20 | <0.5 | 0.24 | 0.67 | 285 | <1 | 19.8 |
| N500166 | | 35.8 | 7.88 | 31.0 | 7.67 | 1 | 302 | 1.1 | 0.81 | 2.14 | <0.5 | 0.21 | 0.64 | 284 | <1 | 18.7 |
| N500167 | | 35.9 | 7.94 | 30.5 | 7.54 | 1 | 267 | 1.0 | 0.81 | 2.02 | <0.5 | 0.20 | 0.60 | 278 | <1 | 18.6 |
| N500168 | | 28.5 | 6.41 | 13.5 | 6.10 | 1 | 165.5 | 0.8 | 0.63 | 1.31 | <0.5 | 0.19 | 0.43 | 241 | <1 | 14.3 |
| N500169 | | 20.4 | 4.40 | 3.0 | 4.45 | 1 | 66.0 | 0.5 | 0.53 | 1.01 | <0.5 | 0.13 | 0.30 | 192 | 1 | 11.3 |
| N500170 | | 26.2 | 5.79 | 2.6 | 5.54 | 1 | 62.7 | 0.7 | 0.59 | 1.49 | <0.5 | 0.16 | 0.47 | 209 | 1 | 13.7 |
| N500171 | | 25.2 | 5.81 | 17.9 | 5.51 | 1 | 202 | 0.8 | 0.65 | 2.07 | <0.5 | 0.19 | 0.69 | 185 | 2 | 14.5 |
| N500172 | | 30.4 | 7.14 | 16.6 | 6.74 | 2 | 174.0 | 1.0 | 0.70 | 2.15 | <0.5 | 0.19 | 0.79 | 251 | 1 | 16.8 |
| N500173 | | 29.8 | 6.91 | 11.2 | 6.09 | 3 | 121.5 | 0.9 | 0.67 | 2.45 | <0.5 | 0.18 | 0.87 | 227 | 3 | 16.5 |
| N500174 | | 19.6 | 4.35 | 6.6 | 4.27 | 3 | 75.1 | 0.6 | 0.46 | 1.62 | <0.5 | 0.15 | 0.60 | 182 | 2 | 12.5 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| N500101 | | 4.41 | 243 | 59.3 | 15.15 | 6.72 | 0.99 | 5.86 | 5.63 | 0.25 | 0.02 | 2.29 | 0.08 | 0.28 | 0.01 | <0.01 |
| N500102 | | 1.73 | 240 | 47.3 | 9.16 | 13.15 | 7.42 | 10.05 | 1.65 | 0.53 | 0.15 | 2.47 | 0.18 | 0.24 | 0.04 | 0.03 |
| N500103 | | 1.59 | 210 | 48.8 | 10.80 | 13.20 | 7.93 | 6.90 | 3.48 | 0.37 | 0.04 | 2.21 | 0.26 | 0.24 | 0.05 | 0.02 |
| N500104 | | 1.54 | 215 | 49.9 | 11.75 | 12.20 | 6.87 | 6.18 | 3.97 | 0.59 | 0.03 | 2.13 | 0.17 | 0.25 | 0.06 | 0.02 |
| N500105 | | 1.52 | 206 | 50.0 | 10.95 | 12.90 | 8.55 | 7.43 | 2.77 | 0.71 | 0.04 | 2.19 | 0.23 | 0.25 | 0.05 | 0.04 |
| N500140 | | 1.68 | 150 | 50.9 | 8.34 | 10.95 | 8.20 | 9.97 | 1.41 | 0.38 | 0.12 | 1.98 | 0.15 | 0.19 | 0.02 | 0.01 |
| N500141 | | 1.94 | 188 | 50.0 | 8.39 | 13.45 | 6.16 | 11.25 | 1.12 | 0.24 | 0.07 | 1.81 | 0.14 | 0.18 | 0.03 | 0.01 |
| N500142 | | 1.52 | 205 | 49.5 | 9.91 | 12.65 | 5.66 | 11.30 | 2.17 | 0.44 | 0.05 | 2.21 | 0.14 | 0.24 | 0.02 | 0.01 |
| N500143 | | 1.58 | 141 | 49.0 | 6.49 | 11.45 | 9.76 | 12.10 | 0.20 | 0.01 | 0.12 | 1.38 | 0.19 | 0.13 | 0.02 | <0.01 |
| N500144 | | 1.73 | 101 | 44.2 | 5.84 | 13.25 | 12.75 | 11.80 | 0.20 | 0.02 | 0.17 | 1.44 | 0.21 | 0.11 | 0.02 | <0.01 |
| N500145 | | 1.45 | 140 | 47.2 | 6.87 | 12.25 | 10.10 | 12.55 | 0.78 | 0.18 | 0.09 | 1.67 | 0.18 | 0.16 | 0.01 | <0.01 |
| N500146 | | 1.03 | 119 | 51.6 | 6.16 | 11.95 | 10.10 | 12.85 | 0.61 | 0.15 | 0.12 | 1.59 | 0.18 | 0.15 | 0.02 | <0.01 |
| N500147 | | 1.29 | 140 | 50.5 | 7.45 | 11.45 | 10.40 | 12.65 | 1.35 | 0.25 | 0.17 | 1.70 | 0.16 | 0.15 | 0.03 | 0.01 |
| N500148 | | 1.34 | 144 | 47.6 | 7.23 | 11.95 | 11.00 | 13.30 | 0.84 | 0.28 | 0.18 | 1.65 | 0.18 | 0.17 | 0.02 | <0.01 |
| N500149 | | 1.40 | 220 | 47.5 | 10.65 | 13.95 | 4.78 | 11.05 | 1.91 | 0.48 | 0.04 | 2.18 | 0.15 | 0.19 | 0.01 | 0.01 |
| N500150 | | 1.81 | 171 | 52.1 | 9.08 | 13.70 | 4.61 | 9.47 | 1.26 | 0.54 | 0.08 | 1.73 | 0.13 | 0.21 | 0.02 | 0.01 |
| N500151 | | 1.64 | 232 | 55.5 | 12.30 | 11.25 | 3.01 | 8.47 | 3.64 | 0.48 | 0.01 | 2.18 | 0.11 | 0.26 | 0.01 | 0.01 |
| N500152 | | 1.07 | 148 | 64.1 | 8.48 | 10.80 | 2.30 | 7.21 | 0.99 | 0.96 | 0.05 | 1.31 | 0.10 | 0.16 | 0.05 | 0.01 |
| N500153 | | 1.45 | 199 | 62.7 | 9.24 | 8.97 | 1.87 | 6.79 | 2.65 | 0.20 | 0.03 | 1.54 | 0.09 | 0.18 | 0.01 | <0.01 |
| N500154 | | 1.15 | 142 | 61.5 | 6.99 | 8.78 | 5.71 | 7.52 | 1.73 | 0.59 | 0.06 | 1.36 | 0.12 | 0.18 | 0.01 | 0.01 |
| N500155 | | 1.29 | 171 | 49.1 | 8.48 | 11.65 | 10.50 | 10.85 | 2.05 | 1.00 | 0.12 | 1.86 | 0.31 | 0.19 | 0.02 | 0.04 |
| N500156 | | 1.61 | 213 | 50.2 | 9.67 | 13.20 | 9.48 | 9.54 | 2.57 | 1.08 | 0.08 | 2.12 | 0.36 | 0.22 | 0.03 | 0.04 |
| N500157 | | 1.32 | 195 | 49.5 | 9.65 | 13.25 | 8.93 | 9.74 | 2.74 | 0.85 | 0.08 | 2.15 | 0.35 | 0.22 | 0.04 | 0.04 |
| N500158 | | 1.60 | 89 | 47.1 | 18.80 | 10.85 | 9.70 | 5.47 | 2.55 | 0.56 | 0.02 | 0.55 | 0.15 | 0.18 | 0.04 | 0.03 |
| N500159 | | 1.46 | 210 | 49.5 | 9.66 | 13.20 | 9.56 | 9.80 | 2.67 | 0.86 | 0.09 | 2.17 | 0.35 | 0.22 | 0.04 | 0.04 |
| N500160 | | 1.51 | 205 | 49.5 | 9.54 | 13.25 | 9.65 | 9.84 | 2.69 | 0.88 | 0.09 | 2.20 | 0.34 | 0.24 | 0.03 | 0.04 |
| N500161 | | 1.40 | 201 | 49.7 | 9.53 | 13.35 | 9.82 | 10.05 | 2.61 | 0.92 | 0.09 | 2.15 | 0.33 | 0.22 | 0.03 | 0.03 |
| N500162 | | 1.40 | 198 | 48.7 | 9.20 | 13.10 | 9.54 | 9.92 | 2.47 | 0.91 | 0.09 | 1.99 | 0.31 | 0.21 | 0.03 | 0.03 |
| N500163 | | 1.30 | 195 | 49.5 | 9.20 | 13.30 | 9.26 | 10.65 | 2.51 | 0.95 | 0.10 | 2.05 | 0.38 | 0.21 | 0.03 | 0.05 |
| N500164 | | 1.30 | 197 | 50.9 | 8.86 | 12.25 | 10.70 | 10.75 | 2.34 | 1.12 | 0.12 | 1.98 | 0.36 | 0.21 | 0.02 | 0.04 |
| N500165 | | 1.41 | 203 | 49.7 | 9.49 | 13.15 | 9.32 | 9.75 | 2.56 | 1.08 | 0.08 | 2.05 | 0.34 | 0.21 | 0.03 | 0.05 |
| N500166 | | 1.46 | 188 | 49.8 | 9.32 | 13.30 | 10.05 | 10.25 | 2.45 | 1.06 | 0.10 | 2.15 | 0.34 | 0.21 | 0.03 | 0.05 |
| N500167 | | 1.28 | 195 | 50.2 | 9.19 | 13.05 | 10.35 | 10.35 | 2.33 | 1.14 | 0.11 | 2.14 | 0.35 | 0.21 | 0.03 | 0.05 |
| N500168 | | 1.12 | 142 | 48.2 | 6.75 | 12.80 | 11.10 | 14.30 | 1.66 | 0.42 | 0.18 | 1.57 | 0.31 | 0.15 | 0.02 | 0.02 |
| N500169 | | 0.85 | 99 | 40.8 | 5.04 | 13.65 | 16.95 | 14.10 | 0.30 | 0.10 | 0.21 | 1.26 | 0.28 | 0.09 | <0.01 | <0.01 |
| N500170 | | 1.03 | 138 | 43.3 | 6.64 | 14.70 | 12.35 | 14.15 | 0.64 | 0.14 | 0.17 | 1.58 | 0.33 | 0.14 | <0.01 | <0.01 |
| N500171 | | 1.08 | 148 | 58.5 | 7.05 | 10.05 | 8.39 | 9.27 | 1.62 | 0.87 | 0.08 | 1.42 | 0.19 | 0.17 | 0.02 | 0.02 |
| N500172 | | 1.14 | 156 | 52.1 | 8.12 | 11.20 | 10.70 | 10.25 | 2.57 | 0.84 | 0.11 | 1.71 | 0.17 | 0.18 | 0.02 | 0.02 |
| N500173 | | 1.21 | 152 | 48.6 | 8.52 | 12.95 | 9.47 | 11.05 | 2.38 | 0.58 | 0.12 | 1.68 | 0.19 | 0.20 | 0.01 | 0.01 |
| N500174 | | 0.95 | 111 | 47.2 | 6.21 | 13.35 | 12.15 | 12.65 | 1.21 | 0.31 | 0.21 | 1.27 | 0.22 | 0.14 | 0.01 | <0.01 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| N500101 | | 3.97 | 100.55 | <0.5 | <5 | <0.5 | 17 | 1590 | 50 | 1 | 41 | 3 | 23 | 43 | <0.001 | 0.007 |
| N500102 | | 6.65 | 99.02 | <0.5 | <5 | 0.5 | 62 | 160 | 100 | 1 | 306 | 9 | 28 | 103 | 0.003 | 0.020 |
| N500103 | | 4.88 | 99.18 | 1.0 | <5 | 0.6 | 48 | 150 | 120 | 1 | 89 | 88 | 27 | 154 | 0.003 | 0.013 |
| N500104 | | 5.04 | 99.16 | <0.5 | <5 | 0.7 | 42 | 74 | 110 | 1 | 46 | 6 | 23 | 92 | 0.001 | 0.006 |
| N500105 | | 4.96 | 101.07 | 1.1 | <5 | 0.7 | 45 | 141 | 130 | 1 | 75 | 13 | 25 | 95 | 0.002 | 0.010 |
| N500140 | | 7.29 | 99.91 | <0.5 | <5 | <0.5 | 50 | 625 | 70 | 1 | 244 | <2 | 36 | 79 | 0.026 | 0.224 |
| N500141 | | 5.93 | 98.78 | <0.5 | <5 | 0.6 | 63 | 408 | 60 | <1 | 252 | 5 | 38 | 86 | 0.026 | 0.489 |
| N500142 | | 5.71 | 100.01 | <0.5 | <5 | 0.6 | 35 | 38 | 60 | <1 | 105 | 4 | 29 | 84 | 0.002 | 0.048 |
| N500143 | | 8.52 | 99.37 | <0.5 | <5 | 0.5 | 57 | 562 | 60 | <1 | 269 | 4 | 42 | 92 | 0.023 | 0.262 |
| N500144 | | 8.28 | 98.29 | <0.5 | <5 | 0.6 | 75 | 220 | 60 | <1 | 303 | 5 | 49 | 95 | 0.025 | 0.276 |
| N500145 | | 6.14 | 98.18 | <0.5 | <5 | 0.6 | 62 | 486 | 50 | <1 | 257 | 4 | 47 | 93 | 0.022 | 0.412 |
| N500146 | | 5.20 | 100.68 | <0.5 | <5 | 0.6 | 58 | 792 | 50 | <1 | 276 | 2 | 41 | 83 | 0.028 | 0.201 |
| N500147 | | 4.97 | 101.24 | <0.5 | <5 | 0.5 | 52 | 494 | 40 | <1 | 286 | <2 | 39 | 86 | 0.031 | 1.085 |
| N500148 | | 6.86 | 101.26 | <0.5 | <5 | <0.5 | 53 | 425 | 60 | 1 | 266 | 5 | 43 | 84 | 0.028 | 0.648 |
| N500149 | | 6.18 | 99.08 | <0.5 | <5 | <0.5 | 53 | 278 | 70 | 3 | 137 | 4 | 32 | 89 | 0.008 | 0.247 |
| N500150 | | 6.68 | 99.62 | <0.5 | 5 | <0.5 | 54 | 393 | 60 | 2 | 201 | 7 | 28 | 79 | 0.011 | 0.232 |
| N500151 | | 4.47 | 101.70 | <0.5 | <5 | <0.5 | 35 | 14 | 50 | 1 | 50 | 4 | 24 | 77 | <0.001 | 0.015 |
| N500152 | | 5.14 | 101.66 | <0.5 | <5 | <0.5 | 39 | 146 | 50 | 1 | 116 | 3 | 17 | 66 | 0.007 | 0.135 |
| N500153 | | 4.64 | 98.91 | <0.5 | <5 | <0.5 | 33 | 151 | 50 | 1 | 94 | 4 | 23 | 61 | 0.001 | 0.279 |
| N500154 | | 3.92 | 98.48 | <0.5 | <5 | <0.5 | 35 | 258 | 30 | 1 | 110 | <2 | 21 | 62 | 0.003 | 0.135 |
| N500155 | | 2.91 | 99.08 | <0.5 | <5 | <0.5 | 51 | 277 | 30 | <1 | 159 | 4 | 33 | 89 | 0.008 | 0.080 |
| N500156 | | 2.46 | 101.05 | <0.5 | <5 | <0.5 | 54 | 165 | 30 | 2 | 140 | 12 | 29 | 99 | 0.003 | 0.015 |
| N500157 | | 2.23 | 99.77 | <0.5 | <5 | 0.6 | 57 | 151 | 30 | 1 | 164 | 8 | 28 | 108 | 0.003 | 0.023 |
| N500158 | | 2.01 | 98.01 | 0.5 | <5 | <0.5 | 82 | 2460 | 10 | 2 | 2220 | 13 | 14 | 89 | 0.046 | 0.046 |
| N500159 | | 2.46 | 100.62 | <0.5 | <5 | 0.5 | 59 | 149 | 40 | 2 | 170 | 8 | 28 | 112 | 0.003 | 0.024 |
| N500160 | | 2.50 | 100.79 | <0.5 | <5 | <0.5 | 57 | 146 | 40 | 2 | 160 | 8 | 28 | 105 | 0.002 | 0.017 |
| N500161 | | 2.63 | 101.46 | <0.5 | <5 | <0.5 | 61 | 210 | 40 | 1 | 169 | 8 | 29 | 107 | 0.003 | 0.023 |
| N500162 | | 2.54 | 99.04 | <0.5 | <5 | <0.5 | 60 | 157 | 40 | 2 | 165 | 6 | 28 | 104 | 0.003 | 0.017 |
| N500163 | | 2.35 | 100.54 | <0.5 | <5 | 0.5 | 59 | 164 | 30 | <1 | 182 | 9 | 30 | 110 | 0.003 | 0.018 |
| N500164 | | 2.33 | 101.98 | <0.5 | <5 | <0.5 | 56 | 442 | 30 | 2 | 203 | 9 | 32 | 95 | 0.017 | 0.393 |
| N500165 | | 2.54 | 100.35 | <0.5 | <5 | <0.5 | 61 | 143 | 40 | 1 | 159 | 10 | 29 | 113 | 0.002 | 0.018 |
| N500166 | | 2.38 | 101.49 | <0.5 | <5 | 0.5 | 61 | 161 | 40 | 2 | 171 | 10 | 30 | 109 | 0.002 | 0.018 |
| N500167 | | 2.41 | 101.91 | <0.5 | <5 | <0.5 | 60 | 178 | 30 | 1 | 173 | 10 | 31 | 102 | 0.004 | 0.018 |
| N500168 | | 2.88 | 100.36 | <0.5 | <5 | 0.6 | 69 | 271 | 40 | <1 | 291 | 7 | 34 | 101 | 0.010 | 0.066 |
| N500169 | | 8.92 | 101.70 | <0.5 | <5 | <0.5 | 80 | 557 | 60 | 2 | 481 | 13 | 33 | 94 | 0.035 | 0.213 |
| N500170 | | 7.30 | 101.44 | <0.5 | <5 | <0.5 | 82 | 374 | 60 | <1 | 400 | 9 | 30 | 118 | 0.008 | 0.072 |
| N500171 | | 3.12 | 100.77 | <0.5 | <5 | <0.5 | 55 | 991 | 40 | 1 | 313 | 6 | 25 | 82 | 0.050 | 0.420 |
| N500172 | | 2.86 | 100.85 | <0.5 | <5 | <0.5 | 62 | 544 | 40 | 2 | 284 | 3 | 32 | 75 | 0.019 | 0.229 |
| N500173 | | 3.93 | 99.69 | 1.6 | <5 | <0.5 | 90 | 1745 | 50 | 3 | 654 | 33 | 29 | 107 | 0.064 | 0.955 |
| N500174 | | 3.80 | 98.73 | <0.5 | 7 | <0.5 | 115 | 2130 | 50 | 1 | 969 | 10 | 32 | 84 | 0.145 | 2.53 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| N500101 | | 0.003 | 0.53 |
| N500102 | | 0.010 | 2.00 |
| N500103 | | 0.005 | 2.54 |
| N500104 | | 0.001 | 0.24 |
| N500105 | | 0.002 | 0.56 |
| N500140 | | 0.069 | 1.41 |
| N500141 | | 0.267 | 3.09 |
| N500142 | | 0.018 | 0.51 |
| N500143 | | 0.087 | 2.20 |
| N500144 | | 0.092 | 2.47 |
| N500145 | | 0.153 | 1.44 |
| N500146 | | 0.054 | 1.01 |
| N500147 | | 0.596 | 0.42 |
| N500148 | | 0.336 | 0.76 |
| N500149 | | 0.132 | 2.34 |
| N500150 | | 0.075 | 3.52 |
| N500151 | | 0.007 | 0.71 |
| N500152 | | 0.051 | 2.43 |
| N500153 | | 0.140 | 2.32 |
| N500154 | | 0.079 | 0.94 |
| N500155 | | 0.052 | 0.26 |
| N500156 | | 0.009 | 0.13 |
| N500157 | | 0.009 | 0.12 |
| N500158 | | 0.067 | 1.47 |
| N500159 | | 0.009 | 0.10 |
| N500160 | | 0.008 | 0.14 |
| N500161 | | 0.016 | 0.14 |
| N500162 | | 0.008 | 0.12 |
| N500163 | | 0.012 | 0.12 |
| N500164 | | 0.230 | 0.14 |
| N500165 | | 0.008 | 0.13 |
| N500166 | | 0.011 | 0.12 |
| N500167 | | 0.010 | 0.14 |
| N500168 | | 0.046 | 0.14 |
| N500169 | | 0.149 | 0.30 |
| N500170 | | 0.051 | 0.22 |
| N500171 | | 0.167 | 0.43 |
| N500172 | | 0.084 | 0.51 |
| N500173 | | 0.503 | 1.17 |
| N500174 | | 1.190 | 1.99 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| N500175 | | 2.23 | 60.5 | 29.4 | 870 | 0.28 | 2.75 | 1.24 | 1.38 | 9.8 | 3.60 | 2.6 | 0.48 | 12.0 | 0.13 | 9.0 |
| N500176 | | 2.29 | 30.0 | 26.2 | 700 | 0.25 | 2.27 | 1.01 | 1.09 | 8.8 | 3.03 | 2.1 | 0.40 | 10.9 | 0.12 | 7.5 |
| N500177 | | 0.54 | 707 | 71.2 | 130 | 0.41 | 3.52 | 1.85 | 1.32 | 19.8 | 4.19 | 4.0 | 0.70 | 35.0 | 0.29 | 7.7 |
| N500178 | | 1.54 | 178.5 | 54.9 | 1050 | 1.02 | 3.69 | 1.56 | 1.95 | 14.1 | 5.29 | 4.7 | 0.65 | 22.9 | 0.18 | 16.1 |
| N500179 | | 3.49 | 174.5 | 60.2 | 600 | 1.13 | 4.22 | 1.69 | 2.22 | 15.9 | 5.89 | 5.2 | 0.74 | 24.1 | 0.21 | 17.5 |
| N500180 | | 3.69 | 181.5 | 61.8 | 680 | 1.14 | 4.22 | 1.78 | 2.17 | 15.3 | 5.86 | 5.0 | 0.79 | 24.7 | 0.22 | 18.3 |
| N500181 | | 3.38 | 262 | 60.6 | 670 | 1.04 | 4.15 | 1.73 | 2.20 | 15.6 | 5.81 | 5.1 | 0.71 | 24.5 | 0.19 | 18.3 |
| N500182 | | 3.44 | 258 | 59.9 | 640 | 1.10 | 4.15 | 1.81 | 2.11 | 15.4 | 5.65 | 5.4 | 0.72 | 24.3 | 0.19 | 18.2 |
| N500183 | | 3.42 | 198.0 | 57.0 | 680 | 1.16 | 3.86 | 1.65 | 2.20 | 15.6 | 5.68 | 4.9 | 0.71 | 23.0 | 0.18 | 17.5 |
| N500184 | | 3.45 | 207 | 66.4 | 650 | 1.16 | 4.30 | 1.71 | 2.17 | 16.3 | 5.72 | 5.9 | 0.72 | 27.5 | 0.20 | 19.9 |
| N500185 | | 3.39 | 254 | 80.4 | 570 | 1.01 | 4.49 | 1.84 | 2.28 | 17.3 | 6.06 | 6.9 | 0.76 | 33.9 | 0.26 | 24.0 |
| N500186 | | 3.61 | 219 | 57.0 | 770 | 0.98 | 4.04 | 1.65 | 2.11 | 15.7 | 5.93 | 4.9 | 0.72 | 23.2 | 0.21 | 17.5 |
| N500187 | | 3.57 | 231 | 64.4 | 750 | 1.07 | 4.13 | 1.89 | 2.23 | 16.0 | 5.82 | 5.3 | 0.73 | 25.7 | 0.20 | 18.6 |
| N500188 | | 3.38 | 239 | 63.9 | 790 | 1.09 | 4.33 | 1.88 | 2.17 | 15.5 | 5.99 | 5.5 | 0.73 | 25.8 | 0.22 | 18.8 |
| N500189 | | 3.23 | 286 | 64.2 | 730 | 1.01 | 4.19 | 1.75 | 2.30 | 15.9 | 6.15 | 5.4 | 0.77 | 25.9 | 0.20 | 18.4 |
| N500190 | | 3.60 | 247 | 66.0 | 750 | 0.88 | 4.32 | 1.85 | 2.36 | 15.9 | 6.19 | 5.4 | 0.81 | 27.0 | 0.22 | 18.8 |
| N500191 | | 3.63 | 110.5 | 58.6 | 790 | 0.55 | 4.01 | 1.91 | 2.25 | 15.6 | 5.76 | 4.7 | 0.71 | 24.6 | 0.21 | 17.0 |
| N500192 | | 3.65 | 169.0 | 61.4 | 770 | 0.94 | 4.20 | 1.75 | 2.15 | 15.8 | 5.92 | 5.2 | 0.76 | 25.1 | 0.21 | 18.3 |
| N500193 | | 3.42 | 236 | 59.3 | 770 | 1.03 | 4.04 | 1.63 | 2.05 | 15.0 | 5.82 | 5.2 | 0.72 | 23.7 | 0.18 | 17.3 |
| N500194 | | 3.47 | 145.0 | 46.0 | 1500 | 1.32 | 3.28 | 1.45 | 1.69 | 11.4 | 4.58 | 3.8 | 0.59 | 18.6 | 0.14 | 13.2 |
| N500195 | | 3.55 | 14.1 | 26.4 | 1760 | 0.32 | 2.58 | 1.07 | 1.30 | 8.0 | 3.57 | 2.2 | 0.43 | 9.9 | 0.09 | 6.5 |
| N500196 | | 3.37 | 6.8 | 25.7 | 1360 | 0.18 | 2.45 | 1.07 | 1.19 | 8.6 | 3.44 | 2.5 | 0.45 | 9.9 | 0.11 | 6.8 |
| N500197 | | 0.10 | 247 | 25.0 | 150 | 0.25 | 3.66 | 2.08 | 1.39 | 18.2 | 3.81 | 2.6 | 0.70 | 11.5 | 0.25 | 3.0 |
| N500198 | | 3.88 | 12.5 | 36.3 | 860 | 0.23 | 2.95 | 1.27 | 1.52 | 10.7 | 4.30 | 3.2 | 0.50 | 14.4 | 0.15 | 10.1 |
| N500199 | | 3.61 | 12.8 | 35.3 | 760 | 0.19 | 3.02 | 1.36 | 1.45 | 10.1 | 4.12 | 3.0 | 0.53 | 14.1 | 0.14 | 9.8 |
| N500200 | | 3.64 | 27.3 | 45.5 | 710 | 0.23 | 3.61 | 1.51 | 1.68 | 11.3 | 5.28 | 3.7 | 0.61 | 18.3 | 0.18 | 13.3 |
| N500201 | | 3.35 | 27.2 | 46.1 | 710 | 0.29 | 3.43 | 1.48 | 1.65 | 11.7 | 4.88 | 3.7 | 0.63 | 18.9 | 0.17 | 13.9 |
| N500202 | | 3.40 | 52.0 | 47.3 | 830 | 0.17 | 3.40 | 1.47 | 1.66 | 13.5 | 4.77 | 4.2 | 0.63 | 19.8 | 0.18 | 15.3 |
| N500203 | | 3.62 | 112.0 | 37.2 | 720 | 0.42 | 2.87 | 1.21 | 1.50 | 12.4 | 4.14 | 3.1 | 0.56 | 15.3 | 0.16 | 11.1 |
| N500204 | | 3.42 | 121.5 | 30.8 | 670 | 0.65 | 2.55 | 1.04 | 1.38 | 13.3 | 3.64 | 2.8 | 0.48 | 12.5 | 0.14 | 9.1 |
| N500205 | | 3.49 | 178.0 | 25.9 | 700 | 0.71 | 2.50 | 0.92 | 1.30 | 13.0 | 3.44 | 2.3 | 0.42 | 10.4 | 0.11 | 7.4 |
| N500206 | | 3.14 | 116.0 | 103.0 | 340 | 0.24 | 4.35 | 1.91 | 2.36 | 19.8 | 6.40 | 8.5 | 0.78 | 46.9 | 0.24 | 26.8 |
| N500207 | | 3.32 | 301 | 90.0 | 330 | 0.28 | 3.97 | 1.76 | 2.33 | 18.8 | 5.62 | 7.8 | 0.72 | 41.1 | 0.22 | 25.1 |
| N500208 | | 3.54 | 248 | 104.0 | 530 | 0.85 | 3.40 | 1.36 | 1.63 | 16.1 | 4.55 | 4.9 | 0.62 | 22.0 | 0.15 | 14.2 |
| N500209 | | 3.62 | 147.5 | 68.4 | 660 | 0.63 | 3.40 | 1.32 | 1.67 | 14.7 | 4.56 | 4.0 | 0.58 | 20.0 | 0.17 | 13.8 |
| N500210 | | 3.30 | 52.4 | 39.4 | 770 | 0.44 | 3.19 | 1.42 | 1.71 | 13.5 | 4.45 | 3.0 | 0.61 | 16.2 | 0.15 | 12.4 |
| N500211 | | 3.33 | 46.2 | 36.3 | 740 | 0.37 | 3.10 | 1.28 | 1.60 | 12.6 | 4.19 | 3.0 | 0.57 | 14.7 | 0.16 | 11.8 |
| N500212 | | 3.48 | 58.9 | 37.7 | 750 | 0.33 | 3.05 | 1.32 | 1.59 | 13.6 | 4.48 | 2.9 | 0.55 | 15.2 | 0.15 | 13.2 |
| N500213 | | 3.45 | 68.7 | 45.2 | 680 | 0.32 | 3.62 | 1.44 | 1.81 | 13.5 | 4.97 | 3.6 | 0.59 | 18.8 | 0.18 | 14.4 |
| N500214 | | 3.44 | 82.1 | 48.1 | 680 | 0.35 | 3.75 | 1.51 | 1.87 | 13.9 | 5.12 | 3.8 | 0.66 | 19.4 | 0.19 | 16.9 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| N500175 | | 19.7 | 4.19 | 9.5 | 4.32 | 1 | 121.5 | 0.6 | 0.50 | 1.46 | <0.5 | 0.17 | 0.53 | 201 | 1 | 12.1 |
| N500176 | | 17.1 | 3.63 | 5.3 | 3.41 | 7 | 91.3 | 0.5 | 0.43 | 1.55 | <0.5 | 0.14 | 0.63 | 147 | 3 | 9.9 |
| N500177 | | 29.8 | 7.93 | 59.0 | 5.36 | 1 | 421 | 0.4 | 0.62 | 7.81 | <0.5 | 0.26 | 1.60 | 128 | <1 | 19.3 |
| N500178 | | 32.5 | 7.54 | 16.0 | 6.98 | 1 | 249 | 1.0 | 0.70 | 1.84 | <0.5 | 0.21 | 0.57 | 246 | <1 | 16.9 |
| N500179 | | 36.3 | 8.21 | 15.6 | 7.51 | 1 | 304 | 1.0 | 0.82 | 1.97 | <0.5 | 0.23 | 0.59 | 276 | <1 | 19.0 |
| N500180 | | 36.8 | 8.42 | 14.5 | 7.94 | 1 | 302 | 1.1 | 0.79 | 2.00 | <0.5 | 0.26 | 0.61 | 280 | <1 | 19.2 |
| N500181 | | 38.0 | 8.55 | 18.5 | 7.46 | 1 | 361 | 1.2 | 0.84 | 1.82 | <0.5 | 0.23 | 0.60 | 279 | <1 | 18.1 |
| N500182 | | 36.2 | 8.10 | 19.7 | 7.73 | 1 | 378 | 1.1 | 0.78 | 2.16 | <0.5 | 0.21 | 0.60 | 274 | <1 | 18.3 |
| N500183 | | 33.4 | 7.67 | 16.0 | 7.38 | 1 | 470 | 1.0 | 0.80 | 1.89 | <0.5 | 0.21 | 0.54 | 307 | <1 | 17.4 |
| N500184 | | 37.5 | 8.75 | 17.7 | 7.20 | 1 | 421 | 1.2 | 0.78 | 2.55 | <0.5 | 0.21 | 0.73 | 283 | <1 | 18.7 |
| N500185 | | 43.4 | 10.45 | 27.6 | 8.22 | 2 | 359 | 1.4 | 0.84 | 3.48 | <0.5 | 0.26 | 1.02 | 236 | 1 | 20.6 |
| N500186 | | 36.2 | 8.05 | 15.7 | 7.20 | 1 | 438 | 1.2 | 0.75 | 1.93 | <0.5 | 0.22 | 0.58 | 275 | <1 | 17.6 |
| N500187 | | 37.4 | 8.58 | 15.6 | 8.09 | 1 | 457 | 1.1 | 0.80 | 2.03 | <0.5 | 0.22 | 0.62 | 274 | <1 | 18.8 |
| N500188 | | 37.4 | 8.75 | 17.1 | 8.05 | 1 | 442 | 1.1 | 0.79 | 2.16 | <0.5 | 0.21 | 0.67 | 283 | <1 | 18.7 |
| N500189 | | 38.2 | 8.67 | 21.9 | 7.95 | 2 | 441 | 1.1 | 0.84 | 2.14 | <0.5 | 0.24 | 0.64 | 272 | <1 | 19.2 |
| N500190 | | 38.2 | 8.82 | 19.3 | 8.39 | 1 | 436 | 1.1 | 0.83 | 2.23 | <0.5 | 0.25 | 0.67 | 269 | <1 | 19.9 |
| N500191 | | 36.4 | 8.11 | 8.6 | 7.77 | 2 | 583 | 1.1 | 0.77 | 1.79 | <0.5 | 0.23 | 0.60 | 274 | 1 | 18.3 |
| N500192 | | 36.5 | 8.40 | 12.5 | 7.60 | 1 | 394 | 1.1 | 0.84 | 2.06 | <0.5 | 0.21 | 0.61 | 274 | <1 | 18.6 |
| N500193 | | 35.6 | 7.91 | 19.1 | 7.51 | 1 | 411 | 1.0 | 0.76 | 2.06 | <0.5 | 0.20 | 0.63 | 267 | <1 | 18.5 |
| N500194 | | 27.5 | 6.54 | 13.5 | 6.08 | 1 | 298 | 0.7 | 0.67 | 1.88 | <0.5 | 0.18 | 0.51 | 208 | <1 | 15.1 |
| N500195 | | 18.0 | 3.84 | 1.7 | 4.18 | 1 | 98.0 | 0.3 | 0.49 | 0.78 | <0.5 | 0.12 | 0.23 | 181 | <1 | 10.8 |
| N500196 | | 19.0 | 3.87 | 0.8 | 4.06 | 1 | 149.0 | 0.5 | 0.47 | 0.74 | <0.5 | 0.12 | 0.24 | 214 | <1 | 10.6 |
| N500197 | | 14.1 | 3.27 | 13.6 | 3.53 | 1 | 344 | 0.2 | 0.58 | 1.69 | <0.5 | 0.24 | 0.34 | 101 | 3 | 18.6 |
| N500198 | | 21.8 | 5.02 | 2.6 | 4.83 | 1 | 295 | 0.6 | 0.56 | 1.11 | <0.5 | 0.17 | 0.32 | 225 | <1 | 12.6 |
| N500199 | | 22.0 | 5.11 | 2.6 | 5.21 | 1 | 521 | 0.6 | 0.60 | 1.02 | <0.5 | 0.15 | 0.31 | 239 | <1 | 12.8 |
| N500200 | | 26.5 | 6.31 | 4.6 | 6.19 | 1 | 302 | 0.8 | 0.65 | 1.29 | <0.5 | 0.19 | 0.42 | 254 | <1 | 14.4 |
| N500201 | | 26.5 | 6.32 | 4.7 | 5.88 | 1 | 334 | 0.8 | 0.64 | 1.39 | <0.5 | 0.17 | 0.42 | 263 | <1 | 14.3 |
| N500202 | | 29.2 | 6.40 | 6.6 | 5.59 | 1 | 268 | 1.0 | 0.66 | 1.71 | <0.5 | 0.17 | 0.48 | 293 | <1 | 14.8 |
| N500203 | | 22.4 | 5.21 | 10.4 | 4.66 | 1 | 306 | 0.6 | 0.54 | 1.09 | <0.5 | 0.17 | 0.32 | 369 | <1 | 12.4 |
| N500204 | | 19.2 | 4.51 | 17.4 | 4.46 | 1 | 274 | 0.5 | 0.51 | 0.88 | <0.5 | 0.13 | 0.25 | 445 | <1 | 11.2 |
| N500205 | | 17.0 | 3.81 | 24.5 | 4.18 | 1 | 265 | 0.4 | 0.45 | 0.70 | <0.5 | 0.12 | 0.21 | 444 | <1 | 10.4 |
| N500206 | | 45.3 | 12.65 | 23.5 | 8.34 | 2 | 1630 | 1.6 | 0.84 | 4.55 | <0.5 | 0.25 | 1.31 | 240 | <1 | 19.3 |
| N500207 | | 44.6 | 11.30 | 32.1 | 7.48 | 2 | 1135 | 1.7 | 0.74 | 4.10 | <0.5 | 0.21 | 1.21 | 226 | <1 | 17.7 |
| N500208 | | 26.6 | 6.69 | 26.2 | 5.85 | 1 | 286 | 0.9 | 0.63 | 1.95 | <0.5 | 0.18 | 0.59 | 347 | 1 | 14.5 |
| N500209 | | 25.8 | 6.35 | 16.5 | 5.41 | 1 | 271 | 0.8 | 0.60 | 1.65 | <0.5 | 0.19 | 0.49 | 344 | <1 | 14.4 |
| N500210 | | 23.7 | 5.46 | 4.4 | 5.68 | 1 | 248 | 0.7 | 0.63 | 0.99 | <0.5 | 0.20 | 0.31 | 339 | <1 | 14.3 |
| N500211 | | 23.1 | 5.19 | 3.7 | 5.38 | 1 | 203 | 0.7 | 0.58 | 0.95 | <0.5 | 0.21 | 0.29 | 311 | <1 | 13.2 |
| N500212 | | 25.4 | 5.45 | 4.7 | 5.34 | 1 | 217 | 0.9 | 0.58 | 1.05 | <0.5 | 0.18 | 0.36 | 298 | <1 | 13.6 |
| N500213 | | 26.3 | 6.26 | 6.3 | 5.80 | 1 | 182.5 | 0.8 | 0.68 | 1.36 | <0.5 | 0.19 | 0.37 | 284 | <1 | 14.6 |
| N500214 | | 28.6 | 6.81 | 7.1 | 6.34 | 1 | 200 | 1.0 | 0.70 | 1.49 | <0.5 | 0.20 | 0.42 | 290 | <1 | 15.5 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| N500175 | | 1.00 | 98 | 55.6 | 5.69 | 10.10 | 10.70 | 10.20 | 1.58 | 0.44 | 0.11 | 1.14 | 0.15 | 0.12 | 0.02 | 0.01 |
| N500176 | | 0.76 | 80 | 64.2 | 4.71 | 8.07 | 8.20 | 8.54 | 1.23 | 0.23 | 0.09 | 0.93 | 0.12 | 0.10 | 0.01 | <0.01 |
| N500177 | | 1.80 | 154 | 60.3 | 16.15 | 7.10 | 6.09 | 3.95 | 3.46 | 1.82 | 0.02 | 0.64 | 0.12 | 0.15 | 0.05 | 0.08 |
| N500178 | | 1.10 | 172 | 49.1 | 8.96 | 11.50 | 9.64 | 11.00 | 2.36 | 0.54 | 0.13 | 1.74 | 0.27 | 0.17 | 0.03 | 0.02 |
| N500179 | | 1.41 | 188 | 48.3 | 9.06 | 12.35 | 9.91 | 10.30 | 2.46 | 0.55 | 0.08 | 1.98 | 0.25 | 0.19 | 0.03 | 0.02 |
| N500180 | | 1.29 | 191 | 49.8 | 9.14 | 12.90 | 10.10 | 10.65 | 2.60 | 0.56 | 0.09 | 2.12 | 0.26 | 0.21 | 0.03 | 0.02 |
| N500181 | | 1.35 | 185 | 49.6 | 9.08 | 13.10 | 10.05 | 10.70 | 2.38 | 0.70 | 0.09 | 2.06 | 0.25 | 0.22 | 0.05 | 0.03 |
| N500182 | | 1.34 | 195 | 50.4 | 9.27 | 13.15 | 10.30 | 10.50 | 2.41 | 0.76 | 0.09 | 2.14 | 0.24 | 0.20 | 0.04 | 0.03 |
| N500183 | | 1.30 | 177 | 47.9 | 9.42 | 13.10 | 10.15 | 10.20 | 2.14 | 0.55 | 0.09 | 2.40 | 0.28 | 0.19 | 0.05 | 0.02 |
| N500184 | | 1.29 | 219 | 49.7 | 9.40 | 12.70 | 9.78 | 9.92 | 2.31 | 0.71 | 0.09 | 2.29 | 0.28 | 0.19 | 0.05 | 0.02 |
| N500185 | | 1.51 | 272 | 50.1 | 9.96 | 11.45 | 8.05 | 9.23 | 2.57 | 1.16 | 0.07 | 1.92 | 0.21 | 0.20 | 0.04 | 0.03 |
| N500186 | | 1.34 | 181 | 46.7 | 8.81 | 12.40 | 9.90 | 10.30 | 2.00 | 0.59 | 0.09 | 1.98 | 0.24 | 0.19 | 0.05 | 0.02 |
| N500187 | | 1.31 | 195 | 50.3 | 9.36 | 13.25 | 10.30 | 10.80 | 2.24 | 0.65 | 0.10 | 2.18 | 0.22 | 0.22 | 0.05 | 0.03 |
| N500188 | | 1.40 | 196 | 48.8 | 9.14 | 13.35 | 10.05 | 10.65 | 2.09 | 0.69 | 0.10 | 2.02 | 0.21 | 0.21 | 0.05 | 0.03 |
| N500189 | | 1.38 | 201 | 48.1 | 9.20 | 13.00 | 9.62 | 10.10 | 2.30 | 0.85 | 0.09 | 2.00 | 0.20 | 0.22 | 0.05 | 0.03 |
| N500190 | | 1.41 | 200 | 47.8 | 9.15 | 12.75 | 9.75 | 10.35 | 2.29 | 0.74 | 0.10 | 2.05 | 0.20 | 0.22 | 0.05 | 0.03 |
| N500191 | | 1.42 | 181 | 45.9 | 8.54 | 11.95 | 10.70 | 10.25 | 2.11 | 0.37 | 0.10 | 1.91 | 0.18 | 0.19 | 0.07 | 0.01 |
| N500192 | | 1.46 | 191 | 48.0 | 8.78 | 12.70 | 10.25 | 10.40 | 2.32 | 0.53 | 0.10 | 1.93 | 0.21 | 0.19 | 0.04 | 0.02 |
| N500193 | | 1.36 | 188 | 48.8 | 8.96 | 12.80 | 10.60 | 10.50 | 2.18 | 0.73 | 0.10 | 1.90 | 0.21 | 0.20 | 0.05 | 0.03 |
| N500194 | | 0.99 | 134 | 47.3 | 6.39 | 13.00 | 11.15 | 14.35 | 1.34 | 0.43 | 0.19 | 1.51 | 0.21 | 0.15 | 0.04 | 0.02 |
| N500195 | | 0.74 | 77 | 49.0 | 4.23 | 10.50 | 15.50 | 15.95 | 0.70 | 0.03 | 0.23 | 1.13 | 0.21 | 0.08 | 0.01 | <0.01 |
| N500196 | | 0.83 | 84 | 48.7 | 4.50 | 11.05 | 15.10 | 15.05 | 0.41 | 0.04 | 0.18 | 1.21 | 0.19 | 0.08 | 0.02 | <0.01 |
| N500197 | | 1.64 | 100 | 47.8 | 18.80 | 10.75 | 9.47 | 5.53 | 2.46 | 0.52 | 0.02 | 0.51 | 0.14 | 0.17 | 0.04 | 0.03 |
| N500198 | | 0.96 | 117 | 48.5 | 5.83 | 11.75 | 13.40 | 14.35 | 0.63 | 0.12 | 0.11 | 1.37 | 0.19 | 0.11 | 0.03 | <0.01 |
| N500199 | | 0.93 | 105 | 49.1 | 5.65 | 11.15 | 14.40 | 13.40 | 0.72 | 0.13 | 0.10 | 1.41 | 0.19 | 0.10 | 0.06 | <0.01 |
| N500200 | | 1.01 | 130 | 47.6 | 6.77 | 12.05 | 12.90 | 13.05 | 1.20 | 0.24 | 0.09 | 1.60 | 0.19 | 0.11 | 0.04 | <0.01 |
| N500201 | | 1.14 | 128 | 48.2 | 6.97 | 12.35 | 12.75 | 12.50 | 1.38 | 0.24 | 0.09 | 1.62 | 0.20 | 0.14 | 0.04 | <0.01 |
| N500202 | | 1.08 | 145 | 48.5 | 7.73 | 13.50 | 12.60 | 11.85 | 1.92 | 0.36 | 0.11 | 1.77 | 0.20 | 0.16 | 0.03 | 0.01 |
| N500203 | | 0.97 | 109 | 47.2 | 8.14 | 13.95 | 11.95 | 11.50 | 1.95 | 0.41 | 0.09 | 1.80 | 0.19 | 0.11 | 0.03 | 0.01 |
| N500204 | | 0.86 | 96 | 45.9 | 8.42 | 15.15 | 11.70 | 11.35 | 2.07 | 0.34 | 0.09 | 2.00 | 0.21 | 0.09 | 0.03 | 0.01 |
| N500205 | | 0.80 | 71 | 45.8 | 8.66 | 15.45 | 11.60 | 11.50 | 2.06 | 0.44 | 0.09 | 1.96 | 0.22 | 0.07 | 0.03 | 0.02 |
| N500206 | | 1.60 | 339 | 54.1 | 10.70 | 11.10 | 10.95 | 6.15 | 1.71 | 1.30 | 0.05 | 1.52 | 0.14 | 0.15 | 0.20 | 0.01 |
| N500207 | | 1.45 | 303 | 54.2 | 11.70 | 10.25 | 10.15 | 6.29 | 2.75 | 1.65 | 0.04 | 1.61 | 0.14 | 0.20 | 0.13 | 0.04 |
| N500208 | | 1.10 | 179 | 47.6 | 10.05 | 14.15 | 9.14 | 10.40 | 2.24 | 0.80 | 0.07 | 2.21 | 0.21 | 0.13 | 0.03 | 0.03 |
| N500209 | | 1.04 | 150 | 47.2 | 9.40 | 13.85 | 10.05 | 10.50 | 2.47 | 0.49 | 0.09 | 2.18 | 0.21 | 0.12 | 0.03 | 0.02 |
| N500210 | | 1.05 | 104 | 46.9 | 8.77 | 14.35 | 11.25 | 11.85 | 2.24 | 0.19 | 0.10 | 2.26 | 0.20 | 0.14 | 0.03 | 0.01 |
| N500211 | | 0.97 | 103 | 47.2 | 8.23 | 14.15 | 11.55 | 11.70 | 2.31 | 0.17 | 0.10 | 2.19 | 0.22 | 0.12 | 0.02 | <0.01 |
| N500212 | | 0.98 | 109 | 47.1 | 8.22 | 13.60 | 11.65 | 11.50 | 2.33 | 0.25 | 0.10 | 2.19 | 0.21 | 0.13 | 0.02 | 0.01 |
| N500213 | | 1.14 | 123 | 47.8 | 8.69 | 13.60 | 10.75 | 11.25 | 2.50 | 0.31 | 0.09 | 2.00 | 0.20 | 0.16 | 0.02 | 0.01 |
| N500214 | | 1.17 | 139 | 47.9 | 8.72 | 13.80 | 10.60 | 11.15 | 2.41 | 0.35 | 0.09 | 2.02 | 0.19 | 0.18 | 0.02 | 0.01 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| N500175 | | 2.42 | 98.28 | 0.5 | <5 | 0.6 | 72 | 1250 | 30 | <1 | 565 | 4 | 31 | 66 | 0.067 | 1.275 |
| N500176 | | 2.84 | 99.27 | 0.6 | <5 | <0.5 | 56 | 740 | 30 | 206 | 401 | 7 | 25 | 57 | 0.031 | 0.840 |
| N500177 | | 1.85 | 101.78 | <0.5 | <5 | <0.5 | 24 | 25 | 10 | 1 | 28 | 14 | 15 | 68 | <0.001 | <0.005 |
| N500178 | | 3.01 | 98.47 | <0.5 | <5 | <0.5 | 53 | 124 | 40 | 2 | 167 | 4 | 30 | 82 | 0.002 | 0.036 |
| N500179 | | 2.97 | 98.45 | <0.5 | <5 | <0.5 | 60 | 133 | 40 | <1 | 160 | 4 | 33 | 97 | 0.002 | 0.015 |
| N500180 | | 2.80 | 101.28 | <0.5 | <5 | <0.5 | 63 | 131 | 40 | 1 | 178 | 8 | 32 | 103 | 0.002 | 0.017 |
| N500181 | | 2.18 | 100.49 | <0.5 | <5 | 0.5 | 57 | 135 | 30 | <1 | 170 | 7 | 30 | 100 | 0.003 | 0.018 |
| N500182 | | 2.43 | 101.96 | <0.5 | <5 | <0.5 | 60 | 136 | 40 | 1 | 170 | 6 | 31 | 98 | 0.002 | 0.018 |
| N500183 | | 2.27 | 98.76 | <0.5 | <5 | 0.5 | 64 | 149 | 40 | <1 | 185 | 13 | 29 | 100 | 0.002 | 0.018 |
| N500184 | | 2.08 | 99.52 | <0.5 | <5 | <0.5 | 58 | 155 | 30 | 2 | 173 | 27 | 28 | 109 | 0.002 | 0.018 |
| N500185 | | 3.08 | 98.07 | <0.5 | <5 | <0.5 | 49 | 131 | 40 | 1 | 149 | 7 | 24 | 86 | <0.001 | 0.015 |
| N500186 | | 2.44 | 95.71 | <0.5 | <5 | 0.7 | 61 | 152 | 30 | <1 | 198 | 7 | 29 | 100 | 0.004 | 0.019 |
| N500187 | | 2.00 | 101.70 | <0.5 | <5 | <0.5 | 63 | 137 | 30 | <1 | 192 | 10 | 28 | 101 | 0.003 | 0.018 |
| N500188 | | 2.14 | 99.53 | <0.5 | <5 | <0.5 | 62 | 130 | 30 | 2 | 187 | 4 | 27 | 102 | 0.002 | 0.017 |
| N500189 | | 2.38 | 98.14 | <0.5 | <5 | <0.5 | 61 | 133 | 30 | 1 | 185 | 8 | 27 | 106 | 0.002 | 0.016 |
| N500190 | | 2.69 | 98.17 | <0.5 | <5 | <0.5 | 59 | 138 | 30 | 1 | 186 | 10 | 27 | 102 | 0.002 | 0.018 |
| N500191 | | 3.88 | 96.16 | <0.5 | <5 | 0.6 | 62 | 153 | 30 | <1 | 192 | 4 | 31 | 100 | 0.002 | 0.020 |
| N500192 | | 2.61 | 98.08 | <0.5 | <5 | <0.5 | 62 | 142 | 30 | 2 | 184 | 4 | 29 | 102 | 0.002 | 0.022 |
| N500193 | | 2.40 | 99.46 | <0.5 | <5 | <0.5 | 60 | 148 | 30 | 1 | 177 | 9 | 30 | 94 | 0.002 | 0.026 |
| N500194 | | 2.23 | 98.31 | <0.5 | <5 | <0.5 | 80 | 432 | 30 | 1 | 394 | 7 | 32 | 88 | 0.012 | 0.131 |
| N500195 | | 2.32 | 99.89 | <0.5 | <5 | 0.6 | 65 | 292 | 20 | 1 | 309 | 16 | 44 | 85 | 0.014 | 0.112 |
| N500196 | | 2.72 | 99.25 | 0.5 | <5 | <0.5 | 68 | 1280 | 20 | <1 | 402 | 9 | 44 | 79 | 0.038 | 0.223 |
| N500197 | | 1.86 | 98.10 | 0.7 | 6 | <0.5 | 91 | 2630 | 10 | 5 | 2340 | 18 | 18 | 102 | 0.048 | 0.049 |
| N500198 | | 2.99 | 99.38 | <0.5 | <5 | <0.5 | 72 | 1540 | 30 | 1 | 395 | <2 | 43 | 92 | 0.024 | 0.152 |
| N500199 | | 2.80 | 99.21 | <0.5 | 5 | <0.5 | 70 | 539 | 20 | <1 | 258 | 4 | 44 | 77 | 0.016 | 0.043 |
| N500200 | | 2.93 | 98.77 | <0.5 | 5 | <0.5 | 71 | 716 | 20 | 1 | 254 | 4 | 42 | 91 | 0.008 | 0.057 |
| N500201 | | 2.74 | 99.22 | <0.5 | <5 | <0.5 | 68 | 660 | 20 | 1 | 242 | 7 | 40 | 88 | 0.008 | 0.064 |
| N500202 | | 2.67 | 101.41 | <0.5 | <5 | 0.6 | 66 | 232 | 20 | <1 | 194 | <2 | 38 | 99 | 0.002 | 0.018 |
| N500203 | | 2.52 | 99.85 | <0.5 | <5 | <0.5 | 76 | 560 | 20 | 1 | 237 | 4 | 39 | 105 | 0.006 | 0.042 |
| N500204 | | 2.34 | 99.70 | <0.5 | <5 | <0.5 | 87 | 457 | 20 | 1 | 249 | 2 | 39 | 112 | 0.006 | 0.085 |
| N500205 | | 2.24 | 100.14 | <0.5 | <5 | <0.5 | 79 | 343 | 20 | 2 | 218 | 5 | 37 | 114 | 0.004 | 0.039 |
| N500206 | | 2.05 | 100.13 | <0.5 | <5 | <0.5 | 68 | 994 | 20 | 4 | 241 | 10 | 22 | 61 | 0.011 | 0.183 |
| N500207 | | 2.54 | 101.69 | 0.6 | <5 | <0.5 | 34 | 227 | 10 | 1 | 116 | 4 | 19 | 62 | 0.002 | 0.016 |
| N500208 | | 3.38 | 100.44 | <0.5 | <5 | <0.5 | 67 | 261 | 30 | <1 | 170 | <2 | 30 | 108 | 0.004 | 0.035 |
| N500209 | | 3.06 | 99.67 | <0.5 | <5 | <0.5 | 65 | 200 | 20 | 1 | 166 | 5 | 31 | 104 | 0.002 | 0.015 |
| N500210 | | 3.38 | 101.67 | <0.5 | 7 | <0.5 | 73 | 278 | 20 | 1 | 193 | 3 | 36 | 111 | 0.005 | 0.033 |
| N500211 | | 2.84 | 100.80 | <0.5 | <5 | <0.5 | 70 | 245 | 20 | <1 | 199 | 3 | 36 | 105 | 0.004 | 0.030 |
| N500212 | | 2.81 | 100.12 | <0.5 | <5 | 0.6 | 61 | 194 | 20 | <1 | 193 | 7 | 33 | 101 | 0.004 | 0.026 |
| N500213 | | 2.93 | 100.31 | <0.5 | 8 | <0.5 | 69 | 195 | 20 | 1 | 186 | <2 | 33 | 104 | 0.006 | 0.035 |
| N500214 | | 2.96 | 100.40 | <0.5 | 6 | <0.5 | 73 | 221 | 20 | <1 | 190 | 2 | 34 | 104 | 0.003 | 0.026 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| N500175 | | 0.624 | 1.30 |
| N500176 | | 0.419 | 1.14 |
| N500177 | | 0.001 | 0.06 |
| N500178 | | 0.019 | 0.09 |
| N500179 | | 0.012 | 0.12 |
| N500180 | | 0.008 | 0.10 |
| N500181 | | 0.008 | 0.06 |
| N500182 | | 0.007 | 0.13 |
| N500183 | | 0.008 | 0.14 |
| N500184 | | 0.007 | 0.12 |
| N500185 | | 0.007 | 0.32 |
| N500186 | | 0.007 | 0.15 |
| N500187 | | 0.007 | 0.17 |
| N500188 | | 0.007 | 0.22 |
| N500189 | | 0.006 | 0.42 |
| N500190 | | 0.008 | 0.30 |
| N500191 | | 0.011 | 0.51 |
| N500192 | | 0.013 | 0.32 |
| N500193 | | 0.012 | 0.27 |
| N500194 | | 0.104 | 0.21 |
| N500195 | | 0.067 | 0.16 |
| N500196 | | 0.184 | 0.28 |
| N500197 | | 0.071 | 1.43 |
| N500198 | | 0.141 | 0.33 |
| N500199 | | 0.037 | 0.20 |
| N500200 | | 0.055 | 0.25 |
| N500201 | | 0.050 | 0.24 |
| N500202 | | 0.009 | 0.18 |
| N500203 | | 0.032 | 0.33 |
| N500204 | | 0.054 | 0.32 |
| N500205 | | 0.025 | 0.22 |
| N500206 | | 0.147 | 0.42 |
| N500207 | | 0.012 | 0.16 |
| N500208 | | 0.028 | 0.34 |
| N500209 | | 0.010 | 0.21 |
| N500210 | | 0.024 | 0.23 |
| N500211 | | 0.014 | 0.15 |
| N500212 | | 0.014 | 0.14 |
| N500213 | | 0.019 | 0.23 |
| N500214 | | 0.013 | 0.32 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| N500215 | | 3.20 | 63.8 | 54.8 | 720 | 0.31 | 3.96 | 1.63 | 2.08 | 15.2 | 5.64 | 4.2 | 0.70 | 22.5 | 0.19 | 18.7 |
| N500216 | | 3.18 | 77.8 | 56.2 | 720 | 0.32 | 4.02 | 1.71 | 2.03 | 14.2 | 5.82 | 4.3 | 0.73 | 23.6 | 0.19 | 18.2 |
| N500217 | | 0.41 | 454 | 64.1 | 140 | 0.37 | 3.51 | 1.80 | 1.23 | 19.5 | 4.05 | 3.9 | 0.69 | 31.2 | 0.29 | 7.9 |
| N500218 | | 3.43 | 46.4 | 48.8 | 840 | 0.25 | 3.52 | 1.51 | 1.95 | 14.9 | 5.04 | 3.9 | 0.63 | 20.1 | 0.20 | 15.8 |
| N500219 | | 3.27 | 69.9 | 55.7 | 760 | 0.31 | 4.10 | 1.76 | 1.96 | 15.4 | 5.63 | 4.5 | 0.69 | 23.5 | 0.18 | 18.5 |
| N500220 | | 3.74 | 65.7 | 55.8 | 760 | 0.39 | 4.08 | 1.73 | 2.01 | 15.1 | 5.89 | 4.5 | 0.67 | 23.6 | 0.18 | 18.9 |
| N500221 | | 3.18 | 519 | 60.4 | 520 | 1.30 | 4.34 | 1.89 | 1.66 | 15.0 | 6.17 | 4.1 | 0.77 | 24.5 | 0.20 | 14.9 |
| N500222 | | 3.26 | 92.3 | 49.0 | 810 | 0.88 | 3.47 | 1.69 | 1.74 | 14.2 | 5.18 | 4.1 | 0.64 | 20.2 | 0.20 | 16.8 |
| N500223 | | 3.39 | 117.0 | 35.9 | 780 | 0.90 | 2.99 | 1.27 | 1.27 | 12.9 | 4.02 | 2.7 | 0.52 | 15.0 | 0.14 | 5.7 |
| N500224 | | 3.03 | 582 | 51.7 | 160 | 3.77 | 2.44 | 1.26 | 1.21 | 20.8 | 3.32 | 3.2 | 0.45 | 25.0 | 0.17 | 4.6 |
| N500225 | | 0.92 | 559 | 72.8 | 190 | 5.42 | 3.31 | 1.58 | 1.54 | 25.7 | 4.31 | 4.2 | 0.58 | 35.3 | 0.23 | 6.7 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| N500215 | | 31.8 | 7.60 | 6.3 | 6.74 | 1 | 333 | 1.1 | 0.76 | 1.62 | <0.5 | 0.23 | 0.49 | 320 | <1 | 16.8 |
| N500216 | | 32.6 | 7.72 | 7.8 | 7.05 | 1 | 283 | 1.1 | 0.79 | 1.72 | <0.5 | 0.20 | 0.47 | 307 | <1 | 17.0 |
| N500217 | | 26.9 | 7.33 | 44.8 | 4.97 | 1 | 464 | 0.5 | 0.59 | 6.98 | <0.5 | 0.31 | 1.66 | 126 | <1 | 18.1 |
| N500218 | | 30.7 | 7.18 | 4.9 | 6.25 | 1 | 357 | 1.1 | 0.70 | 1.48 | <0.5 | 0.21 | 0.43 | 308 | <1 | 15.7 |
| N500219 | | 31.8 | 7.44 | 5.3 | 6.47 | 1 | 522 | 1.1 | 0.74 | 1.74 | <0.5 | 0.19 | 0.50 | 269 | <1 | 17.2 |
| N500220 | | 32.0 | 7.36 | 10.5 | 6.45 | 1 | 282 | 1.1 | 0.72 | 1.90 | <0.5 | 0.18 | 0.57 | 277 | <1 | 17.5 |
| N500221 | | 34.3 | 8.16 | 49.8 | 7.12 | 1 | 276 | 1.0 | 0.79 | 3.62 | <0.5 | 0.23 | 1.33 | 202 | 1 | 20.6 |
| N500222 | | 28.7 | 6.62 | 10.7 | 5.88 | 1 | 218 | 1.0 | 0.72 | 1.80 | <0.5 | 0.18 | 0.58 | 250 | <1 | 16.3 |
| N500223 | | 22.9 | 5.08 | 16.7 | 4.63 | 1 | 199.0 | 0.4 | 0.56 | 2.60 | <0.5 | 0.18 | 0.69 | 244 | <1 | 13.6 |
| N500224 | | 23.9 | 6.07 | 73.1 | 4.09 | 1 | 450 | 0.3 | 0.43 | 4.98 | <0.5 | 0.14 | 1.30 | 122 | 1 | 13.1 |
| N500225 | | 32.6 | 8.59 | 80.5 | 5.81 | 1 | 441 | 0.4 | 0.59 | 6.30 | <0.5 | 0.19 | 1.68 | 178 | 1 | 17.0 |

***** See Appendix Page for comments regarding this certificate *****

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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| N500215 | | 1.22 | 155 | 48.1 | 8.94 | 13.45 | 10.90 | 11.00 | 2.41 | 0.28 | 0.09 | 2.06 | 0.18 | 0.18 | 0.03 | 0.01 |
| N500216 | | 1.31 | 157 | 48.7 | 8.75 | 13.50 | 11.05 | 10.85 | 2.41 | 0.35 | 0.09 | 1.99 | 0.18 | 0.19 | 0.03 | 0.01 |
| N500217 | | 1.82 | 147 | 60.1 | 16.35 | 7.00 | 6.43 | 4.24 | 3.41 | 1.26 | 0.02 | 0.59 | 0.13 | 0.14 | 0.05 | 0.05 |
| N500218 | | 1.17 | 139 | 47.8 | 8.40 | 13.45 | 11.65 | 11.35 | 2.29 | 0.25 | 0.10 | 1.93 | 0.17 | 0.18 | 0.04 | 0.01 |
| N500219 | | 1.22 | 162 | 48.6 | 8.74 | 13.10 | 11.30 | 10.95 | 2.27 | 0.28 | 0.10 | 1.93 | 0.17 | 0.23 | 0.06 | 0.01 |
| N500220 | | 1.26 | 165 | 47.7 | 8.62 | 13.40 | 10.25 | 10.65 | 2.34 | 0.35 | 0.09 | 1.94 | 0.19 | 0.23 | 0.03 | 0.01 |
| N500221 | | 1.38 | 154 | 54.7 | 9.97 | 9.36 | 6.72 | 8.39 | 2.37 | 1.95 | 0.07 | 1.51 | 0.13 | 0.32 | 0.03 | 0.06 |
| N500222 | | 1.26 | 145 | 48.8 | 8.33 | 13.00 | 9.14 | 12.80 | 1.86 | 0.33 | 0.10 | 1.74 | 0.19 | 0.18 | 0.02 | 0.01 |
| N500223 | | 1.10 | 83 | 53.2 | 8.71 | 11.60 | 8.79 | 11.25 | 2.00 | 0.65 | 0.10 | 1.46 | 0.19 | 0.14 | 0.02 | 0.01 |
| N500224 | | 1.07 | 119 | 61.4 | 15.20 | 5.97 | 2.08 | 5.10 | 2.78 | 1.91 | 0.02 | 0.55 | 0.06 | 0.16 | 0.05 | 0.06 |
| N500225 | | 1.49 | 155 | 56.0 | 18.60 | 6.61 | 1.74 | 6.66 | 3.46 | 2.23 | 0.02 | 0.81 | 0.06 | 0.14 | 0.05 | 0.06 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| N500215 | | 3.15 | 100.78 | <0.5 | 6 | <0.5 | 64 | 188 | 20 | 1 | 178 | 4 | 33 | 100 | 0.002 | 0.018 |
| N500216 | | 2.88 | 100.98 | <0.5 | <5 | <0.5 | 66 | 215 | 20 | <1 | 186 | 3 | 33 | 94 | 0.003 | 0.026 |
| N500217 | | 1.89 | 101.66 | <0.5 | <5 | <0.5 | 26 | 10 | 10 | 1 | 28 | 17 | 15 | 81 | 0.001 | <0.005 |
| N500218 | | 2.91 | 100.53 | <0.5 | <5 | <0.5 | 68 | 214 | 20 | 1 | 194 | 2 | 33 | 89 | 0.002 | 0.020 |
| N500219 | | 3.08 | 100.82 | <0.5 | 7 | <0.5 | 58 | 220 | 20 | <1 | 175 | <2 | 30 | 88 | 0.002 | 0.024 |
| N500220 | | 2.82 | 98.62 | <0.5 | <5 | <0.5 | 67 | 476 | 20 | 1 | 233 | 5 | 31 | 94 | 0.009 | 0.083 |
| N500221 | | 3.08 | 98.66 | <0.5 | <5 | <0.5 | 48 | 230 | 30 | 1 | 147 | 4 | 23 | 70 | 0.004 | 0.046 |
| N500222 | | 3.65 | 100.15 | <0.5 | <5 | <0.5 | 74 | 585 | 40 | 1 | 294 | 2 | 34 | 102 | 0.012 | 0.141 |
| N500223 | | 3.46 | 101.58 | <0.5 | <5 | <0.5 | 61 | 456 | 50 | 1 | 232 | <2 | 32 | 82 | 0.009 | 0.082 |
| N500224 | | 3.76 | 99.10 | <0.5 | 6 | <0.5 | 37 | 180 | 50 | 1 | 156 | <2 | 14 | 48 | 0.002 | 0.047 |
| N500225 | | 4.23 | 100.67 | <0.5 | <5 | <0.5 | 27 | 10 | 60 | 1 | 93 | 5 | 17 | 48 | <0.001 | <0.005 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| N500215 | | 0.009 | 0.50 |
| N500216 | | 0.017 | 0.74 |
| N500217 | | <0.001 | 0.04 |
| N500218 | | 0.013 | 0.99 |
| N500219 | | 0.018 | 0.64 |
| N500220 | | 0.076 | 0.82 |
| N500221 | | 0.044 | 0.83 |
| N500222 | | 0.125 | 0.77 |
| N500223 | | 0.075 | 0.65 |
| N500224 | | 0.044 | 0.60 |
| N500225 | | <0.001 | 0.21 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 9-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13201449

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | ME-4ACD81 | ME-ICP06 | ME-MS81 | OA-GRA05 |
| | PGM-ICP23 | S-IR08 | TOT-ICP06 | |

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

# CERTIFICATE TB13207290

Project: 23

P.O. No.:

This report is for 73 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 20-NOV-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTX MINERALS WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-QC | Pulverizing QC Test |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |

To: HTX MINERALS CORPORATION
ATTN: GRANT MOURRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | WEI-21 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | S-IR08 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Pt | Pd | S | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc |
| | Units | kg | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.001 | 0.005 | 0.001 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 |
| N500226 | | 3.07 | 0.006 | 0.007 | 0.005 | 0.57 | <0.5 | <5 | <0.5 | 46 | 36 | 110 | <1 | 58 | 6 | 20 |
| N500227 | | 3.07 | 0.005 | 0.011 | 0.009 | 0.27 | <0.5 | <5 | <0.5 | 43 | 117 | 90 | 1 | 69 | 7 | 24 |
| N500228 | | 3.32 | 0.005 | 0.011 | 0.008 | 0.32 | <0.5 | <5 | <0.5 | 48 | 214 | 80 | 1 | 69 | 12 | 24 |
| N500229 | | 3.07 | 0.004 | 0.008 | 0.005 | 0.30 | <0.5 | <5 | <0.5 | 56 | 309 | 80 | <1 | 65 | 13 | 27 |
| N500230 | | 3.18 | 0.005 | 0.011 | 0.006 | 0.63 | <0.5 | <5 | <0.5 | 56 | 280 | 50 | <1 | 61 | 8 | 25 |
| N500231 | | 3.13 | 0.006 | 0.014 | 0.007 | 0.45 | <0.5 | <5 | <0.5 | 56 | 264 | 50 | <1 | 61 | 14 | 25 |
| N500232 | | 3.21 | 0.006 | 0.015 | 0.007 | 0.27 | <0.5 | <5 | 0.5 | 47 | 267 | 30 | <1 | 58 | 12 | 24 |
| N500233 | | 3.30 | 0.005 | 0.008 | 0.004 | 0.30 | <0.5 | <5 | <0.5 | 52 | 316 | 20 | <1 | 60 | 17 | 25 |
| N500234 | | 3.31 | 0.007 | 0.014 | 0.007 | 0.31 | <0.5 | <5 | <0.5 | 50 | 275 | 20 | <1 | 62 | 10 | 24 |
| N500235 | | 3.29 | 0.008 | 0.020 | 0.010 | 0.51 | <0.5 | <5 | <0.5 | 56 | 261 | 20 | <1 | 72 | 7 | 25 |
| N500236 | | 3.44 | 0.008 | 0.027 | 0.011 | 0.26 | <0.5 | <5 | <0.5 | 48 | 263 | 20 | 1 | 68 | 10 | 23 |
| N500237 | | 0.11 | 0.049 | 0.045 | 0.070 | 1.46 | 0.5 | <5 | 0.5 | 86 | 2580 | 10 | 2 | 2380 | 7 | 17 |
| N500238 | | 3.21 | 0.007 | 0.021 | 0.008 | 0.67 | <0.5 | <5 | <0.5 | 45 | 177 | 30 | <1 | 59 | 11 | 21 |
| N500239 | | 3.36 | 0.009 | 0.030 | 0.015 | 0.52 | <0.5 | <5 | <0.5 | 51 | 253 | 50 | <1 | 76 | 15 | 24 |
| N500240 | | 3.19 | 0.009 | 0.031 | 0.015 | 0.21 | <0.5 | <5 | 0.5 | 48 | 319 | 30 | <1 | 81 | 18 | 26 |
| N500241 | | 3.36 | 0.007 | 0.025 | 0.016 | 0.63 | <0.5 | <5 | <0.5 | 51 | 142 | 60 | <1 | 81 | 9 | 25 |
| N500242 | | 3.22 | 0.007 | 0.037 | 0.018 | 0.38 | <0.5 | <5 | <0.5 | 46 | 147 | 20 | <1 | 73 | 2 | 25 |
| N500243 | | 3.35 | 0.009 | 0.032 | 0.014 | 0.37 | <0.5 | <5 | <0.5 | 49 | 211 | 20 | <1 | 76 | 5 | 25 |
| N500244 | | 3.18 | 0.008 | 0.029 | 0.015 | 0.15 | <0.5 | <5 | <0.5 | 47 | 213 | 20 | <1 | 76 | 4 | 26 |
| N500245 | | 3.43 | 0.009 | 0.029 | 0.014 | 0.91 | <0.5 | <5 | <0.5 | 50 | 246 | 10 | <1 | 77 | 5 | 25 |
| N500246 | | 3.25 | 0.010 | 0.031 | 0.014 | 0.29 | <0.5 | <5 | <0.5 | 50 | 291 | 10 | <1 | 83 | 2 | 26 |
| N500247 | | 3.26 | 0.011 | 0.033 | 0.018 | 0.27 | <0.5 | <5 | <0.5 | 49 | 305 | 10 | <1 | 81 | 8 | 25 |
| N500248 | | 3.31 | 0.011 | 0.035 | 0.017 | 0.27 | <0.5 | <5 | <0.5 | 49 | 305 | 10 | <1 | 85 | 7 | 25 |
| N500249 | | 3.42 | 0.012 | 0.036 | 0.017 | 0.79 | <0.5 | <5 | 0.6 | 52 | 314 | 20 | <1 | 91 | 4 | 25 |
| N500250 | | 3.34 | 0.017 | 0.060 | 0.016 | 0.48 | <0.5 | <5 | 0.5 | 47 | 236 | 20 | <1 | 88 | 6 | 25 |
| Q167001 | | 3.30 | 0.012 | 0.060 | 0.022 | 0.56 | <0.5 | <5 | <0.5 | 46 | 165 | 30 | <1 | 84 | 6 | 25 |
| Q167002 | | 3.33 | 0.004 | 0.018 | 0.015 | 0.40 | <0.5 | <5 | <0.5 | 48 | 117 | 10 | <1 | 91 | 6 | 26 |
| Q167003 | | 3.13 | 0.005 | 0.015 | 0.011 | 0.60 | <0.5 | <5 | <0.5 | 48 | 105 | 10 | <1 | 90 | <2 | 26 |
| Q167004 | | 3.38 | 0.005 | 0.018 | 0.016 | 0.52 | <0.5 | <5 | <0.5 | 48 | 102 | 10 | <1 | 89 | <2 | 26 |
| Q167005 | | 3.15 | 0.004 | 0.008 | 0.008 | 0.15 | <0.5 | <5 | <0.5 | 46 | 108 | 20 | 1 | 96 | 4 | 25 |
| Q167006 | | 3.42 | 0.005 | 0.012 | 0.011 | 0.18 | <0.5 | <5 | <0.5 | 43 | 115 | 20 | 1 | 91 | 4 | 24 |
| Q167007 | | 0.10 | 0.049 | 0.047 | 0.071 | 1.49 | 0.7 | <5 | <0.5 | 80 | 2450 | 10 | 3 | 2210 | 8 | 14 |
| Q167008 | | 3.36 | 0.005 | 0.018 | 0.018 | 0.22 | <0.5 | <5 | <0.5 | 43 | 118 | 20 | 1 | 92 | 3 | 24 |
| Q167009 | | 3.21 | 0.004 | 0.014 | 0.014 | 0.16 | <0.5 | <5 | <0.5 | 45 | 105 | 20 | <1 | 97 | <2 | 25 |
| Q167010 | | 3.56 | 0.003 | 0.012 | 0.013 | 0.22 | <0.5 | <5 | <0.5 | 47 | 108 | 20 | 1 | 105 | 6 | 27 |
| Q167011 | | 3.30 | 0.003 | 0.013 | 0.015 | 0.07 | <0.5 | 5 | <0.5 | 47 | 105 | 20 | 1 | 109 | 3 | 27 |
| Q167012 | | 3.21 | 0.003 | 0.011 | 0.014 | 0.20 | <0.5 | <5 | <0.5 | 47 | 102 | 20 | <1 | 105 | <2 | 26 |
| Q167013 | | 3.21 | 0.005 | 0.012 | 0.012 | 0.07 | <0.5 | <5 | <0.5 | 48 | 106 | 20 | 1 | 111 | 4 | 27 |
| Q167014 | | 3.41 | 0.003 | 0.013 | 0.015 | 0.13 | <0.5 | <5 | <0.5 | 48 | 105 | 30 | <1 | 110 | 5 | 27 |
| Q167015 | | 3.45 | 0.004 | 0.011 | 0.011 | 0.08 | <0.5 | <5 | <0.5 | 50 | 106 | 20 | 1 | 114 | 5 | 28 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | ME-4ACD81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Zn | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 2 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| N500226 | | 95 | 128.5 | 97.9 | 70 | 1.61 | 6.71 | 3.26 | 3.78 | 21.6 | 8.87 | 7.4 | 1.20 | 48.6 | 0.31 | 23.1 |
| N500227 | | 132 | 84.3 | 68.8 | 100 | 1.86 | 4.69 | 2.01 | 2.38 | 20.0 | 6.67 | 5.8 | 0.86 | 28.9 | 0.23 | 23.3 |
| N500228 | | 147 | 85.2 | 75.0 | 100 | 2.38 | 4.87 | 2.12 | 2.69 | 21.3 | 7.07 | 6.0 | 0.83 | 31.5 | 0.23 | 24.1 |
| N500229 | | 162 | 75.5 | 73.6 | 40 | 1.52 | 4.71 | 1.92 | 2.42 | 20.2 | 6.59 | 5.8 | 0.84 | 31.1 | 0.22 | 23.6 |
| N500230 | | 120 | 129.0 | 76.1 | 40 | 1.06 | 4.78 | 1.96 | 2.53 | 20.2 | 6.56 | 5.7 | 0.82 | 31.9 | 0.22 | 23.5 |
| N500231 | | 140 | 149.5 | 65.9 | 40 | 1.45 | 4.49 | 2.15 | 2.43 | 18.8 | 6.59 | 5.1 | 0.75 | 30.3 | 0.17 | 21.4 |
| N500232 | | 124 | 215 | 75.4 | 50 | 0.59 | 4.54 | 2.00 | 2.45 | 20.5 | 6.56 | 5.8 | 0.81 | 31.6 | 0.22 | 22.9 |
| N500233 | | 145 | 183.0 | 70.6 | 20 | 0.46 | 4.51 | 1.89 | 2.34 | 20.2 | 6.26 | 5.8 | 0.82 | 29.3 | 0.22 | 22.0 |
| N500234 | | 125 | 216 | 63.7 | 30 | 0.62 | 4.45 | 2.01 | 2.36 | 19.3 | 6.37 | 5.0 | 0.80 | 28.8 | 0.19 | 20.6 |
| N500235 | | 116 | 200.0 | 64.4 | 40 | 0.41 | 4.27 | 1.70 | 2.24 | 19.6 | 5.56 | 4.9 | 0.74 | 27.0 | 0.18 | 20.3 |
| N500236 | | 127 | 156.5 | 72.1 | 50 | 0.41 | 4.66 | 2.02 | 2.49 | 21.8 | 6.98 | 6.1 | 0.80 | 30.5 | 0.23 | 22.3 |
| N500237 | | 95 | 254 | 25.7 | 160 | 0.24 | 3.70 | 1.97 | 1.48 | 19.1 | 3.92 | 2.3 | 0.73 | 11.9 | 0.24 | 3.3 |
| N500238 | | 126 | 232 | 88.2 | 40 | 0.77 | 5.49 | 2.49 | 2.93 | 22.9 | 7.36 | 7.5 | 0.99 | 37.9 | 0.27 | 28.5 |
| N500239 | | 122 | 221 | 67.2 | 50 | 1.26 | 4.24 | 1.86 | 2.23 | 20.4 | 6.33 | 4.8 | 0.78 | 28.3 | 0.21 | 20.2 |
| N500240 | | 127 | 233 | 58.6 | 50 | 1.53 | 3.98 | 1.71 | 2.14 | 19.2 | 5.73 | 4.5 | 0.65 | 26.2 | 0.19 | 18.7 |
| N500241 | | 122 | 196.5 | 66.3 | 100 | 1.88 | 4.08 | 1.96 | 2.19 | 19.7 | 6.35 | 5.1 | 0.76 | 27.6 | 0.20 | 20.7 |
| N500242 | | 103 | 245 | 69.4 | 700 | 0.74 | 4.13 | 1.98 | 2.25 | 19.5 | 6.29 | 5.1 | 0.75 | 28.8 | 0.22 | 21.1 |
| N500243 | | 101 | 219 | 65.7 | 90 | 0.76 | 4.20 | 1.98 | 2.21 | 19.7 | 6.07 | 4.8 | 0.77 | 27.7 | 0.20 | 19.8 |
| N500244 | | 103 | 202 | 63.4 | 220 | 0.80 | 3.88 | 1.82 | 2.20 | 19.3 | 5.67 | 4.8 | 0.70 | 26.5 | 0.20 | 18.6 |
| N500245 | | 97 | 221 | 63.1 | 160 | 0.54 | 4.04 | 1.90 | 2.09 | 19.2 | 6.00 | 5.4 | 0.71 | 29.3 | 0.20 | 18.8 |
| N500246 | | 112 | 163.0 | 63.4 | 70 | 0.56 | 3.92 | 1.78 | 2.17 | 19.7 | 5.71 | 4.6 | 0.71 | 26.4 | 0.21 | 19.0 |
| N500247 | | 113 | 175.5 | 62.2 | 60 | 0.68 | 3.96 | 1.69 | 2.14 | 19.8 | 5.70 | 4.6 | 0.72 | 25.9 | 0.19 | 18.5 |
| N500248 | | 131 | 202 | 62.9 | 60 | 0.82 | 4.01 | 1.80 | 2.14 | 20.1 | 6.31 | 4.4 | 0.72 | 26.5 | 0.20 | 19.0 |
| N500249 | | 114 | 296 | 60.3 | 60 | 0.79 | 3.78 | 1.82 | 1.99 | 20.1 | 5.57 | 4.3 | 0.72 | 25.1 | 0.18 | 18.1 |
| N500250 | | 109 | 343 | 57.5 | 100 | 0.88 | 3.95 | 1.71 | 2.07 | 19.3 | 5.44 | 4.5 | 0.68 | 26.2 | 0.18 | 17.0 |
| Q167001 | | 94 | 311 | 58.6 | 130 | 0.96 | 3.79 | 1.65 | 2.04 | 18.9 | 5.40 | 4.3 | 0.72 | 24.6 | 0.18 | 17.9 |
| Q167002 | | 92 | 239 | 63.5 | 160 | 0.47 | 4.00 | 1.75 | 2.20 | 18.9 | 5.96 | 4.7 | 0.73 | 26.7 | 0.21 | 18.7 |
| Q167003 | | 83 | 254 | 63.7 | 150 | 0.46 | 3.75 | 1.75 | 2.04 | 18.1 | 5.28 | 4.9 | 0.68 | 27.3 | 0.18 | 17.9 |
| Q167004 | | 81 | 200.0 | 57.3 | 150 | 0.48 | 3.66 | 1.60 | 1.98 | 17.9 | 5.25 | 4.6 | 0.65 | 23.7 | 0.19 | 17.0 |
| Q167005 | | 85 | 208 | 53.4 | 150 | 0.50 | 3.68 | 1.67 | 2.09 | 17.7 | 5.28 | 4.1 | 0.65 | 24.2 | 0.18 | 16.7 |
| Q167006 | | 82 | 239 | 55.5 | 130 | 0.49 | 3.64 | 1.56 | 1.96 | 18.3 | 5.35 | 4.2 | 0.68 | 23.1 | 0.18 | 16.5 |
| Q167007 | | 89 | 252 | 25.5 | 140 | 0.26 | 3.29 | 1.94 | 1.27 | 17.8 | 3.80 | 2.0 | 0.71 | 11.3 | 0.28 | 2.9 |
| Q167008 | | 77 | 240 | 58.0 | 130 | 0.53 | 3.53 | 1.64 | 2.06 | 18.7 | 5.50 | 4.1 | 0.71 | 24.4 | 0.19 | 17.0 |
| Q167009 | | 87 | 233 | 59.6 | 170 | 0.47 | 3.79 | 1.66 | 2.08 | 17.8 | 5.71 | 4.4 | 0.71 | 24.5 | 0.18 | 17.0 |
| Q167010 | | 87 | 226 | 57.6 | 180 | 0.52 | 3.58 | 1.59 | 1.91 | 17.5 | 5.52 | 4.2 | 0.69 | 23.9 | 0.18 | 17.1 |
| Q167011 | | 87 | 222 | 55.1 | 200 | 0.66 | 3.74 | 1.69 | 2.05 | 17.4 | 5.77 | 5.2 | 0.66 | 24.9 | 0.18 | 17.1 |
| Q167012 | | 94 | 242 | 57.1 | 200 | 0.71 | 3.73 | 1.62 | 1.93 | 17.3 | 5.49 | 4.2 | 0.67 | 23.5 | 0.16 | 16.3 |
| Q167013 | | 98 | 216 | 58.3 | 230 | 0.85 | 3.77 | 1.74 | 1.89 | 17.2 | 5.64 | 4.5 | 0.67 | 24.1 | 0.19 | 16.9 |
| Q167014 | | 89 | 246 | 58.1 | 220 | 0.74 | 3.83 | 1.70 | 2.02 | 17.7 | 5.65 | 4.3 | 0.69 | 24.5 | 0.19 | 17.0 |
| Q167015 | | 100 | 224 | 59.6 | 250 | 0.78 | 3.80 | 1.75 | 2.03 | 17.2 | 5.49 | 4.7 | 0.69 | 24.9 | 0.19 | 17.3 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| N500226 | | 52.9 | 12.50 | 20.8 | 10.85 | 2 | 359 | 1.4 | 1.20 | 2.85 | <0.5 | 0.38 | 1.06 | 232 | 3 | 29.5 |
| N500227 | | 38.9 | 9.25 | 13.6 | 7.68 | 2 | 267 | 1.4 | 0.93 | 2.30 | <0.5 | 0.23 | 0.72 | 304 | 1 | 21.6 |
| N500228 | | 41.2 | 9.96 | 14.0 | 7.91 | 2 | 474 | 1.5 | 0.90 | 2.44 | <0.5 | 0.24 | 0.75 | 338 | 1 | 21.9 |
| N500229 | | 39.5 | 9.67 | 12.6 | 8.62 | 2 | 411 | 1.4 | 0.88 | 2.39 | <0.5 | 0.25 | 0.71 | 416 | 1 | 19.8 |
| N500230 | | 40.8 | 10.20 | 17.5 | 8.66 | 2 | 826 | 1.4 | 0.87 | 2.46 | <0.5 | 0.27 | 0.76 | 430 | 1 | 19.6 |
| N500231 | | 38.3 | 8.79 | 18.5 | 7.49 | 2 | 626 | 1.3 | 0.84 | 2.01 | <0.5 | 0.25 | 0.64 | 390 | 1 | 17.2 |
| N500232 | | 40.9 | 10.10 | 30.0 | 8.29 | 2 | 498 | 1.4 | 0.83 | 2.50 | <0.5 | 0.25 | 0.74 | 390 | <1 | 19.3 |
| N500233 | | 38.4 | 9.47 | 30.2 | 7.80 | 2 | 418 | 1.4 | 0.88 | 2.27 | <0.5 | 0.23 | 0.75 | 496 | <1 | 18.9 |
| N500234 | | 36.4 | 8.54 | 34.5 | 7.80 | 2 | 563 | 1.3 | 0.83 | 2.14 | <0.5 | 0.24 | 0.60 | 435 | <1 | 17.0 |
| N500235 | | 35.3 | 8.74 | 30.0 | 7.45 | 1 | 569 | 1.2 | 0.75 | 2.10 | <0.5 | 0.21 | 0.67 | 452 | <1 | 17.3 |
| N500236 | | 40.7 | 9.62 | 27.8 | 8.05 | 1 | 435 | 1.4 | 0.87 | 2.50 | <0.5 | 0.27 | 0.79 | 435 | <1 | 20.8 |
| N500237 | | 14.9 | 3.27 | 14.1 | 3.34 | 2 | 353 | 0.1 | 0.58 | 1.65 | <0.5 | 0.23 | 0.32 | 105 | 3 | 19.1 |
| N500238 | | 48.0 | 11.65 | 43.0 | 9.34 | 2 | 615 | 1.7 | 1.01 | 3.21 | <0.5 | 0.31 | 0.96 | 359 | <1 | 24.1 |
| N500239 | | 37.3 | 8.83 | 32.4 | 7.74 | 1 | 729 | 1.2 | 0.84 | 2.02 | <0.5 | 0.24 | 0.70 | 442 | <1 | 19.4 |
| N500240 | | 34.6 | 7.82 | 47.6 | 7.04 | 1 | 629 | 1.0 | 0.76 | 1.79 | <0.5 | 0.22 | 0.56 | 408 | <1 | 15.8 |
| N500241 | | 37.0 | 8.81 | 29.6 | 7.24 | 1 | 618 | 1.2 | 0.80 | 2.24 | <0.5 | 0.26 | 0.73 | 303 | <1 | 18.9 |
| N500242 | | 38.2 | 9.18 | 39.6 | 7.75 | 1 | 755 | 1.2 | 0.79 | 2.23 | <0.5 | 0.25 | 0.72 | 261 | <1 | 18.4 |
| N500243 | | 37.5 | 8.73 | 42.5 | 7.91 | 1 | 702 | 1.2 | 0.85 | 2.07 | <0.5 | 0.24 | 0.70 | 318 | <1 | 17.9 |
| N500244 | | 35.6 | 8.45 | 41.4 | 7.09 | 1 | 677 | 1.1 | 0.76 | 1.97 | <0.5 | 0.22 | 0.63 | 318 | <1 | 17.4 |
| N500245 | | 35.5 | 8.22 | 44.7 | 7.15 | 1 | 678 | 1.1 | 0.78 | 2.28 | <0.5 | 0.22 | 0.71 | 339 | <1 | 16.2 |
| N500246 | | 35.5 | 8.27 | 39.7 | 7.35 | 1 | 486 | 1.1 | 0.76 | 1.93 | <0.5 | 0.23 | 0.66 | 391 | <1 | 17.7 |
| N500247 | | 35.5 | 8.31 | 44.5 | 7.37 | 2 | 563 | 1.1 | 0.76 | 1.93 | <0.5 | 0.24 | 0.64 | 420 | <1 | 17.5 |
| N500248 | | 35.0 | 8.32 | 46.2 | 7.19 | 1 | 660 | 1.1 | 0.77 | 2.33 | <0.5 | 0.24 | 0.62 | 451 | <1 | 17.4 |
| N500249 | | 34.8 | 8.02 | 44.0 | 6.80 | 1 | 788 | 1.1 | 0.78 | 1.97 | <0.5 | 0.22 | 0.62 | 475 | 1 | 17.2 |
| N500250 | | 33.3 | 7.53 | 48.6 | 6.89 | 1 | 849 | 1.0 | 0.79 | 1.96 | <0.5 | 0.25 | 0.62 | 327 | <1 | 15.5 |
| Q167001 | | 33.2 | 7.84 | 43.0 | 6.61 | 1 | 901 | 1.1 | 0.74 | 1.81 | <0.5 | 0.23 | 0.66 | 283 | <1 | 16.5 |
| Q167002 | | 35.5 | 8.45 | 30.2 | 7.46 | 1 | 805 | 1.1 | 0.80 | 1.93 | <0.5 | 0.23 | 0.65 | 240 | <1 | 17.3 |
| Q167003 | | 34.4 | 8.30 | 32.1 | 7.20 | 1 | 836 | 1.1 | 0.74 | 2.39 | <0.5 | 0.22 | 0.79 | 222 | <1 | 17.1 |
| Q167004 | | 32.9 | 7.59 | 27.2 | 6.64 | 1 | 821 | 1.0 | 0.71 | 1.81 | <0.5 | 0.21 | 0.62 | 234 | <1 | 16.2 |
| Q167005 | | 30.6 | 7.22 | 30.7 | 6.61 | 1 | 746 | 1.0 | 0.67 | 1.74 | <0.5 | 0.22 | 0.57 | 237 | 1 | 14.7 |
| Q167006 | | 31.3 | 7.50 | 33.0 | 6.49 | 1 | 795 | 1.0 | 0.71 | 1.75 | <0.5 | 0.22 | 0.59 | 243 | <1 | 15.8 |
| Q167007 | | 15.2 | 3.30 | 14.1 | 3.60 | 1 | 340 | 0.1 | 0.59 | 1.58 | <0.5 | 0.24 | 0.32 | 103 | 3 | 18.1 |
| Q167008 | | 33.2 | 7.78 | 31.7 | 6.61 | 1 | 797 | 1.0 | 0.73 | 1.85 | <0.5 | 0.21 | 0.57 | 236 | <1 | 16.4 |
| Q167009 | | 33.6 | 7.88 | 26.9 | 6.97 | 1 | 731 | 1.0 | 0.72 | 1.78 | <0.5 | 0.23 | 0.58 | 243 | <1 | 16.8 |
| Q167010 | | 32.5 | 7.71 | 24.7 | 6.82 | 1 | 707 | 1.1 | 0.70 | 1.79 | <0.5 | 0.22 | 0.60 | 235 | <1 | 16.4 |
| Q167011 | | 32.0 | 7.30 | 24.7 | 7.11 | 1 | 722 | 1.0 | 0.77 | 1.66 | <0.5 | 0.21 | 0.55 | 239 | <1 | 15.2 |
| Q167012 | | 32.5 | 7.86 | 26.3 | 6.61 | 1 | 725 | 1.0 | 0.73 | 1.80 | <0.5 | 0.22 | 0.61 | 233 | <1 | 16.1 |
| Q167013 | | 33.4 | 7.83 | 21.1 | 6.90 | 1 | 726 | 1.0 | 0.74 | 1.79 | <0.5 | 0.21 | 0.59 | 248 | <1 | 16.7 |
| Q167014 | | 32.9 | 7.77 | 23.2 | 6.93 | 1 | 740 | 1.0 | 0.70 | 1.80 | <0.5 | 0.24 | 0.57 | 243 | <1 | 16.7 |
| Q167015 | | 34.2 | 7.98 | 23.5 | 6.91 | 1 | 704 | 1.0 | 0.73 | 1.90 | <0.5 | 0.23 | 0.59 | 249 | <1 | 17.2 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| N500226 | | 2.40 | 301 | 50.5 | 14.45 | 10.15 | 3.03 | 10.50 | 3.24 | 0.82 | 0.01 | 2.21 | 0.11 | 0.27 | 0.04 | 0.02 |
| N500227 | | 1.49 | 217 | 50.2 | 13.25 | 12.25 | 3.24 | 10.15 | 3.23 | 0.54 | 0.01 | 2.37 | 0.12 | 0.25 | 0.03 | 0.01 |
| N500228 | | 1.55 | 221 | 48.3 | 12.80 | 12.25 | 4.24 | 9.12 | 3.06 | 0.56 | 0.01 | 2.53 | 0.16 | 0.24 | 0.05 | 0.01 |
| N500229 | | 1.59 | 223 | 49.4 | 13.55 | 13.90 | 4.23 | 8.62 | 3.25 | 0.55 | 0.01 | 2.79 | 0.17 | 0.25 | 0.05 | 0.01 |
| N500230 | | 1.44 | 221 | 46.9 | 12.70 | 14.20 | 7.02 | 6.17 | 2.85 | 0.78 | <0.01 | 2.77 | 0.19 | 0.23 | 0.10 | 0.01 |
| N500231 | | 1.52 | 193 | 47.7 | 12.95 | 14.40 | 6.03 | 7.16 | 3.24 | 0.72 | 0.01 | 2.76 | 0.24 | 0.25 | 0.07 | 0.02 |
| N500232 | | 1.55 | 217 | 49.8 | 13.85 | 13.20 | 7.81 | 5.78 | 3.53 | 1.07 | 0.01 | 2.63 | 0.25 | 0.25 | 0.06 | 0.02 |
| N500233 | | 1.46 | 216 | 48.2 | 13.15 | 14.80 | 7.78 | 5.78 | 3.39 | 1.05 | <0.01 | 3.06 | 0.25 | 0.22 | 0.05 | 0.02 |
| N500234 | | 1.35 | 196 | 47.3 | 12.85 | 13.60 | 8.23 | 5.32 | 3.42 | 1.08 | 0.01 | 2.85 | 0.23 | 0.24 | 0.06 | 0.02 |
| N500235 | | 1.28 | 189 | 48.8 | 13.60 | 14.30 | 8.78 | 5.68 | 3.26 | 1.00 | 0.01 | 2.77 | 0.19 | 0.21 | 0.07 | 0.02 |
| N500236 | | 1.42 | 223 | 49.2 | 13.30 | 13.95 | 8.37 | 5.39 | 3.21 | 0.90 | 0.01 | 2.61 | 0.18 | 0.24 | 0.04 | 0.02 |
| N500237 | | 1.70 | 88 | 47.8 | 18.80 | 10.75 | 9.57 | 5.54 | 2.44 | 0.53 | 0.02 | 0.51 | 0.14 | 0.16 | 0.04 | 0.03 |
| N500238 | | 1.74 | 277 | 51.0 | 13.45 | 13.25 | 7.28 | 5.05 | 3.15 | 1.19 | 0.01 | 2.54 | 0.20 | 0.29 | 0.06 | 0.03 |
| N500239 | | 1.32 | 188 | 46.4 | 13.15 | 13.20 | 7.30 | 6.78 | 2.94 | 0.81 | 0.01 | 2.61 | 0.18 | 0.21 | 0.09 | 0.02 |
| N500240 | | 1.30 | 176 | 49.1 | 13.65 | 13.05 | 8.74 | 6.10 | 3.30 | 1.23 | 0.01 | 2.58 | 0.22 | 0.21 | 0.07 | 0.03 |
| N500241 | | 1.40 | 200 | 48.4 | 13.40 | 11.50 | 6.35 | 8.57 | 2.85 | 0.78 | 0.01 | 2.15 | 0.14 | 0.21 | 0.07 | 0.02 |
| N500242 | | 1.40 | 197 | 50.4 | 13.75 | 11.35 | 9.00 | 6.05 | 3.19 | 1.09 | 0.02 | 2.06 | 0.17 | 0.22 | 0.09 | 0.03 |
| N500243 | | 1.45 | 186 | 50.1 | 13.80 | 11.85 | 9.36 | 5.76 | 3.22 | 1.10 | 0.01 | 2.14 | 0.16 | 0.21 | 0.08 | 0.03 |
| N500244 | | 1.38 | 182 | 49.1 | 13.90 | 11.60 | 9.49 | 5.51 | 3.24 | 1.01 | 0.01 | 2.16 | 0.18 | 0.19 | 0.08 | 0.02 |
| N500245 | | 1.32 | 207 | 49.1 | 13.50 | 11.95 | 8.85 | 5.35 | 3.19 | 1.09 | 0.01 | 2.19 | 0.14 | 0.20 | 0.07 | 0.02 |
| N500246 | | 1.35 | 184 | 49.4 | 13.80 | 12.60 | 9.69 | 5.65 | 3.24 | 0.98 | 0.01 | 2.36 | 0.16 | 0.21 | 0.06 | 0.02 |
| N500247 | | 1.35 | 181 | 49.3 | 13.60 | 12.90 | 9.50 | 5.74 | 3.26 | 1.05 | 0.01 | 2.42 | 0.18 | 0.21 | 0.07 | 0.02 |
| N500248 | | 1.39 | 172 | 48.6 | 13.65 | 13.35 | 9.35 | 5.57 | 3.18 | 1.05 | 0.01 | 2.53 | 0.20 | 0.19 | 0.08 | 0.02 |
| N500249 | | 1.18 | 171 | 48.4 | 13.45 | 13.90 | 8.80 | 5.86 | 3.03 | 1.16 | 0.01 | 2.65 | 0.17 | 0.20 | 0.10 | 0.03 |
| N500250 | | 1.26 | 180 | 48.6 | 13.55 | 11.70 | 8.87 | 5.70 | 3.10 | 1.25 | 0.01 | 2.07 | 0.17 | 0.18 | 0.09 | 0.04 |
| Q167001 | | 1.13 | 170 | 48.5 | 13.70 | 10.65 | 8.47 | 6.31 | 2.91 | 1.18 | 0.02 | 1.90 | 0.16 | 0.18 | 0.11 | 0.03 |
| Q167002 | | 1.37 | 173 | 49.3 | 13.05 | 10.75 | 9.71 | 6.52 | 3.05 | 0.89 | 0.02 | 1.79 | 0.15 | 0.20 | 0.10 | 0.03 |
| Q167003 | | 1.31 | 199 | 51.4 | 13.20 | 10.65 | 9.84 | 6.47 | 3.16 | 1.09 | 0.02 | 1.69 | 0.13 | 0.19 | 0.10 | 0.03 |
| Q167004 | | 1.21 | 175 | 49.9 | 13.40 | 10.55 | 10.10 | 6.56 | 3.09 | 0.83 | 0.02 | 1.72 | 0.14 | 0.17 | 0.10 | 0.02 |
| Q167005 | | 1.26 | 159 | 48.9 | 13.10 | 10.65 | 10.10 | 6.67 | 3.16 | 0.86 | 0.02 | 1.80 | 0.16 | 0.19 | 0.08 | 0.02 |
| Q167006 | | 1.22 | 160 | 49.9 | 13.90 | 10.25 | 9.97 | 6.34 | 3.35 | 0.93 | 0.02 | 1.69 | 0.15 | 0.17 | 0.09 | 0.03 |
| Q167007 | | 1.72 | 84 | 48.0 | 18.45 | 10.90 | 9.55 | 5.67 | 2.66 | 0.56 | 0.02 | 0.54 | 0.15 | 0.16 | 0.04 | 0.03 |
| Q167008 | | 1.32 | 163 | 49.4 | 13.60 | 10.10 | 9.67 | 6.32 | 3.25 | 0.94 | 0.02 | 1.68 | 0.15 | 0.18 | 0.09 | 0.03 |
| Q167009 | | 1.21 | 164 | 50.5 | 13.25 | 10.95 | 10.20 | 6.93 | 3.14 | 0.88 | 0.02 | 1.83 | 0.16 | 0.18 | 0.09 | 0.03 |
| Q167010 | | 1.23 | 161 | 49.3 | 12.80 | 10.70 | 10.00 | 6.88 | 3.05 | 0.83 | 0.03 | 1.79 | 0.16 | 0.19 | 0.09 | 0.03 |
| Q167011 | | 1.30 | 201 | 48.6 | 12.30 | 10.90 | 10.30 | 7.23 | 3.00 | 0.78 | 0.03 | 1.78 | 0.17 | 0.18 | 0.08 | 0.02 |
| Q167012 | | 1.31 | 163 | 49.2 | 12.30 | 10.80 | 10.15 | 7.27 | 2.99 | 0.89 | 0.03 | 1.69 | 0.16 | 0.18 | 0.09 | 0.03 |
| Q167013 | | 1.33 | 171 | 49.2 | 12.45 | 10.90 | 10.15 | 7.32 | 2.90 | 0.73 | 0.03 | 1.77 | 0.17 | 0.18 | 0.09 | 0.02 |
| Q167014 | | 1.16 | 173 | 49.3 | 12.50 | 10.75 | 10.25 | 7.24 | 2.98 | 0.78 | 0.03 | 1.77 | 0.16 | 0.19 | 0.09 | 0.03 |
| Q167015 | | 1.34 | 175 | 50.0 | 12.35 | 11.05 | 10.35 | 7.61 | 2.96 | 0.77 | 0.03 | 1.79 | 0.17 | 0.18 | 0.08 | 0.02 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method Analyte Units LOR | OA-GRA05 LOI % 0.01 | TOT-ICP06 Total % 0.01 |
|---|---|---|---|
| N500226 | | 6.05 | 101.40 |
| N500227 | | 5.31 | 100.96 |
| N500228 | | 4.83 | 98.16 |
| N500229 | | 4.61 | 101.39 |
| N500230 | | 4.19 | 98.11 |
| N500231 | | 4.18 | 99.73 |
| N500232 | | 3.34 | 101.60 |
| N500233 | | 2.91 | 100.66 |
| N500234 | | 2.97 | 98.18 |
| N500235 | | 2.97 | 101.66 |
| N500236 | | 3.15 | 100.57 |
| N500237 | | 2.02 | 98.35 |
| N500238 | | 3.33 | 100.83 |
| N500239 | | 4.65 | 98.35 |
| N500240 | | 3.36 | 101.65 |
| N500241 | | 5.06 | 99.51 |
| N500242 | | 3.30 | 100.72 |
| N500243 | | 2.92 | 100.74 |
| N500244 | | 2.95 | 99.44 |
| N500245 | | 3.09 | 98.75 |
| N500246 | | 2.92 | 101.10 |
| N500247 | | 2.75 | 101.01 |
| N500248 | | 2.69 | 100.47 |
| N500249 | | 3.19 | 100.95 |
| N500250 | | 3.08 | 98.41 |
| Q167001 | | 3.96 | 98.08 |
| Q167002 | | 3.27 | 98.83 |
| Q167003 | | 3.19 | 101.16 |
| Q167004 | | 3.29 | 99.89 |
| Q167005 | | 2.98 | 98.69 |
| Q167006 | | 2.95 | 99.74 |
| Q167007 | | 2.29 | 99.02 |
| Q167008 | | 3.03 | 98.46 |
| Q167009 | | 2.92 | 101.08 |
| Q167010 | | 2.72 | 98.57 |
| Q167011 | | 2.70 | 98.07 |
| Q167012 | | 2.75 | 98.53 |
| Q167013 | | 2.70 | 98.61 |
| Q167014 | | 2.87 | 98.94 |
| Q167015 | | 2.97 | 100.33 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | WEI-21 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | S-IR08 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Pt | Pd | S | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc |
| | Units | kg | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.001 | 0.005 | 0.001 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 |
| Q167016 | | 3.26 | 0.003 | 0.012 | 0.010 | 0.21 | <0.5 | <5 | <0.5 | 49 | 109 | 20 | 1 | 123 | 8 | 28 |
| Q167017 | | 3.36 | 0.004 | 0.010 | 0.010 | 0.09 | <0.5 | <5 | <0.5 | 51 | 107 | 20 | 1 | 125 | 4 | 28 |
| Q167018 | | 3.54 | 0.003 | 0.009 | 0.008 | 0.20 | <0.5 | <5 | <0.5 | 50 | 115 | 30 | 1 | 122 | 4 | 27 |
| Q167019 | | 3.21 | 0.003 | 0.010 | 0.007 | 0.08 | <0.5 | <5 | <0.5 | 52 | 106 | 30 | <1 | 128 | 6 | 28 |
| Q167020 | | 3.47 | 0.003 | 0.012 | 0.011 | 0.08 | <0.5 | 5 | <0.5 | 54 | 113 | 30 | 1 | 135 | 9 | 29 |
| Q167021 | | 3.34 | 0.003 | 0.011 | 0.006 | 0.07 | <0.5 | <5 | <0.5 | 56 | 120 | 20 | 1 | 138 | 5 | 29 |
| Q167022 | | 3.56 | 0.003 | 0.013 | 0.008 | 0.27 | <0.5 | <5 | <0.5 | 56 | 128 | 20 | 2 | 144 | 5 | 29 |
| Q167023 | | 3.23 | 0.003 | 0.014 | 0.007 | 0.52 | <0.5 | <5 | <0.5 | 57 | 121 | 30 | 1 | 147 | 5 | 29 |
| Q167024 | | 3.43 | 0.004 | 0.014 | 0.007 | 0.13 | <0.5 | <5 | <0.5 | 57 | 126 | 30 | 1 | 151 | 6 | 29 |
| Q167025 | | 3.28 | 0.003 | 0.014 | 0.007 | 0.07 | <0.5 | <5 | <0.5 | 56 | 120 | 30 | 2 | 153 | 2 | 29 |
| Q167026 | | 3.60 | 0.003 | 0.012 | 0.008 | 0.59 | <0.5 | <5 | <0.5 | 55 | 139 | 30 | 1 | 145 | 13 | 28 |
| Q167027 | | 0.37 | 0.001 | <0.005 | <0.001 | 0.04 | <0.5 | <5 | <0.5 | 25 | 25 | 10 | <1 | 29 | 7 | 13 |
| Q167028 | | 3.34 | 0.004 | 0.015 | 0.007 | 0.25 | <0.5 | <5 | <0.5 | 55 | 126 | 30 | 1 | 148 | 9 | 29 |
| Q167029 | | 3.31 | 0.004 | 0.015 | 0.008 | 0.28 | <0.5 | <5 | <0.5 | 59 | 137 | 30 | 1 | 145 | 3 | 29 |
| Q167030 | | 3.55 | 0.004 | 0.016 | 0.012 | 0.24 | <0.5 | <5 | <0.5 | 59 | 150 | 30 | 1 | 150 | 8 | 30 |
| Q167031 | | 2.30 | 0.004 | 0.016 | 0.012 | 0.21 | <0.5 | <5 | <0.5 | 59 | 132 | 30 | 1 | 157 | 7 | 30 |
| Q167032 | | 2.45 | 0.003 | 0.015 | 0.011 | 0.10 | <0.5 | <5 | <0.5 | 54 | 142 | 30 | 1 | 150 | 7 | 30 |
| Q167033 | | 2.94 | 0.003 | 0.017 | 0.010 | 1.44 | <0.5 | 5 | <0.5 | 67 | 132 | 110 | 1 | 372 | 8 | 26 |
| Q167034 | | 0.98 | 0.002 | 0.005 | 0.003 | 0.36 | <0.5 | <5 | <0.5 | 31 | 7 | 90 | 1 | 41 | 5 | 22 |
| Q167035 | | 2.23 | 0.003 | 0.007 | 0.004 | 1.58 | <0.5 | 6 | <0.5 | 29 | 67 | 70 | 1 | 81 | 3 | 17 |
| Q167036 | | 2.24 | 0.003 | 0.013 | 0.005 | 1.43 | <0.5 | 6 | <0.5 | 44 | 126 | 60 | 1 | 73 | 6 | 25 |
| Q167037 | | 3.19 | 0.002 | <0.005 | 0.001 | 0.32 | <0.5 | <5 | <0.5 | 36 | 30 | 90 | <1 | 29 | <2 | 20 |
| Q167038 | | 2.96 | 0.001 | <0.005 | 0.001 | 0.26 | <0.5 | <5 | <0.5 | 38 | 18 | 80 | 1 | 30 | <2 | 22 |
| Q167039 | | 2.96 | 0.002 | <0.005 | 0.001 | 0.49 | <0.5 | <5 | <0.5 | 38 | 122 | 70 | 1 | 42 | <2 | 23 |
| Q167040 | | 2.64 | 0.001 | <0.005 | 0.001 | 0.21 | <0.5 | <5 | <0.5 | 27 | 20 | 160 | 2 | 40 | 2 | 22 |
| Q167041 | | 2.58 | 0.003 | 0.009 | 0.004 | 2.72 | <0.5 | 7 | <0.5 | 41 | 67 | 80 | <1 | 62 | 8 | 22 |
| Q167042 | | 1.64 | 0.003 | <0.005 | 0.001 | 3.02 | <0.5 | <5 | <0.5 | 25 | 7 | 60 | 3 | 64 | <2 | 14 |
| Q167043 | | 1.35 | 0.005 | <0.005 | 0.001 | 3.17 | <0.5 | <5 | <0.5 | 25 | 17 | 60 | 1 | 68 | 2 | 11 |
| Q167044 | | 1.52 | 0.003 | <0.005 | 0.001 | 2.31 | <0.5 | <5 | <0.5 | 29 | 14 | 100 | <1 | 70 | <2 | 17 |
| Q167045 | | 1.47 | 0.005 | <0.005 | 0.001 | 2.56 | <0.5 | <5 | <0.5 | 26 | 18 | 90 | <1 | 63 | <2 | 13 |
| Q167046 | | 1.97 | 0.006 | 0.027 | 0.009 | 3.91 | <0.5 | 5 | <0.5 | 36 | 37 | 80 | 1 | 97 | <2 | 17 |
| Q167047 | | 0.10 | 0.049 | 0.048 | 0.073 | 1.47 | 0.8 | <5 | <0.5 | 86 | 2590 | 10 | 2 | 2370 | 9 | 17 |
| Q167048 | | 0.88 | 0.006 | 0.027 | 0.014 | 4.28 | <0.5 | <5 | <0.5 | 41 | 38 | 90 | <1 | 106 | <2 | 16 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | ME-4ACD81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Zn | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 2 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167016 | | 95 | 220 | 55.9 | 250 | 1.05 | 3.99 | 1.79 | 2.03 | 16.9 | 5.44 | 5.0 | 0.69 | 24.7 | 0.20 | 17.1 |
| Q167017 | | 95 | 225 | 59.9 | 290 | 0.70 | 3.81 | 1.70 | 2.07 | 17.1 | 5.61 | 4.3 | 0.70 | 24.9 | 0.19 | 18.0 |
| Q167018 | | 102 | 247 | 61.5 | 310 | 0.92 | 3.93 | 1.94 | 2.09 | 17.6 | 6.04 | 4.7 | 0.73 | 25.6 | 0.19 | 18.7 |
| Q167019 | | 105 | 231 | 62.9 | 340 | 1.16 | 3.85 | 1.73 | 2.17 | 17.1 | 5.94 | 4.6 | 0.74 | 26.0 | 0.21 | 18.5 |
| Q167020 | | 104 | 231 | 63.4 | 370 | 1.06 | 3.90 | 1.86 | 2.08 | 17.1 | 6.10 | 4.6 | 0.73 | 26.5 | 0.22 | 18.0 |
| Q167021 | | 115 | 239 | 56.5 | 340 | 1.27 | 4.01 | 1.85 | 2.04 | 16.0 | 5.89 | 5.0 | 0.72 | 25.5 | 0.20 | 17.7 |
| Q167022 | | 109 | 247 | 64.8 | 430 | 1.14 | 4.07 | 1.81 | 2.10 | 16.5 | 5.94 | 4.6 | 0.72 | 26.5 | 0.20 | 18.7 |
| Q167023 | | 95 | 253 | 61.6 | 430 | 0.89 | 3.89 | 1.77 | 2.02 | 15.4 | 5.86 | 4.2 | 0.73 | 25.5 | 0.20 | 18.4 |
| Q167024 | | 115 | 236 | 63.0 | 470 | 1.07 | 4.09 | 1.95 | 2.25 | 15.8 | 6.07 | 4.6 | 0.73 | 25.9 | 0.21 | 18.5 |
| Q167025 | | 111 | 238 | 63.7 | 470 | 1.41 | 3.95 | 1.84 | 2.15 | 16.3 | 6.23 | 4.9 | 0.74 | 25.9 | 0.20 | 18.5 |
| Q167026 | | 108 | 246 | 65.6 | 450 | 1.06 | 4.61 | 2.06 | 2.25 | 16.8 | 6.44 | 4.8 | 0.77 | 29.5 | 0.20 | 20.0 |
| Q167027 | | 63 | 638 | 67.1 | 130 | 0.42 | 3.50 | 2.07 | 1.29 | 19.8 | 4.08 | 3.6 | 0.71 | 32.3 | 0.31 | 8.1 |
| Q167028 | | 119 | 261 | 67.2 | 450 | 1.19 | 4.25 | 1.93 | 2.19 | 17.0 | 5.97 | 5.2 | 0.76 | 27.8 | 0.22 | 19.9 |
| Q167029 | | 121 | 307 | 67.4 | 430 | 1.02 | 4.28 | 1.88 | 2.23 | 16.5 | 6.29 | 5.1 | 0.80 | 27.6 | 0.21 | 19.8 |
| Q167030 | | 127 | 273 | 69.8 | 460 | 1.18 | 4.22 | 1.94 | 2.30 | 16.7 | 6.48 | 5.1 | 0.84 | 28.7 | 0.21 | 20.7 |
| Q167031 | | 109 | 287 | 70.5 | 520 | 1.03 | 4.68 | 1.94 | 2.28 | 16.8 | 6.66 | 4.9 | 0.85 | 29.0 | 0.23 | 20.6 |
| Q167032 | | 110 | 278 | 63.3 | 480 | 1.38 | 4.28 | 1.94 | 2.22 | 16.3 | 6.46 | 4.9 | 0.82 | 28.2 | 0.22 | 19.7 |
| Q167033 | | 105 | 86.5 | 70.3 | 1110 | 1.94 | 5.19 | 2.23 | 2.47 | 15.5 | 7.34 | 5.5 | 0.92 | 31.1 | 0.24 | 23.3 |
| Q167034 | | 138 | 63.6 | 57.5 | 130 | 0.63 | 4.51 | 2.09 | 1.99 | 19.7 | 6.18 | 5.4 | 0.82 | 26.1 | 0.22 | 20.4 |
| Q167035 | | 105 | 435 | 66.3 | 150 | 1.20 | 3.71 | 1.66 | 1.71 | 18.3 | 5.32 | 4.0 | 0.68 | 31.7 | 0.20 | 12.3 |
| Q167036 | | 131 | 189.5 | 57.7 | 160 | 1.46 | 4.53 | 2.04 | 2.13 | 17.0 | 5.97 | 4.8 | 0.79 | 26.4 | 0.23 | 19.5 |
| Q167037 | | 79 | 123.5 | 69.9 | 60 | 1.91 | 4.95 | 2.10 | 2.50 | 18.3 | 7.16 | 5.9 | 0.86 | 32.9 | 0.26 | 22.9 |
| Q167038 | | 76 | 168.5 | 70.8 | 60 | 1.49 | 4.39 | 2.07 | 2.33 | 19.1 | 6.46 | 5.8 | 0.83 | 31.0 | 0.23 | 21.2 |
| Q167039 | | 119 | 146.0 | 67.2 | 80 | 2.40 | 4.27 | 2.04 | 2.22 | 17.2 | 6.39 | 5.1 | 0.78 | 31.3 | 0.22 | 20.4 |
| Q167040 | | 87 | 98.1 | 136.5 | 90 | 1.25 | 6.33 | 2.73 | 3.56 | 20.2 | 9.45 | 6.1 | 1.11 | 68.8 | 0.30 | 23.4 |
| Q167041 | | 104 | 144.5 | 55.0 | 110 | 0.83 | 4.34 | 2.13 | 1.92 | 17.2 | 5.76 | 4.8 | 0.77 | 25.2 | 0.23 | 17.8 |
| Q167042 | | 39 | 409 | 91.3 | 130 | 0.48 | 2.82 | 1.30 | 1.70 | 19.0 | 4.70 | 3.2 | 0.48 | 45.6 | 0.20 | 4.9 |
| Q167043 | | 33 | 379 | 26.3 | 120 | 1.15 | 1.89 | 1.11 | 0.71 | 16.6 | 2.01 | 3.3 | 0.38 | 12.4 | 0.19 | 4.8 |
| Q167044 | | 64 | 375 | 55.1 | 110 | 0.74 | 2.94 | 1.71 | 1.25 | 25.9 | 3.29 | 3.6 | 0.54 | 26.0 | 0.23 | 4.7 |
| Q167045 | | 56 | 175.5 | 20.8 | 140 | 0.63 | 1.85 | 1.20 | 0.64 | 18.3 | 1.90 | 3.2 | 0.41 | 9.5 | 0.18 | 4.3 |
| Q167046 | | 50 | 535 | 65.9 | 210 | 0.90 | 3.39 | 1.88 | 1.32 | 17.3 | 4.39 | 4.0 | 0.65 | 30.3 | 0.23 | 7.6 |
| Q167047 | | 91 | 245 | 24.7 | 150 | 0.54 | 3.52 | 1.86 | 1.39 | 18.2 | 3.68 | 2.4 | 0.68 | 11.0 | 0.26 | 3.0 |
| Q167048 | | 62 | 99.6 | 76.5 | 200 | 0.61 | 4.22 | 2.15 | 1.44 | 19.7 | 5.40 | 4.5 | 0.76 | 34.4 | 0.28 | 7.9 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167016 | | 32.5 | 7.39 | 22.8 | 6.89 | 1 | 759 | 1.0 | 0.78 | 1.71 | <0.5 | 0.20 | 0.56 | 245 | <1 | 16.1 |
| Q167017 | | 34.9 | 8.16 | 25.1 | 7.31 | 1 | 626 | 1.0 | 0.75 | 1.89 | <0.5 | 0.24 | 0.64 | 261 | <1 | 17.3 |
| Q167018 | | 35.2 | 8.31 | 25.5 | 7.37 | 1 | 685 | 1.1 | 0.79 | 1.96 | <0.5 | 0.25 | 0.66 | 267 | <1 | 17.9 |
| Q167019 | | 35.8 | 8.37 | 21.5 | 7.10 | 1 | 630 | 1.2 | 0.75 | 1.94 | <0.5 | 0.24 | 0.62 | 268 | <1 | 17.7 |
| Q167020 | | 36.4 | 8.56 | 22.5 | 7.43 | 1 | 572 | 1.1 | 0.77 | 1.97 | <0.5 | 0.23 | 0.66 | 274 | <1 | 18.2 |
| Q167021 | | 33.3 | 7.66 | 24.7 | 7.10 | 1 | 577 | 1.0 | 0.80 | 1.81 | <0.5 | 0.24 | 0.53 | 257 | <1 | 15.9 |
| Q167022 | | 36.9 | 8.51 | 27.3 | 7.83 | 1 | 539 | 1.1 | 0.77 | 2.00 | <0.5 | 0.23 | 0.67 | 275 | <1 | 18.2 |
| Q167023 | | 36.1 | 8.33 | 27.8 | 7.08 | 1 | 660 | 1.1 | 0.74 | 1.95 | <0.5 | 0.24 | 0.67 | 262 | <1 | 17.6 |
| Q167024 | | 36.0 | 8.51 | 25.5 | 7.58 | 1 | 535 | 1.1 | 0.80 | 1.96 | <0.5 | 0.26 | 0.65 | 272 | <1 | 18.1 |
| Q167025 | | 36.7 | 8.65 | 26.6 | 7.62 | 1 | 549 | 1.1 | 0.78 | 2.03 | <0.5 | 0.23 | 0.71 | 269 | <1 | 18.1 |
| Q167026 | | 38.0 | 8.68 | 25.0 | 8.57 | 2 | 594 | 1.1 | 0.86 | 2.26 | <0.5 | 0.26 | 0.63 | 283 | <1 | 17.9 |
| Q167027 | | 28.5 | 7.65 | 64.9 | 5.31 | 1 | 393 | 0.5 | 0.63 | 7.76 | <0.5 | 0.31 | 1.69 | 132 | 1 | 19.5 |
| Q167028 | | 39.2 | 8.95 | 28.6 | 8.02 | 1 | 560 | 1.2 | 0.81 | 2.06 | <0.5 | 0.23 | 0.75 | 278 | <1 | 18.8 |
| Q167029 | | 38.3 | 8.99 | 33.9 | 7.85 | 1 | 506 | 1.2 | 0.81 | 2.20 | <0.5 | 0.28 | 0.73 | 273 | <1 | 18.7 |
| Q167030 | | 39.1 | 9.20 | 31.9 | 8.04 | 1 | 521 | 1.3 | 0.86 | 2.01 | <0.5 | 0.25 | 0.70 | 282 | <1 | 19.5 |
| Q167031 | | 40.6 | 9.41 | 33.1 | 8.37 | 1 | 554 | 1.2 | 0.84 | 2.07 | <0.5 | 0.25 | 0.71 | 295 | <1 | 20.0 |
| Q167032 | | 37.6 | 8.70 | 33.8 | 8.57 | 1 | 494 | 1.2 | 0.89 | 1.85 | <0.5 | 0.24 | 0.58 | 282 | <1 | 17.7 |
| Q167033 | | 42.2 | 9.35 | 15.5 | 8.58 | 2 | 125.0 | 1.4 | 0.95 | 2.24 | <0.5 | 0.28 | 2.28 | 272 | 1 | 20.2 |
| Q167034 | | 34.8 | 7.76 | 5.4 | 7.41 | 1 | 197.0 | 1.2 | 0.80 | 3.06 | <0.5 | 0.29 | 1.41 | 254 | 2 | 20.3 |
| Q167035 | | 34.6 | 8.51 | 33.6 | 6.97 | 1 | 377 | 0.7 | 0.69 | 4.74 | <0.5 | 0.23 | 1.41 | 161 | 1 | 16.0 |
| Q167036 | | 33.9 | 7.70 | 15.4 | 7.13 | 2 | 277 | 1.1 | 0.83 | 2.18 | <0.5 | 0.27 | 0.84 | 252 | 1 | 17.9 |
| Q167037 | | 38.4 | 9.25 | 35.2 | 8.29 | 2 | 158.5 | 1.4 | 0.90 | 3.03 | <0.5 | 0.27 | 1.09 | 243 | 1 | 19.7 |
| Q167038 | | 38.2 | 9.27 | 22.3 | 7.86 | 2 | 166.0 | 1.3 | 0.87 | 3.09 | <0.5 | 0.27 | 0.97 | 313 | 1 | 19.9 |
| Q167039 | | 37.7 | 8.92 | 17.8 | 7.84 | 2 | 313 | 1.2 | 0.83 | 2.65 | <0.5 | 0.27 | 0.82 | 254 | 1 | 18.3 |
| Q167040 | | 63.7 | 16.50 | 24.1 | 12.10 | 2 | 112.5 | 1.5 | 1.20 | 3.33 | <0.5 | 0.36 | 1.36 | 326 | 1 | 31.4 |
| Q167041 | | 32.0 | 7.33 | 14.6 | 7.32 | 2 | 144.5 | 1.1 | 0.77 | 2.47 | <0.5 | 0.27 | 2.44 | 245 | 1 | 18.8 |
| Q167042 | | 38.4 | 10.35 | 40.2 | 6.61 | 2 | 115.5 | 0.4 | 0.57 | 9.23 | <0.5 | 0.18 | 1.77 | 122 | 2 | 13.8 |
| Q167043 | | 12.0 | 3.15 | 46.5 | 2.46 | 1 | 185.5 | 0.3 | 0.31 | 4.99 | <0.5 | 0.19 | 1.76 | 145 | 1 | 10.4 |
| Q167044 | | 24.6 | 6.56 | 34.2 | 4.54 | 2 | 141.0 | 0.3 | 0.50 | 5.50 | <0.5 | 0.23 | 1.67 | 147 | 2 | 15.8 |
| Q167045 | | 10.0 | 2.61 | 19.0 | 2.15 | 1 | 107.5 | 0.3 | 0.30 | 5.25 | <0.5 | 0.18 | 1.42 | 109 | 1 | 10.3 |
| Q167046 | | 30.4 | 8.05 | 44.6 | 5.58 | 2 | 152.5 | 0.5 | 0.56 | 5.47 | <0.5 | 0.29 | 1.85 | 173 | 2 | 16.7 |
| Q167047 | | 14.0 | 3.17 | 14.4 | 3.47 | 1 | 363 | 0.2 | 0.59 | 1.64 | <0.5 | 0.31 | 0.34 | 105 | 3 | 17.9 |
| Q167048 | | 36.6 | 9.47 | 10.6 | 7.28 | 2 | 87.4 | 0.5 | 0.72 | 6.06 | <0.5 | 0.34 | 1.73 | 213 | 2 | 20.0 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167016 | | 1.33 | 190 | 49.2 | 12.00 | 11.60 | 10.50 | 7.93 | 2.70 | 0.72 | 0.04 | 1.80 | 0.16 | 0.18 | 0.08 | 0.02 |
| Q167017 | | 1.23 | 169 | 50.2 | 11.95 | 11.55 | 10.45 | 7.93 | 2.89 | 0.81 | 0.04 | 1.88 | 0.18 | 0.19 | 0.08 | 0.03 |
| Q167018 | | 1.37 | 180 | 49.1 | 11.50 | 11.45 | 10.05 | 7.95 | 2.85 | 0.81 | 0.04 | 1.89 | 0.17 | 0.19 | 0.08 | 0.03 |
| Q167019 | | 1.34 | 181 | 48.9 | 11.15 | 11.65 | 10.20 | 7.96 | 2.73 | 0.73 | 0.05 | 1.89 | 0.18 | 0.20 | 0.07 | 0.03 |
| Q167020 | | 1.39 | 182 | 50.6 | 11.15 | 12.15 | 10.45 | 8.46 | 2.78 | 0.78 | 0.05 | 1.98 | 0.18 | 0.22 | 0.07 | 0.03 |
| Q167021 | | 1.35 | 188 | 48.8 | 10.70 | 12.10 | 9.95 | 8.26 | 2.75 | 0.79 | 0.05 | 1.97 | 0.19 | 0.21 | 0.06 | 0.03 |
| Q167022 | | 1.42 | 182 | 49.2 | 10.45 | 12.45 | 10.05 | 8.66 | 2.68 | 0.82 | 0.06 | 1.97 | 0.19 | 0.20 | 0.06 | 0.03 |
| Q167023 | | 1.36 | 175 | 49.7 | 10.40 | 12.65 | 10.25 | 8.87 | 2.46 | 0.89 | 0.06 | 2.01 | 0.18 | 0.21 | 0.08 | 0.03 |
| Q167024 | | 1.41 | 181 | 48.8 | 10.05 | 12.30 | 10.00 | 8.91 | 2.54 | 0.79 | 0.06 | 1.97 | 0.19 | 0.21 | 0.06 | 0.03 |
| Q167025 | | 1.39 | 191 | 49.2 | 10.10 | 12.45 | 9.97 | 9.10 | 2.45 | 0.83 | 0.07 | 1.96 | 0.19 | 0.20 | 0.07 | 0.03 |
| Q167026 | | 1.60 | 197 | 48.5 | 9.93 | 12.95 | 10.15 | 9.26 | 2.41 | 0.73 | 0.07 | 2.08 | 0.20 | 0.22 | 0.06 | 0.03 |
| Q167027 | | 1.81 | 150 | 59.6 | 15.90 | 7.20 | 5.72 | 4.05 | 3.46 | 2.10 | 0.02 | 0.65 | 0.12 | 0.16 | 0.05 | 0.07 |
| Q167028 | | 1.47 | 199 | 50.1 | 10.25 | 12.90 | 9.88 | 8.95 | 2.51 | 0.90 | 0.07 | 2.13 | 0.20 | 0.22 | 0.07 | 0.03 |
| Q167029 | | 1.44 | 196 | 49.3 | 10.20 | 12.75 | 9.31 | 8.61 | 2.67 | 1.00 | 0.06 | 2.12 | 0.20 | 0.22 | 0.06 | 0.04 |
| Q167030 | | 1.52 | 190 | 48.6 | 9.80 | 12.80 | 9.59 | 8.76 | 2.59 | 0.88 | 0.06 | 2.10 | 0.20 | 0.22 | 0.06 | 0.03 |
| Q167031 | | 1.46 | 196 | 49.0 | 9.70 | 12.90 | 9.84 | 9.16 | 2.40 | 0.97 | 0.07 | 2.06 | 0.20 | 0.22 | 0.06 | 0.03 |
| Q167032 | | 1.43 | 191 | 48.8 | 9.63 | 12.95 | 9.92 | 9.24 | 2.65 | 0.86 | 0.07 | 2.16 | 0.21 | 0.23 | 0.05 | 0.03 |
| Q167033 | | 1.70 | 221 | 48.6 | 9.11 | 13.95 | 5.57 | 12.05 | 1.80 | 0.48 | 0.18 | 2.49 | 0.22 | 0.25 | 0.01 | 0.01 |
| Q167034 | | 1.59 | 209 | 52.3 | 12.45 | 10.75 | 7.52 | 5.23 | 4.22 | 0.16 | 0.02 | 2.04 | 0.18 | 0.25 | 0.02 | 0.01 |
| Q167035 | | 1.43 | 162 | 57.1 | 13.65 | 8.34 | 4.27 | 4.49 | 4.66 | 0.99 | 0.03 | 1.19 | 0.13 | 0.25 | 0.04 | 0.05 |
| Q167036 | | 1.58 | 189 | 48.6 | 11.30 | 11.95 | 8.12 | 5.57 | 3.76 | 0.43 | 0.03 | 2.20 | 0.31 | 0.27 | 0.03 | 0.02 |
| Q167037 | | 1.79 | 222 | 50.3 | 12.30 | 11.10 | 7.11 | 5.37 | 2.76 | 0.69 | 0.01 | 2.09 | 0.21 | 0.27 | 0.02 | 0.01 |
| Q167038 | | 1.56 | 210 | 47.8 | 11.80 | 11.60 | 7.98 | 4.88 | 3.02 | 0.46 | 0.01 | 2.12 | 0.20 | 0.24 | 0.02 | 0.02 |
| Q167039 | | 1.55 | 196 | 48.5 | 11.50 | 11.65 | 8.53 | 5.47 | 2.91 | 0.52 | 0.01 | 2.12 | 0.22 | 0.25 | 0.04 | 0.02 |
| Q167040 | | 2.09 | 231 | 51.0 | 12.45 | 12.60 | 3.73 | 8.43 | 0.99 | 0.42 | 0.01 | 2.23 | 0.17 | 0.25 | 0.01 | 0.01 |
| Q167041 | | 1.64 | 181 | 50.4 | 11.40 | 11.45 | 7.02 | 5.12 | 3.69 | 0.48 | 0.02 | 1.94 | 0.16 | 0.23 | 0.02 | 0.02 |
| Q167042 | | 1.29 | 117 | 59.7 | 13.85 | 9.06 | 0.64 | 6.04 | 3.70 | 1.98 | 0.02 | 0.55 | 0.08 | 0.27 | 0.01 | 0.05 |
| Q167043 | | 1.24 | 123 | 62.7 | 13.70 | 8.14 | 0.44 | 4.90 | 4.10 | 1.24 | 0.02 | 0.57 | 0.07 | 0.12 | 0.02 | 0.04 |
| Q167044 | | 1.59 | 132 | 52.6 | 15.20 | 10.10 | 0.96 | 9.41 | 3.17 | 1.46 | 0.01 | 0.53 | 0.10 | 0.54 | 0.01 | 0.04 |
| Q167045 | | 1.08 | 115 | 58.5 | 13.90 | 9.26 | 0.43 | 7.75 | 3.59 | 0.76 | 0.02 | 0.56 | 0.11 | 0.17 | 0.01 | 0.02 |
| Q167046 | | 1.86 | 148 | 59.5 | 13.15 | 10.00 | 0.44 | 6.34 | 3.38 | 1.55 | 0.03 | 1.03 | 0.08 | 0.16 | 0.01 | 0.06 |
| Q167047 | | 1.74 | 87 | 47.8 | 19.20 | 10.90 | 9.72 | 5.51 | 2.59 | 0.55 | 0.02 | 0.55 | 0.15 | 0.17 | 0.04 | 0.03 |
| Q167048 | | 1.89 | 164 | 55.7 | 13.15 | 11.40 | 0.48 | 8.34 | 3.49 | 0.46 | 0.03 | 0.95 | 0.10 | 0.18 | 0.01 | 0.01 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

| Sample Description | Method Analyte Units LOR | OA-GRA05 LOI % 0.01 | TOT-ICP06 Total % 0.01 |
|---|---|---|---|
| Q167016 | | 3.03 | 99.96 |
| Q167017 | | 2.74 | 100.92 |
| Q167018 | | 3.04 | 99.15 |
| Q167019 | | 2.79 | 98.53 |
| Q167020 | | 2.41 | 101.31 |
| Q167021 | | 2.24 | 98.10 |
| Q167022 | | 2.43 | 99.25 |
| Q167023 | | 2.53 | 100.32 |
| Q167024 | | 2.43 | 98.34 |
| Q167025 | | 2.11 | 98.73 |
| Q167026 | | 2.77 | 99.36 |
| Q167027 | | 1.96 | 101.06 |
| Q167028 | | 2.24 | 100.45 |
| Q167029 | | 2.31 | 98.85 |
| Q167030 | | 2.49 | 98.18 |
| Q167031 | | 2.52 | 99.13 |
| Q167032 | | 2.53 | 99.33 |
| Q167033 | | 5.52 | 100.24 |
| Q167034 | | 6.63 | 101.78 |
| Q167035 | | 4.85 | 100.04 |
| Q167036 | | 6.73 | 99.32 |
| Q167037 | | 8.10 | 100.34 |
| Q167038 | | 8.73 | 98.88 |
| Q167039 | | 7.87 | 99.61 |
| Q167040 | | 7.37 | 99.67 |
| Q167041 | | 6.19 | 98.14 |
| Q167042 | | 5.08 | 101.03 |
| Q167043 | | 4.95 | 101.01 |
| Q167044 | | 6.25 | 100.38 |
| Q167045 | | 5.70 | 100.78 |
| Q167046 | | 6.03 | 101.76 |
| Q167047 | | 2.13 | 99.36 |
| Q167048 | | 7.00 | 101.30 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13207290

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | ME-4ACD81 | ME-ICP06 | ME-MS81 | OA-GRA05 |
| | PGM-ICP23 | S-IR08 | TOT-ICP06 | |

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

# CERTIFICATE TB13212250

Project: 23

P.O. No.:

This report is for 4 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 25-NOV-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTX MINERALS WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13212250

| Sample Description | Method | WEI-21 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Pt | Pd | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.001 | 0.005 | 0.001 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 |
| Q167109 | | 0.24 | 0.022 | 0.014 | 0.009 | <0.5 | <5 | <0.5 | 49 | 70 | 80 | <1 | 79 | 9 | 27 | 79 |
| Q167110 | | 0.17 | 0.013 | 0.154 | 0.077 | <0.5 | <5 | <0.5 | 50 | 35 | 60 | <1 | 100 | 7 | 28 | 94 |
| Q167111 | | 0.26 | 0.014 | 0.070 | 0.046 | <0.5 | 8 | <0.5 | 55 | 92 | 80 | <1 | 85 | 9 | 27 | 82 |
| Q167112 | | 0.34 | 0.012 | 0.035 | 0.021 | <0.5 | <5 | <0.5 | 55 | 18 | 50 | 2 | 77 | 3 | 23 | 82 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13212250

| Sample Description | Method | S-IR08 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | S | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167109 | | 3.28 | 90.3 | 59.6 | 160 | 1.32 | 3.72 | 1.88 | 1.65 | 17.6 | 5.36 | 6.5 | 0.71 | 25.4 | 0.22 | 20.4 |
| Q167110 | | 0.40 | 164.5 | 79.8 | 330 | 0.86 | 5.27 | 2.37 | 2.52 | 16.6 | 7.05 | 5.6 | 0.94 | 33.7 | 0.25 | 20.8 |
| Q167111 | | 3.24 | 140.0 | 75.0 | 270 | 1.26 | 4.75 | 2.17 | 1.95 | 16.8 | 6.34 | 6.0 | 0.86 | 32.4 | 0.27 | 23.2 |
| Q167112 | | 2.26 | 130.5 | 79.1 | 210 | 0.90 | 5.02 | 2.42 | 2.34 | 16.6 | 6.81 | 5.0 | 0.94 | 34.2 | 0.29 | 20.8 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13212250

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167109 | | 31.2 | 7.66 | 11.4 | 6.34 | 2 | 230 | 1.2 | 0.68 | 5.32 | <0.5 | 0.23 | 2.27 | 225 | 3 | 18.5 |
| Q167110 | | 43.7 | 10.35 | 10.5 | 8.55 | 2 | 584 | 1.3 | 0.96 | 3.62 | <0.5 | 0.29 | 1.05 | 270 | 1 | 23.9 |
| Q167111 | | 39.7 | 9.57 | 8.4 | 7.65 | 4 | 188.5 | 1.4 | 0.85 | 4.87 | <0.5 | 0.26 | 1.47 | 261 | 2 | 22.2 |
| Q167112 | | 41.5 | 10.15 | 11.2 | 8.00 | 4 | 143.5 | 1.3 | 0.97 | 4.34 | <0.5 | 0.29 | 1.32 | 246 | 1 | 23.5 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13212250

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167109 | | 1.40 | 233 | 49.9 | 10.95 | 12.45 | 2.60 | 10.45 | 1.82 | 0.51 | 0.02 | 1.91 | 0.12 | 0.19 | 0.02 | 0.01 |
| Q167110 | | 1.95 | 208 | 52.3 | 10.95 | 12.80 | 5.33 | 9.00 | 2.22 | 0.37 | 0.04 | 1.92 | 0.15 | 0.23 | 0.06 | 0.02 |
| Q167111 | | 1.74 | 219 | 48.0 | 11.10 | 13.05 | 3.14 | 10.20 | 2.17 | 0.32 | 0.03 | 2.07 | 0.13 | 0.20 | 0.02 | 0.01 |
| Q167112 | | 1.87 | 186 | 48.8 | 11.00 | 12.95 | 5.40 | 8.49 | 2.75 | 0.50 | 0.03 | 1.94 | 0.13 | 0.19 | 0.01 | 0.01 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13212250

| Sample Description | Method Analyte Units LOR | OA-GRA05 LOI % 0.01 | TOT-ICP06 Total % 0.01 |
|---|---|---|---|
| Q167109 | | 7.89 | 98.84 |
| Q167110 | | 5.47 | 100.86 |
| Q167111 | | 7.82 | 98.26 |
| Q167112 | | 6.31 | 98.51 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 8-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13212250

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | LOG-22 | PUL-31 | PUL-QC |
| | SPL-21 | WEI-21 | | |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | ME-4ACD81 | ME-ICP06 | ME-MS81 | OA-GRA05 |
| | PGM-ICP23 | S-IR08 | TOT-ICP06 | |

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410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

# CERTIFICATE TB13213251

Project: 23

P.O. No.:

This report is for 60 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-NOV-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTX MINERALS WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-QC | Pulverizing QC Test |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167049 | | 1.75 | 417 | 58.7 | 150 | 1.37 | 2.98 | 1.51 | 1.56 | 16.3 | 4.61 | 4.4 | 0.60 | 27.3 | 0.16 | 12.7 |
| Q167050 | | 1.71 | 169.0 | 66.4 | 180 | 0.98 | 3.64 | 1.75 | 1.77 | 14.7 | 5.45 | 5.0 | 0.71 | 29.2 | 0.19 | 18.4 |
| Q167051 | | 3.41 | 351 | 84.9 | 40 | 0.67 | 4.81 | 2.16 | 2.59 | 20.0 | 7.07 | 7.0 | 0.86 | 35.8 | 0.21 | 25.0 |
| Q167052 | | 3.24 | 282 | 75.4 | 50 | 0.64 | 4.36 | 2.04 | 2.29 | 19.3 | 6.60 | 5.7 | 0.82 | 32.5 | 0.20 | 22.0 |
| Q167053 | | 3.21 | 283 | 66.5 | 70 | 0.69 | 4.05 | 1.84 | 2.22 | 18.5 | 6.04 | 4.9 | 0.73 | 28.6 | 0.17 | 19.9 |
| Q167054 | | 3.15 | 293 | 65.8 | 70 | 0.80 | 3.98 | 1.78 | 2.28 | 18.2 | 6.29 | 5.1 | 0.71 | 28.4 | 0.18 | 20.7 |
| Q167055 | | 3.49 | 282 | 67.1 | 80 | 0.86 | 3.87 | 1.65 | 2.10 | 17.7 | 6.30 | 4.8 | 0.68 | 29.1 | 0.17 | 19.2 |
| Q167056 | | 3.17 | 328 | 69.6 | 90 | 0.81 | 3.93 | 1.84 | 2.33 | 18.0 | 6.27 | 5.0 | 0.73 | 29.9 | 0.19 | 20.2 |
| Q167057 | | 3.16 | 288 | 66.7 | 90 | 0.77 | 3.84 | 1.91 | 2.19 | 18.0 | 6.07 | 5.2 | 0.71 | 28.2 | 0.22 | 20.7 |
| Q167058 | | 3.17 | 336 | 67.0 | 110 | 0.68 | 4.09 | 1.81 | 2.34 | 18.5 | 6.22 | 5.2 | 0.73 | 28.3 | 0.21 | 20.4 |
| Q167059 | | 3.42 | 280 | 70.8 | 90 | 0.57 | 4.04 | 1.89 | 2.32 | 18.2 | 6.34 | 5.9 | 0.76 | 30.2 | 0.22 | 20.0 |
| Q167060 | | 3.41 | 249 | 71.6 | 90 | 0.58 | 4.21 | 1.90 | 2.28 | 18.2 | 6.39 | 6.5 | 0.79 | 30.8 | 0.19 | 20.9 |
| Q167061 | | 3.38 | 313 | 71.6 | 90 | 0.66 | 4.20 | 1.81 | 2.33 | 18.9 | 6.38 | 5.3 | 0.74 | 30.5 | 0.20 | 21.0 |
| Q167062 | | 3.53 | 300 | 66.7 | 90 | 0.63 | 4.04 | 1.88 | 2.25 | 17.9 | 6.35 | 5.4 | 0.73 | 28.4 | 0.17 | 20.4 |
| Q167063 | | 3.27 | 275 | 68.4 | 80 | 0.56 | 3.85 | 1.78 | 2.22 | 18.4 | 5.95 | 5.2 | 0.75 | 29.4 | 0.17 | 19.8 |
| Q167064 | | 3.37 | 195.5 | 67.4 | 90 | 0.40 | 3.79 | 1.68 | 2.22 | 18.4 | 6.22 | 5.6 | 0.70 | 28.4 | 0.18 | 20.8 |
| Q167065 | | 3.54 | 269 | 68.0 | 100 | 0.59 | 3.89 | 1.96 | 2.22 | 18.2 | 6.38 | 5.2 | 0.70 | 29.1 | 0.21 | 20.3 |
| Q167066 | | 3.32 | 175.5 | 63.5 | 120 | 0.54 | 3.79 | 1.74 | 2.15 | 17.9 | 5.99 | 4.8 | 0.73 | 27.4 | 0.18 | 19.9 |
| Q167067 | | 0.45 | 648 | 64.0 | 120 | 0.58 | 3.26 | 1.93 | 1.25 | 18.1 | 4.19 | 4.1 | 0.68 | 32.4 | 0.26 | 7.4 |
| Q167068 | | 3.68 | 271 | 70.7 | 120 | 0.46 | 3.89 | 1.88 | 2.27 | 17.7 | 6.23 | 6.0 | 0.78 | 30.4 | 0.21 | 20.3 |
| Q167069 | | 3.34 | 226 | 64.0 | 130 | 0.58 | 4.06 | 1.70 | 2.17 | 18.1 | 6.27 | 5.0 | 0.70 | 27.0 | 0.20 | 19.6 |
| Q167070 | | 3.43 | 342 | 73.6 | 120 | 1.23 | 4.25 | 1.86 | 2.36 | 17.8 | 6.47 | 5.7 | 0.77 | 31.7 | 0.19 | 21.8 |
| Q167071 | | 3.93 | 180.0 | 57.5 | 560 | 1.19 | 3.81 | 1.81 | 1.92 | 14.9 | 5.58 | 4.7 | 0.62 | 24.0 | 0.20 | 17.8 |
| Q167072 | | 3.75 | 228 | 60.7 | 740 | 1.84 | 3.79 | 1.85 | 2.07 | 14.7 | 6.03 | 5.0 | 0.69 | 25.2 | 0.19 | 18.0 |
| Q167073 | | 3.65 | 78.9 | 47.2 | 1230 | 1.10 | 3.27 | 1.49 | 1.67 | 11.5 | 5.22 | 4.1 | 0.60 | 19.6 | 0.16 | 14.0 |
| Q167074 | | 3.13 | 11.2 | 37.3 | 1230 | 0.95 | 2.64 | 1.22 | 1.41 | 9.5 | 4.21 | 3.3 | 0.52 | 15.0 | 0.14 | 10.4 |
| Q167075 | | 1.80 | 120.0 | 41.0 | 1090 | 0.80 | 3.02 | 1.37 | 1.48 | 11.3 | 4.60 | 3.4 | 0.56 | 17.0 | 0.14 | 10.9 |
| Q167076 | | 2.26 | 67.7 | 34.0 | 1240 | 2.59 | 2.66 | 1.25 | 1.42 | 9.3 | 4.15 | 3.1 | 0.49 | 13.6 | 0.11 | 9.4 |
| Q167077 | | 1.83 | 66.1 | 36.7 | 1380 | 1.80 | 2.59 | 1.29 | 1.33 | 9.0 | 4.12 | 2.8 | 0.49 | 15.2 | 0.11 | 9.2 |
| Q167078 | | 2.61 | 56.1 | 40.6 | 760 | 0.51 | 3.04 | 1.40 | 1.48 | 10.1 | 4.43 | 3.6 | 0.55 | 16.6 | 0.14 | 10.7 |
| Q167079 | | 2.14 | 38.1 | 42.7 | 480 | 0.59 | 2.99 | 1.48 | 1.51 | 11.2 | 4.58 | 3.4 | 0.55 | 17.4 | 0.15 | 11.3 |
| Q167080 | | 2.31 | 68.5 | 49.6 | 400 | 0.77 | 3.24 | 1.67 | 1.57 | 11.0 | 4.96 | 4.3 | 0.58 | 21.0 | 0.16 | 13.4 |
| Q167081 | | 2.51 | 39.5 | 47.6 | 490 | 0.53 | 3.26 | 1.61 | 1.68 | 11.5 | 5.25 | 3.9 | 0.60 | 19.7 | 0.14 | 13.1 |
| Q167082 | | 2.34 | 96.6 | 48.1 | 370 | 0.56 | 3.46 | 1.58 | 1.73 | 12.4 | 5.00 | 4.1 | 0.61 | 19.7 | 0.16 | 13.4 |
| Q167083 | | 2.18 | 40.8 | 51.8 | 300 | 1.30 | 3.53 | 1.60 | 1.68 | 12.0 | 5.16 | 3.9 | 0.65 | 21.7 | 0.16 | 12.4 |
| Q167084 | | 2.27 | 23.5 | 39.1 | 360 | 0.80 | 3.09 | 1.36 | 1.66 | 10.4 | 4.92 | 3.4 | 0.53 | 16.5 | 0.14 | 10.6 |
| Q167085 | | 2.64 | 10.7 | 32.8 | 530 | 0.58 | 3.00 | 1.34 | 1.50 | 9.8 | 4.66 | 3.1 | 0.53 | 13.3 | 0.12 | 8.6 |
| Q167086 | | 2.45 | 4.4 | 31.5 | 950 | 0.54 | 2.81 | 1.20 | 1.23 | 9.2 | 3.82 | 3.0 | 0.46 | 13.2 | 0.10 | 8.3 |
| Q167087 | | 0.10 | 246 | 22.9 | 140 | 0.38 | 3.07 | 1.82 | 1.35 | 16.8 | 3.62 | 2.2 | 0.64 | 10.9 | 0.23 | 2.6 |
| Q167088 | | 2.53 | 3.0 | 29.9 | 1070 | 0.38 | 2.45 | 0.98 | 1.17 | 8.5 | 3.70 | 2.9 | 0.42 | 13.3 | 0.13 | 8.0 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167049 | | 30.9 | 7.39 | 56.6 | 6.00 | 1 | 495 | 0.9 | 0.61 | 3.91 | <0.5 | 0.18 | 1.85 | 150 | 1 | 15.3 |
| Q167050 | | 38.1 | 8.81 | 26.0 | 6.94 | 2 | 484 | 1.3 | 0.72 | 2.73 | <0.5 | 0.22 | 1.02 | 190 | 2 | 17.6 |
| Q167051 | | 49.8 | 11.35 | 45.3 | 9.45 | 2 | 765 | 1.6 | 0.98 | 2.62 | <0.5 | 0.29 | 0.98 | 250 | 1 | 21.8 |
| Q167052 | | 44.6 | 10.05 | 35.1 | 8.97 | 2 | 783 | 1.5 | 0.83 | 2.43 | <0.5 | 0.23 | 0.97 | 305 | <1 | 20.3 |
| Q167053 | | 40.2 | 8.93 | 31.0 | 7.76 | 2 | 729 | 1.2 | 0.85 | 2.30 | <0.5 | 0.22 | 0.72 | 356 | <1 | 18.1 |
| Q167054 | | 39.8 | 8.98 | 34.9 | 7.86 | 1 | 718 | 1.3 | 0.83 | 2.12 | <0.5 | 0.22 | 0.73 | 304 | <1 | 18.2 |
| Q167055 | | 40.5 | 9.14 | 32.1 | 7.82 | 1 | 741 | 1.2 | 0.80 | 1.89 | <0.5 | 0.22 | 0.92 | 311 | <1 | 17.4 |
| Q167056 | | 41.1 | 9.37 | 41.0 | 8.26 | 1 | 634 | 1.2 | 0.85 | 2.03 | <0.5 | 0.23 | 0.74 | 283 | <1 | 18.7 |
| Q167057 | | 41.0 | 8.89 | 36.2 | 8.15 | 2 | 683 | 1.3 | 0.86 | 2.05 | <0.5 | 0.23 | 0.80 | 273 | <1 | 18.4 |
| Q167058 | | 40.5 | 9.11 | 44.3 | 7.86 | 2 | 591 | 1.3 | 0.82 | 2.02 | <0.5 | 0.23 | 0.67 | 285 | <1 | 18.5 |
| Q167059 | | 42.0 | 9.53 | 37.6 | 7.88 | 2 | 520 | 1.2 | 0.85 | 2.19 | <0.5 | 0.22 | 0.78 | 268 | <1 | 18.6 |
| Q167060 | | 41.9 | 9.49 | 29.1 | 7.93 | 2 | 758 | 1.4 | 0.86 | 2.33 | <0.5 | 0.23 | 0.90 | 260 | <1 | 19.3 |
| Q167061 | | 42.9 | 9.68 | 41.7 | 8.63 | 1 | 485 | 1.3 | 0.78 | 2.16 | <0.5 | 0.23 | 0.75 | 255 | <1 | 19.1 |
| Q167062 | | 39.9 | 8.94 | 40.7 | 7.97 | 2 | 647 | 1.3 | 0.81 | 2.15 | <0.5 | 0.23 | 0.73 | 255 | <1 | 18.3 |
| Q167063 | | 39.5 | 9.10 | 34.4 | 7.73 | 2 | 966 | 1.3 | 0.77 | 2.04 | <0.5 | 0.21 | 0.78 | 253 | <1 | 18.0 |
| Q167064 | | 40.4 | 9.04 | 24.3 | 7.52 | 2 | 728 | 1.3 | 0.79 | 2.10 | <0.5 | 0.22 | 0.78 | 268 | <1 | 18.4 |
| Q167065 | | 41.0 | 9.13 | 35.1 | 7.88 | 2 | 540 | 1.3 | 0.80 | 2.13 | <0.5 | 0.25 | 0.74 | 271 | <1 | 18.8 |
| Q167066 | | 40.0 | 8.73 | 24.4 | 8.05 | 2 | 575 | 1.2 | 0.81 | 1.94 | <0.5 | 0.23 | 0.73 | 277 | <1 | 17.9 |
| Q167067 | | 29.4 | 7.31 | 62.3 | 5.17 | 1 | 403 | 0.4 | 0.59 | 6.29 | <0.5 | 0.25 | 1.54 | 123 | 1 | 18.6 |
| Q167068 | | 41.5 | 9.47 | 37.6 | 8.37 | 2 | 454 | 1.3 | 0.84 | 2.32 | <0.5 | 0.24 | 0.81 | 255 | <1 | 18.6 |
| Q167069 | | 40.4 | 8.74 | 30.0 | 8.05 | 1 | 448 | 1.2 | 0.79 | 1.84 | <0.5 | 0.22 | 0.70 | 274 | <1 | 18.1 |
| Q167070 | | 44.2 | 9.93 | 41.5 | 8.30 | 2 | 905 | 1.5 | 0.87 | 2.42 | <0.5 | 0.24 | 0.83 | 273 | <1 | 19.7 |
| Q167071 | | 36.0 | 7.85 | 17.0 | 7.17 | 1 | 538 | 1.1 | 0.76 | 1.82 | <0.5 | 0.21 | 0.67 | 266 | <1 | 17.3 |
| Q167072 | | 38.2 | 8.47 | 16.6 | 7.54 | 2 | 465 | 1.2 | 0.79 | 1.81 | <0.5 | 0.22 | 0.65 | 270 | <1 | 18.0 |
| Q167073 | | 30.6 | 6.63 | 8.1 | 6.26 | 2 | 367 | 0.9 | 0.72 | 1.32 | <0.5 | 0.18 | 0.51 | 256 | <1 | 15.3 |
| Q167074 | | 24.8 | 5.19 | 2.2 | 5.07 | 1 | 150.5 | 0.7 | 0.59 | 1.16 | <0.5 | 0.13 | 0.45 | 211 | <1 | 12.8 |
| Q167075 | | 26.2 | 5.89 | 18.8 | 5.34 | 1 | 208 | 0.7 | 0.66 | 2.01 | <0.5 | 0.18 | 1.09 | 219 | <1 | 14.4 |
| Q167076 | | 23.3 | 4.84 | 9.4 | 4.72 | 1 | 202 | 0.6 | 0.53 | 0.92 | <0.5 | 0.12 | 0.35 | 195 | <1 | 12.1 |
| Q167077 | | 23.9 | 5.19 | 6.8 | 5.10 | 1 | 127.0 | 0.6 | 0.56 | 1.04 | <0.5 | 0.12 | 0.41 | 202 | <1 | 12.0 |
| Q167078 | | 26.3 | 5.77 | 9.2 | 5.42 | 1 | 178.0 | 0.7 | 0.59 | 1.48 | <0.5 | 0.17 | 0.60 | 221 | <1 | 13.7 |
| Q167079 | | 27.0 | 5.96 | 5.8 | 5.69 | 1 | 161.5 | 0.8 | 0.61 | 1.35 | <0.5 | 0.16 | 0.60 | 213 | <1 | 14.0 |
| Q167080 | | 31.2 | 6.79 | 11.9 | 6.28 | 1 | 173.0 | 0.8 | 0.66 | 1.75 | <0.5 | 0.17 | 0.60 | 208 | 1 | 15.3 |
| Q167081 | | 31.5 | 6.64 | 5.6 | 6.31 | 1 | 237 | 0.8 | 0.72 | 1.37 | <0.5 | 0.20 | 0.49 | 229 | <1 | 15.9 |
| Q167082 | | 31.9 | 6.77 | 14.3 | 6.42 | 1 | 181.5 | 0.8 | 0.73 | 1.49 | <0.5 | 0.18 | 0.51 | 241 | <1 | 15.9 |
| Q167083 | | 31.8 | 7.16 | 7.2 | 6.37 | 1 | 145.5 | 0.8 | 0.71 | 1.36 | <0.5 | 0.20 | 0.70 | 213 | 1 | 16.4 |
| Q167084 | | 25.7 | 5.90 | 4.7 | 5.34 | 1 | 101.0 | 0.6 | 0.63 | 1.27 | <0.5 | 0.20 | 0.43 | 233 | 1 | 14.2 |
| Q167085 | | 21.8 | 4.84 | 2.4 | 4.78 | 1 | 100.5 | 0.5 | 0.56 | 0.98 | <0.5 | 0.20 | 0.27 | 240 | 1 | 13.2 |
| Q167086 | | 20.7 | 4.59 | 1.6 | 4.60 | 1 | 96.8 | 0.5 | 0.52 | 0.99 | <0.5 | 0.14 | 0.31 | 217 | 1 | 11.8 |
| Q167087 | | 13.8 | 3.01 | 14.5 | 3.36 | 1 | 347 | 0.1 | 0.52 | 1.52 | <0.5 | 0.25 | 0.31 | 95 | 3 | 17.2 |
| Q167088 | | 19.3 | 4.42 | 1.0 | 4.14 | 1 | 147.0 | 0.4 | 0.48 | 1.00 | <0.5 | 0.15 | 0.36 | 200 | 1 | 11.4 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167049 | | 1.36 | 165 | 63.4 | 11.40 | 7.79 | 5.24 | 4.10 | 2.44 | 2.13 | 0.02 | 1.20 | 0.10 | 0.18 | 0.06 | 0.05 |
| Q167050 | | 1.34 | 206 | 60.0 | 9.61 | 9.73 | 6.96 | 5.87 | 2.10 | 1.04 | 0.03 | 1.64 | 0.15 | 0.20 | 0.06 | 0.02 |
| Q167051 | | 1.61 | 276 | 50.1 | 13.50 | 12.10 | 7.58 | 4.23 | 3.16 | 1.45 | <0.01 | 2.34 | 0.16 | 0.31 | 0.09 | 0.04 |
| Q167052 | | 1.67 | 232 | 49.4 | 13.15 | 12.55 | 7.72 | 5.04 | 2.92 | 1.20 | 0.01 | 2.47 | 0.16 | 0.27 | 0.09 | 0.03 |
| Q167053 | | 1.37 | 197 | 48.2 | 13.05 | 13.10 | 8.70 | 5.47 | 2.96 | 1.07 | 0.01 | 2.51 | 0.21 | 0.24 | 0.09 | 0.03 |
| Q167054 | | 1.53 | 203 | 48.5 | 12.95 | 12.80 | 8.76 | 5.42 | 2.81 | 1.18 | 0.01 | 2.50 | 0.21 | 0.24 | 0.09 | 0.03 |
| Q167055 | | 1.48 | 185 | 48.5 | 13.05 | 12.80 | 8.53 | 6.11 | 2.94 | 1.06 | 0.01 | 2.41 | 0.16 | 0.23 | 0.09 | 0.03 |
| Q167056 | | 1.40 | 203 | 49.2 | 13.20 | 12.40 | 8.74 | 5.67 | 2.94 | 1.26 | 0.01 | 2.29 | 0.20 | 0.24 | 0.08 | 0.04 |
| Q167057 | | 1.49 | 206 | 49.8 | 13.25 | 11.85 | 8.47 | 6.20 | 2.96 | 1.10 | 0.01 | 2.30 | 0.16 | 0.23 | 0.08 | 0.03 |
| Q167058 | | 1.41 | 198 | 49.7 | 13.25 | 12.60 | 8.59 | 6.05 | 3.01 | 1.32 | 0.01 | 2.35 | 0.20 | 0.25 | 0.07 | 0.04 |
| Q167059 | | 1.38 | 236 | 50.1 | 13.30 | 12.25 | 8.47 | 6.03 | 3.11 | 1.30 | 0.01 | 2.23 | 0.18 | 0.23 | 0.06 | 0.03 |
| Q167060 | | 1.72 | 275 | 50.4 | 13.45 | 12.05 | 8.22 | 6.29 | 3.00 | 1.00 | 0.01 | 2.22 | 0.16 | 0.23 | 0.09 | 0.03 |
| Q167061 | | 1.35 | 209 | 49.6 | 13.40 | 11.95 | 8.26 | 5.85 | 3.27 | 1.39 | 0.01 | 2.17 | 0.19 | 0.26 | 0.06 | 0.03 |
| Q167062 | | 1.36 | 209 | 49.3 | 13.25 | 12.25 | 8.07 | 5.98 | 3.10 | 1.33 | 0.01 | 2.17 | 0.17 | 0.24 | 0.07 | 0.03 |
| Q167063 | | 1.47 | 210 | 48.9 | 13.30 | 11.50 | 8.39 | 5.94 | 2.82 | 1.05 | 0.01 | 2.08 | 0.18 | 0.21 | 0.11 | 0.03 |
| Q167064 | | 1.44 | 219 | 49.1 | 13.20 | 11.80 | 8.19 | 6.35 | 3.07 | 0.86 | 0.01 | 2.18 | 0.18 | 0.23 | 0.09 | 0.02 |
| Q167065 | | 1.42 | 206 | 50.7 | 13.40 | 12.50 | 8.72 | 6.15 | 3.28 | 1.20 | 0.01 | 2.26 | 0.18 | 0.24 | 0.06 | 0.03 |
| Q167066 | | 1.28 | 193 | 48.4 | 12.65 | 12.45 | 8.54 | 6.10 | 3.10 | 0.93 | 0.02 | 2.26 | 0.18 | 0.23 | 0.07 | 0.02 |
| Q167067 | | 1.94 | 166 | 58.0 | 15.50 | 7.25 | 5.38 | 3.80 | 3.24 | 1.97 | 0.02 | 0.62 | 0.12 | 0.15 | 0.05 | 0.07 |
| Q167068 | | 1.43 | 240 | 49.9 | 12.85 | 11.90 | 8.17 | 6.18 | 3.05 | 1.36 | 0.02 | 2.15 | 0.19 | 0.22 | 0.06 | 0.03 |
| Q167069 | | 1.43 | 193 | 49.4 | 12.90 | 12.15 | 8.70 | 6.37 | 3.19 | 1.06 | 0.02 | 2.24 | 0.21 | 0.23 | 0.05 | 0.02 |
| Q167070 | | 1.52 | 230 | 49.4 | 12.65 | 12.10 | 8.47 | 6.07 | 2.67 | 1.33 | 0.02 | 2.24 | 0.16 | 0.24 | 0.10 | 0.04 |
| Q167071 | | 1.28 | 181 | 48.9 | 9.91 | 13.15 | 9.38 | 9.87 | 2.12 | 0.60 | 0.07 | 2.01 | 0.22 | 0.20 | 0.06 | 0.02 |
| Q167072 | | 1.40 | 189 | 48.9 | 9.12 | 13.30 | 10.10 | 10.55 | 1.88 | 0.63 | 0.10 | 2.04 | 0.28 | 0.22 | 0.06 | 0.03 |
| Q167073 | | 1.04 | 162 | 48.8 | 7.12 | 12.10 | 12.15 | 12.00 | 1.55 | 0.28 | 0.16 | 1.73 | 0.21 | 0.16 | 0.04 | 0.01 |
| Q167074 | | 1.00 | 122 | 49.4 | 6.07 | 11.50 | 13.20 | 14.00 | 1.29 | 0.07 | 0.17 | 1.44 | 0.21 | 0.12 | 0.02 | <0.01 |
| Q167075 | | 1.06 | 130 | 53.2 | 7.04 | 9.77 | 12.45 | 11.70 | 1.61 | 0.68 | 0.14 | 1.44 | 0.19 | 0.13 | 0.03 | 0.01 |
| Q167076 | | 1.01 | 120 | 48.6 | 5.64 | 12.55 | 12.15 | 16.10 | 0.90 | 0.28 | 0.17 | 1.32 | 0.23 | 0.11 | 0.03 | 0.01 |
| Q167077 | | 0.92 | 107 | 48.2 | 5.41 | 12.05 | 12.35 | 15.55 | 0.94 | 0.22 | 0.19 | 1.31 | 0.23 | 0.11 | 0.02 | 0.01 |
| Q167078 | | 1.19 | 130 | 52.4 | 6.10 | 10.10 | 12.95 | 12.30 | 1.38 | 0.38 | 0.10 | 1.40 | 0.17 | 0.11 | 0.02 | 0.01 |
| Q167079 | | 1.07 | 124 | 50.0 | 6.48 | 11.05 | 11.90 | 12.25 | 1.10 | 0.28 | 0.06 | 1.50 | 0.17 | 0.14 | 0.02 | <0.01 |
| Q167080 | | 1.11 | 166 | 53.4 | 6.66 | 11.00 | 10.75 | 10.90 | 1.28 | 0.52 | 0.05 | 1.50 | 0.16 | 0.13 | 0.02 | 0.01 |
| Q167081 | | 1.11 | 152 | 51.1 | 6.51 | 11.45 | 12.85 | 12.10 | 1.40 | 0.23 | 0.06 | 1.62 | 0.20 | 0.14 | 0.03 | <0.01 |
| Q167082 | | 1.32 | 152 | 50.6 | 7.63 | 11.45 | 11.55 | 10.55 | 1.78 | 0.52 | 0.05 | 1.67 | 0.20 | 0.15 | 0.02 | 0.01 |
| Q167083 | | 1.11 | 141 | 53.0 | 6.82 | 11.00 | 9.37 | 10.45 | 0.80 | 0.27 | 0.04 | 1.54 | 0.14 | 0.14 | 0.02 | <0.01 |
| Q167084 | | 1.03 | 123 | 49.8 | 6.59 | 11.95 | 12.30 | 13.10 | 1.38 | 0.18 | 0.05 | 1.55 | 0.19 | 0.13 | 0.01 | <0.01 |
| Q167085 | | 0.91 | 105 | 49.4 | 5.66 | 11.25 | 14.70 | 13.70 | 1.09 | 0.08 | 0.07 | 1.35 | 0.19 | 0.09 | 0.01 | <0.01 |
| Q167086 | | 0.84 | 111 | 48.3 | 5.09 | 11.30 | 14.75 | 14.55 | 0.44 | 0.05 | 0.13 | 1.20 | 0.17 | 0.09 | 0.01 | <0.01 |
| Q167087 | | 1.58 | 90 | 47.3 | 18.80 | 11.15 | 9.61 | 5.69 | 2.50 | 0.57 | 0.02 | 0.55 | 0.14 | 0.18 | 0.04 | 0.03 |
| Q167088 | | 0.78 | 110 | 47.4 | 4.85 | 11.00 | 14.55 | 13.00 | 0.21 | 0.03 | 0.14 | 1.14 | 0.13 | 0.07 | 0.02 | <0.01 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| Q167049 | | 3.83 | 101.94 | <0.5 | <5 | <0.5 | 27 | 148 | 50 | <1 | 62 | 13 | 16 | 54 | 0.005 | 0.011 |
| Q167050 | | 3.81 | 101.22 | <0.5 | <5 | <0.5 | 36 | 413 | 40 | <1 | 90 | 20 | 19 | 86 | 0.010 | 0.031 |
| Q167051 | | 3.72 | 98.78 | <0.5 | <5 | <0.5 | 38 | 154 | 40 | <1 | 35 | 8 | 19 | 90 | 0.005 | 0.011 |
| Q167052 | | 4.06 | 99.07 | <0.5 | 5 | 0.6 | 43 | 192 | 50 | <1 | 51 | 9 | 22 | 94 | 0.003 | 0.012 |
| Q167053 | | 4.24 | 99.88 | <0.5 | <5 | <0.5 | 45 | 205 | 40 | <1 | 65 | 9 | 23 | 114 | 0.005 | 0.012 |
| Q167054 | | 4.15 | 99.65 | <0.5 | <5 | 0.6 | 44 | 196 | 40 | <1 | 62 | 6 | 23 | 125 | 0.011 | 0.017 |
| Q167055 | | 4.03 | 99.95 | <0.5 | <5 | <0.5 | 45 | 176 | 40 | <1 | 63 | 7 | 23 | 94 | 0.005 | 0.017 |
| Q167056 | | 3.66 | 99.93 | <0.5 | <5 | <0.5 | 44 | 183 | 30 | <1 | 61 | 12 | 23 | 121 | 0.004 | 0.014 |
| Q167057 | | 4.03 | 100.47 | <0.5 | <5 | <0.5 | 42 | 197 | 40 | <1 | 63 | 13 | 23 | 96 | 0.003 | 0.014 |
| Q167058 | | 3.52 | 100.96 | <0.5 | <5 | <0.5 | 44 | 181 | 30 | <1 | 65 | 12 | 23 | 108 | 0.005 | 0.014 |
| Q167059 | | 3.30 | 100.60 | <0.5 | <5 | <0.5 | 42 | 165 | 40 | <1 | 62 | 10 | 23 | 96 | 0.005 | 0.014 |
| Q167060 | | 3.92 | 101.07 | <0.5 | <5 | <0.5 | 39 | 126 | 50 | <1 | 59 | 11 | 22 | 90 | 0.006 | 0.014 |
| Q167061 | | 3.06 | 99.50 | <0.5 | <5 | <0.5 | 42 | 136 | 30 | <1 | 62 | 12 | 23 | 104 | 0.004 | 0.018 |
| Q167062 | | 3.21 | 99.18 | <0.5 | <5 | <0.5 | 46 | 81 | 40 | <1 | 62 | 12 | 23 | 85 | 0.004 | 0.018 |
| Q167063 | | 3.83 | 98.35 | <0.5 | <5 | 0.5 | 40 | 142 | 50 | <1 | 60 | 11 | 22 | 88 | 0.003 | 0.018 |
| Q167064 | | 3.58 | 98.86 | <0.5 | <5 | 0.6 | 41 | 134 | 50 | <1 | 65 | 11 | 22 | 106 | 0.003 | 0.015 |
| Q167065 | | 2.98 | 101.71 | <0.5 | <5 | 0.6 | 42 | 127 | 40 | <1 | 62 | 10 | 23 | 103 | 0.003 | 0.013 |
| Q167066 | | 3.14 | 98.09 | <0.5 | <5 | <0.5 | 43 | 110 | 40 | <1 | 66 | 15 | 23 | 110 | 0.003 | 0.013 |
| Q167067 | | 1.98 | 98.15 | <0.5 | <5 | <0.5 | 24 | 21 | 10 | <1 | 23 | 9 | 14 | 76 | 0.001 | <0.005 |
| Q167068 | | 2.88 | 98.96 | <0.5 | <5 | 0.5 | 39 | 114 | 40 | <1 | 62 | 13 | 22 | 106 | 0.004 | 0.013 |
| Q167069 | | 3.04 | 99.58 | <0.5 | <5 | <0.5 | 42 | 176 | 40 | <1 | 69 | 15 | 24 | 134 | 0.004 | 0.013 |
| Q167070 | | 3.31 | 98.80 | <0.5 | 16 | <0.5 | 45 | 113 | 50 | <1 | 66 | 12 | 23 | 101 | 0.004 | 0.014 |
| Q167071 | | 2.78 | 99.29 | <0.5 | 6 | <0.5 | 60 | 123 | 60 | <1 | 162 | 9 | 28 | 117 | 0.003 | 0.014 |
| Q167072 | | 2.04 | 99.25 | <0.5 | <5 | <0.5 | 65 | 175 | 50 | <1 | 203 | 13 | 30 | 133 | 0.004 | 0.026 |
| Q167073 | | 2.58 | 98.89 | <0.5 | 5 | <0.5 | 67 | 394 | 50 | <1 | 248 | 7 | 37 | 107 | 0.009 | 0.074 |
| Q167074 | | 2.74 | 100.23 | <0.5 | 5 | <0.5 | 63 | 447 | 50 | <1 | 301 | 9 | 38 | 101 | 0.022 | 0.104 |
| Q167075 | | 2.12 | 100.51 | <0.5 | <5 | <0.5 | 55 | 274 | 40 | <1 | 210 | 9 | 40 | 85 | 0.005 | 0.066 |
| Q167076 | | 2.75 | 100.84 | <0.5 | <5 | <0.5 | 77 | 231 | 60 | <1 | 350 | 13 | 36 | 96 | 0.010 | 0.042 |
| Q167077 | | 2.87 | 99.46 | <0.5 | <5 | <0.5 | 70 | 365 | 60 | <1 | 327 | 17 | 38 | 115 | 0.004 | 0.035 |
| Q167078 | | 2.52 | 99.94 | <0.5 | 5 | <0.5 | 58 | 633 | 40 | <1 | 259 | 14 | 42 | 83 | 0.015 | 0.072 |
| Q167079 | | 3.99 | 98.94 | <0.5 | <5 | <0.5 | 66 | 994 | 60 | <1 | 345 | 24 | 38 | 102 | 0.022 | 0.041 |
| Q167080 | | 3.35 | 99.73 | <0.5 | <5 | <0.5 | 60 | 833 | 50 | <1 | 273 | 14 | 35 | 95 | 0.009 | 0.034 |
| Q167081 | | 2.60 | 100.29 | <0.5 | <5 | <0.5 | 62 | 1370 | 40 | <1 | 324 | 11 | 41 | 100 | 0.019 | 0.046 |
| Q167082 | | 2.56 | 98.74 | <0.5 | <5 | <0.5 | 56 | 1180 | 40 | <1 | 291 | 10 | 39 | 98 | 0.011 | 0.042 |
| Q167083 | | 5.26 | 98.85 | 0.6 | 8 | <0.5 | 65 | 991 | 80 | <1 | 275 | 60 | 33 | 104 | 0.008 | 0.028 |
| Q167084 | | 2.89 | 100.12 | <0.5 | <5 | <0.5 | 69 | 909 | 50 | <1 | 290 | 18 | 44 | 105 | 0.011 | 0.025 |
| Q167085 | | 2.91 | 100.50 | <0.5 | <5 | <0.5 | 63 | 590 | 50 | <1 | 241 | 11 | 49 | 90 | 0.010 | 0.088 |
| Q167086 | | 4.02 | 100.10 | <0.5 | <5 | <0.5 | 72 | 886 | 50 | <1 | 312 | 6 | 48 | 94 | 0.034 | 0.399 |
| Q167087 | | 2.29 | 98.87 | 0.7 | <5 | <0.5 | 89 | 2690 | 10 | 1 | 2360 | 9 | 16 | 96 | 0.048 | 0.049 |
| Q167088 | | 6.41 | 98.95 | 0.7 | <5 | <0.5 | 78 | 615 | 60 | <1 | 351 | 17 | 46 | 94 | 0.034 | 0.320 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| Q167049 | | 0.009 | 0.68 |
| Q167050 | | 0.029 | 0.97 |
| Q167051 | | 0.006 | 1.12 |
| Q167052 | | 0.007 | 0.85 |
| Q167053 | | 0.008 | 0.21 |
| Q167054 | | 0.009 | 0.29 |
| Q167055 | | 0.009 | 0.94 |
| Q167056 | | 0.010 | 0.31 |
| Q167057 | | 0.010 | 0.66 |
| Q167058 | | 0.010 | 0.36 |
| Q167059 | | 0.011 | 0.57 |
| Q167060 | | 0.011 | 0.76 |
| Q167061 | | 0.013 | 0.28 |
| Q167062 | | 0.014 | 0.58 |
| Q167063 | | 0.014 | 0.38 |
| Q167064 | | 0.012 | 0.45 |
| Q167065 | | 0.010 | 0.29 |
| Q167066 | | 0.010 | 0.46 |
| Q167067 | | <0.001 | 0.05 |
| Q167068 | | 0.009 | 0.29 |
| Q167069 | | 0.009 | 0.18 |
| Q167070 | | 0.009 | 0.57 |
| Q167071 | | 0.006 | 0.51 |
| Q167072 | | 0.010 | 0.18 |
| Q167073 | | 0.056 | 0.29 |
| Q167074 | | 0.052 | 0.13 |
| Q167075 | | 0.040 | 0.21 |
| Q167076 | | 0.019 | 0.25 |
| Q167077 | | 0.022 | 0.11 |
| Q167078 | | 0.036 | 0.25 |
| Q167079 | | 0.017 | 0.51 |
| Q167080 | | 0.016 | 0.48 |
| Q167081 | | 0.020 | 0.31 |
| Q167082 | | 0.025 | 0.28 |
| Q167083 | | 0.014 | 1.30 |
| Q167084 | | 0.011 | 0.29 |
| Q167085 | | 0.058 | 0.16 |
| Q167086 | | 0.324 | 0.23 |
| Q167087 | | 0.070 | 1.52 |
| Q167088 | | 0.260 | 0.85 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167089 | | 2.34 | 2.2 | 26.2 | 1150 | 0.31 | 2.56 | 1.00 | 1.14 | 7.8 | 3.68 | 2.5 | 0.42 | 11.0 | 0.10 | 7.1 |
| Q167090 | | 2.35 | 4.8 | 26.4 | 1150 | 0.41 | 2.28 | 1.15 | 1.06 | 7.7 | 3.47 | 2.5 | 0.43 | 10.8 | 0.10 | 7.7 |
| Q167091 | | 2.63 | 16.9 | 31.5 | 1280 | 0.69 | 2.77 | 1.11 | 1.34 | 8.9 | 4.35 | 2.8 | 0.51 | 12.2 | 0.12 | 9.0 |
| Q167092 | | 2.44 | 5.8 | 25.9 | 1440 | 0.52 | 2.58 | 1.13 | 1.16 | 7.8 | 3.72 | 2.4 | 0.45 | 10.0 | 0.12 | 6.8 |
| Q167093 | | 2.52 | 6.6 | 23.3 | 1280 | 0.48 | 2.48 | 0.95 | 1.11 | 7.5 | 3.36 | 2.3 | 0.43 | 8.6 | 0.12 | 6.1 |
| Q167094 | | 2.39 | 8.9 | 29.3 | 830 | 0.40 | 2.89 | 1.08 | 1.27 | 8.9 | 4.03 | 2.4 | 0.47 | 11.4 | 0.14 | 7.2 |
| Q167095 | | 2.83 | 126.0 | 31.2 | 660 | 0.89 | 2.73 | 1.23 | 1.31 | 11.0 | 4.09 | 2.8 | 0.49 | 12.6 | 0.14 | 9.1 |
| Q167096 | | 2.45 | 148.0 | 27.7 | 680 | 0.79 | 2.54 | 1.05 | 1.35 | 11.9 | 3.91 | 2.3 | 0.42 | 12.0 | 0.08 | 8.2 |
| Q167097 | | 2.34 | 133.0 | 43.5 | 620 | 0.57 | 3.23 | 1.41 | 1.69 | 13.0 | 4.85 | 3.5 | 0.61 | 19.3 | 0.15 | 13.7 |
| Q167098 | | 2.69 | 181.5 | 39.0 | 580 | 0.92 | 3.08 | 1.46 | 1.74 | 14.3 | 4.81 | 3.2 | 0.58 | 16.9 | 0.11 | 12.2 |
| Q167099 | | 2.43 | 100.0 | 49.1 | 610 | 0.83 | 3.55 | 1.68 | 1.99 | 14.5 | 5.45 | 3.7 | 0.61 | 21.6 | 0.16 | 16.4 |
| Q167100 | | 2.23 | 193.5 | 56.4 | 670 | 1.05 | 3.76 | 1.56 | 2.01 | 14.2 | 5.42 | 4.4 | 0.64 | 25.4 | 0.17 | 18.3 |
| Q167101 | | 1.91 | 185.5 | 52.9 | 670 | 1.75 | 3.42 | 1.54 | 1.85 | 14.3 | 5.40 | 4.1 | 0.63 | 23.4 | 0.17 | 16.6 |
| Q167102 | | 2.17 | 175.5 | 56.6 | 820 | 1.42 | 3.72 | 1.69 | 1.86 | 13.9 | 5.69 | 4.8 | 0.62 | 25.1 | 0.17 | 18.0 |
| Q167103 | | 2.22 | 355 | 66.0 | 500 | 1.59 | 4.09 | 1.81 | 2.17 | 16.4 | 5.92 | 5.3 | 0.72 | 29.9 | 0.19 | 21.5 |
| Q167104 | | 2.46 | 299 | 63.1 | 810 | 2.40 | 3.82 | 1.76 | 2.02 | 14.9 | 5.99 | 4.9 | 0.68 | 28.7 | 0.21 | 22.1 |
| Q167105 | | 3.42 | 269 | 55.5 | 990 | 6.40 | 3.27 | 1.31 | 1.88 | 13.8 | 4.89 | 4.5 | 0.59 | 25.1 | 0.16 | 18.3 |
| Q167106 | | 3.08 | 187.0 | 69.1 | 1120 | 2.50 | 4.53 | 1.88 | 2.35 | 15.2 | 6.90 | 5.7 | 0.77 | 30.4 | 0.21 | 21.3 |
| Q167107 | | 0.43 | 659 | 59.8 | 140 | 0.69 | 3.11 | 1.75 | 1.14 | 18.1 | 3.95 | 3.3 | 0.61 | 31.5 | 0.25 | 7.0 |
| Q167108 | | 3.54 | 335 | 58.3 | 640 | 0.77 | 3.64 | 1.79 | 1.92 | 15.0 | 5.36 | 4.6 | 0.68 | 26.6 | 0.19 | 16.7 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167089 | | 18.0 | 4.00 | 0.7 | 3.86 | 1 | 138.5 | 0.4 | 0.47 | 0.77 | <0.5 | 0.12 | 0.31 | 197 | 1 | 10.6 |
| Q167090 | | 17.7 | 3.82 | 1.0 | 3.95 | 1 | 95.8 | 0.4 | 0.46 | 0.80 | <0.5 | 0.12 | 0.25 | 197 | 1 | 10.6 |
| Q167091 | | 20.6 | 4.44 | 2.7 | 4.84 | 1 | 102.5 | 0.6 | 0.57 | 1.05 | <0.5 | 0.13 | 0.34 | 209 | <1 | 11.7 |
| Q167092 | | 17.8 | 3.80 | 1.0 | 4.16 | 1 | 120.5 | 0.5 | 0.47 | 0.74 | <0.5 | 0.12 | 0.25 | 201 | <1 | 10.4 |
| Q167093 | | 16.1 | 3.34 | 1.0 | 3.84 | 1 | 76.6 | 0.4 | 0.46 | 0.58 | <0.5 | 0.14 | 0.21 | 203 | <1 | 10.1 |
| Q167094 | | 19.7 | 4.15 | 1.5 | 4.63 | 1 | 137.5 | 0.5 | 0.55 | 0.75 | <0.5 | 0.17 | 0.28 | 228 | <1 | 12.0 |
| Q167095 | | 20.6 | 4.31 | 15.6 | 5.03 | 1 | 205 | 0.6 | 0.50 | 0.91 | <0.5 | 0.17 | 0.30 | 352 | <1 | 11.6 |
| Q167096 | | 18.6 | 4.04 | 19.1 | 4.42 | 1 | 302 | 0.4 | 0.47 | 0.78 | <0.5 | 0.14 | 0.22 | 360 | 1 | 11.2 |
| Q167097 | | 27.1 | 6.07 | 26.4 | 5.75 | 1 | 192.0 | 0.8 | 0.61 | 1.32 | <0.5 | 0.19 | 0.34 | 288 | 1 | 14.8 |
| Q167098 | | 25.2 | 5.73 | 22.6 | 5.30 | 1 | 359 | 0.7 | 0.59 | 1.05 | <0.5 | 0.19 | 0.27 | 390 | 1 | 14.2 |
| Q167099 | | 30.3 | 7.00 | 15.3 | 6.59 | 1 | 292 | 1.0 | 0.71 | 1.44 | <0.5 | 0.22 | 0.48 | 291 | 1 | 16.1 |
| Q167100 | | 33.3 | 7.61 | 29.2 | 6.28 | 2 | 343 | 1.2 | 0.73 | 2.09 | <0.5 | 0.21 | 0.69 | 254 | 1 | 16.5 |
| Q167101 | | 31.2 | 7.27 | 25.4 | 6.42 | 1 | 287 | 1.0 | 0.72 | 2.51 | <0.5 | 0.22 | 0.83 | 251 | 1 | 16.5 |
| Q167102 | | 32.7 | 7.70 | 22.8 | 6.62 | 2 | 314 | 1.1 | 0.77 | 2.27 | <0.5 | 0.23 | 0.71 | 233 | 1 | 17.2 |
| Q167103 | | 37.2 | 8.81 | 42.3 | 7.37 | 1 | 481 | 1.3 | 0.83 | 2.66 | <0.5 | 0.26 | 0.81 | 250 | 1 | 18.6 |
| Q167104 | | 34.8 | 8.63 | 29.4 | 6.76 | 1 | 482 | 1.2 | 0.71 | 2.46 | <0.5 | 0.25 | 0.75 | 234 | 1 | 17.6 |
| Q167105 | | 31.8 | 7.58 | 33.0 | 6.35 | 1 | 425 | 1.1 | 0.67 | 2.47 | <0.5 | 0.22 | 0.67 | 222 | 1 | 16.0 |
| Q167106 | | 41.6 | 9.57 | 17.2 | 8.21 | 1 | 184.0 | 1.3 | 0.94 | 2.27 | <0.5 | 0.25 | 0.75 | 265 | 1 | 20.6 |
| Q167107 | | 26.1 | 6.95 | 80.4 | 4.68 | 2 | 390 | 0.3 | 0.58 | 6.42 | <0.5 | 0.30 | 1.47 | 116 | 2 | 17.3 |
| Q167108 | | 33.2 | 8.10 | 48.8 | 6.61 | 1 | 253 | 1.0 | 0.70 | 2.49 | <0.5 | 0.22 | 0.68 | 252 | 1 | 16.9 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167089 | | 0.74 | 88 | 46.5 | 4.64 | 11.00 | 15.00 | 12.90 | 0.20 | 0.02 | 0.15 | 1.17 | 0.12 | 0.07 | 0.01 | <0.01 |
| Q167090 | | 0.79 | 94 | 46.7 | 4.69 | 11.80 | 14.50 | 13.65 | 0.22 | 0.03 | 0.15 | 1.17 | 0.13 | 0.08 | 0.01 | <0.01 |
| Q167091 | | 0.90 | 102 | 48.5 | 5.19 | 11.60 | 14.60 | 15.05 | 0.53 | 0.09 | 0.17 | 1.23 | 0.17 | 0.08 | 0.01 | <0.01 |
| Q167092 | | 0.82 | 81 | 48.9 | 4.45 | 10.70 | 16.05 | 15.30 | 0.52 | 0.03 | 0.19 | 1.15 | 0.17 | 0.07 | 0.01 | <0.01 |
| Q167093 | | 0.79 | 69 | 48.5 | 3.98 | 10.80 | 15.95 | 16.15 | 0.39 | 0.03 | 0.17 | 1.12 | 0.19 | 0.08 | 0.01 | <0.01 |
| Q167094 | | 0.86 | 77 | 47.6 | 4.38 | 11.05 | 16.10 | 14.20 | 0.35 | 0.06 | 0.11 | 1.16 | 0.17 | 0.08 | 0.01 | <0.01 |
| Q167095 | | 0.86 | 95 | 47.1 | 6.80 | 13.30 | 13.80 | 12.95 | 1.23 | 0.38 | 0.09 | 1.58 | 0.21 | 0.09 | 0.02 | 0.01 |
| Q167096 | | 0.87 | 78 | 45.7 | 7.72 | 14.20 | 12.90 | 11.60 | 1.62 | 0.49 | 0.09 | 1.85 | 0.23 | 0.07 | 0.04 | 0.02 |
| Q167097 | | 0.92 | 129 | 47.8 | 8.32 | 13.20 | 11.75 | 11.15 | 1.98 | 0.89 | 0.08 | 1.93 | 0.23 | 0.16 | 0.02 | 0.01 |
| Q167098 | | 0.96 | 116 | 45.7 | 9.20 | 15.05 | 10.85 | 10.20 | 2.28 | 0.55 | 0.08 | 2.28 | 0.27 | 0.17 | 0.04 | 0.02 |
| Q167099 | | 1.11 | 139 | 46.9 | 9.32 | 14.25 | 10.00 | 10.40 | 2.48 | 0.53 | 0.08 | 2.24 | 0.25 | 0.22 | 0.03 | 0.01 |
| Q167100 | | 1.16 | 177 | 48.7 | 9.23 | 12.90 | 10.30 | 9.94 | 2.33 | 0.88 | 0.09 | 1.88 | 0.25 | 0.23 | 0.04 | 0.02 |
| Q167101 | | 1.18 | 158 | 49.6 | 9.22 | 12.75 | 9.79 | 10.45 | 2.22 | 0.80 | 0.09 | 1.74 | 0.24 | 0.19 | 0.03 | 0.02 |
| Q167102 | | 1.28 | 184 | 51.6 | 8.85 | 12.30 | 9.90 | 9.98 | 2.32 | 0.74 | 0.11 | 1.68 | 0.22 | 0.18 | 0.03 | 0.02 |
| Q167103 | | 1.29 | 215 | 51.0 | 10.95 | 12.45 | 8.69 | 8.30 | 2.88 | 1.29 | 0.06 | 1.99 | 0.28 | 0.21 | 0.05 | 0.04 |
| Q167104 | | 1.35 | 199 | 49.5 | 9.81 | 12.50 | 9.71 | 9.88 | 2.25 | 0.99 | 0.11 | 1.79 | 0.26 | 0.20 | 0.06 | 0.03 |
| Q167105 | | 1.15 | 177 | 47.9 | 9.23 | 14.05 | 7.83 | 12.45 | 1.89 | 0.93 | 0.13 | 1.69 | 0.25 | 0.18 | 0.05 | 0.03 |
| Q167106 | | 1.52 | 221 | 46.4 | 8.83 | 13.50 | 7.01 | 11.05 | 1.72 | 0.42 | 0.15 | 2.33 | 0.18 | 0.23 | 0.02 | 0.02 |
| Q167107 | | 1.54 | 127 | 59.7 | 16.45 | 7.42 | 4.74 | 4.53 | 3.39 | 2.18 | 0.02 | 0.62 | 0.14 | 0.14 | 0.04 | 0.08 |
| Q167108 | | 1.33 | 171 | 49.4 | 9.77 | 12.40 | 9.79 | 8.86 | 2.27 | 1.39 | 0.08 | 1.80 | 0.20 | 0.20 | 0.03 | 0.04 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| Q167089 | | 6.94 | 98.72 | <0.5 | <5 | <0.5 | 71 | 1095 | 60 | <1 | 392 | 16 | 46 | 93 | 0.019 | 0.253 |
| Q167090 | | 5.02 | 98.15 | <0.5 | <5 | <0.5 | 83 | 3190 | 60 | <1 | 684 | 13 | 44 | 92 | 0.093 | 0.658 |
| Q167091 | | 2.81 | 100.03 | <0.5 | <5 | <0.5 | 79 | 1735 | 60 | <1 | 556 | 11 | 45 | 90 | 0.047 | 0.465 |
| Q167092 | | 2.28 | 99.82 | <0.5 | <5 | <0.5 | 66 | 110 | 50 | <1 | 274 | 3 | 47 | 82 | 0.006 | 0.300 |
| Q167093 | | 2.27 | 99.64 | <0.5 | <5 | <0.5 | 63 | 506 | 40 | <1 | 311 | 6 | 50 | 87 | 0.044 | 0.134 |
| Q167094 | | 4.25 | 99.52 | <0.5 | <5 | <0.5 | 74 | 242 | 50 | <1 | 254 | 6 | 49 | 83 | 0.007 | 0.017 |
| Q167095 | | 2.58 | 100.14 | <0.5 | <5 | <0.5 | 72 | 477 | 50 | <1 | 221 | 5 | 45 | 126 | 0.006 | 0.031 |
| Q167096 | | 2.72 | 99.25 | <0.5 | <5 | <0.5 | 74 | 270 | 40 | <1 | 183 | 6 | 40 | 138 | 0.006 | 0.045 |
| Q167097 | | 2.50 | 100.02 | <0.5 | <5 | <0.5 | 65 | 310 | 40 | <1 | 175 | 12 | 37 | 120 | 0.007 | 0.044 |
| Q167098 | | 2.59 | 99.28 | <0.5 | <5 | <0.5 | 68 | 262 | 50 | <1 | 171 | 12 | 34 | 171 | 0.005 | 0.036 |
| Q167099 | | 2.95 | 99.66 | <0.5 | <5 | <0.5 | 66 | 259 | 60 | <1 | 178 | 11 | 32 | 139 | 0.006 | 0.039 |
| Q167100 | | 2.48 | 99.27 | <0.5 | <5 | <0.5 | 59 | 404 | 50 | <1 | 195 | 11 | 30 | 126 | 0.009 | 0.065 |
| Q167101 | | 2.97 | 100.11 | <0.5 | <5 | <0.5 | 58 | 325 | 70 | <1 | 205 | 14 | 31 | 138 | 0.008 | 0.056 |
| Q167102 | | 2.71 | 100.64 | <0.5 | <5 | <0.5 | 60 | 818 | 60 | <1 | 308 | 10 | 30 | 116 | 0.032 | 0.333 |
| Q167103 | | 2.10 | 100.29 | <0.5 | <5 | <0.5 | 46 | 160 | 40 | <1 | 112 | 14 | 27 | 123 | 0.004 | 0.019 |
| Q167104 | | 2.14 | 99.23 | <0.5 | <5 | <0.5 | 61 | 171 | 50 | <1 | 181 | 15 | 28 | 127 | 0.005 | 0.034 |
| Q167105 | | 2.95 | 99.56 | 0.6 | <5 | <0.5 | 88 | 871 | 60 | <1 | 529 | 24 | 23 | 204 | 0.017 | 0.187 |
| Q167106 | | 6.41 | 98.27 | <0.5 | <5 | <0.5 | 70 | 166 | 140 | 1 | 336 | 23 | 28 | 136 | 0.004 | 0.017 |
| Q167107 | | 2.12 | 101.57 | <0.5 | 11 | <0.5 | 24 | 31 | 10 | 1 | 31 | 32 | 14 | 118 | 0.001 | <0.005 |
| Q167108 | | 4.34 | 100.57 | <0.5 | <5 | <0.5 | 61 | 619 | 60 | 1 | 252 | 2 | 29 | 111 | 0.010 | 0.120 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| Q167089 | | 0.226 | 0.85 |
| Q167090 | | 0.593 | 0.97 |
| Q167091 | | 0.350 | 0.45 |
| Q167092 | | 0.101 | 0.19 |
| Q167093 | | 0.074 | 0.10 |
| Q167094 | | 0.009 | 0.53 |
| Q167095 | | 0.024 | 0.16 |
| Q167096 | | 0.035 | 0.30 |
| Q167097 | | 0.023 | 0.25 |
| Q167098 | | 0.025 | 0.24 |
| Q167099 | | 0.033 | 0.38 |
| Q167100 | | 0.064 | 0.27 |
| Q167101 | | 0.046 | 0.22 |
| Q167102 | | 0.158 | 0.60 |
| Q167103 | | 0.011 | 0.17 |
| Q167104 | | 0.027 | 0.62 |
| Q167105 | | 0.153 | 0.62 |
| Q167106 | | 0.010 | 2.30 |
| Q167107 | | <0.001 | 0.03 |
| Q167108 | | 0.084 | 0.62 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 13-DEC-2013
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13213251

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | ME-4ACD81 | ME-ICP06 | ME-MS81 | OA-GRA05 |
| | PGM-ICP23 | S-IR08 | TOT-ICP06 | |

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

# CERTIFICATE TB13221754

Project: 23

P.O. No.:

This report is for 100 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 11-DEC-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTXMIN/TRAMET WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-QC | Pulverizing QC Test |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167118 | | 2.97 | 553 | 141.0 | 20 | 0.90 | 6.70 | 3.18 | 3.28 | 21.2 | 9.53 | 10.8 | 1.15 | 62.4 | 0.36 | 40.3 |
| Q167119 | | 3.20 | 354 | 150.5 | 10 | 1.06 | 7.03 | 3.13 | 3.59 | 22.5 | 10.50 | 11.3 | 1.20 | 65.2 | 0.38 | 43.7 |
| Q167120 | | 3.34 | 341 | 146.0 | 10 | 0.89 | 6.68 | 3.20 | 3.69 | 23.2 | 10.05 | 10.5 | 1.24 | 63.6 | 0.38 | 43.9 |
| Q167121 | | 3.15 | 530 | 140.0 | <10 | 1.00 | 7.20 | 3.21 | 3.47 | 21.7 | 10.35 | 10.5 | 1.27 | 60.9 | 0.38 | 41.2 |
| Q167122 | | 3.25 | 494 | 143.0 | 10 | 0.84 | 6.83 | 3.05 | 3.41 | 22.2 | 10.20 | 10.4 | 1.26 | 62.0 | 0.36 | 42.1 |
| Q167123 | | 3.20 | 438 | 148.0 | 10 | 0.94 | 7.31 | 3.26 | 3.67 | 22.2 | 10.85 | 11.0 | 1.32 | 64.3 | 0.39 | 42.7 |
| Q167124 | | 4.06 | 492 | 143.5 | 10 | 1.04 | 7.04 | 3.25 | 3.61 | 22.1 | 10.20 | 10.7 | 1.20 | 61.4 | 0.38 | 41.3 |
| Q167125 | | 3.12 | 464 | 141.5 | <10 | 0.80 | 6.81 | 3.21 | 3.60 | 20.2 | 9.72 | 10.3 | 1.24 | 60.7 | 0.35 | 41.7 |
| Q167126 | | 3.00 | 549 | 150.5 | 10 | 0.91 | 7.10 | 3.40 | 3.71 | 22.5 | 10.55 | 11.3 | 1.24 | 63.6 | 0.35 | 43.9 |
| Q167127 | | 0.10 | 261 | 24.8 | 140 | 0.32 | 3.35 | 1.85 | 1.26 | 17.2 | 3.60 | 2.2 | 0.63 | 11.3 | 0.25 | 3.2 |
| Q167128 | | 3.48 | 443 | 147.5 | <10 | 0.71 | 7.05 | 3.18 | 3.88 | 20.6 | 10.75 | 10.3 | 1.27 | 63.3 | 0.39 | 41.0 |
| Q167129 | | 3.19 | 389 | 140.5 | <10 | 0.86 | 6.89 | 3.04 | 3.61 | 22.0 | 9.77 | 10.5 | 1.21 | 60.0 | 0.37 | 41.4 |
| Q167130 | | 3.05 | 407 | 144.5 | 10 | 1.02 | 7.29 | 3.26 | 3.62 | 22.4 | 10.30 | 10.7 | 1.26 | 62.2 | 0.38 | 44.1 |
| Q167131 | | 3.60 | 372 | 146.0 | 10 | 0.93 | 7.29 | 3.19 | 3.70 | 22.3 | 10.15 | 10.9 | 1.26 | 62.2 | 0.36 | 44.5 |
| Q167132 | | 3.23 | 326 | 145.5 | 10 | 0.79 | 7.58 | 3.17 | 3.79 | 22.1 | 10.80 | 11.0 | 1.38 | 62.1 | 0.38 | 43.1 |
| Q167133 | | 3.30 | 380 | 135.5 | <10 | 0.80 | 6.91 | 3.20 | 3.77 | 22.8 | 10.50 | 10.1 | 1.27 | 57.7 | 0.35 | 41.0 |
| Q167134 | | 3.16 | 275 | 130.5 | 10 | 0.74 | 6.64 | 3.03 | 3.75 | 22.2 | 9.77 | 10.1 | 1.18 | 55.4 | 0.34 | 42.5 |
| Q167135 | | 3.21 | 317 | 132.0 | <10 | 0.76 | 6.98 | 3.22 | 3.73 | 21.2 | 9.89 | 10.5 | 1.24 | 55.1 | 0.35 | 43.1 |
| Q167136 | | 3.19 | 281 | 132.0 | <10 | 0.71 | 6.92 | 3.15 | 3.59 | 22.6 | 9.83 | 10.0 | 1.24 | 55.5 | 0.36 | 42.5 |
| Q167137 | | 3.22 | 360 | 143.0 | <10 | 0.56 | 7.18 | 3.26 | 3.77 | 21.6 | 10.50 | 10.8 | 1.27 | 61.4 | 0.39 | 42.8 |
| Q167138 | | 2.96 | 506 | 168.5 | 10 | 0.65 | 7.96 | 3.53 | 4.35 | 21.4 | 11.90 | 11.6 | 1.40 | 72.9 | 0.35 | 46.4 |
| Q167139 | | 3.57 | 418 | 117.5 | 10 | 1.26 | 6.66 | 3.33 | 2.72 | 23.5 | 9.16 | 12.4 | 1.26 | 48.8 | 0.41 | 48.6 |
| Q167140 | | 3.03 | 488 | 162.0 | <10 | 0.74 | 7.79 | 3.22 | 4.00 | 22.0 | 11.75 | 12.0 | 1.31 | 68.8 | 0.36 | 47.7 |
| Q167141 | | 3.44 | 439 | 163.5 | 10 | 0.83 | 8.38 | 3.61 | 4.14 | 22.0 | 12.25 | 12.2 | 1.44 | 69.5 | 0.41 | 50.1 |
| Q167142 | | 3.18 | 367 | 165.0 | 10 | 0.85 | 8.04 | 3.66 | 4.10 | 23.2 | 11.65 | 12.5 | 1.44 | 70.3 | 0.41 | 52.0 |
| Q167143 | | 3.03 | 276 | 165.0 | 10 | 0.65 | 8.71 | 3.96 | 4.30 | 23.7 | 12.75 | 13.4 | 1.51 | 74.9 | 0.43 | 50.2 |
| Q167144 | | 3.26 | 587 | 152.0 | 10 | 0.66 | 8.29 | 3.87 | 3.86 | 22.4 | 11.45 | 13.4 | 1.52 | 68.4 | 0.47 | 51.1 |
| Q167145 | | 2.34 | 408 | 166.5 | 10 | 0.53 | 8.32 | 4.10 | 4.14 | 22.2 | 12.30 | 14.3 | 1.52 | 75.5 | 0.41 | 52.0 |
| Q167146 | | 2.69 | 311 | 160.0 | <10 | 0.34 | 8.08 | 3.97 | 4.01 | 22.1 | 12.00 | 13.6 | 1.51 | 73.7 | 0.42 | 52.0 |
| Q167147 | | 0.43 | 673 | 62.0 | 140 | 0.50 | 3.61 | 2.03 | 1.29 | 18.5 | 4.15 | 3.8 | 0.68 | 32.6 | 0.32 | 7.8 |
| Q167148 | | 3.17 | 317 | 169.5 | 10 | 0.34 | 8.35 | 3.98 | 4.40 | 22.8 | 12.45 | 13.8 | 1.46 | 76.7 | 0.43 | 52.6 |
| Q167149 | | 3.00 | 295 | 155.5 | 10 | 0.50 | 7.92 | 3.87 | 4.09 | 23.5 | 11.30 | 13.4 | 1.39 | 70.2 | 0.46 | 51.1 |
| Q167150 | | 3.43 | 405 | 168.0 | 10 | 0.69 | 8.73 | 4.13 | 4.47 | 21.6 | 12.55 | 14.7 | 1.58 | 76.8 | 0.45 | 53.0 |
| Q167151 | | 3.01 | 392 | 163.0 | 10 | 0.57 | 7.92 | 3.73 | 3.76 | 22.4 | 11.65 | 14.5 | 1.47 | 74.7 | 0.45 | 51.2 |
| Q167152 | | 3.46 | 342 | 174.0 | 10 | 0.37 | 8.67 | 3.91 | 4.10 | 22.7 | 12.60 | 14.5 | 1.47 | 80.3 | 0.45 | 51.4 |
| Q167153 | | 2.97 | 298 | 168.0 | 10 | 0.33 | 8.76 | 4.09 | 4.34 | 23.2 | 12.60 | 13.7 | 1.51 | 77.2 | 0.46 | 53.0 |
| Q167154 | | 3.46 | 308 | 166.5 | 10 | 0.37 | 8.18 | 3.95 | 4.09 | 22.5 | 12.15 | 14.3 | 1.50 | 75.7 | 0.47 | 53.3 |
| Q167155 | | 2.18 | 268 | 162.5 | 10 | 0.38 | 8.22 | 3.84 | 4.01 | 23.9 | 11.60 | 13.5 | 1.41 | 73.3 | 0.45 | 51.4 |
| Q167156 | | 3.73 | 281 | 170.0 | 10 | 0.33 | 7.47 | 3.78 | 4.13 | 24.1 | 11.70 | 13.8 | 1.40 | 77.0 | 0.43 | 54.7 |
| Q167157 | | 3.23 | 289 | 178.5 | 10 | 0.34 | 7.81 | 3.97 | 4.32 | 23.7 | 12.05 | 14.3 | 1.41 | 79.7 | 0.45 | 55.1 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167118 | | 69.1 | 17.65 | 67.6 | 12.70 | 3 | 123.5 | 2.4 | 1.33 | 6.62 | <0.5 | 0.44 | 1.99 | 79 | 1 | 30.6 |
| Q167119 | | 75.0 | 19.10 | 52.7 | 13.60 | 3 | 132.0 | 2.7 | 1.42 | 6.67 | <0.5 | 0.43 | 1.98 | 85 | 1 | 32.3 |
| Q167120 | | 72.8 | 18.65 | 54.4 | 13.75 | 3 | 128.0 | 2.6 | 1.43 | 6.26 | <0.5 | 0.45 | 1.79 | 82 | 1 | 32.2 |
| Q167121 | | 72.1 | 17.90 | 66.8 | 13.40 | 3 | 127.5 | 2.5 | 1.35 | 6.44 | <0.5 | 0.45 | 1.92 | 74 | 1 | 32.5 |
| Q167122 | | 73.2 | 18.10 | 63.0 | 13.55 | 4 | 127.5 | 2.5 | 1.35 | 6.41 | <0.5 | 0.43 | 2.16 | 78 | 1 | 32.4 |
| Q167123 | | 76.2 | 18.95 | 59.7 | 13.90 | 3 | 139.0 | 2.6 | 1.45 | 6.59 | <0.5 | 0.45 | 2.04 | 68 | 1 | 33.0 |
| Q167124 | | 74.3 | 18.55 | 61.0 | 13.95 | 3 | 147.5 | 2.5 | 1.41 | 6.34 | <0.5 | 0.46 | 1.95 | 68 | 1 | 32.5 |
| Q167125 | | 73.4 | 18.35 | 60.5 | 14.00 | 4 | 126.0 | 2.4 | 1.41 | 6.04 | <0.5 | 0.42 | 1.82 | 63 | 1 | 31.8 |
| Q167126 | | 75.5 | 19.15 | 61.5 | 14.20 | 3 | 145.0 | 2.6 | 1.43 | 6.72 | <0.5 | 0.43 | 2.12 | 59 | 1 | 32.7 |
| Q167127 | | 15.1 | 3.24 | 14.7 | 3.50 | 2 | 353 | 0.2 | 0.56 | 1.62 | <0.5 | 0.25 | 0.34 | 100 | 3 | 17.6 |
| Q167128 | | 75.9 | 18.80 | 58.3 | 14.25 | 3 | 122.5 | 2.5 | 1.40 | 5.99 | <0.5 | 0.46 | 1.91 | 75 | 1 | 32.0 |
| Q167129 | | 72.5 | 18.15 | 52.5 | 13.75 | 3 | 133.5 | 2.4 | 1.33 | 6.04 | <0.5 | 0.43 | 1.85 | 85 | 1 | 30.7 |
| Q167130 | | 74.1 | 18.40 | 54.0 | 14.00 | 4 | 180.5 | 2.6 | 1.48 | 6.25 | <0.5 | 0.46 | 1.85 | 84 | 1 | 32.7 |
| Q167131 | | 76.4 | 18.85 | 50.1 | 14.90 | 3 | 188.0 | 2.6 | 1.44 | 5.87 | <0.5 | 0.47 | 1.76 | 91 | 1 | 32.7 |
| Q167132 | | 76.5 | 18.80 | 43.4 | 14.00 | 3 | 165.0 | 2.5 | 1.53 | 5.65 | <0.5 | 0.46 | 1.73 | 83 | 1 | 33.7 |
| Q167133 | | 71.9 | 17.55 | 44.8 | 13.65 | 3 | 163.0 | 2.5 | 1.44 | 5.05 | <0.5 | 0.44 | 1.59 | 140 | 1 | 31.4 |
| Q167134 | | 70.0 | 17.25 | 35.7 | 13.70 | 2 | 124.0 | 2.5 | 1.32 | 4.55 | <0.5 | 0.39 | 1.38 | 171 | 1 | 31.0 |
| Q167135 | | 69.5 | 17.10 | 40.9 | 12.80 | 3 | 136.0 | 2.6 | 1.35 | 4.82 | <0.5 | 0.43 | 1.60 | 131 | 1 | 31.2 |
| Q167136 | | 69.7 | 17.10 | 40.6 | 13.60 | 2 | 138.5 | 2.5 | 1.36 | 4.75 | <0.5 | 0.41 | 1.46 | 155 | 1 | 31.4 |
| Q167137 | | 76.9 | 18.45 | 47.3 | 14.35 | 3 | 125.5 | 2.6 | 1.42 | 5.30 | <0.5 | 0.43 | 1.58 | 127 | 1 | 32.4 |
| Q167138 | | 90.4 | 22.1 | 52.0 | 16.70 | 3 | 149.0 | 2.8 | 1.62 | 5.60 | <0.5 | 0.47 | 1.73 | 87 | 1 | 35.5 |
| Q167139 | | 64.5 | 15.50 | 38.8 | 12.55 | 3 | 140.0 | 2.8 | 1.34 | 5.93 | <0.5 | 0.43 | 1.78 | 61 | 1 | 30.7 |
| Q167140 | | 87.3 | 21.2 | 47.8 | 16.40 | 4 | 155.5 | 2.8 | 1.55 | 5.93 | <0.5 | 0.44 | 1.70 | 52 | 1 | 34.4 |
| Q167141 | | 84.9 | 21.3 | 53.8 | 16.15 | 3 | 157.0 | 3.0 | 1.68 | 6.09 | <0.5 | 0.51 | 1.81 | 47 | 1 | 37.5 |
| Q167142 | | 85.6 | 21.2 | 49.1 | 16.10 | 3 | 133.0 | 3.0 | 1.62 | 6.11 | <0.5 | 0.49 | 1.90 | 39 | 1 | 37.1 |
| Q167143 | | 89.9 | 21.3 | 41.3 | 17.20 | 4 | 131.5 | 3.0 | 1.69 | 6.50 | <0.5 | 0.48 | 2.04 | 38 | 1 | 38.5 |
| Q167144 | | 83.6 | 19.95 | 54.3 | 15.80 | 3 | 149.0 | 3.1 | 1.58 | 6.53 | <0.5 | 0.52 | 2.10 | 34 | 1 | 38.1 |
| Q167145 | | 91.1 | 21.4 | 49.5 | 16.95 | 3 | 123.5 | 3.3 | 1.59 | 7.04 | <0.5 | 0.53 | 2.13 | 29 | 1 | 37.5 |
| Q167146 | | 88.0 | 20.6 | 48.2 | 16.45 | 3 | 85.8 | 3.1 | 1.51 | 6.88 | <0.5 | 0.53 | 2.09 | 25 | 1 | 36.7 |
| Q167147 | | 27.2 | 7.10 | 65.3 | 4.97 | 1 | 419 | 0.5 | 0.61 | 7.45 | <0.5 | 0.29 | 1.61 | 118 | 1 | 18.7 |
| Q167148 | | 92.1 | 21.8 | 46.3 | 17.20 | 4 | 85.0 | 3.3 | 1.59 | 6.59 | <0.5 | 0.51 | 2.10 | 24 | 1 | 36.5 |
| Q167149 | | 85.0 | 19.95 | 36.1 | 15.90 | 4 | 91.7 | 3.2 | 1.49 | 6.54 | <0.5 | 0.48 | 2.09 | 23 | 1 | 35.8 |
| Q167150 | | 89.8 | 21.5 | 51.1 | 17.05 | 4 | 140.0 | 3.3 | 1.65 | 7.19 | <0.5 | 0.51 | 2.20 | 22 | 1 | 40.7 |
| Q167151 | | 87.8 | 20.8 | 50.4 | 16.00 | 3 | 111.0 | 3.2 | 1.54 | 7.17 | <0.5 | 0.52 | 2.21 | 18 | 1 | 36.7 |
| Q167152 | | 93.1 | 22.3 | 51.3 | 17.30 | 3 | 90.6 | 3.2 | 1.56 | 7.34 | <0.5 | 0.54 | 2.19 | 19 | 1 | 37.3 |
| Q167153 | | 91.5 | 21.8 | 47.1 | 17.10 | 2 | 81.9 | 3.3 | 1.61 | 6.90 | <0.5 | 0.51 | 2.19 | 19 | 1 | 38.9 |
| Q167154 | | 89.7 | 21.5 | 48.6 | 16.80 | 2 | 83.6 | 3.2 | 1.64 | 6.68 | <0.5 | 0.51 | 2.09 | 19 | 1 | 37.8 |
| Q167155 | | 86.3 | 20.8 | 44.2 | 15.95 | 2 | 121.0 | 3.1 | 1.50 | 6.58 | <0.5 | 0.51 | 2.09 | 20 | 1 | 36.1 |
| Q167156 | | 91.1 | 21.3 | 48.1 | 16.60 | 3 | 71.7 | 3.2 | 1.46 | 6.76 | <0.5 | 0.52 | 2.10 | 19 | 1 | 35.6 |
| Q167157 | | 95.0 | 22.5 | 48.8 | 17.20 | 3 | 71.7 | 3.3 | 1.49 | 6.84 | <0.5 | 0.52 | 2.17 | 19 | 1 | 35.6 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167118 | | 2.64 | 478 | 62.1 | 14.70 | 6.75 | 1.21 | 4.02 | 4.66 | 3.04 | <0.01 | 1.36 | 0.06 | 0.37 | 0.01 | 0.06 |
| Q167119 | | 2.61 | 499 | 60.0 | 14.00 | 8.33 | 2.00 | 3.59 | 4.68 | 2.46 | <0.01 | 1.66 | 0.08 | 0.48 | 0.02 | 0.04 |
| Q167120 | | 2.53 | 464 | 60.0 | 14.15 | 8.81 | 1.91 | 3.76 | 4.63 | 2.55 | <0.01 | 1.77 | 0.09 | 0.50 | 0.01 | 0.04 |
| Q167121 | | 2.51 | 466 | 60.3 | 14.00 | 8.63 | 1.70 | 3.97 | 4.18 | 3.03 | <0.01 | 1.79 | 0.08 | 0.52 | 0.01 | 0.06 |
| Q167122 | | 2.39 | 469 | 60.3 | 13.90 | 9.23 | 1.90 | 3.76 | 4.30 | 2.90 | <0.01 | 1.84 | 0.09 | 0.51 | 0.02 | 0.06 |
| Q167123 | | 2.62 | 494 | 58.7 | 13.70 | 9.27 | 2.04 | 3.44 | 4.27 | 2.77 | <0.01 | 1.73 | 0.09 | 0.51 | 0.01 | 0.05 |
| Q167124 | | 2.73 | 470 | 58.2 | 13.60 | 9.03 | 1.75 | 4.04 | 3.99 | 2.71 | <0.01 | 1.70 | 0.08 | 0.49 | 0.02 | 0.05 |
| Q167125 | | 2.64 | 446 | 59.3 | 13.60 | 8.93 | 2.42 | 3.34 | 4.44 | 2.82 | <0.01 | 1.80 | 0.08 | 0.50 | 0.02 | 0.05 |
| Q167126 | | 2.55 | 492 | 59.0 | 13.70 | 8.96 | 1.54 | 4.54 | 3.87 | 2.68 | <0.01 | 1.65 | 0.08 | 0.45 | 0.02 | 0.06 |
| Q167127 | | 1.62 | 93 | 48.8 | 19.35 | 11.15 | 9.98 | 5.72 | 2.70 | 0.58 | 0.02 | 0.56 | 0.15 | 0.18 | 0.04 | 0.03 |
| Q167128 | | 2.57 | 459 | 59.8 | 13.60 | 9.14 | 2.33 | 3.65 | 4.35 | 2.75 | <0.01 | 1.91 | 0.08 | 0.56 | 0.02 | 0.05 |
| Q167129 | | 2.46 | 453 | 59.1 | 13.60 | 9.45 | 2.33 | 3.90 | 4.34 | 2.54 | <0.01 | 1.98 | 0.09 | 0.51 | 0.02 | 0.04 |
| Q167130 | | 2.52 | 476 | 58.0 | 13.65 | 9.45 | 2.68 | 3.64 | 4.22 | 2.46 | <0.01 | 1.85 | 0.09 | 0.51 | 0.02 | 0.04 |
| Q167131 | | 2.66 | 478 | 57.7 | 13.55 | 10.10 | 2.75 | 3.83 | 4.40 | 2.29 | <0.01 | 2.03 | 0.09 | 0.54 | 0.02 | 0.04 |
| Q167132 | | 2.60 | 482 | 56.0 | 13.05 | 10.20 | 2.70 | 3.93 | 4.32 | 2.03 | <0.01 | 1.86 | 0.09 | 0.54 | 0.02 | 0.04 |
| Q167133 | | 2.48 | 442 | 54.6 | 13.30 | 11.30 | 2.75 | 4.31 | 4.37 | 2.02 | <0.01 | 2.39 | 0.12 | 0.48 | 0.02 | 0.04 |
| Q167134 | | 2.41 | 432 | 52.7 | 12.95 | 12.25 | 2.80 | 4.71 | 4.33 | 1.67 | <0.01 | 2.66 | 0.11 | 0.46 | 0.02 | 0.03 |
| Q167135 | | 2.49 | 447 | 55.0 | 13.50 | 11.95 | 2.85 | 4.35 | 4.40 | 1.99 | <0.01 | 2.45 | 0.10 | 0.50 | 0.02 | 0.04 |
| Q167136 | | 2.39 | 443 | 53.0 | 13.25 | 12.35 | 2.82 | 4.89 | 4.40 | 1.92 | <0.01 | 2.55 | 0.09 | 0.49 | 0.02 | 0.03 |
| Q167137 | | 2.59 | 486 | 54.2 | 13.20 | 11.40 | 3.03 | 4.30 | 4.48 | 2.23 | <0.01 | 2.23 | 0.08 | 0.49 | 0.02 | 0.04 |
| Q167138 | | 2.69 | 515 | 55.9 | 13.20 | 10.90 | 2.35 | 3.97 | 4.21 | 2.37 | <0.01 | 1.97 | 0.09 | 0.53 | 0.02 | 0.06 |
| Q167139 | | 2.81 | 540 | 54.3 | 13.20 | 10.80 | 1.10 | 7.87 | 2.86 | 1.68 | <0.01 | 1.82 | 0.09 | 0.56 | 0.02 | 0.05 |
| Q167140 | | 2.57 | 529 | 57.0 | 13.30 | 11.15 | 1.80 | 4.98 | 3.73 | 2.22 | <0.01 | 1.70 | 0.09 | 0.55 | 0.02 | 0.05 |
| Q167141 | | 2.93 | 551 | 56.7 | 13.30 | 10.85 | 2.59 | 3.47 | 4.30 | 2.56 | <0.01 | 1.69 | 0.08 | 0.50 | 0.02 | 0.05 |
| Q167142 | | 3.00 | 553 | 57.3 | 13.55 | 11.00 | 2.15 | 3.57 | 4.61 | 2.41 | <0.01 | 1.69 | 0.08 | 0.48 | 0.01 | 0.04 |
| Q167143 | | 2.99 | 542 | 58.9 | 13.50 | 9.86 | 1.70 | 4.00 | 4.57 | 2.00 | <0.01 | 1.62 | 0.09 | 0.47 | 0.02 | 0.03 |
| Q167144 | | 2.97 | 561 | 57.1 | 13.25 | 10.20 | 1.45 | 4.69 | 3.63 | 2.53 | <0.01 | 1.53 | 0.09 | 0.44 | 0.01 | 0.07 |
| Q167145 | | 3.08 | 586 | 58.3 | 13.20 | 10.50 | 1.53 | 4.04 | 4.18 | 2.42 | <0.01 | 1.46 | 0.07 | 0.38 | 0.01 | 0.05 |
| Q167146 | | 3.20 | 562 | 57.3 | 13.20 | 10.20 | 2.14 | 4.01 | 4.53 | 2.45 | <0.01 | 1.45 | 0.06 | 0.35 | 0.01 | 0.04 |
| Q167147 | | 1.75 | 145 | 59.1 | 16.35 | 7.52 | 5.55 | 4.36 | 3.08 | 2.07 | 0.02 | 0.61 | 0.12 | 0.16 | 0.05 | 0.08 |
| Q167148 | | 3.22 | 562 | 58.8 | 13.45 | 10.90 | 1.18 | 4.07 | 4.55 | 2.39 | <0.01 | 1.47 | 0.07 | 0.36 | 0.01 | 0.04 |
| Q167149 | | 2.96 | 544 | 59.0 | 13.10 | 10.95 | 1.12 | 5.28 | 3.64 | 1.76 | <0.01 | 1.42 | 0.08 | 0.35 | 0.01 | 0.03 |
| Q167150 | | 3.21 | 620 | 60.5 | 13.15 | 10.20 | 1.61 | 3.21 | 4.19 | 2.47 | <0.01 | 1.40 | 0.07 | 0.34 | 0.02 | 0.05 |
| Q167151 | | 3.09 | 591 | 59.3 | 12.85 | 9.42 | 1.83 | 3.80 | 4.12 | 2.46 | <0.01 | 1.26 | 0.07 | 0.30 | 0.01 | 0.05 |
| Q167152 | | 3.07 | 594 | 60.6 | 13.30 | 9.97 | 1.15 | 3.68 | 4.50 | 2.57 | <0.01 | 1.34 | 0.06 | 0.33 | 0.01 | 0.04 |
| Q167153 | | 3.04 | 573 | 59.4 | 13.20 | 10.05 | 1.55 | 4.01 | 4.47 | 2.39 | <0.01 | 1.35 | 0.06 | 0.31 | 0.01 | 0.03 |
| Q167154 | | 3.16 | 588 | 60.8 | 13.40 | 10.15 | 0.99 | 3.82 | 4.61 | 2.49 | <0.01 | 1.38 | 0.07 | 0.33 | 0.01 | 0.04 |
| Q167155 | | 3.06 | 559 | 59.8 | 13.30 | 10.85 | 0.98 | 4.39 | 4.38 | 2.29 | <0.01 | 1.38 | 0.07 | 0.36 | 0.01 | 0.03 |
| Q167156 | | 3.04 | 580 | 60.0 | 13.50 | 10.35 | 0.97 | 4.10 | 4.57 | 2.44 | <0.01 | 1.44 | 0.06 | 0.34 | 0.01 | 0.03 |
| Q167157 | | 3.07 | 568 | 59.8 | 13.50 | 10.50 | 0.92 | 4.05 | 4.55 | 2.46 | <0.01 | 1.44 | 0.06 | 0.34 | 0.01 | 0.03 |

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| Q167118 | | 2.93 | 101.27 | <0.5 | <5 | <0.5 | 12 | 1 | 40 | <1 | 7 | <2 | 9 | 32 | 0.001 | <0.005 |
| Q167119 | | 2.95 | 100.29 | <0.5 | 7 | <0.5 | 11 | 6 | 40 | <1 | 1 | <2 | 9 | 49 | 0.001 | <0.005 |
| Q167120 | | 2.85 | 101.07 | <0.5 | 6 | <0.5 | 11 | 33 | 40 | <1 | 1 | <2 | 10 | 59 | 0.001 | <0.005 |
| Q167121 | | 3.15 | 101.42 | <0.5 | <5 | <0.5 | 14 | 4 | 40 | <1 | 1 | <2 | 9 | 55 | 0.001 | <0.005 |
| Q167122 | | 3.15 | 101.96 | <0.5 | 6 | <0.5 | 13 | 1 | 40 | <1 | <1 | <2 | 10 | 55 | 0.001 | <0.005 |
| Q167123 | | 3.09 | 99.67 | <0.5 | 5 | <0.5 | 14 | 19 | 40 | <1 | <1 | <2 | 10 | 58 | 0.001 | <0.005 |
| Q167124 | | 2.91 | 98.57 | <0.5 | 6 | <0.5 | 14 | <1 | 40 | <1 | 1 | <2 | 10 | 56 | <0.001 | <0.005 |
| Q167125 | | 3.34 | 100.64 | <0.5 | <5 | <0.5 | 13 | <1 | 40 | <1 | <1 | <2 | 9 | 45 | <0.001 | <0.005 |
| Q167126 | | 3.19 | 99.74 | <0.5 | <5 | <0.5 | 14 | <1 | 50 | <1 | 1 | <2 | 9 | 48 | 0.001 | <0.005 |
| Q167127 | | 1.98 | 101.24 | 0.8 | 6 | 0.6 | 84 | 2550 | 10 | <1 | 2150 | 12 | 15 | 91 | 0.049 | 0.048 |
| Q167128 | | 3.24 | 101.48 | <0.5 | 5 | <0.5 | 15 | 3 | 40 | <1 | 3 | 2 | 10 | 49 | 0.001 | <0.005 |
| Q167129 | | 3.46 | 101.36 | <0.5 | 5 | <0.5 | 13 | <1 | 40 | <1 | <1 | <2 | 10 | 54 | 0.001 | <0.005 |
| Q167130 | | 3.25 | 99.86 | <0.5 | <5 | <0.5 | 14 | 3 | 40 | <1 | 1 | 2 | 10 | 61 | 0.005 | <0.005 |
| Q167131 | | 3.35 | 100.69 | <0.5 | <5 | <0.5 | 17 | 23 | 40 | <1 | <1 | 3 | 10 | 61 | <0.001 | <0.005 |
| Q167132 | | 3.39 | 98.17 | <0.5 | <5 | <0.5 | 18 | 34 | 40 | <1 | <1 | <2 | 10 | 66 | 0.001 | <0.005 |
| Q167133 | | 3.25 | 98.95 | <0.5 | <5 | <0.5 | 23 | 34 | 40 | <1 | 1 | <2 | 12 | 80 | 0.001 | <0.005 |
| Q167134 | | 3.49 | 98.18 | <0.5 | <5 | <0.5 | 26 | 19 | 50 | <1 | <1 | <2 | 14 | 85 | 0.001 | <0.005 |
| Q167135 | | 3.07 | 100.22 | <0.5 | 5 | <0.5 | 26 | 17 | 50 | <1 | <1 | <2 | 12 | 73 | 0.001 | <0.005 |
| Q167136 | | 3.61 | 99.42 | <0.5 | <5 | <0.5 | 27 | 39 | 60 | <1 | 1 | <2 | 13 | 74 | 0.001 | <0.005 |
| Q167137 | | 3.87 | 99.57 | <0.5 | <5 | <0.5 | 23 | 39 | 50 | <1 | 1 | <2 | 11 | 60 | 0.001 | <0.005 |
| Q167138 | | 3.31 | 98.88 | <0.5 | <5 | <0.5 | 20 | 2 | 40 | <1 | <1 | <2 | 10 | 58 | 0.002 | <0.005 |
| Q167139 | | 4.29 | 98.64 | <0.5 | <5 | <0.5 | 23 | <1 | 80 | <1 | 2 | <2 | 10 | 63 | 0.001 | <0.005 |
| Q167140 | | 3.43 | 100.02 | <0.5 | <5 | <0.5 | 22 | 3 | 50 | <1 | 1 | <2 | 9 | 57 | 0.001 | <0.005 |
| Q167141 | | 2.98 | 99.09 | <0.5 | <5 | <0.5 | 20 | 17 | 40 | <1 | <1 | 2 | 9 | 58 | 0.001 | <0.005 |
| Q167142 | | 2.45 | 99.34 | <0.5 | <5 | <0.5 | 18 | 86 | 50 | <1 | 1 | <2 | 9 | 58 | 0.001 | <0.005 |
| Q167143 | | 3.68 | 100.44 | <0.5 | 6 | <0.5 | 17 | 28 | 40 | <1 | <1 | <2 | 9 | 74 | 0.001 | <0.005 |
| Q167144 | | 3.21 | 98.20 | <0.5 | <5 | <0.5 | 20 | 2 | 50 | <1 | <1 | <2 | 9 | 61 | 0.001 | <0.005 |
| Q167145 | | 3.14 | 99.28 | <0.5 | <5 | <0.5 | 14 | 1 | 40 | <1 | <1 | <2 | 9 | 43 | 0.001 | <0.005 |
| Q167146 | | 3.64 | 99.38 | <0.5 | <5 | <0.5 | 14 | 22 | 50 | <1 | <1 | <2 | 9 | 33 | <0.001 | <0.005 |
| Q167147 | | 1.92 | 100.99 | <0.5 | 6 | <0.5 | 26 | 27 | 10 | <1 | 24 | 6 | 14 | 79 | <0.001 | <0.005 |
| Q167148 | | 2.79 | 100.08 | <0.5 | <5 | <0.5 | 15 | 11 | 40 | <1 | <1 | <2 | 9 | 40 | 0.001 | <0.005 |
| Q167149 | | 3.54 | 100.28 | <0.5 | <5 | <0.5 | 16 | 36 | 50 | <1 | <1 | <2 | 9 | 47 | <0.001 | <0.005 |
| Q167150 | | 2.67 | 99.88 | <0.5 | <5 | <0.5 | 16 | 9 | 40 | <1 | <1 | <2 | 9 | 50 | 0.001 | <0.005 |
| Q167151 | | 3.24 | 98.71 | <0.5 | 5 | <0.5 | 14 | 7 | 50 | <1 | <1 | <2 | 9 | 51 | 0.001 | <0.005 |
| Q167152 | | 2.54 | 100.09 | <0.5 | <5 | <0.5 | 15 | 34 | 50 | <1 | <1 | <2 | 9 | 41 | <0.001 | <0.005 |
| Q167153 | | 3.13 | 99.96 | <0.5 | 10 | <0.5 | 14 | 56 | 50 | <1 | <1 | <2 | 9 | 41 | 0.001 | <0.005 |
| Q167154 | | 2.58 | 100.67 | <0.5 | <5 | <0.5 | 14 | 18 | 50 | <1 | <1 | <2 | 9 | 55 | 0.002 | <0.005 |
| Q167155 | | 2.82 | 100.66 | <0.5 | <5 | <0.5 | 14 | 21 | 60 | <1 | <1 | <2 | 8 | 50 | 0.001 | <0.005 |
| Q167156 | | 2.69 | 100.50 | <0.5 | <5 | <0.5 | 13 | 11 | 60 | <1 | <1 | <2 | 9 | 46 | 0.001 | <0.005 |
| Q167157 | | 2.77 | 100.43 | <0.5 | <5 | <0.5 | 14 | 58 | 60 | <1 | <1 | <2 | 9 | 43 | 0.001 | <0.005 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| Q167118 | | 0.001 | 0.53 |
| Q167119 | | <0.001 | 0.06 |
| Q167120 | | 0.001 | 0.07 |
| Q167121 | | <0.001 | 0.10 |
| Q167122 | | <0.001 | 0.06 |
| Q167123 | | <0.001 | 0.05 |
| Q167124 | | <0.001 | 0.13 |
| Q167125 | | <0.001 | 0.09 |
| Q167126 | | <0.001 | 0.09 |
| Q167127 | | 0.071 | 1.51 |
| Q167128 | | <0.001 | 0.08 |
| Q167129 | | <0.001 | 0.08 |
| Q167130 | | <0.001 | 0.06 |
| Q167131 | | <0.001 | 0.06 |
| Q167132 | | <0.001 | 0.09 |
| Q167133 | | <0.001 | 0.08 |
| Q167134 | | <0.001 | 0.12 |
| Q167135 | | <0.001 | 0.11 |
| Q167136 | | <0.001 | 0.08 |
| Q167137 | | <0.001 | 0.05 |
| Q167138 | | <0.001 | 0.06 |
| Q167139 | | <0.001 | 0.05 |
| Q167140 | | <0.001 | 0.06 |
| Q167141 | | <0.001 | 0.09 |
| Q167142 | | <0.001 | 0.08 |
| Q167143 | | <0.001 | 0.13 |
| Q167144 | | <0.001 | 0.20 |
| Q167145 | | <0.001 | 0.05 |
| Q167146 | | <0.001 | 0.07 |
| Q167147 | | <0.001 | 0.06 |
| Q167148 | | <0.001 | 0.04 |
| Q167149 | | <0.001 | 0.03 |
| Q167150 | | <0.001 | 0.11 |
| Q167151 | | <0.001 | 0.09 |
| Q167152 | | <0.001 | 0.09 |
| Q167153 | | <0.001 | 0.08 |
| Q167154 | | 0.001 | 0.08 |
| Q167155 | | 0.001 | 0.07 |
| Q167156 | | <0.001 | 0.10 |
| Q167157 | | <0.001 | 0.08 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167158 | | 2.92 | 277 | 172.5 | <10 | 0.31 | 7.81 | 3.78 | 4.34 | 23.5 | 11.50 | 13.7 | 1.45 | 77.6 | 0.47 | 52.6 |
| Q167159 | | 3.02 | 293 | 163.0 | <10 | 0.39 | 7.65 | 3.89 | 4.12 | 23.3 | 11.90 | 13.5 | 1.40 | 74.3 | 0.48 | 53.9 |
| Q167160 | | 2.91 | 277 | 153.0 | 10 | 0.35 | 7.56 | 3.82 | 4.14 | 24.2 | 11.20 | 12.9 | 1.39 | 69.9 | 0.45 | 49.8 |
| Q167161 | | 2.92 | 265 | 146.0 | 10 | 0.39 | 7.59 | 3.69 | 4.16 | 23.4 | 11.00 | 12.4 | 1.38 | 66.6 | 0.42 | 50.0 |
| Q167162 | | 3.51 | 227 | 162.5 | 10 | 0.51 | 8.52 | 3.72 | 4.69 | 24.2 | 12.50 | 11.6 | 1.43 | 72.9 | 0.43 | 49.6 |
| Q167163 | | 3.31 | 220 | 155.0 | <10 | 0.38 | 8.35 | 4.10 | 4.68 | 23.5 | 12.30 | 11.1 | 1.46 | 72.2 | 0.41 | 46.3 |
| Q167164 | | 3.51 | 216 | 142.0 | 10 | 0.47 | 8.58 | 3.69 | 4.48 | 23.2 | 12.45 | 10.6 | 1.52 | 60.8 | 0.39 | 41.5 |
| Q167165 | | 2.75 | 162.5 | 143.5 | <10 | 0.40 | 8.36 | 3.60 | 4.69 | 22.2 | 12.95 | 9.3 | 1.41 | 63.2 | 0.36 | 43.3 |
| Q167166 | | 3.89 | 137.5 | 115.0 | 210 | 0.38 | 7.14 | 3.19 | 3.73 | 21.8 | 10.55 | 9.0 | 1.23 | 50.0 | 0.33 | 38.9 |
| Q167167 | | 0.10 | 249 | 24.3 | 140 | 0.23 | 3.66 | 2.03 | 1.40 | 16.9 | 3.83 | 2.2 | 0.67 | 11.6 | 0.22 | 3.0 |
| Q167168 | | 3.32 | 140.5 | 94.9 | <10 | 0.51 | 5.59 | 2.49 | 3.03 | 21.4 | 8.30 | 8.0 | 0.98 | 42.4 | 0.26 | 35.6 |
| Q167169 | | 3.49 | 186.5 | 98.1 | <10 | 0.77 | 5.82 | 2.44 | 3.01 | 21.3 | 7.96 | 8.3 | 0.99 | 43.9 | 0.29 | 34.1 |
| Q167170 | | 3.16 | 328 | 107.5 | <10 | 0.77 | 5.94 | 2.70 | 3.27 | 21.4 | 8.74 | 8.9 | 1.05 | 49.0 | 0.29 | 33.4 |
| Q167171 | | 3.31 | 247 | 95.5 | 10 | 0.55 | 5.50 | 2.35 | 3.10 | 21.2 | 8.01 | 8.4 | 0.97 | 43.0 | 0.27 | 33.0 |
| Q167172 | | 3.31 | 177.5 | 89.7 | <10 | 0.69 | 5.36 | 2.48 | 2.92 | 20.8 | 7.74 | 7.9 | 0.95 | 39.8 | 0.25 | 32.3 |
| Q167173 | | 3.31 | 127.5 | 87.0 | <10 | 0.98 | 5.45 | 2.50 | 3.04 | 20.9 | 7.76 | 7.4 | 0.94 | 38.9 | 0.25 | 32.3 |
| Q167174 | | 3.49 | 148.5 | 90.4 | <10 | 0.64 | 5.33 | 2.28 | 3.03 | 20.9 | 7.67 | 7.3 | 0.92 | 40.7 | 0.25 | 31.8 |
| Q167175 | | 3.11 | 169.0 | 93.1 | <10 | 0.62 | 5.30 | 2.45 | 2.98 | 20.6 | 7.92 | 8.1 | 0.98 | 42.1 | 0.27 | 31.7 |
| Q167176 | | 3.67 | 147.5 | 79.9 | <10 | 0.44 | 4.76 | 2.21 | 2.79 | 20.6 | 6.85 | 7.6 | 0.87 | 35.4 | 0.23 | 28.6 |
| Q167177 | | 3.40 | 128.0 | 79.1 | <10 | 0.40 | 4.71 | 2.15 | 2.71 | 20.1 | 7.24 | 6.6 | 0.83 | 35.7 | 0.24 | 28.8 |
| Q167178 | | 3.59 | 144.0 | 85.8 | 10 | 0.39 | 4.87 | 2.13 | 2.75 | 21.8 | 7.64 | 7.0 | 0.87 | 36.4 | 0.24 | 26.7 |
| Q167179 | | 3.37 | 428 | 83.1 | 10 | 0.38 | 4.89 | 2.13 | 2.56 | 21.4 | 7.38 | 6.9 | 0.89 | 35.2 | 0.25 | 24.8 |
| Q167180 | | 3.43 | 265 | 74.9 | 10 | 0.33 | 4.63 | 1.90 | 2.39 | 20.9 | 6.79 | 6.0 | 0.83 | 31.1 | 0.22 | 23.2 |
| Q167181 | | 3.81 | 173.5 | 71.7 | <10 | 0.31 | 4.31 | 1.94 | 2.33 | 20.3 | 6.94 | 5.9 | 0.81 | 29.8 | 0.22 | 22.4 |
| Q167182 | | 3.64 | 293 | 70.9 | 10 | 0.41 | 4.35 | 1.98 | 2.44 | 20.2 | 6.60 | 5.7 | 0.80 | 29.8 | 0.20 | 22.6 |
| Q167183 | | 3.36 | 129.5 | 72.1 | 10 | 0.25 | 4.44 | 1.95 | 2.44 | 20.8 | 6.35 | 5.5 | 0.79 | 30.8 | 0.21 | 23.4 |
| Q167184 | | 3.53 | 124.5 | 72.5 | 10 | 0.26 | 4.46 | 2.00 | 2.57 | 21.0 | 6.76 | 5.9 | 0.80 | 30.4 | 0.19 | 22.9 |
| Q167185 | | 3.68 | 82.7 | 65.6 | 10 | 0.21 | 4.10 | 1.86 | 2.25 | 20.3 | 6.14 | 5.5 | 0.74 | 27.2 | 0.21 | 21.8 |
| Q167186 | | 3.31 | 88.2 | 66.4 | 10 | 0.27 | 4.13 | 1.72 | 2.28 | 20.4 | 6.13 | 5.2 | 0.69 | 27.8 | 0.20 | 21.1 |
| Q167187 | | 0.43 | 597 | 60.8 | 130 | 1.26 | 3.20 | 1.83 | 1.18 | 19.2 | 4.04 | 3.4 | 0.63 | 30.2 | 0.26 | 7.5 |
| Q167188 | | 4.25 | 111.0 | 64.2 | 10 | 0.36 | 3.95 | 1.77 | 2.23 | 20.7 | 6.19 | 5.2 | 0.70 | 27.3 | 0.19 | 21.0 |
| Q167189 | | 2.84 | 74.4 | 62.3 | 10 | 0.27 | 4.10 | 1.76 | 2.11 | 20.1 | 5.82 | 4.9 | 0.71 | 25.9 | 0.19 | 19.9 |
| Q167190 | | 3.47 | 72.1 | 58.1 | 10 | 0.17 | 3.87 | 1.71 | 2.10 | 21.2 | 5.64 | 4.6 | 0.66 | 24.2 | 0.15 | 18.6 |
| Q167191 | | 3.97 | 66.1 | 55.9 | 20 | 0.16 | 3.73 | 1.52 | 2.06 | 20.4 | 5.67 | 4.6 | 0.64 | 23.5 | 0.16 | 18.0 |
| Q167192 | | 3.58 | 85.9 | 56.4 | 30 | 0.21 | 3.53 | 1.63 | 2.01 | 20.8 | 5.53 | 4.5 | 0.63 | 23.2 | 0.17 | 17.9 |
| Q167193 | | 3.58 | 249 | 59.0 | 50 | 0.33 | 3.86 | 1.77 | 2.01 | 20.5 | 5.69 | 4.9 | 0.71 | 24.9 | 0.19 | 21.3 |
| Q167194 | | 3.48 | 324 | 61.3 | 50 | 0.45 | 3.85 | 1.74 | 2.09 | 20.2 | 6.00 | 5.0 | 0.68 | 26.0 | 0.18 | 19.2 |
| Q167195 | | 3.35 | 333 | 61.6 | 30 | 0.47 | 3.71 | 1.78 | 2.04 | 19.2 | 6.06 | 4.9 | 0.69 | 26.0 | 0.20 | 19.0 |
| Q167196 | | 3.55 | 365 | 69.9 | 30 | 0.33 | 4.18 | 1.82 | 2.14 | 19.4 | 6.29 | 5.4 | 0.73 | 29.2 | 0.20 | 20.6 |
| Q167197 | | 3.47 | 332 | 62.3 | 30 | 0.31 | 3.83 | 1.65 | 2.12 | 19.1 | 5.75 | 5.1 | 0.68 | 26.3 | 0.20 | 18.9 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167158 | | 92.1 | 21.5 | 48.2 | 17.35 | 3 | 65.1 | 3.1 | 1.51 | 6.71 | <0.5 | 0.50 | 2.13 | 17 | 1 | 35.1 |
| Q167159 | | 88.3 | 21.1 | 50.5 | 16.35 | 3 | 67.4 | 3.3 | 1.46 | 6.50 | <0.5 | 0.50 | 2.13 | 17 | 1 | 35.7 |
| Q167160 | | 84.0 | 20.00 | 49.8 | 15.45 | 3 | 62.4 | 3.0 | 1.48 | 6.46 | <0.5 | 0.54 | 1.97 | 15 | 1 | 35.0 |
| Q167161 | | 83.3 | 19.20 | 48.0 | 15.45 | 3 | 65.0 | 3.0 | 1.49 | 6.01 | <0.5 | 0.47 | 1.85 | 19 | 1 | 35.1 |
| Q167162 | | 90.3 | 21.0 | 41.8 | 16.75 | 3 | 70.4 | 2.9 | 1.62 | 5.80 | <0.5 | 0.51 | 1.75 | 26 | 1 | 37.1 |
| Q167163 | | 89.9 | 20.4 | 39.0 | 16.70 | 3 | 74.8 | 2.8 | 1.52 | 5.54 | <0.5 | 0.51 | 1.75 | 32 | 1 | 37.6 |
| Q167164 | | 81.4 | 18.75 | 37.4 | 16.60 | 3 | 97.6 | 2.5 | 1.60 | 5.12 | <0.5 | 0.49 | 1.58 | 72 | 1 | 38.5 |
| Q167165 | | 86.0 | 19.30 | 30.0 | 17.10 | 3 | 102.5 | 2.7 | 1.63 | 4.23 | <0.5 | 0.42 | 1.28 | 117 | 1 | 36.8 |
| Q167166 | | 68.6 | 15.35 | 26.4 | 13.85 | 3 | 99.5 | 2.4 | 1.35 | 3.79 | <0.5 | 0.39 | 1.23 | 174 | 1 | 31.1 |
| Q167167 | | 14.9 | 3.19 | 14.3 | 3.42 | 2 | 372 | 0.2 | 0.61 | 1.66 | <0.5 | 0.28 | 0.35 | 99 | 3 | 18.0 |
| Q167168 | | 55.1 | 12.65 | 27.6 | 10.65 | 3 | 105.5 | 2.3 | 1.04 | 3.57 | <0.5 | 0.34 | 1.12 | 204 | 1 | 25.1 |
| Q167169 | | 55.0 | 12.65 | 32.7 | 10.65 | 3 | 161.5 | 2.1 | 1.10 | 3.79 | <0.5 | 0.33 | 1.18 | 216 | 1 | 25.1 |
| Q167170 | | 60.6 | 14.00 | 33.6 | 11.95 | 2 | 277 | 2.2 | 1.18 | 4.08 | <0.5 | 0.38 | 1.23 | 248 | 1 | 26.7 |
| Q167171 | | 54.9 | 12.65 | 27.4 | 11.05 | 2 | 330 | 2.1 | 1.02 | 3.63 | <0.5 | 0.30 | 1.16 | 262 | 1 | 24.3 |
| Q167172 | | 51.5 | 11.90 | 24.0 | 9.91 | 2 | 350 | 2.1 | 0.99 | 3.41 | <0.5 | 0.28 | 1.05 | 279 | <1 | 23.6 |
| Q167173 | | 51.9 | 11.70 | 22.2 | 10.10 | 2 | 428 | 2.1 | 0.94 | 3.20 | <0.5 | 0.32 | 0.98 | 279 | <1 | 23.4 |
| Q167174 | | 50.9 | 11.90 | 24.8 | 10.10 | 2 | 490 | 2.0 | 1.01 | 3.25 | <0.5 | 0.30 | 1.01 | 268 | 1 | 23.1 |
| Q167175 | | 51.9 | 12.10 | 27.2 | 9.97 | 2 | 543 | 2.1 | 0.99 | 3.63 | <0.5 | 0.29 | 1.16 | 279 | 1 | 23.8 |
| Q167176 | | 46.9 | 10.60 | 20.1 | 8.93 | 2 | 485 | 1.8 | 0.89 | 2.88 | <0.5 | 0.24 | 0.93 | 325 | <1 | 21.1 |
| Q167177 | | 46.1 | 10.60 | 17.0 | 9.14 | 2 | 533 | 1.9 | 0.91 | 2.79 | <0.5 | 0.26 | 0.87 | 367 | <1 | 21.3 |
| Q167178 | | 46.6 | 11.40 | 18.3 | 10.10 | 2 | 492 | 1.6 | 0.94 | 3.15 | <0.5 | 0.31 | 1.00 | 372 | <1 | 21.6 |
| Q167179 | | 44.7 | 10.70 | 31.9 | 9.35 | 2 | 462 | 1.6 | 0.91 | 2.98 | <0.5 | 0.27 | 0.90 | 414 | <1 | 20.7 |
| Q167180 | | 40.5 | 9.92 | 22.3 | 8.64 | 2 | 426 | 1.4 | 0.89 | 2.58 | <0.5 | 0.26 | 0.78 | 469 | <1 | 19.7 |
| Q167181 | | 40.1 | 9.44 | 16.5 | 8.62 | 2 | 442 | 1.4 | 0.87 | 2.45 | <0.5 | 0.24 | 0.75 | 460 | <1 | 19.2 |
| Q167182 | | 39.2 | 9.51 | 21.1 | 8.31 | 2 | 579 | 1.4 | 0.86 | 2.43 | <0.5 | 0.26 | 0.73 | 464 | <1 | 18.9 |
| Q167183 | | 40.3 | 9.77 | 15.5 | 8.70 | 2 | 550 | 1.4 | 0.84 | 2.40 | <0.5 | 0.27 | 0.69 | 453 | <1 | 18.6 |
| Q167184 | | 40.0 | 9.56 | 14.9 | 8.73 | 2 | 548 | 1.4 | 0.85 | 2.31 | <0.5 | 0.27 | 0.71 | 478 | 1 | 19.2 |
| Q167185 | | 36.8 | 8.66 | 11.7 | 7.93 | 2 | 543 | 1.4 | 0.78 | 2.26 | <0.5 | 0.25 | 0.71 | 532 | <1 | 17.7 |
| Q167186 | | 36.6 | 8.87 | 13.2 | 8.13 | 2 | 634 | 1.2 | 0.79 | 2.16 | <0.5 | 0.22 | 0.67 | 462 | <1 | 17.5 |
| Q167187 | | 26.0 | 6.94 | 72.5 | 5.00 | 1 | 426 | 0.5 | 0.54 | 6.59 | <0.5 | 0.28 | 1.50 | 122 | <1 | 17.1 |
| Q167188 | | 35.9 | 8.58 | 12.1 | 7.87 | 2 | 532 | 1.3 | 0.78 | 2.16 | <0.5 | 0.22 | 0.68 | 537 | <1 | 17.4 |
| Q167189 | | 34.8 | 8.26 | 10.9 | 7.50 | 2 | 556 | 1.2 | 0.76 | 2.06 | <0.5 | 0.22 | 0.60 | 503 | <1 | 16.7 |
| Q167190 | | 33.3 | 7.86 | 9.6 | 7.26 | 1 | 547 | 1.2 | 0.69 | 1.93 | <0.5 | 0.20 | 0.60 | 572 | <1 | 16.0 |
| Q167191 | | 32.4 | 7.58 | 8.5 | 6.68 | 2 | 553 | 1.1 | 0.71 | 1.80 | <0.5 | 0.21 | 0.55 | 593 | <1 | 15.5 |
| Q167192 | | 31.5 | 7.58 | 9.0 | 7.26 | 2 | 492 | 1.1 | 0.70 | 1.86 | <0.5 | 0.22 | 0.60 | 586 | <1 | 15.2 |
| Q167193 | | 33.1 | 8.01 | 17.2 | 6.80 | 1 | 448 | 1.1 | 0.72 | 2.03 | <0.5 | 0.22 | 0.63 | 571 | <1 | 16.4 |
| Q167194 | | 33.7 | 8.16 | 24.6 | 7.12 | 2 | 664 | 1.2 | 0.74 | 2.06 | <0.5 | 0.22 | 0.63 | 460 | <1 | 16.6 |
| Q167195 | | 35.2 | 8.29 | 29.0 | 7.63 | 1 | 812 | 1.1 | 0.73 | 2.10 | <0.5 | 0.21 | 0.69 | 324 | <1 | 16.6 |
| Q167196 | | 38.7 | 9.19 | 28.0 | 8.33 | 2 | 801 | 1.2 | 0.78 | 2.43 | <0.5 | 0.25 | 0.74 | 265 | <1 | 17.9 |
| Q167197 | | 34.6 | 8.17 | 25.6 | 7.47 | 2 | 676 | 1.2 | 0.71 | 2.16 | <0.5 | 0.24 | 0.66 | 266 | <1 | 16.8 |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167158 | | 3.19 | 564 | 59.0 | 13.45 | 10.30 | 0.59 | 4.35 | 4.39 | 2.50 | <0.01 | 1.36 | 0.06 | 0.32 | 0.01 | 0.03 |
| Q167159 | | 3.21 | 561 | 59.1 | 13.40 | 10.25 | 0.77 | 4.17 | 4.33 | 2.60 | <0.01 | 1.40 | 0.06 | 0.34 | 0.01 | 0.03 |
| Q167160 | | 2.85 | 536 | 59.1 | 13.45 | 10.20 | 0.59 | 4.91 | 4.07 | 2.58 | <0.01 | 1.27 | 0.06 | 0.32 | 0.01 | 0.03 |
| Q167161 | | 2.90 | 516 | 58.8 | 13.50 | 10.40 | 0.67 | 4.95 | 4.06 | 2.46 | <0.01 | 1.45 | 0.07 | 0.39 | 0.01 | 0.03 |
| Q167162 | | 2.86 | 479 | 57.6 | 13.65 | 11.25 | 0.78 | 5.26 | 4.12 | 2.13 | <0.01 | 1.60 | 0.08 | 0.47 | 0.01 | 0.03 |
| Q167163 | | 2.84 | 462 | 55.6 | 13.80 | 11.35 | 0.84 | 5.21 | 4.26 | 2.02 | <0.01 | 1.61 | 0.08 | 0.53 | 0.01 | 0.03 |
| Q167164 | | 2.75 | 436 | 55.6 | 13.85 | 12.10 | 1.59 | 4.88 | 4.39 | 1.95 | <0.01 | 1.98 | 0.10 | 0.78 | 0.01 | 0.02 |
| Q167165 | | 2.43 | 382 | 51.5 | 13.55 | 12.80 | 2.17 | 5.05 | 4.60 | 1.58 | <0.01 | 2.96 | 0.10 | 0.97 | 0.01 | 0.02 |
| Q167166 | | 2.18 | 357 | 51.4 | 13.20 | 13.35 | 2.18 | 6.11 | 4.37 | 1.35 | 0.03 | 2.73 | 0.10 | 0.60 | 0.01 | 0.02 |
| Q167167 | | 1.78 | 87 | 47.8 | 18.65 | 10.70 | 9.35 | 5.47 | 2.57 | 0.55 | 0.02 | 0.53 | 0.14 | 0.17 | 0.04 | 0.03 |
| Q167168 | | 1.89 | 310 | 51.3 | 13.65 | 12.85 | 1.59 | 5.90 | 4.53 | 1.44 | <0.01 | 3.01 | 0.10 | 0.38 | 0.01 | 0.02 |
| Q167169 | | 2.10 | 316 | 50.9 | 13.70 | 12.85 | 1.63 | 6.16 | 4.21 | 1.61 | <0.01 | 3.07 | 0.09 | 0.35 | 0.02 | 0.02 |
| Q167170 | | 1.92 | 354 | 52.4 | 14.15 | 13.00 | 3.05 | 5.03 | 4.36 | 1.61 | <0.01 | 3.11 | 0.19 | 0.34 | 0.03 | 0.04 |
| Q167171 | | 1.90 | 327 | 51.7 | 14.20 | 13.15 | 4.06 | 4.53 | 4.40 | 1.39 | <0.01 | 3.33 | 0.29 | 0.33 | 0.04 | 0.03 |
| Q167172 | | 1.86 | 287 | 50.5 | 13.80 | 13.45 | 4.13 | 5.27 | 4.08 | 1.24 | <0.01 | 3.57 | 0.27 | 0.33 | 0.04 | 0.02 |
| Q167173 | | 1.82 | 282 | 51.0 | 13.90 | 12.95 | 4.17 | 5.79 | 4.02 | 1.13 | <0.01 | 3.54 | 0.24 | 0.32 | 0.05 | 0.01 |
| Q167174 | | 1.76 | 277 | 51.4 | 14.25 | 12.30 | 4.05 | 5.18 | 4.26 | 1.29 | <0.01 | 3.26 | 0.20 | 0.29 | 0.06 | 0.02 |
| Q167175 | | 1.85 | 326 | 52.4 | 14.25 | 11.70 | 3.92 | 5.16 | 4.16 | 1.43 | <0.01 | 3.16 | 0.16 | 0.27 | 0.06 | 0.02 |
| Q167176 | | 1.58 | 282 | 48.8 | 14.10 | 13.30 | 5.38 | 5.06 | 3.82 | 1.10 | <0.01 | 3.70 | 0.27 | 0.27 | 0.05 | 0.02 |
| Q167177 | | 1.71 | 253 | 48.4 | 13.35 | 13.40 | 6.14 | 5.00 | 3.60 | 0.89 | <0.01 | 3.82 | 0.28 | 0.27 | 0.06 | 0.01 |
| Q167178 | | 1.65 | 273 | 50.0 | 14.10 | 14.00 | 6.02 | 4.84 | 3.85 | 0.97 | <0.01 | 3.06 | 0.22 | 0.30 | 0.06 | 0.02 |
| Q167179 | | 1.73 | 268 | 50.2 | 14.25 | 14.65 | 6.44 | 4.71 | 4.00 | 1.29 | <0.01 | 3.03 | 0.29 | 0.28 | 0.05 | 0.05 |
| Q167180 | | 1.53 | 226 | 48.7 | 13.30 | 15.35 | 7.20 | 5.21 | 3.83 | 0.99 | <0.01 | 3.25 | 0.31 | 0.25 | 0.05 | 0.03 |
| Q167181 | | 1.62 | 218 | 48.7 | 13.30 | 14.80 | 7.41 | 5.59 | 3.71 | 0.84 | <0.01 | 3.08 | 0.25 | 0.25 | 0.05 | 0.02 |
| Q167182 | | 1.46 | 221 | 48.5 | 13.45 | 14.65 | 7.12 | 5.62 | 3.51 | 1.00 | <0.01 | 3.02 | 0.24 | 0.24 | 0.07 | 0.04 |
| Q167183 | | 1.48 | 213 | 48.3 | 14.00 | 14.40 | 7.68 | 4.67 | 3.71 | 0.86 | <0.01 | 2.97 | 0.21 | 0.25 | 0.07 | 0.02 |
| Q167184 | | 1.46 | 227 | 48.2 | 13.85 | 14.85 | 7.64 | 5.16 | 3.45 | 0.83 | <0.01 | 3.04 | 0.23 | 0.25 | 0.06 | 0.01 |
| Q167185 | | 1.37 | 208 | 46.3 | 13.30 | 15.45 | 7.51 | 5.18 | 3.23 | 0.69 | <0.01 | 3.24 | 0.23 | 0.24 | 0.06 | 0.01 |
| Q167186 | | 1.36 | 194 | 47.2 | 13.70 | 14.45 | 7.24 | 5.78 | 3.30 | 0.76 | <0.01 | 2.90 | 0.22 | 0.24 | 0.07 | 0.01 |
| Q167187 | | 1.75 | 133 | 59.3 | 16.35 | 7.45 | 6.20 | 4.15 | 3.20 | 1.93 | 0.02 | 0.63 | 0.11 | 0.15 | 0.05 | 0.07 |
| Q167188 | | 1.34 | 194 | 46.0 | 13.40 | 15.85 | 6.69 | 6.21 | 3.14 | 0.66 | <0.01 | 3.16 | 0.23 | 0.23 | 0.06 | 0.01 |
| Q167189 | | 1.41 | 189 | 47.3 | 13.75 | 15.35 | 6.96 | 6.43 | 3.32 | 0.63 | <0.01 | 2.93 | 0.23 | 0.22 | 0.07 | 0.01 |
| Q167190 | | 1.26 | 171 | 45.6 | 13.65 | 15.90 | 7.61 | 5.81 | 3.36 | 0.53 | <0.01 | 3.03 | 0.25 | 0.20 | 0.06 | 0.01 |
| Q167191 | | 1.15 | 166 | 44.9 | 13.45 | 16.15 | 8.15 | 5.55 | 3.25 | 0.48 | <0.01 | 3.06 | 0.25 | 0.19 | 0.06 | 0.01 |
| Q167192 | | 1.25 | 169 | 46.2 | 13.45 | 17.05 | 8.07 | 5.89 | 3.53 | 0.52 | 0.01 | 3.21 | 0.27 | 0.22 | 0.06 | 0.01 |
| Q167193 | | 1.37 | 189 | 45.2 | 13.35 | 16.40 | 7.29 | 5.84 | 3.67 | 0.74 | 0.01 | 3.11 | 0.26 | 0.21 | 0.05 | 0.03 |
| Q167194 | | 1.33 | 189 | 47.4 | 14.00 | 14.25 | 7.73 | 5.77 | 3.75 | 0.93 | 0.01 | 2.64 | 0.25 | 0.21 | 0.08 | 0.04 |
| Q167195 | | 1.33 | 185 | 48.5 | 14.40 | 12.15 | 7.64 | 6.01 | 3.92 | 1.05 | <0.01 | 2.17 | 0.22 | 0.20 | 0.10 | 0.04 |
| Q167196 | | 1.44 | 208 | 49.3 | 14.45 | 11.25 | 7.83 | 5.46 | 3.78 | 1.03 | <0.01 | 2.02 | 0.20 | 0.20 | 0.10 | 0.04 |
| Q167197 | | 1.32 | 191 | 49.1 | 14.55 | 11.35 | 8.21 | 5.72 | 3.98 | 0.91 | <0.01 | 1.98 | 0.21 | 0.20 | 0.08 | 0.04 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| Q167158 | | 2.82 | 99.18 | <0.5 | <5 | <0.5 | 15 | 27 | 60 | <1 | <1 | <2 | 9 | 44 | 0.001 | <0.005 |
| Q167159 | | 2.89 | 99.35 | <0.5 | <5 | <0.5 | 15 | 16 | 60 | <1 | <1 | <2 | 9 | 46 | 0.001 | <0.005 |
| Q167160 | | 3.17 | 99.76 | <0.5 | <5 | <0.5 | 15 | 17 | 70 | <1 | <1 | <2 | 8 | 44 | 0.001 | <0.005 |
| Q167161 | | 3.13 | 99.92 | <0.5 | <5 | <0.5 | 15 | 5 | 70 | <1 | 1 | 2 | 8 | 50 | 0.001 | <0.005 |
| Q167162 | | 3.31 | 100.29 | <0.5 | <5 | <0.5 | 19 | 12 | 70 | <1 | <1 | <2 | 9 | 56 | 0.001 | <0.005 |
| Q167163 | | 3.23 | 98.57 | <0.5 | <5 | <0.5 | 20 | 12 | 70 | <1 | <1 | <2 | 9 | 54 | 0.001 | <0.005 |
| Q167164 | | 3.08 | 100.33 | <0.5 | <5 | <0.5 | 24 | 11 | 50 | <1 | <1 | <2 | 10 | 66 | <0.001 | <0.005 |
| Q167165 | | 3.28 | 98.59 | <0.5 | <5 | <0.5 | 27 | 75 | 50 | <1 | <1 | <2 | 10 | 73 | <0.001 | <0.005 |
| Q167166 | | 4.12 | 99.57 | <0.5 | 8 | <0.5 | 31 | 36 | 60 | 1 | 1 | <2 | 14 | 88 | 0.001 | <0.005 |
| Q167167 | | 1.98 | 98.00 | 0.5 | <5 | <0.5 | 88 | 2630 | 10 | 2 | 2250 | 12 | 16 | 94 | 0.049 | 0.049 |
| Q167168 | | 3.94 | 98.72 | <0.5 | 5 | <0.5 | 33 | 31 | 70 | <1 | 4 | <2 | 13 | 87 | <0.001 | <0.005 |
| Q167169 | | 3.97 | 98.58 | <0.5 | <5 | <0.5 | 35 | 38 | 70 | 1 | 1 | 4 | 14 | 93 | 0.001 | <0.005 |
| Q167170 | | 3.33 | 100.64 | <0.5 | 5 | <0.5 | 38 | 35 | 40 | <1 | 1 | 5 | 14 | 93 | <0.001 | <0.005 |
| Q167171 | | 3.15 | 100.60 | <0.5 | <5 | <0.5 | 40 | 33 | 30 | <1 | 1 | <2 | 15 | 101 | 0.001 | <0.005 |
| Q167172 | | 3.52 | 100.22 | <0.5 | 6 | <0.5 | 40 | 40 | 50 | <1 | 2 | 2 | 15 | 101 | 0.001 | <0.005 |
| Q167173 | | 3.83 | 100.95 | <0.5 | 7 | <0.5 | 39 | 51 | 60 | <1 | <1 | <2 | 17 | 100 | 0.001 | <0.005 |
| Q167174 | | 3.61 | 100.17 | <0.5 | <5 | <0.5 | 41 | 49 | 40 | <1 | 2 | 4 | 15 | 91 | 0.001 | <0.005 |
| Q167175 | | 3.64 | 100.33 | <0.5 | <5 | <0.5 | 39 | 60 | 50 | <1 | 4 | <2 | 14 | 84 | 0.001 | <0.005 |
| Q167176 | | 3.51 | 99.38 | <0.5 | 7 | <0.5 | 40 | 107 | 30 | <1 | 6 | <2 | 17 | 98 | 0.001 | <0.005 |
| Q167177 | | 3.37 | 98.59 | <0.5 | <5 | <0.5 | 42 | 158 | 30 | <1 | 12 | 2 | 19 | 108 | <0.001 | <0.005 |
| Q167178 | | 3.03 | 100.47 | <0.5 | 10 | <0.5 | 44 | 176 | 30 | <1 | 14 | 5 | 18 | 111 | 0.001 | <0.005 |
| Q167179 | | 2.61 | 101.85 | <0.5 | 5 | <0.5 | 44 | 222 | 20 | <1 | 20 | 8 | 19 | 113 | 0.002 | <0.005 |
| Q167180 | | 2.52 | 100.99 | <0.5 | <5 | <0.5 | 51 | 255 | 20 | <1 | 24 | 13 | 23 | 112 | 0.001 | <0.005 |
| Q167181 | | 2.99 | 100.99 | <0.5 | 12 | <0.5 | 52 | 247 | 30 | <1 | 25 | 4 | 23 | 99 | 0.001 | <0.005 |
| Q167182 | | 3.24 | 100.70 | <0.5 | 8 | <0.5 | 54 | 273 | 30 | <1 | 27 | 4 | 23 | 97 | 0.001 | <0.005 |
| Q167183 | | 2.94 | 100.08 | <0.5 | 5 | <0.5 | 46 | 308 | 20 | <1 | 33 | <2 | 20 | 88 | 0.001 | <0.005 |
| Q167184 | | 2.97 | 100.54 | <0.5 | 5 | <0.5 | 50 | 352 | 30 | <1 | 40 | <2 | 22 | 94 | 0.001 | <0.005 |
| Q167185 | | 3.09 | 98.53 | <0.5 | <5 | <0.5 | 51 | 357 | 30 | <1 | 46 | <2 | 21 | 93 | 0.001 | <0.005 |
| Q167186 | | 3.41 | 99.28 | <0.5 | <5 | <0.5 | 48 | 403 | 40 | <1 | 47 | 3 | 21 | 91 | 0.001 | <0.005 |
| Q167187 | | 1.42 | 101.03 | <0.5 | 7 | <0.5 | 27 | 32 | 10 | <1 | 27 | 11 | 15 | 79 | 0.001 | <0.005 |
| Q167188 | | 3.50 | 99.14 | <0.5 | 5 | <0.5 | 63 | 425 | 50 | <1 | 71 | <2 | 23 | 114 | 0.002 | <0.005 |
| Q167189 | | 3.46 | 100.66 | <0.5 | 7 | <0.5 | 56 | 423 | 40 | <1 | 69 | 2 | 23 | 114 | 0.003 | <0.005 |
| Q167190 | | 3.12 | 99.13 | <0.5 | <5 | <0.5 | 60 | 500 | 30 | <1 | 85 | <2 | 23 | 124 | 0.003 | <0.005 |
| Q167191 | | 3.00 | 98.50 | <0.5 | <5 | <0.5 | 56 | 493 | 20 | <1 | 90 | 4 | 22 | 119 | 0.003 | <0.005 |
| Q167192 | | 3.24 | 101.73 | <0.5 | 7 | <0.5 | 64 | 482 | 30 | <1 | 100 | 4 | 23 | 125 | 0.004 | <0.005 |
| Q167193 | | 2.82 | 98.98 | <0.5 | 6 | <0.5 | 60 | 408 | 30 | <1 | 99 | 7 | 23 | 124 | 0.004 | <0.005 |
| Q167194 | | 2.66 | 99.72 | <0.5 | 5 | <0.5 | 53 | 327 | 20 | <1 | 82 | 9 | 23 | 114 | 0.003 | <0.005 |
| Q167195 | | 2.72 | 99.12 | <0.5 | <5 | <0.5 | 46 | 266 | 20 | <1 | 60 | 13 | 22 | 101 | 0.004 | <0.005 |
| Q167196 | | 2.69 | 98.35 | <0.5 | 6 | <0.5 | 42 | 250 | 20 | <1 | 57 | 10 | 22 | 101 | 0.003 | <0.005 |
| Q167197 | | 2.58 | 98.91 | <0.5 | 7 | <0.5 | 44 | 228 | 20 | <1 | 58 | 12 | 22 | 101 | 0.003 | <0.005 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| Q167158 | | <0.001 | 0.08 |
| Q167159 | | <0.001 | 0.08 |
| Q167160 | | <0.001 | 0.07 |
| Q167161 | | <0.001 | 0.05 |
| Q167162 | | <0.001 | 0.09 |
| Q167163 | | <0.001 | 0.09 |
| Q167164 | | <0.001 | 0.09 |
| Q167165 | | <0.001 | 0.07 |
| Q167166 | | <0.001 | 0.08 |
| Q167167 | | 0.071 | 1.43 |
| Q167168 | | <0.001 | 0.07 |
| Q167169 | | <0.001 | 0.17 |
| Q167170 | | <0.001 | 0.10 |
| Q167171 | | <0.001 | 0.08 |
| Q167172 | | <0.001 | 0.13 |
| Q167173 | | <0.001 | 0.10 |
| Q167174 | | <0.001 | 0.11 |
| Q167175 | | <0.001 | 0.13 |
| Q167176 | | 0.001 | 0.08 |
| Q167177 | | <0.001 | 0.06 |
| Q167178 | | <0.001 | 0.08 |
| Q167179 | | <0.001 | 0.11 |
| Q167180 | | <0.001 | 0.16 |
| Q167181 | | <0.001 | 0.10 |
| Q167182 | | <0.001 | 0.13 |
| Q167183 | | <0.001 | 0.08 |
| Q167184 | | <0.001 | 0.08 |
| Q167185 | | <0.001 | 0.11 |
| Q167186 | | <0.001 | 0.16 |
| Q167187 | | <0.001 | 0.05 |
| Q167188 | | <0.001 | 0.27 |
| Q167189 | | <0.001 | 0.14 |
| Q167190 | | <0.001 | 0.13 |
| Q167191 | | <0.001 | 0.12 |
| Q167192 | | <0.001 | 0.19 |
| Q167193 | | <0.001 | 0.13 |
| Q167194 | | <0.001 | 0.13 |
| Q167195 | | <0.001 | 0.16 |
| Q167196 | | <0.001 | 0.12 |
| Q167197 | | 0.001 | 0.09 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
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SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167198 | | 3.48 | 304 | 60.4 | 30 | 0.27 | 3.80 | 1.71 | 2.05 | 18.7 | 5.77 | 5.2 | 0.68 | 25.4 | 0.18 | 18.9 |
| Q167199 | | 3.33 | 254 | 69.2 | 30 | 0.22 | 4.24 | 1.98 | 2.24 | 18.9 | 6.04 | 5.7 | 0.76 | 29.5 | 0.21 | 20.9 |
| Q167200 | | 3.65 | 221 | 61.3 | 30 | 0.23 | 3.96 | 1.77 | 2.09 | 19.3 | 5.88 | 4.7 | 0.71 | 25.6 | 0.15 | 18.9 |
| Q167201 | | 3.47 | 400 | 66.3 | 30 | 0.34 | 4.10 | 1.93 | 2.23 | 19.1 | 6.04 | 5.1 | 0.70 | 27.9 | 0.19 | 21.7 |
| Q167202 | | 3.39 | 327 | 67.1 | 40 | 0.24 | 4.08 | 1.91 | 2.20 | 19.2 | 6.44 | 5.6 | 0.75 | 27.8 | 0.21 | 20.3 |
| Q167203 | | 3.46 | 257 | 66.5 | 40 | 0.23 | 4.12 | 1.75 | 2.11 | 18.4 | 6.03 | 5.8 | 0.75 | 28.3 | 0.20 | 20.4 |
| Q167204 | | 3.43 | 165.0 | 65.1 | 40 | 0.18 | 4.08 | 1.85 | 2.18 | 19.0 | 5.91 | 5.3 | 0.73 | 27.3 | 0.19 | 20.2 |
| Q167205 | | 3.67 | 78.4 | 61.5 | 40 | 0.15 | 4.06 | 1.78 | 2.17 | 18.2 | 5.88 | 5.0 | 0.69 | 25.5 | 0.18 | 19.1 |
| Q167206 | | 3.46 | 75.8 | 61.2 | 40 | 0.41 | 3.82 | 1.79 | 2.17 | 18.0 | 5.99 | 4.9 | 0.68 | 25.5 | 0.18 | 20.0 |
| Q167207 | | 0.10 | 248 | 24.4 | 140 | 0.23 | 3.39 | 1.95 | 1.38 | 16.7 | 3.62 | 2.2 | 0.63 | 11.0 | 0.23 | 2.9 |
| Q167208 | | 3.49 | 62.7 | 58.1 | 40 | 0.10 | 3.57 | 1.75 | 2.04 | 18.5 | 5.57 | 4.5 | 0.63 | 24.1 | 0.19 | 18.3 |
| Q167209 | | 2.79 | 178.0 | 59.8 | 40 | 0.21 | 3.89 | 1.66 | 2.16 | 18.2 | 5.63 | 4.6 | 0.68 | 24.9 | 0.15 | 18.5 |
| Q167210 | | 3.44 | 178.5 | 60.6 | 40 | 0.25 | 3.74 | 1.70 | 2.20 | 18.8 | 5.86 | 5.0 | 0.68 | 25.0 | 0.18 | 19.4 |
| Q167211 | | 3.16 | 326 | 62.5 | 40 | 0.40 | 4.13 | 1.84 | 2.14 | 19.2 | 5.84 | 5.3 | 0.72 | 25.8 | 0.20 | 19.8 |
| Q167212 | | 4.01 | 387 | 76.1 | 40 | 0.39 | 4.58 | 2.21 | 2.36 | 19.0 | 6.57 | 6.3 | 0.81 | 32.5 | 0.25 | 24.0 |
| Q167213 | | 3.42 | 356 | 61.3 | 40 | 0.42 | 4.12 | 1.75 | 2.15 | 18.9 | 5.60 | 5.3 | 0.69 | 25.7 | 0.19 | 19.5 |
| Q167214 | | 2.89 | 613 | 54.9 | 40 | 0.71 | 3.71 | 1.57 | 2.03 | 18.4 | 5.48 | 4.4 | 0.66 | 23.0 | 0.18 | 18.4 |
| Q167215 | | 4.22 | 853 | 57.8 | 50 | 0.71 | 3.84 | 1.62 | 2.08 | 18.8 | 5.56 | 4.5 | 0.68 | 24.1 | 0.16 | 18.4 |
| Q167216 | | 3.53 | 302 | 49.9 | 740 | 0.76 | 3.69 | 1.69 | 1.82 | 13.6 | 5.30 | 4.1 | 0.71 | 20.2 | 0.18 | 15.3 |
| Q167217 | | 3.83 | 206 | 57.9 | 790 | 1.17 | 3.81 | 1.65 | 1.83 | 14.3 | 5.83 | 5.2 | 0.71 | 24.2 | 0.18 | 16.7 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167198 | | 33.6 | 8.07 | 25.0 | 7.31 | 1 | 651 | 1.1 | 0.74 | 2.22 | <0.5 | 0.23 | 0.67 | 262 | <1 | 16.4 |
| Q167199 | | 37.1 | 9.12 | 19.6 | 8.09 | 1 | 763 | 1.3 | 0.79 | 2.54 | <0.5 | 0.25 | 0.76 | 253 | <1 | 17.9 |
| Q167200 | | 34.9 | 8.21 | 15.5 | 7.83 | 2 | 470 | 1.2 | 0.73 | 1.99 | <0.5 | 0.22 | 0.57 | 267 | <1 | 16.8 |
| Q167201 | | 36.4 | 8.76 | 23.4 | 7.78 | 1 | 516 | 1.3 | 0.75 | 2.33 | <0.5 | 0.22 | 0.66 | 261 | <1 | 17.3 |
| Q167202 | | 37.2 | 8.70 | 17.7 | 8.14 | 2 | 431 | 1.3 | 0.81 | 2.37 | <0.5 | 0.25 | 0.71 | 273 | 1 | 17.8 |
| Q167203 | | 35.7 | 8.94 | 21.4 | 7.79 | 2 | 504 | 1.3 | 0.78 | 2.52 | <0.5 | 0.23 | 0.81 | 253 | <1 | 17.6 |
| Q167204 | | 36.6 | 8.66 | 14.5 | 8.28 | 1 | 446 | 1.2 | 0.78 | 2.15 | <0.5 | 0.24 | 0.65 | 270 | <1 | 17.3 |
| Q167205 | | 34.6 | 8.27 | 9.9 | 7.73 | 1 | 512 | 1.2 | 0.75 | 2.13 | <0.5 | 0.24 | 0.66 | 280 | <1 | 16.8 |
| Q167206 | | 34.7 | 8.13 | 9.0 | 7.94 | 2 | 489 | 1.2 | 0.74 | 2.06 | <0.5 | 0.24 | 0.61 | 288 | <1 | 17.0 |
| Q167207 | | 13.6 | 3.13 | 14.0 | 3.70 | 2 | 351 | 0.2 | 0.57 | 1.60 | <0.5 | 0.26 | 0.33 | 97 | 3 | 16.8 |
| Q167208 | | 33.4 | 7.80 | 7.5 | 7.29 | 1 | 469 | 1.1 | 0.71 | 1.84 | <0.5 | 0.21 | 0.60 | 282 | <1 | 16.0 |
| Q167209 | | 33.7 | 8.02 | 12.5 | 7.36 | 1 | 428 | 1.1 | 0.73 | 1.97 | <0.5 | 0.20 | 0.57 | 287 | <1 | 16.4 |
| Q167210 | | 34.7 | 8.05 | 14.0 | 7.52 | 2 | 433 | 1.2 | 0.70 | 1.90 | <0.5 | 0.22 | 0.64 | 322 | <1 | 16.7 |
| Q167211 | | 34.9 | 8.35 | 25.1 | 7.98 | 1 | 575 | 1.2 | 0.75 | 2.13 | <0.5 | 0.24 | 0.69 | 358 | <1 | 17.1 |
| Q167212 | | 41.4 | 9.91 | 34.0 | 8.26 | 2 | 606 | 1.5 | 0.87 | 2.96 | <0.5 | 0.26 | 0.91 | 337 | 1 | 20.3 |
| Q167213 | | 34.0 | 8.15 | 29.8 | 6.78 | 2 | 598 | 1.2 | 0.75 | 2.17 | <0.5 | 0.21 | 0.66 | 403 | <1 | 17.1 |
| Q167214 | | 31.5 | 7.42 | 39.3 | 6.66 | 1 | 618 | 1.1 | 0.71 | 1.84 | <0.5 | 0.21 | 0.61 | 428 | <1 | 16.0 |
| Q167215 | | 33.0 | 7.88 | 42.9 | 6.79 | 1 | 564 | 1.1 | 0.76 | 1.90 | <0.5 | 0.22 | 0.58 | 368 | <1 | 16.3 |
| Q167216 | | 29.9 | 7.01 | 17.4 | 6.43 | 1 | 349 | 1.0 | 0.72 | 1.60 | <0.5 | 0.22 | 0.53 | 282 | <1 | 16.1 |
| Q167217 | | 32.2 | 7.81 | 20.1 | 7.07 | 1 | 405 | 1.1 | 0.75 | 2.23 | <0.5 | 0.23 | 0.70 | 257 | <1 | 17.3 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167198 | | 1.22 | 194 | 50.0 | 14.50 | 11.45 | 8.50 | 5.68 | 3.99 | 1.03 | <0.01 | 2.10 | 0.20 | 0.22 | 0.08 | 0.04 |
| Q167199 | | 1.51 | 218 | 49.9 | 14.25 | 10.95 | 8.31 | 5.32 | 3.86 | 0.89 | <0.01 | 2.03 | 0.19 | 0.20 | 0.09 | 0.03 |
| Q167200 | | 1.35 | 177 | 48.7 | 14.30 | 11.55 | 8.55 | 5.79 | 3.91 | 0.70 | <0.01 | 2.12 | 0.21 | 0.21 | 0.06 | 0.02 |
| Q167201 | | 1.40 | 197 | 49.1 | 14.40 | 11.50 | 7.68 | 5.87 | 4.00 | 1.00 | <0.01 | 2.28 | 0.24 | 0.21 | 0.06 | 0.05 |
| Q167202 | | 1.43 | 210 | 47.9 | 14.15 | 11.55 | 7.19 | 6.48 | 4.21 | 0.84 | 0.01 | 2.17 | 0.23 | 0.21 | 0.05 | 0.04 |
| Q167203 | | 1.43 | 223 | 50.0 | 14.10 | 11.00 | 8.44 | 5.62 | 4.01 | 0.99 | 0.01 | 2.00 | 0.20 | 0.20 | 0.06 | 0.03 |
| Q167204 | | 1.31 | 197 | 49.3 | 14.15 | 11.30 | 8.94 | 5.55 | 3.89 | 0.74 | 0.01 | 2.13 | 0.20 | 0.21 | 0.05 | 0.02 |
| Q167205 | | 1.41 | 196 | 48.7 | 14.00 | 11.65 | 9.60 | 5.48 | 3.38 | 0.57 | 0.01 | 2.23 | 0.20 | 0.22 | 0.06 | 0.01 |
| Q167206 | | 1.32 | 183 | 49.0 | 13.95 | 12.05 | 8.91 | 5.83 | 3.71 | 0.51 | 0.01 | 2.33 | 0.21 | 0.22 | 0.06 | 0.01 |
| Q167207 | | 1.72 | 84 | 47.4 | 18.90 | 11.05 | 9.54 | 5.57 | 2.64 | 0.57 | 0.02 | 0.54 | 0.14 | 0.17 | 0.04 | 0.03 |
| Q167208 | | 1.18 | 172 | 48.2 | 13.75 | 12.00 | 9.23 | 5.87 | 3.62 | 0.45 | 0.01 | 2.21 | 0.21 | 0.22 | 0.06 | 0.01 |
| Q167209 | | 1.28 | 173 | 47.6 | 13.65 | 13.10 | 8.25 | 6.81 | 3.81 | 0.64 | 0.01 | 2.28 | 0.24 | 0.22 | 0.05 | 0.02 |
| Q167210 | | 1.21 | 175 | 49.1 | 13.85 | 12.65 | 8.74 | 6.12 | 4.10 | 0.67 | 0.01 | 2.38 | 0.23 | 0.21 | 0.05 | 0.02 |
| Q167211 | | 1.34 | 200 | 48.2 | 13.70 | 12.80 | 8.02 | 6.25 | 3.87 | 0.91 | 0.01 | 2.44 | 0.26 | 0.21 | 0.07 | 0.04 |
| Q167212 | | 1.56 | 222 | 49.5 | 13.60 | 11.95 | 6.95 | 5.73 | 4.02 | 1.26 | <0.01 | 2.35 | 0.22 | 0.21 | 0.07 | 0.04 |
| Q167213 | | 1.36 | 181 | 48.8 | 13.35 | 12.75 | 8.37 | 6.08 | 3.72 | 1.15 | 0.01 | 2.49 | 0.22 | 0.20 | 0.07 | 0.04 |
| Q167214 | | 1.15 | 147 | 47.3 | 13.10 | 13.75 | 7.90 | 6.72 | 3.56 | 1.09 | 0.01 | 2.60 | 0.27 | 0.19 | 0.07 | 0.07 |
| Q167215 | | 1.28 | 151 | 48.2 | 13.05 | 13.40 | 8.51 | 6.73 | 3.30 | 1.31 | 0.01 | 2.46 | 0.27 | 0.21 | 0.06 | 0.10 |
| Q167216 | | 1.16 | 131 | 48.6 | 8.43 | 13.20 | 11.25 | 11.05 | 2.29 | 0.51 | 0.10 | 1.81 | 0.26 | 0.18 | 0.04 | 0.04 |
| Q167217 | | 1.26 | 169 | 50.1 | 8.33 | 12.00 | 10.95 | 10.65 | 2.26 | 0.69 | 0.11 | 1.73 | 0.21 | 0.20 | 0.04 | 0.02 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | PGM-ICP23 | PGM-ICP23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Au | Pt |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.005 |
| Q167198 | | 2.79 | 100.58 | <0.5 | 8 | <0.5 | 42 | 244 | 20 | <1 | 57 | 13 | 23 | 100 | 0.003 | <0.005 |
| Q167199 | | 2.69 | 98.71 | <0.5 | <5 | <0.5 | 42 | 214 | 20 | <1 | 54 | 18 | 23 | 91 | 0.005 | <0.005 |
| Q167200 | | 2.81 | 98.93 | <0.5 | 6 | <0.5 | 42 | 236 | 20 | <1 | 54 | 12 | 23 | 89 | 0.005 | <0.005 |
| Q167201 | | 2.79 | 99.18 | <0.5 | 5 | <0.5 | 43 | 236 | 30 | <1 | 48 | 7 | 22 | 93 | 0.004 | <0.005 |
| Q167202 | | 3.07 | 98.10 | <0.5 | <5 | <0.5 | 45 | 254 | 30 | <1 | 57 | 10 | 25 | 101 | 0.004 | <0.005 |
| Q167203 | | 2.29 | 98.95 | <0.5 | 5 | <0.5 | 40 | 211 | 20 | <1 | 49 | 17 | 23 | 81 | 0.005 | <0.005 |
| Q167204 | | 2.72 | 99.21 | <0.5 | 6 | <0.5 | 40 | 210 | 20 | <1 | 55 | 6 | 24 | 82 | 0.004 | <0.005 |
| Q167205 | | 2.94 | 99.05 | <0.5 | 7 | <0.5 | 43 | 240 | 20 | <1 | 54 | 12 | 25 | 85 | 0.005 | <0.005 |
| Q167206 | | 2.93 | 99.73 | <0.5 | 7 | <0.5 | 44 | 250 | 20 | <1 | 55 | 9 | 24 | 87 | 0.005 | <0.005 |
| Q167207 | | 2.02 | 98.63 | 0.6 | 5 | <0.5 | 87 | 2620 | 10 | 2 | 2220 | 14 | 16 | 94 | 0.047 | 0.047 |
| Q167208 | | 2.92 | 98.76 | <0.5 | 8 | <0.5 | 48 | 277 | 20 | <1 | 66 | 12 | 25 | 91 | 0.004 | <0.005 |
| Q167209 | | 2.91 | 99.59 | <0.5 | <5 | <0.5 | 54 | 297 | 30 | <1 | 84 | 18 | 23 | 99 | 0.014 | 0.005 |
| Q167210 | | 3.79 | 101.92 | <0.5 | <5 | <0.5 | 46 | 262 | 20 | <1 | 69 | 21 | 24 | 96 | 0.008 | 0.006 |
| Q167211 | | 2.49 | 99.27 | <0.5 | <5 | <0.5 | 48 | 285 | 30 | <1 | 63 | 20 | 25 | 102 | 0.007 | 0.008 |
| Q167212 | | 2.39 | 98.29 | <0.5 | 7 | <0.5 | 46 | 220 | 20 | <1 | 54 | 22 | 21 | 103 | 0.007 | 0.012 |
| Q167213 | | 2.33 | 99.58 | <0.5 | <5 | <0.5 | 54 | 301 | 10 | <1 | 76 | 34 | 26 | 123 | 0.010 | 0.022 |
| Q167214 | | 2.52 | 99.15 | <0.5 | 5 | <0.5 | 58 | 312 | 20 | <1 | 74 | 22 | 25 | 145 | 0.010 | 0.032 |
| Q167215 | | 2.35 | 99.96 | <0.5 | 7 | <0.5 | 55 | 370 | 20 | <1 | 87 | 38 | 24 | 136 | 0.011 | 0.074 |
| Q167216 | | 2.22 | 99.98 | <0.5 | 5 | <0.5 | 64 | 144 | 30 | <1 | 176 | 22 | 35 | 123 | 0.004 | 0.026 |
| Q167217 | | 1.99 | 99.28 | <0.5 | 7 | <0.5 | 60 | 102 | 30 | <1 | 176 | 11 | 32 | 130 | 0.002 | 0.013 |

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

| Sample Description | Method | PGM-ICP23 | S-IR08 |
|---|---|---|---|
| | Analyte | Pd | S |
| | Units | ppm | % |
| | LOR | 0.001 | 0.01 |
| Q167198 | | <0.001 | 0.08 |
| Q167199 | | <0.001 | 0.08 |
| Q167200 | | <0.001 | 0.11 |
| Q167201 | | <0.001 | 0.10 |
| Q167202 | | 0.001 | 0.10 |
| Q167203 | | <0.001 | 0.10 |
| Q167204 | | <0.001 | 0.11 |
| Q167205 | | <0.001 | 0.06 |
| Q167206 | | <0.001 | 0.05 |
| Q167207 | | 0.070 | 1.44 |
| Q167208 | | <0.001 | 0.05 |
| Q167209 | | 0.001 | 0.09 |
| Q167210 | | 0.001 | 0.09 |
| Q167211 | | <0.001 | 0.13 |
| Q167212 | | <0.001 | 0.20 |
| Q167213 | | 0.001 | 0.20 |
| Q167214 | | 0.003 | 0.28 |
| Q167215 | | 0.031 | 0.31 |
| Q167216 | | 0.041 | 0.12 |
| Q167217 | | 0.007 | 0.05 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221754

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | ME-4ACD81 | ME-ICP06 | ME-MS81 | OA-GRA05 |
| | PGM-ICP23 | S-IR08 | TOT-ICP06 | |

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

# CERTIFICATE TB13221757

Project: 23

P.O. No.:

This report is for 68 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-DEC-2013.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| STEVE FLANK<br>GRANT MOURRE | PETER MCINTYRE<br>HTXMIN/TRAMET WEBTRIEVE | SCOTT MCLEAN |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-QC | Pulverizing QC Test |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP06 | Whole Rock Package - ICP-AES | ICP-AES |
| OA-GRA05 | Loss on Ignition at 1000C | WST-SEQ |
| ME-MS81 | Lithium Borate Fusion ICP-MS | ICP-MS |
| TOT-ICP06 | Total Calculation for ICP06 | ICP-AES |
| ME-4ACD81 | Base Metals by 4-acid dig. | ICP-AES |
| ME-OG62 | Ore Grade Elements - Four Acid | ICP-AES |
| Cu-OG62 | Ore Grade Cu - Four Acid | VARIABLE |
| Ni-OG62 | Ore Grade Ni - Four Acid | VARIABLE |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| S-IR08 | Total Sulphur (Leco) | LECO |

To: HTX MINERALS CORPORATION
ATTN: PETER MCINTYRE
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167113 | | 1.90 | 744 | 57.1 | 190 | 2.05 | 2.58 | 1.40 | 1.20 | 18.5 | 3.06 | 3.5 | 0.50 | 27.2 | 0.20 | 6.4 |
| Q167114 | | 1.61 | 585 | 39.4 | 190 | 3.21 | 2.17 | 1.30 | 0.83 | 18.8 | 2.57 | 3.4 | 0.47 | 18.7 | 0.20 | 6.3 |
| Q167115 | | 1.87 | 499 | 39.9 | 190 | 3.33 | 2.06 | 1.21 | 0.75 | 19.6 | 2.45 | 3.8 | 0.41 | 19.1 | 0.18 | 6.5 |
| Q167116 | | 1.55 | 627 | 48.3 | 190 | 2.77 | 2.51 | 1.53 | 1.00 | 19.5 | 3.08 | 3.7 | 0.50 | 23.1 | 0.23 | 6.8 |
| Q167117 | | 2.90 | 122.0 | 41.1 | 170 | 1.14 | 2.04 | 1.08 | 0.85 | 18.9 | 2.48 | 3.4 | 0.39 | 19.4 | 0.17 | 5.9 |
| Q167218 | | 3.44 | 170.0 | 46.4 | 970 | 1.60 | 3.61 | 1.53 | 1.82 | 12.0 | 5.16 | 3.8 | 0.61 | 18.7 | 0.16 | 14.2 |
| Q167219 | | 3.55 | 182.5 | 49.6 | 1010 | 2.68 | 3.55 | 1.52 | 1.79 | 12.9 | 4.82 | 4.4 | 0.65 | 20.4 | 0.16 | 14.9 |
| Q167220 | | 3.77 | 133.5 | 48.6 | 1120 | 2.36 | 3.37 | 1.56 | 1.64 | 12.4 | 4.82 | 4.3 | 0.60 | 19.9 | 0.15 | 14.1 |
| Q167221 | | 3.44 | 360 | 96.2 | 730 | 2.17 | 4.91 | 2.24 | 2.06 | 15.7 | 6.73 | 10.2 | 0.92 | 41.9 | 0.28 | 22.9 |
| Q167222 | | 3.46 | 159.5 | 48.0 | 1060 | 3.10 | 3.38 | 1.61 | 1.73 | 12.2 | 4.96 | 4.0 | 0.60 | 19.5 | 0.15 | 13.8 |
| Q167223 | | 3.24 | 179.5 | 48.5 | 1130 | 2.14 | 3.45 | 1.47 | 1.76 | 11.8 | 4.94 | 3.9 | 0.59 | 19.7 | 0.16 | 14.2 |
| Q167224 | | 2.99 | 146.5 | 43.5 | 1170 | 1.81 | 3.06 | 1.33 | 1.59 | 11.7 | 4.84 | 3.9 | 0.56 | 17.7 | 0.15 | 12.7 |
| Q167225 | | 4.11 | 224 | 45.4 | 1310 | 3.50 | 3.32 | 1.36 | 1.63 | 11.1 | 4.63 | 3.9 | 0.58 | 18.3 | 0.17 | 13.1 |
| Q167226 | | 3.06 | 140.0 | 43.2 | 1460 | 4.27 | 3.02 | 1.37 | 1.60 | 11.0 | 4.31 | 3.5 | 0.52 | 17.7 | 0.14 | 12.6 |
| Q167227 | | 0.35 | 699 | 66.6 | 130 | 0.55 | 3.49 | 2.08 | 1.32 | 19.5 | 4.17 | 3.9 | 0.68 | 33.4 | 0.31 | 8.1 |
| Q167228 | | 3.29 | 114.0 | 35.4 | 1570 | 3.97 | 2.79 | 1.12 | 1.40 | 9.5 | 3.69 | 2.9 | 0.45 | 14.1 | 0.14 | 10.5 |
| Q167229 | | 1.59 | 86.4 | 28.5 | 1880 | 3.08 | 2.43 | 1.10 | 1.18 | 8.3 | 3.55 | 2.5 | 0.43 | 11.2 | 0.11 | 8.1 |
| Q167230 | | 2.20 | 9.8 | 39.1 | 1780 | 0.36 | 2.82 | 1.13 | 1.63 | 10.3 | 4.32 | 3.4 | 0.52 | 16.5 | 0.14 | 10.9 |
| Q167231 | | 2.79 | 8.2 | 37.9 | 2150 | 0.26 | 2.90 | 1.34 | 1.64 | 9.9 | 4.39 | 3.2 | 0.53 | 15.2 | 0.11 | 9.7 |
| Q167232 | | 2.49 | 16.7 | 29.6 | 2020 | 1.57 | 2.26 | 0.98 | 1.04 | 8.4 | 3.31 | 2.5 | 0.42 | 11.7 | 0.10 | 8.3 |
| Q167233 | | 3.23 | 6.9 | 39.4 | 1690 | 0.51 | 2.66 | 1.25 | 1.58 | 8.4 | 3.73 | 3.0 | 0.52 | 14.6 | 0.14 | 8.7 |
| Q167234 | | 1.71 | 9.8 | 28.4 | 1940 | 1.25 | 2.44 | 0.94 | 1.23 | 7.7 | 3.32 | 2.5 | 0.37 | 11.6 | 0.11 | 7.3 |
| Q167235 | | 2.39 | 68.0 | 31.4 | 1820 | 4.52 | 2.38 | 1.03 | 1.14 | 8.4 | 3.25 | 2.7 | 0.43 | 12.5 | 0.10 | 9.1 |
| Q167236 | | 2.35 | 60.8 | 29.3 | 1920 | 3.35 | 2.32 | 0.97 | 1.07 | 7.6 | 3.30 | 2.5 | 0.38 | 11.6 | 0.11 | 7.9 |
| Q167237 | | 2.71 | 12.1 | 28.2 | 1890 | 0.78 | 2.31 | 1.02 | 1.18 | 8.5 | 3.44 | 2.5 | 0.43 | 11.1 | 0.12 | 7.8 |
| Q167238 | | 2.43 | 22.9 | 30.0 | 1720 | 0.13 | 2.58 | 1.12 | 1.32 | 8.7 | 3.67 | 2.5 | 0.43 | 12.0 | 0.12 | 8.2 |
| Q167239 | | 2.32 | 11.7 | 27.6 | 1530 | 0.26 | 2.48 | 1.10 | 1.16 | 8.0 | 3.55 | 2.4 | 0.43 | 10.7 | 0.10 | 7.1 |
| Q167240 | | 2.33 | 9.1 | 26.7 | 1540 | 0.10 | 2.45 | 1.10 | 1.24 | 7.9 | 3.22 | 2.6 | 0.39 | 10.3 | 0.12 | 6.8 |
| Q167241 | | 2.57 | 9.7 | 26.2 | 1400 | 0.17 | 2.46 | 1.10 | 1.22 | 8.2 | 3.56 | 2.5 | 0.42 | 10.4 | 0.12 | 7.1 |
| Q167242 | | 2.29 | 22.0 | 36.8 | 1300 | 0.25 | 2.94 | 1.33 | 1.52 | 9.6 | 4.24 | 3.1 | 0.51 | 14.8 | 0.14 | 9.5 |
| Q167243 | | 2.33 | 45.6 | 41.0 | 1230 | 0.22 | 3.04 | 1.27 | 1.61 | 10.8 | 4.21 | 3.5 | 0.53 | 16.8 | 0.16 | 13.1 |
| Q167244 | | 3.52 | 73.1 | 47.8 | 1120 | 0.20 | 3.41 | 1.47 | 1.67 | 12.1 | 5.15 | 3.8 | 0.61 | 19.7 | 0.16 | 15.5 |
| Q167245 | | 3.38 | 113.5 | 47.8 | 1060 | 0.19 | 3.30 | 1.56 | 1.73 | 12.8 | 5.02 | 3.8 | 0.60 | 19.5 | 0.18 | 15.3 |
| Q167246 | | 3.47 | 147.5 | 46.1 | 1060 | 0.16 | 3.28 | 1.34 | 1.73 | 12.8 | 4.80 | 3.9 | 0.60 | 19.3 | 0.16 | 14.7 |
| Q167247 | | 0.10 | 247 | 24.1 | 150 | 0.23 | 3.27 | 1.81 | 1.33 | 17.8 | 3.71 | 2.2 | 0.70 | 11.0 | 0.27 | 3.0 |
| Q167248 | | 3.66 | 194.5 | 47.3 | 1020 | 0.22 | 3.39 | 1.45 | 1.65 | 12.7 | 4.78 | 3.7 | 0.61 | 19.4 | 0.16 | 15.0 |
| Q167249 | | 3.59 | 171.0 | 49.9 | 940 | 0.37 | 3.31 | 1.42 | 1.70 | 12.9 | 4.88 | 4.0 | 0.60 | 21.1 | 0.16 | 15.5 |
| Q167250 | | 3.54 | 170.5 | 51.5 | 920 | 0.44 | 3.65 | 1.56 | 1.72 | 13.7 | 5.09 | 4.2 | 0.59 | 21.6 | 0.16 | 16.7 |
| Q167251 | | 3.52 | 116.0 | 51.5 | 910 | 0.28 | 3.51 | 1.57 | 1.83 | 13.5 | 4.89 | 3.8 | 0.62 | 21.2 | 0.17 | 16.8 |
| Q167252 | | 3.77 | 158.0 | 48.5 | 870 | 0.30 | 3.59 | 1.56 | 1.82 | 13.8 | 5.01 | 4.2 | 0.64 | 19.0 | 0.18 | 17.0 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167113 | | 24.8 | 6.62 | 71.4 | 4.13 | 2 | 287 | 0.4 | 0.46 | 7.00 | <0.5 | 0.20 | 2.30 | 115 | 1 | 13.7 |
| Q167114 | | 17.0 | 4.64 | 95.7 | 3.11 | 1 | 104.0 | 0.4 | 0.38 | 5.42 | <0.5 | 0.18 | 1.51 | 135 | 2 | 11.8 |
| Q167115 | | 16.9 | 4.61 | 88.1 | 3.14 | 1 | 77.3 | 0.4 | 0.40 | 5.32 | <0.5 | 0.17 | 1.42 | 123 | 2 | 11.3 |
| Q167116 | | 21.8 | 5.70 | 94.2 | 4.08 | 1 | 160.5 | 0.4 | 0.46 | 5.79 | <0.5 | 0.20 | 2.00 | 125 | 1 | 13.2 |
| Q167117 | | 18.4 | 4.94 | 41.0 | 3.57 | 1 | 120.0 | 0.4 | 0.35 | 5.03 | <0.5 | 0.16 | 1.41 | 115 | 1 | 10.7 |
| Q167218 | | 28.3 | 6.48 | 18.9 | 6.21 | 1 | 340 | 0.9 | 0.67 | 1.45 | <0.5 | 0.19 | 0.45 | 284 | <1 | 15.9 |
| Q167219 | | 27.7 | 6.64 | 20.5 | 5.95 | 1 | 370 | 0.9 | 0.68 | 1.89 | <0.5 | 0.21 | 0.58 | 272 | <1 | 15.3 |
| Q167220 | | 27.3 | 6.38 | 15.2 | 5.80 | 1 | 288 | 0.9 | 0.67 | 1.89 | <0.5 | 0.17 | 0.54 | 262 | <1 | 14.6 |
| Q167221 | | 46.0 | 12.10 | 35.1 | 8.88 | 2 | 312 | 1.6 | 0.92 | 5.04 | <0.5 | 0.31 | 1.64 | 180 | 1 | 22.5 |
| Q167222 | | 28.5 | 6.72 | 17.7 | 6.11 | 1 | 360 | 0.8 | 0.69 | 1.61 | <0.5 | 0.17 | 0.50 | 265 | <1 | 14.7 |
| Q167223 | | 28.2 | 6.62 | 15.6 | 6.08 | 1 | 340 | 0.8 | 0.71 | 1.74 | <0.5 | 0.20 | 0.48 | 266 | <1 | 15.1 |
| Q167224 | | 26.0 | 6.12 | 12.4 | 5.43 | 1 | 188.5 | 0.8 | 0.60 | 1.45 | <0.5 | 0.20 | 0.50 | 239 | <1 | 13.8 |
| Q167225 | | 27.4 | 6.35 | 19.3 | 5.84 | 1 | 305 | 0.8 | 0.61 | 1.43 | <0.5 | 0.18 | 0.45 | 243 | <1 | 14.2 |
| Q167226 | | 25.2 | 6.02 | 16.8 | 5.28 | 1 | 303 | 0.7 | 0.58 | 1.46 | <0.5 | 0.17 | 0.45 | 238 | <1 | 13.3 |
| Q167227 | | 28.4 | 7.59 | 69.1 | 5.13 | 1 | 412 | 0.5 | 0.60 | 7.63 | <0.5 | 0.30 | 1.65 | 130 | <1 | 18.6 |
| Q167228 | | 21.0 | 4.98 | 12.7 | 4.73 | 1 | 283 | 0.7 | 0.53 | 1.14 | 0.9 | 0.16 | 0.34 | 205 | <1 | 11.5 |
| Q167229 | | 18.2 | 4.10 | 10.5 | 4.29 | 1 | 207 | 0.5 | 0.44 | 0.91 | <0.5 | 0.14 | 0.32 | 197 | <1 | 10.7 |
| Q167230 | | 22.8 | 5.43 | 1.6 | 4.95 | 1 | 74.8 | 0.7 | 0.52 | 1.39 | <0.5 | 0.14 | 0.45 | 214 | <1 | 12.3 |
| Q167231 | | 23.3 | 5.41 | 1.0 | 5.01 | 1 | 62.4 | 0.5 | 0.58 | 1.28 | <0.5 | 0.18 | 0.42 | 212 | <1 | 12.6 |
| Q167232 | | 18.2 | 4.14 | 5.1 | 4.02 | 1 | 53.7 | 0.5 | 0.43 | 1.02 | <0.5 | 0.13 | 0.37 | 163 | <1 | 10.0 |
| Q167233 | | 21.2 | 4.97 | 1.1 | 4.80 | 1 | 58.7 | 0.5 | 0.55 | 1.17 | <0.5 | 0.13 | 0.39 | 184 | <1 | 12.1 |
| Q167234 | | 17.9 | 3.97 | 2.8 | 3.99 | 1 | 60.0 | 0.5 | 0.41 | 0.95 | <0.5 | 0.13 | 0.31 | 181 | <1 | 10.1 |
| Q167235 | | 18.8 | 4.34 | 16.6 | 4.13 | 1 | 118.5 | 0.8 | 0.46 | 1.07 | 0.7 | 0.15 | 0.32 | 193 | <1 | 10.3 |
| Q167236 | | 18.0 | 4.06 | 10.7 | 3.85 | 1 | 82.7 | 0.5 | 0.46 | 1.01 | 0.5 | 0.12 | 0.30 | 182 | <1 | 9.8 |
| Q167237 | | 18.0 | 4.06 | 3.2 | 4.12 | 1 | 66.5 | 0.5 | 0.46 | 0.89 | <0.5 | 0.13 | 0.28 | 206 | <1 | 10.3 |
| Q167238 | | 19.1 | 4.28 | 2.1 | 4.34 | 1 | 69.1 | 0.5 | 0.49 | 1.27 | <0.5 | 0.14 | 0.28 | 212 | <1 | 11.2 |
| Q167239 | | 18.1 | 4.06 | 1.5 | 4.26 | 1 | 70.1 | 0.4 | 0.49 | 0.87 | <0.5 | 0.15 | 0.24 | 217 | <1 | 10.7 |
| Q167240 | | 17.8 | 3.84 | 1.0 | 4.10 | 1 | 66.7 | 0.4 | 0.47 | 0.81 | <0.5 | 0.14 | 0.26 | 210 | <1 | 10.5 |
| Q167241 | | 17.4 | 3.80 | 1.3 | 4.27 | 1 | 76.7 | 0.4 | 0.49 | 0.84 | <0.5 | 0.14 | 0.24 | 218 | <1 | 10.6 |
| Q167242 | | 22.7 | 5.19 | 2.2 | 5.32 | 1 | 138.5 | 0.5 | 0.57 | 1.10 | <0.5 | 0.17 | 0.32 | 250 | <1 | 13.4 |
| Q167243 | | 24.7 | 5.69 | 4.1 | 5.65 | 1 | 168.0 | 0.7 | 0.57 | 1.45 | <0.5 | 0.17 | 0.39 | 261 | <1 | 13.5 |
| Q167244 | | 28.1 | 6.46 | 7.4 | 6.20 | 1 | 207 | 0.8 | 0.65 | 1.60 | <0.5 | 0.20 | 0.44 | 263 | <1 | 14.9 |
| Q167245 | | 27.8 | 6.37 | 12.0 | 6.00 | 1 | 299 | 0.8 | 0.68 | 1.53 | <0.5 | 0.19 | 0.41 | 279 | <1 | 15.1 |
| Q167246 | | 26.7 | 6.24 | 10.8 | 5.97 | 1 | 319 | 0.8 | 0.61 | 1.47 | <0.5 | 0.19 | 0.44 | 283 | <1 | 14.5 |
| Q167247 | | 14.2 | 3.15 | 13.9 | 3.71 | 1 | 357 | 0.1 | 0.54 | 1.70 | <0.5 | 0.27 | 0.33 | 102 | 2 | 17.3 |
| Q167248 | | 27.6 | 6.36 | 10.9 | 6.04 | 1 | 324 | 0.8 | 0.63 | 1.63 | <0.5 | 0.19 | 0.50 | 284 | <1 | 14.6 |
| Q167249 | | 27.3 | 6.45 | 13.5 | 5.81 | 1 | 298 | 0.9 | 0.66 | 1.68 | <0.5 | 0.20 | 0.51 | 278 | <1 | 14.6 |
| Q167250 | | 29.3 | 6.92 | 15.1 | 6.37 | 1 | 333 | 1.0 | 0.65 | 1.82 | <0.5 | 0.21 | 0.52 | 280 | <1 | 15.3 |
| Q167251 | | 30.0 | 6.86 | 10.0 | 6.30 | 1 | 316 | 1.0 | 0.68 | 1.66 | <0.5 | 0.21 | 0.47 | 281 | <1 | 15.4 |
| Q167252 | | 29.6 | 6.76 | 8.0 | 6.59 | 1 | 405 | 0.9 | 0.66 | 1.87 | <0.5 | 0.20 | 0.80 | 288 | <1 | 15.8 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167113 | | 1.27 | 121 | 64.2 | 15.10 | 6.28 | 1.02 | 4.01 | 3.78 | 2.13 | 0.03 | 0.58 | 0.08 | 0.16 | 0.03 | 0.09 |
| Q167114 | | 1.25 | 114 | 60.8 | 15.05 | 8.15 | 0.77 | 4.13 | 2.59 | 2.58 | 0.03 | 0.64 | 0.06 | 0.17 | 0.01 | 0.07 |
| Q167115 | | 1.23 | 133 | 62.4 | 14.95 | 8.10 | 0.63 | 4.17 | 2.45 | 2.28 | 0.03 | 0.58 | 0.07 | 0.16 | 0.01 | 0.06 |
| Q167116 | | 1.34 | 124 | 64.8 | 15.40 | 6.06 | 0.74 | 3.52 | 3.08 | 2.67 | 0.03 | 0.61 | 0.06 | 0.17 | 0.02 | 0.07 |
| Q167117 | | 1.14 | 111 | 64.1 | 15.15 | 5.65 | 0.72 | 5.21 | 4.56 | 1.11 | 0.02 | 0.61 | 0.06 | 0.15 | 0.01 | 0.01 |
| Q167218 | | 1.11 | 123 | 48.9 | 7.46 | 12.65 | 11.85 | 12.55 | 1.66 | 0.59 | 0.13 | 1.75 | 0.20 | 0.16 | 0.04 | 0.02 |
| Q167219 | | 1.13 | 148 | 48.5 | 7.39 | 12.60 | 11.55 | 12.55 | 1.66 | 0.59 | 0.14 | 1.70 | 0.19 | 0.15 | 0.04 | 0.02 |
| Q167220 | | 1.11 | 148 | 48.4 | 6.79 | 13.10 | 11.60 | 13.55 | 1.49 | 0.44 | 0.15 | 1.62 | 0.19 | 0.13 | 0.03 | 0.02 |
| Q167221 | | 2.04 | 385 | 54.8 | 9.32 | 10.05 | 8.62 | 9.20 | 2.25 | 1.83 | 0.10 | 1.27 | 0.15 | 0.13 | 0.03 | 0.04 |
| Q167222 | | 1.17 | 131 | 48.4 | 7.27 | 12.95 | 11.40 | 12.95 | 1.57 | 0.50 | 0.15 | 1.64 | 0.19 | 0.16 | 0.04 | 0.02 |
| Q167223 | | 1.18 | 131 | 48.8 | 7.17 | 12.45 | 11.75 | 13.05 | 1.58 | 0.52 | 0.16 | 1.67 | 0.20 | 0.16 | 0.03 | 0.02 |
| Q167224 | | 1.04 | 127 | 47.1 | 6.76 | 13.00 | 11.90 | 13.70 | 1.30 | 0.40 | 0.16 | 1.54 | 0.24 | 0.14 | 0.02 | 0.02 |
| Q167225 | | 1.10 | 130 | 48.5 | 6.69 | 12.90 | 11.30 | 14.75 | 1.28 | 0.55 | 0.18 | 1.58 | 0.19 | 0.15 | 0.03 | 0.03 |
| Q167226 | | 1.05 | 115 | 47.7 | 6.22 | 12.90 | 10.60 | 16.25 | 1.19 | 0.45 | 0.20 | 1.45 | 0.20 | 0.15 | 0.04 | 0.02 |
| Q167227 | | 1.91 | 131 | 58.8 | 15.45 | 7.05 | 5.27 | 4.19 | 3.13 | 2.06 | 0.02 | 0.62 | 0.12 | 0.17 | 0.05 | 0.08 |
| Q167228 | | 0.80 | 94 | 45.6 | 5.76 | 14.10 | 9.16 | 18.40 | 0.94 | 0.37 | 0.21 | 1.33 | 0.20 | 0.13 | 0.03 | 0.01 |
| Q167229 | | 0.77 | 76 | 46.5 | 5.08 | 13.70 | 9.46 | 20.4 | 0.75 | 0.31 | 0.28 | 1.23 | 0.19 | 0.12 | 0.03 | 0.01 |
| Q167230 | | 0.97 | 110 | 49.1 | 6.02 | 10.80 | 15.00 | 13.85 | 1.64 | 0.09 | 0.24 | 1.37 | 0.23 | 0.13 | 0.01 | <0.01 |
| Q167231 | | 0.91 | 100 | 49.4 | 5.53 | 11.15 | 14.75 | 14.95 | 1.26 | 0.06 | 0.30 | 1.24 | 0.22 | 0.12 | 0.01 | <0.01 |
| Q167232 | | 0.73 | 82 | 45.9 | 4.34 | 12.75 | 11.50 | 18.60 | 0.32 | 0.12 | 0.28 | 1.05 | 0.19 | 0.08 | <0.01 | <0.01 |
| Q167233 | | 0.93 | 92 | 47.9 | 4.85 | 11.80 | 15.85 | 16.20 | 0.47 | 0.06 | 0.24 | 1.10 | 0.23 | 0.09 | <0.01 | <0.01 |
| Q167234 | | 0.82 | 78 | 47.6 | 4.40 | 12.00 | 14.70 | 17.20 | 0.47 | 0.08 | 0.27 | 1.04 | 0.21 | 0.08 | <0.01 | <0.01 |
| Q167235 | | 0.79 | 87 | 44.6 | 4.75 | 13.55 | 10.85 | 17.50 | 0.51 | 0.35 | 0.25 | 1.16 | 0.18 | 0.10 | 0.01 | 0.01 |
| Q167236 | | 0.80 | 78 | 45.6 | 4.52 | 12.80 | 11.35 | 17.65 | 0.56 | 0.23 | 0.26 | 1.07 | 0.16 | 0.09 | 0.01 | 0.01 |
| Q167237 | | 0.85 | 74 | 47.1 | 4.71 | 11.80 | 13.70 | 16.40 | 0.75 | 0.11 | 0.26 | 1.19 | 0.18 | 0.09 | <0.01 | <0.01 |
| Q167238 | | 0.79 | 78 | 48.2 | 4.64 | 10.80 | 16.25 | 14.85 | 1.10 | 0.14 | 0.24 | 1.19 | 0.19 | 0.08 | <0.01 | <0.01 |
| Q167239 | | 0.79 | 72 | 47.9 | 4.58 | 11.40 | 14.70 | 16.15 | 0.82 | 0.08 | 0.21 | 1.18 | 0.17 | 0.08 | <0.01 | <0.01 |
| Q167240 | | 0.73 | 80 | 47.8 | 4.34 | 10.90 | 15.45 | 15.55 | 0.82 | 0.05 | 0.20 | 1.11 | 0.17 | 0.08 | <0.01 | <0.01 |
| Q167241 | | 0.78 | 77 | 47.7 | 4.36 | 10.85 | 15.30 | 15.30 | 0.87 | 0.06 | 0.18 | 1.12 | 0.16 | 0.07 | 0.01 | <0.01 |
| Q167242 | | 0.94 | 97 | 47.6 | 5.43 | 12.10 | 13.70 | 14.05 | 1.37 | 0.11 | 0.16 | 1.34 | 0.15 | 0.10 | 0.01 | <0.01 |
| Q167243 | | 0.92 | 109 | 47.4 | 6.22 | 12.65 | 12.35 | 12.95 | 1.77 | 0.23 | 0.15 | 1.47 | 0.16 | 0.13 | 0.02 | 0.01 |
| Q167244 | | 1.16 | 126 | 49.0 | 7.14 | 11.90 | 12.50 | 11.55 | 2.28 | 0.38 | 0.14 | 1.60 | 0.18 | 0.17 | 0.02 | 0.01 |
| Q167245 | | 1.14 | 122 | 49.0 | 7.78 | 12.00 | 12.25 | 10.95 | 2.39 | 0.56 | 0.13 | 1.65 | 0.18 | 0.18 | 0.03 | 0.01 |
| Q167246 | | 1.12 | 124 | 48.7 | 7.71 | 12.05 | 12.30 | 11.00 | 2.39 | 0.53 | 0.13 | 1.66 | 0.18 | 0.16 | 0.04 | 0.02 |
| Q167247 | | 1.60 | 77 | 47.4 | 18.45 | 10.70 | 9.53 | 5.43 | 2.57 | 0.54 | 0.02 | 0.53 | 0.14 | 0.16 | 0.04 | 0.03 |
| Q167248 | | 1.12 | 121 | 48.9 | 7.93 | 12.30 | 12.00 | 11.20 | 2.55 | 0.51 | 0.13 | 1.68 | 0.18 | 0.17 | 0.04 | 0.02 |
| Q167249 | | 1.06 | 131 | 48.5 | 8.02 | 12.50 | 11.45 | 10.85 | 2.57 | 0.61 | 0.12 | 1.68 | 0.19 | 0.16 | 0.03 | 0.02 |
| Q167250 | | 1.24 | 134 | 48.7 | 8.40 | 12.85 | 11.30 | 10.75 | 2.65 | 0.60 | 0.12 | 1.76 | 0.21 | 0.19 | 0.04 | 0.02 |
| Q167251 | | 1.25 | 130 | 48.5 | 8.46 | 12.60 | 11.70 | 10.50 | 2.78 | 0.47 | 0.11 | 1.80 | 0.19 | 0.19 | 0.04 | 0.01 |
| Q167252 | | 1.15 | 139 | 49.7 | 8.68 | 12.20 | 12.15 | 10.60 | 2.91 | 0.44 | 0.11 | 1.86 | 0.18 | 0.19 | 0.05 | 0.02 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | Cu-OG62 | Ni-OG62 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Cu | Ni |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.001 |
| Q167113 | | 3.42 | 100.91 | <0.5 | 5 | <0.5 | 21 | 27 | 50 | <1 | 73 | <2 | 13 | 47 | | |
| Q167114 | | 5.56 | 100.61 | <0.5 | 5 | <0.5 | 26 | 32 | 50 | <1 | 81 | 5 | 14 | 29 | | |
| Q167115 | | 5.63 | 101.52 | <0.5 | <5 | <0.5 | 25 | 19 | 50 | <1 | 77 | 6 | 10 | 30 | | |
| Q167116 | | 4.11 | 101.34 | <0.5 | 9 | <0.5 | 22 | 15 | 40 | <1 | 77 | 2 | 13 | 36 | | |
| Q167117 | | 3.72 | 101.08 | <0.5 | <5 | <0.5 | 19 | 5 | 60 | <1 | 71 | 3 | 13 | 39 | | |
| Q167218 | | 2.19 | 100.15 | <0.5 | <5 | <0.5 | 70 | 108 | 30 | <1 | 228 | 7 | 37 | 89 | | |
| Q167219 | | 2.00 | 99.08 | <0.5 | <5 | <0.5 | 77 | 117 | 30 | <1 | 253 | 5 | 37 | 89 | | |
| Q167220 | | 2.49 | 100.00 | <0.5 | 9 | <0.5 | 82 | 112 | 20 | <1 | 280 | 6 | 37 | 87 | | |
| Q167221 | | 2.24 | 100.03 | <0.5 | <5 | <0.5 | 52 | 78 | 20 | <1 | 175 | <2 | 23 | 74 | | |
| Q167222 | | 2.08 | 99.32 | <0.5 | 5 | <0.5 | 74 | 95 | 20 | <1 | 242 | 8 | 33 | 123 | | |
| Q167223 | | 2.32 | 99.88 | <0.5 | <5 | <0.5 | 71 | 95 | 30 | <1 | 244 | 25 | 33 | 138 | | |
| Q167224 | | 3.55 | 99.83 | <0.5 | 9 | 1.1 | 83 | 101 | 30 | <1 | 305 | 151 | 32 | 255 | | |
| Q167225 | | 2.78 | 100.91 | <0.5 | <5 | <0.5 | 85 | 113 | 30 | <1 | 329 | 58 | 34 | 138 | | |
| Q167226 | | 2.55 | 99.92 | <0.5 | <5 | <0.5 | 90 | 160 | 30 | <1 | 376 | 6 | 32 | 107 | | |
| Q167227 | | 2.04 | 99.05 | <0.5 | 7 | <0.5 | 27 | 31 | 10 | <1 | 29 | 12 | 15 | 115 | | |
| Q167228 | | 3.38 | 99.62 | <0.5 | 6 | <0.5 | 98 | 137 | 30 | <1 | 476 | 2 | 25 | 90 | | |
| Q167229 | | 3.28 | 101.34 | <0.5 | <5 | <0.5 | 97 | 295 | 30 | <1 | 546 | 4 | 28 | 80 | | |
| Q167230 | | 2.66 | 101.14 | 0.5 | <5 | <0.5 | 64 | 1450 | 20 | <1 | 445 | 3 | 33 | 31 | | |
| Q167231 | | 2.26 | 101.25 | <0.5 | <5 | <0.5 | 73 | 1770 | 20 | <1 | 624 | 6 | 36 | 31 | | |
| Q167232 | | 3.75 | 98.88 | 1.0 | 5 | <0.5 | 126 | 2220 | 30 | <1 | 1090 | 25 | 29 | 39 | | |
| Q167233 | | 2.90 | 101.69 | 0.9 | 7 | <0.5 | 96 | 2700 | 20 | <1 | 935 | 76 | 40 | 73 | | |
| Q167234 | | 2.92 | 100.97 | 0.7 | 5 | <0.5 | 84 | 1195 | 20 | <1 | 613 | 8 | 41 | 79 | | |
| Q167235 | | 3.69 | 97.51 | 1.4 | 5 | <0.5 | 127 | 2660 | 40 | <1 | 1115 | 10 | 32 | 84 | | |
| Q167236 | | 3.70 | 98.01 | 1.6 | 5 | <0.5 | 119 | 2360 | 40 | <1 | 1040 | 2 | 36 | 79 | | |
| Q167237 | | 2.89 | 99.18 | 1.0 | 5 | <0.5 | 89 | 1245 | 20 | <1 | 598 | 4 | 40 | 45 | | |
| Q167238 | | 2.57 | 100.25 | <0.5 | 8 | <0.5 | 89 | 397 | 10 | <1 | 340 | 4 | 43 | 45 | | |
| Q167239 | | 2.64 | 99.91 | <0.5 | <5 | <0.5 | 103 | 1080 | 10 | <1 | 487 | 6 | 43 | 43 | | |
| Q167240 | | 2.40 | 98.87 | <0.5 | 7 | <0.5 | 95 | 292 | 10 | <1 | 344 | 5 | 48 | 46 | | |
| Q167241 | | 2.51 | 98.49 | <0.5 | 7 | <0.5 | 91 | 528 | 10 | 1 | 359 | 3 | 47 | 47 | | |
| Q167242 | | 2.75 | 98.87 | <0.5 | 6 | <0.5 | 84 | 99 | 20 | <1 | 248 | <2 | 45 | 53 | | |
| Q167243 | | 2.71 | 98.22 | <0.5 | 7 | <0.5 | 84 | 111 | 20 | <1 | 255 | <2 | 43 | 62 | | |
| Q167244 | | 1.98 | 98.85 | <0.5 | 8 | <0.5 | 64 | 251 | 20 | <1 | 222 | 2 | 41 | 64 | | |
| Q167245 | | 1.96 | 99.07 | <0.5 | 6 | <0.5 | 62 | 134 | 20 | <1 | 196 | 2 | 40 | 70 | | |
| Q167246 | | 1.88 | 98.75 | <0.5 | 10 | <0.5 | 67 | 148 | 10 | <1 | 207 | <2 | 41 | 70 | | |
| Q167247 | | 1.90 | 97.44 | 0.5 | <5 | <0.5 | 94 | 2880 | 10 | 2 | 2490 | 15 | 19 | 100 | | |
| Q167248 | | 1.96 | 99.57 | <0.5 | 5 | <0.5 | 70 | 337 | 20 | <1 | 240 | 4 | 38 | 69 | | |
| Q167249 | | 2.13 | 98.83 | <0.5 | 6 | <0.5 | 70 | 510 | 30 | <1 | 256 | 6 | 36 | 67 | | |
| Q167250 | | 2.20 | 99.79 | <0.5 | <5 | <0.5 | 69 | 175 | 30 | <1 | 215 | 5 | 38 | 76 | | |
| Q167251 | | 2.17 | 99.52 | <0.5 | 5 | <0.5 | 60 | 144 | 30 | <1 | 199 | <2 | 34 | 73 | | |
| Q167252 | | 2.22 | 101.31 | <0.5 | 7 | <0.5 | 60 | 131 | 40 | <1 | 200 | <2 | 35 | 73 | | |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method Analyte Units LOR | PGM-ICP23 Au ppm 0.001 | PGM-ICP23 Pt ppm 0.005 | PGM-ICP23 Pd ppm 0.001 | S-IR08 S % 0.01 |
|---|---|---|---|---|---|
| Q167113 | | 0.002 | <0.005 | 0.002 | 0.92 |
| Q167114 | | 0.004 | <0.005 | 0.002 | 3.67 |
| Q167115 | | 0.004 | <0.005 | 0.002 | 3.58 |
| Q167116 | | 0.002 | <0.005 | 0.002 | 1.73 |
| Q167117 | | 0.001 | <0.005 | 0.001 | 0.34 |
| Q167218 | | 0.003 | 0.017 | 0.011 | 0.16 |
| Q167219 | | 0.003 | 0.015 | 0.008 | 0.10 |
| Q167220 | | 0.003 | 0.020 | 0.006 | 0.40 |
| Q167221 | | 0.002 | 0.012 | 0.003 | 0.18 |
| Q167222 | | 0.002 | 0.018 | 0.009 | 0.16 |
| Q167223 | | 0.002 | 0.018 | 0.006 | 0.06 |
| Q167224 | | 0.003 | 0.023 | 0.007 | 0.05 |
| Q167225 | | 0.003 | 0.019 | 0.007 | 0.12 |
| Q167226 | | 0.005 | 0.068 | 0.060 | 0.20 |
| Q167227 | | 0.001 | <0.005 | <0.001 | 0.08 |
| Q167228 | | 0.005 | 0.051 | 0.028 | 0.25 |
| Q167229 | | 0.011 | 0.092 | 0.080 | 0.22 |
| Q167230 | | 0.074 | 0.786 | 0.639 | 0.26 |
| Q167231 | | 0.069 | 0.836 | 0.660 | 0.22 |
| Q167232 | | 0.166 | 2.47 | 1.155 | 0.53 |
| Q167233 | | 0.163 | 2.54 | 1.345 | 0.30 |
| Q167234 | | 0.048 | 0.534 | 0.322 | 0.29 |
| Q167235 | | 0.087 | 1.110 | 0.811 | 0.97 |
| Q167236 | | 0.071 | 0.768 | 0.389 | 0.82 |
| Q167237 | | 0.032 | 0.386 | 0.260 | 0.46 |
| Q167238 | | 0.009 | 0.076 | 0.061 | 0.34 |
| Q167239 | | 0.026 | 0.281 | 0.211 | 0.78 |
| Q167240 | | 0.005 | 0.061 | 0.041 | 0.47 |
| Q167241 | | 0.007 | 0.101 | 0.072 | 0.41 |
| Q167242 | | 0.003 | 0.029 | 0.019 | 1.20 |
| Q167243 | | 0.002 | 0.025 | 0.017 | 1.03 |
| Q167244 | | 0.006 | 0.015 | 0.009 | 0.15 |
| Q167245 | | 0.004 | 0.020 | 0.012 | 0.11 |
| Q167246 | | 0.003 | 0.018 | 0.009 | 0.12 |
| Q167247 | | 0.051 | 0.049 | 0.072 | 1.44 |
| Q167248 | | 0.005 | 0.039 | 0.028 | 0.35 |
| Q167249 | | 0.007 | 0.039 | 0.032 | 0.30 |
| Q167250 | | 0.004 | 0.021 | 0.015 | 0.12 |
| Q167251 | | 0.003 | 0.020 | 0.011 | 0.15 |
| Q167252 | | 0.002 | 0.019 | 0.012 | 0.15 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | WEI-21 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ba | Ce | Cr | Cs | Dy | Er | Eu | Ga | Gd | Hf | Ho | La | Lu | Nb |
| | Units | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.5 | 0.5 | 10 | 0.01 | 0.05 | 0.03 | 0.03 | 0.1 | 0.05 | 0.2 | 0.01 | 0.5 | 0.01 | 0.2 |
| Q167253 | | 3.59 | 86.7 | 48.5 | 840 | 0.38 | 3.47 | 1.65 | 1.68 | 13.3 | 4.71 | 4.1 | 0.62 | 19.0 | 0.17 | 17.0 |
| Q167254 | | 2.89 | 60.5 | 47.5 | 910 | 0.74 | 3.39 | 1.44 | 1.69 | 13.1 | 5.08 | 4.1 | 0.59 | 18.4 | 0.17 | 16.5 |
| Q167255 | | 1.87 | 46.7 | 18.4 | 2850 | 2.33 | 1.58 | 0.67 | 0.78 | 6.0 | 2.25 | 1.5 | 0.26 | 7.5 | 0.07 | 5.5 |
| Q167256 | | 2.35 | 36.7 | 22.8 | 2300 | 1.61 | 2.04 | 0.86 | 1.07 | 6.7 | 2.85 | 1.8 | 0.36 | 9.2 | 0.09 | 6.6 |
| Q167257 | | 2.27 | 115.5 | 21.8 | 1690 | 2.45 | 1.76 | 0.81 | 0.81 | 8.1 | 2.56 | 1.6 | 0.30 | 9.6 | 0.08 | 3.6 |
| Q167258 | | 1.70 | 84.3 | 42.2 | 1620 | 3.29 | 1.69 | 0.78 | 0.69 | 8.3 | 2.14 | 1.7 | 0.31 | 8.8 | 0.09 | 3.4 |
| Q167259 | | 0.66 | 149.0 | 32.7 | 2080 | 4.88 | 1.73 | 0.88 | 0.75 | 12.8 | 2.33 | 2.1 | 0.34 | 15.1 | 0.12 | 5.2 |
| Q167260 | | 0.72 | 451 | 37.6 | 200 | 2.14 | 1.39 | 0.74 | 0.97 | 16.3 | 1.92 | 2.1 | 0.27 | 18.9 | 0.10 | 3.2 |
| Q167261 | | 0.62 | 377 | 52.7 | 90 | 0.64 | 1.83 | 0.89 | 1.03 | 15.7 | 2.79 | 3.1 | 0.31 | 25.3 | 0.12 | 5.8 |
| Q167262 | | 0.81 | 354 | 47.5 | 170 | 4.04 | 1.79 | 0.94 | 1.13 | 18.5 | 2.55 | 3.1 | 0.34 | 23.5 | 0.14 | 5.1 |
| Q167263 | | 1.50 | 37.7 | 18.1 | 1670 | 1.82 | 1.97 | 0.96 | 0.83 | 6.6 | 2.66 | 1.6 | 0.35 | 7.2 | 0.10 | 4.4 |
| Q167264 | | 1.75 | 22.4 | 12.6 | 2130 | 1.27 | 1.61 | 0.81 | 0.73 | 5.0 | 2.14 | 1.1 | 0.27 | 4.7 | 0.07 | 2.5 |
| Q167265 | | 1.04 | 88.3 | 22.7 | 110 | 2.81 | 1.04 | 0.58 | 0.50 | 12.8 | 1.44 | 1.5 | 0.19 | 11.2 | 0.08 | 2.3 |
| Q167266 | | 2.07 | 325 | 50.4 | 130 | 1.17 | 1.87 | 1.05 | 1.06 | 18.6 | 2.87 | 2.9 | 0.36 | 24.1 | 0.14 | 4.0 |
| Q167267 | | 0.52 | 617 | 62.9 | 140 | 1.30 | 3.33 | 1.84 | 1.26 | 19.1 | 3.90 | 3.6 | 0.65 | 30.6 | 0.25 | 7.4 |
| Q167268 | | 2.10 | 426 | 55.7 | 130 | 1.44 | 2.35 | 1.18 | 1.00 | 17.9 | 3.35 | 3.0 | 0.43 | 26.2 | 0.15 | 4.8 |
| Q167269 | | 2.33 | 499 | 51.8 | 130 | 3.66 | 2.06 | 1.23 | 1.04 | 19.9 | 2.94 | 3.0 | 0.40 | 24.5 | 0.17 | 4.4 |
| Q167270 | | 2.23 | 312 | 56.9 | 130 | 5.39 | 2.66 | 1.42 | 1.12 | 21.1 | 3.35 | 3.3 | 0.52 | 26.7 | 0.22 | 4.8 |
| Q167271 | | 1.92 | 331 | 55.4 | 120 | 2.15 | 2.08 | 1.28 | 1.19 | 19.4 | 2.98 | 3.2 | 0.42 | 27.1 | 0.17 | 4.3 |
| Q167272 | | 2.10 | 224 | 45.3 | 120 | 5.28 | 2.29 | 1.24 | 0.96 | 19.3 | 2.92 | 2.9 | 0.39 | 20.9 | 0.17 | 4.4 |
| Q167273 | | 1.52 | 423 | 46.7 | 80 | 2.88 | 2.25 | 1.25 | 0.84 | 16.0 | 3.12 | 2.4 | 0.42 | 21.5 | 0.17 | 3.5 |
| Q167274 | | 2.11 | 451 | 59.6 | 120 | 1.27 | 2.53 | 1.26 | 1.33 | 20.2 | 3.24 | 3.4 | 0.47 | 28.7 | 0.19 | 4.8 |
| Q167275 | | 2.26 | 439 | 55.0 | 140 | 2.74 | 3.32 | 1.74 | 1.40 | 20.9 | 3.99 | 3.8 | 0.60 | 26.6 | 0.20 | 6.4 |
| Q167276 | | 2.07 | 554 | 66.1 | 130 | 2.55 | 2.91 | 1.48 | 1.25 | 21.1 | 3.89 | 3.7 | 0.52 | 31.1 | 0.20 | 6.8 |
| Q167277 | | 2.13 | 407 | 58.2 | 100 | 0.73 | 2.37 | 1.24 | 1.28 | 18.9 | 3.24 | 2.9 | 0.45 | 28.2 | 0.17 | 6.3 |
| Q167278 | | 2.11 | 1010 | 56.1 | 190 | 0.60 | 2.25 | 1.21 | 1.22 | 19.7 | 3.13 | 3.4 | 0.43 | 27.3 | 0.17 | 4.7 |
| Q167279 | | 1.77 | 503 | 23.2 | 10 | 5.74 | 1.65 | 0.98 | 0.26 | 20.5 | 1.45 | 2.3 | 0.31 | 10.5 | 0.13 | 16.5 |
| Q167280 | | 2.32 | 398 | 61.6 | 170 | 4.33 | 2.61 | 1.27 | 0.83 | 19.0 | 3.25 | 3.3 | 0.50 | 31.7 | 0.19 | 7.3 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 | ME-MS81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nd | Pr | Rb | Sm | Sn | Sr | Ta | Tb | Th | Tl | Tm | U | V | W | Y |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.1 | 0.03 | 0.2 | 0.03 | 1 | 0.1 | 0.1 | 0.01 | 0.05 | 0.5 | 0.01 | 0.05 | 5 | 1 | 0.5 |
| Q167253 | | 28.9 | 6.67 | 7.4 | 6.17 | 1 | 260 | 0.9 | 0.66 | 1.78 | <0.5 | 0.20 | 0.51 | 278 | <1 | 15.4 |
| Q167254 | | 27.6 | 6.48 | 6.2 | 5.88 | 1 | 198.0 | 0.9 | 0.66 | 1.72 | <0.5 | 0.20 | 0.49 | 260 | <1 | 15.0 |
| Q167255 | | 11.3 | 2.55 | 6.1 | 2.66 | 1 | 108.5 | 0.2 | 0.28 | 0.61 | <0.5 | 0.09 | 0.17 | 145 | <1 | 6.8 |
| Q167256 | | 14.7 | 3.24 | 6.1 | 3.47 | 1 | 99.8 | 0.3 | 0.41 | 0.87 | <0.5 | 0.12 | 0.26 | 189 | <1 | 9.1 |
| Q167257 | | 12.3 | 2.91 | 18.5 | 2.88 | 1 | 159.0 | 0.2 | 0.32 | 1.78 | <0.5 | 0.10 | 0.80 | 139 | <1 | 8.0 |
| Q167258 | | 12.2 | 2.88 | 20.4 | 2.79 | 1 | 131.0 | 0.2 | 0.34 | 2.03 | <0.5 | 0.10 | 0.90 | 119 | <1 | 8.4 |
| Q167259 | | 15.0 | 3.92 | 34.2 | 3.02 | 1 | 272 | 0.3 | 0.30 | 2.85 | 0.7 | 0.12 | 0.97 | 104 | <1 | 8.6 |
| Q167260 | | 15.8 | 4.23 | 30.3 | 2.95 | 1 | 623 | 0.1 | 0.27 | 3.10 | 1.7 | 0.11 | 1.18 | 124 | <1 | 6.8 |
| Q167261 | | 23.3 | 6.23 | 36.7 | 4.41 | 1 | 270 | 0.3 | 0.34 | 5.57 | 0.5 | 0.10 | 2.67 | 53 | 1 | 8.9 |
| Q167262 | | 20.6 | 5.57 | 39.2 | 3.68 | 1 | 535 | 0.2 | 0.32 | 4.36 | 0.9 | 0.14 | 1.75 | 131 | 1 | 9.1 |
| Q167263 | | 12.2 | 2.64 | 10.2 | 3.06 | 1 | 94.4 | 0.3 | 0.38 | 1.07 | 0.5 | 0.11 | 0.44 | 170 | <1 | 8.8 |
| Q167264 | | 9.1 | 1.97 | 5.6 | 2.61 | 1 | 74.0 | 0.1 | 0.30 | 0.51 | 0.5 | 0.10 | 0.18 | 149 | <1 | 6.9 |
| Q167265 | | 10.1 | 2.67 | 19.1 | 1.83 | 1 | 173.0 | 0.1 | 0.19 | 1.87 | 4.2 | 0.07 | 0.50 | 147 | <1 | 5.3 |
| Q167266 | | 22.7 | 5.95 | 21.3 | 4.39 | 1 | 432 | 0.1 | 0.38 | 4.17 | 0.6 | 0.15 | 1.08 | 107 | <1 | 10.1 |
| Q167267 | | 26.9 | 6.99 | 68.9 | 5.03 | 1 | 426 | 0.4 | 0.56 | 6.81 | <0.5 | 0.26 | 1.55 | 124 | 1 | 17.8 |
| Q167268 | | 25.6 | 6.70 | 28.1 | 4.59 | 1 | 411 | 0.2 | 0.44 | 4.36 | <0.5 | 0.17 | 1.13 | 104 | 1 | 11.9 |
| Q167269 | | 23.5 | 6.27 | 61.9 | 4.11 | 1 | 410 | 0.2 | 0.40 | 4.47 | 0.8 | 0.18 | 1.23 | 119 | 1 | 11.3 |
| Q167270 | | 25.4 | 6.78 | 54.7 | 4.69 | 1 | 350 | 0.2 | 0.44 | 4.75 | <0.5 | 0.22 | 1.28 | 139 | 1 | 14.4 |
| Q167271 | | 24.3 | 6.46 | 53.4 | 4.45 | 1 | 490 | 0.2 | 0.41 | 4.48 | <0.5 | 0.17 | 1.18 | 113 | 1 | 11.4 |
| Q167272 | | 20.6 | 5.30 | 63.0 | 3.83 | 2 | 314 | 0.2 | 0.38 | 4.27 | <0.5 | 0.19 | 1.27 | 123 | 1 | 11.4 |
| Q167273 | | 21.9 | 5.63 | 46.2 | 4.28 | 2 | 219 | 0.2 | 0.41 | 4.15 | <0.5 | 0.19 | 1.35 | 84 | <1 | 12.3 |
| Q167274 | | 26.5 | 6.98 | 55.7 | 4.50 | 1 | 549 | 0.3 | 0.46 | 4.64 | <0.5 | 0.20 | 1.31 | 120 | 1 | 13.1 |
| Q167275 | | 26.1 | 6.63 | 45.3 | 4.96 | 1 | 456 | 0.4 | 0.58 | 5.39 | <0.5 | 0.24 | 1.51 | 141 | 1 | 16.3 |
| Q167276 | | 30.4 | 7.90 | 54.1 | 5.52 | 1 | 584 | 0.4 | 0.54 | 5.22 | <0.5 | 0.22 | 1.46 | 138 | 1 | 14.9 |
| Q167277 | | 25.9 | 6.80 | 40.6 | 4.44 | 1 | 706 | 0.3 | 0.45 | 4.23 | <0.5 | 0.18 | 1.25 | 98 | 1 | 12.7 |
| Q167278 | | 25.2 | 6.61 | 52.4 | 4.48 | 1 | 515 | 0.3 | 0.43 | 4.79 | <0.5 | 0.17 | 1.50 | 100 | 1 | 11.7 |
| Q167279 | | 8.8 | 2.64 | 237 | 1.98 | 1 | 118.0 | 2.6 | 0.25 | 12.35 | 0.7 | 0.15 | 9.66 | 5 | <1 | 9.6 |
| Q167280 | | 24.6 | 6.83 | 102.5 | 4.47 | 2 | 311 | 0.7 | 0.46 | 7.41 | <0.5 | 0.20 | 3.29 | 91 | 1 | 14.5 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | ME-MS81 | ME-MS81 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 | ME-ICP06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Yb | Zr | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | Na2O | K2O | Cr2O3 | TiO2 | MnO | P2O5 | SrO | BaO |
| | Units | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.03 | 2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Q167253 | | 1.17 | 135 | 48.5 | 8.50 | 12.75 | 11.55 | 10.65 | 2.87 | 0.39 | 0.11 | 1.83 | 0.19 | 0.19 | 0.03 | 0.01 |
| Q167254 | | 1.08 | 131 | 47.6 | 8.05 | 12.50 | 11.35 | 11.35 | 2.52 | 0.30 | 0.11 | 1.72 | 0.20 | 0.19 | 0.02 | 0.01 |
| Q167255 | | 0.50 | 45 | 45.6 | 3.44 | 13.00 | 11.10 | 19.85 | 0.51 | 0.19 | 0.37 | 0.85 | 0.16 | 0.07 | 0.01 | 0.01 |
| Q167256 | | 0.74 | 58 | 48.5 | 3.79 | 11.50 | 14.75 | 17.25 | 0.52 | 0.16 | 0.29 | 0.94 | 0.18 | 0.07 | 0.01 | <0.01 |
| Q167257 | | 0.65 | 43 | 51.1 | 5.51 | 10.25 | 11.55 | 15.35 | 1.40 | 0.54 | 0.22 | 0.60 | 0.16 | 0.05 | 0.02 | 0.01 |
| Q167258 | | 0.67 | 45 | 51.9 | 5.70 | 11.15 | 8.82 | 16.40 | 1.64 | 0.40 | 0.20 | 0.48 | 0.16 | 0.06 | 0.02 | 0.01 |
| Q167259 | | 0.82 | 66 | 50.8 | 9.46 | 14.00 | 2.93 | 14.75 | 2.48 | 0.70 | 0.27 | 0.52 | 0.14 | 0.11 | 0.03 | 0.02 |
| Q167260 | | 0.67 | 62 | 46.1 | 13.10 | 21.5 | 2.59 | 3.63 | 4.50 | 0.85 | 0.03 | 0.40 | 0.08 | 0.08 | 0.07 | 0.05 |
| Q167261 | | 0.75 | 95 | 67.3 | 12.80 | 5.87 | 2.42 | 2.66 | 4.65 | 2.14 | 0.01 | 0.29 | 0.06 | 0.12 | 0.03 | 0.04 |
| Q167262 | | 0.87 | 96 | 50.2 | 13.80 | 18.10 | 2.00 | 4.34 | 4.19 | 1.36 | 0.02 | 0.51 | 0.08 | 0.11 | 0.06 | 0.04 |
| Q167263 | | 0.71 | 41 | 48.0 | 4.18 | 12.70 | 13.75 | 15.55 | 0.89 | 0.20 | 0.22 | 0.77 | 0.19 | 0.06 | 0.01 | <0.01 |
| Q167264 | | 0.46 | 28 | 46.8 | 2.76 | 12.95 | 15.05 | 16.65 | 0.37 | 0.10 | 0.28 | 0.69 | 0.16 | 0.03 | 0.01 | <0.01 |
| Q167265 | | 0.53 | 43 | 25.8 | 6.91 | 44.8 | 2.27 | 3.66 | 1.87 | 0.49 | 0.01 | 0.44 | 0.08 | 0.07 | 0.02 | 0.01 |
| Q167266 | | 0.98 | 99 | 61.5 | 14.10 | 8.72 | 2.18 | 3.50 | 5.16 | 0.79 | 0.02 | 0.54 | 0.09 | 0.14 | 0.05 | 0.04 |
| Q167267 | | 1.75 | 124 | 59.4 | 16.35 | 7.36 | 6.15 | 4.17 | 3.15 | 1.98 | 0.02 | 0.61 | 0.11 | 0.15 | 0.05 | 0.07 |
| Q167268 | | 1.03 | 104 | 62.0 | 14.75 | 7.85 | 2.36 | 5.02 | 3.89 | 1.18 | 0.02 | 0.55 | 0.08 | 0.15 | 0.05 | 0.05 |
| Q167269 | | 1.15 | 101 | 58.6 | 15.50 | 8.25 | 1.56 | 4.86 | 3.25 | 2.38 | 0.02 | 0.58 | 0.07 | 0.14 | 0.04 | 0.06 |
| Q167270 | | 1.40 | 107 | 59.6 | 16.45 | 7.70 | 1.57 | 4.69 | 4.30 | 1.92 | 0.02 | 0.64 | 0.08 | 0.16 | 0.04 | 0.04 |
| Q167271 | | 1.18 | 102 | 61.7 | 16.80 | 6.17 | 2.05 | 3.89 | 4.61 | 1.97 | 0.02 | 0.60 | 0.07 | 0.15 | 0.06 | 0.04 |
| Q167272 | | 1.17 | 97 | 60.7 | 15.65 | 7.74 | 1.34 | 5.27 | 4.48 | 1.63 | 0.02 | 0.58 | 0.08 | 0.15 | 0.04 | 0.03 |
| Q167273 | | 1.07 | 79 | 69.0 | 12.45 | 6.26 | 1.58 | 3.61 | 3.45 | 1.55 | 0.01 | 0.41 | 0.06 | 0.25 | 0.02 | 0.05 |
| Q167274 | | 1.21 | 125 | 62.0 | 16.40 | 7.04 | 1.56 | 3.75 | 4.82 | 2.13 | 0.02 | 0.62 | 0.08 | 0.15 | 0.06 | 0.05 |
| Q167275 | | 1.56 | 138 | 58.1 | 16.10 | 7.41 | 1.92 | 5.35 | 3.97 | 1.45 | 0.02 | 0.76 | 0.08 | 0.17 | 0.05 | 0.05 |
| Q167276 | | 1.33 | 135 | 59.5 | 16.95 | 7.68 | 2.22 | 4.52 | 4.10 | 1.80 | 0.02 | 0.69 | 0.09 | 0.18 | 0.06 | 0.06 |
| Q167277 | | 1.17 | 107 | 63.3 | 15.15 | 6.19 | 2.04 | 3.45 | 4.48 | 1.49 | 0.01 | 0.50 | 0.09 | 0.14 | 0.08 | 0.05 |
| Q167278 | | 1.04 | 123 | 62.3 | 16.45 | 5.75 | 1.43 | 3.64 | 5.09 | 2.13 | 0.03 | 0.56 | 0.07 | 0.15 | 0.06 | 0.12 |
| Q167279 | | 0.86 | 58 | 73.8 | 13.15 | 3.11 | 0.47 | 0.69 | 1.40 | 5.43 | <0.01 | 0.07 | 0.01 | 0.03 | 0.01 | 0.06 |
| Q167280 | | 1.28 | 121 | 65.9 | 15.00 | 5.35 | 1.22 | 3.58 | 3.92 | 2.26 | 0.02 | 0.50 | 0.03 | 0.15 | 0.03 | 0.05 |

***** See Appendix Page for comments regarding this certificate *****

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To: HTX MINERALS CORPORATION
410 FALCONBRIDGE ROAD, UNIT 5
SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method | OA-GRA05 | TOT-ICP06 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | ME-4ACD81 | Cu-OG62 | Ni-OG62 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | LOI | Total | Ag | As | Cd | Co | Cu | Li | Mo | Ni | Pb | Sc | Zn | Cu | Ni |
| | Units | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | LOR | 0.01 | 0.01 | 0.5 | 5 | 0.5 | 1 | 1 | 10 | 1 | 1 | 2 | 1 | 2 | 0.001 | 0.001 |
| Q167253 | | 2.26 | 99.83 | <0.5 | <5 | <0.5 | 66 | 371 | 40 | <1 | 260 | 3 | 33 | 70 | | |
| Q167254 | | 2.60 | 98.52 | <0.5 | <5 | <0.5 | 72 | 711 | 40 | <1 | 354 | 4 | 33 | 69 | | |
| Q167255 | | 4.09 | 99.25 | 0.9 | <5 | <0.5 | 121 | 1320 | 30 | <1 | 738 | 5 | 32 | 109 | | |
| Q167256 | | 2.44 | 100.40 | 1.1 | <5 | 0.5 | 84 | 1415 | 30 | <1 | 549 | 6 | 41 | 179 | | |
| Q167257 | | 2.47 | 99.23 | <0.5 | 5 | <0.5 | 85 | 1100 | 40 | <1 | 546 | 6 | 40 | 65 | | |
| Q167258 | | 3.36 | 100.30 | 0.5 | <5 | 0.5 | 112 | 1160 | 50 | <1 | 719 | 6 | 33 | 165 | | |
| Q167259 | | 4.08 | 100.29 | <0.5 | 5 | <0.5 | 170 | 1010 | 50 | <1 | 1255 | 6 | 15 | 113 | | |
| Q167260 | | 4.75 | 97.73 | 1.8 | <5 | <0.5 | 466 | 5480 | 40 | <1 | 4840 | 46 | 14 | 201 | | |
| Q167261 | | 2.57 | 100.96 | <0.5 | <5 | 2.7 | 64 | 1385 | 30 | <1 | 703 | 110 | 8 | 1140 | | |
| Q167262 | | 4.42 | 99.23 | 1.7 | 5 | <0.5 | 295 | 6250 | 50 | <1 | 3450 | 20 | 14 | 43 | | |
| Q167263 | | 2.37 | 98.89 | 1.5 | <5 | <0.5 | 107 | 2700 | 30 | <1 | 886 | 10 | 44 | 84 | | |
| Q167264 | | 2.32 | 98.17 | 1.8 | 7 | 0.6 | 118 | 3910 | 20 | <1 | 1085 | 3 | 45 | 121 | | |
| Q167265 | | 7.60 | 94.03 | 5.0 | 14 | 10.5 | 806 | >10000 | 30 | <1 | >10000 | 34 | 9 | 5920 | 1.975 | 1.100 |
| Q167266 | | 3.50 | 100.33 | 0.8 | 8 | <0.5 | 73 | 2040 | 30 | <1 | 1070 | 21 | 12 | 142 | | |
| Q167267 | | 1.36 | 100.93 | <0.5 | 7 | <0.5 | 29 | 40 | <10 | <1 | 34 | 13 | 15 | 88 | | |
| Q167268 | | 3.99 | 101.94 | 0.6 | 10 | <0.5 | 51 | 1210 | 70 | <1 | 506 | 4 | 13 | 28 | | |
| Q167269 | | 3.77 | 99.08 | 1.3 | <5 | <0.5 | 53 | 1660 | 80 | <1 | 626 | 23 | 14 | 33 | | |
| Q167270 | | 3.25 | 100.46 | 0.8 | <5 | <0.5 | 29 | 1170 | 70 | <1 | 379 | 25 | 15 | 53 | | |
| Q167271 | | 3.10 | 101.23 | <0.5 | <5 | <0.5 | 18 | 249 | 70 | <1 | 69 | 3 | 14 | 31 | | |
| Q167272 | | 3.37 | 101.08 | 2.2 | <5 | <0.5 | 32 | 6730 | 70 | <1 | 406 | 17 | 15 | 41 | | |
| Q167273 | | 2.76 | 101.46 | 2.9 | <5 | <0.5 | 28 | 9090 | 50 | 1 | 536 | 12 | 11 | 53 | | |
| Q167274 | | 3.04 | 101.72 | <0.5 | <5 | <0.5 | 24 | 356 | 50 | <1 | 79 | 5 | 14 | 33 | | |
| Q167275 | | 3.63 | 99.06 | <0.5 | <5 | <0.5 | 32 | 855 | 70 | <1 | 114 | 8 | 17 | 30 | | |
| Q167276 | | 3.50 | 101.37 | <0.5 | <5 | <0.5 | 25 | 159 | 50 | <1 | 76 | 8 | 16 | 32 | | |
| Q167277 | | 2.57 | 99.54 | <0.5 | <5 | <0.5 | 17 | 21 | 40 | <1 | 47 | 2 | 11 | 32 | | |
| Q167278 | | 2.60 | 100.38 | <0.5 | <5 | <0.5 | 21 | 20 | 40 | <1 | 49 | 3 | 12 | 39 | | |
| Q167279 | | 3.18 | 101.41 | 1.2 | 15 | <0.5 | 17 | 1270 | 20 | 13 | 255 | 53 | 3 | 11 | | |
| Q167280 | | 3.48 | 101.49 | <0.5 | 6 | <0.5 | 17 | 231 | 80 | <1 | 135 | 14 | 11 | 28 | | |

***** See Appendix Page for comments regarding this certificate *****

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SUDBURY ON P3A 4S4


Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

| Sample Description | Method Analyte Units LOR | PGM-ICP23 Au ppm 0.001 | PGM-ICP23 Pt ppm 0.005 | PGM-ICP23 Pd ppm 0.001 | S-IR08 S % 0.01 |
|---|---|---|---|---|---|
| Q167253 | | 0.008 | 0.077 | 0.078 | 0.20 |
| Q167254 | | 0.015 | 0.150 | 0.139 | 0.25 |
| Q167255 | | 0.062 | 0.650 | 0.475 | 0.36 |
| Q167256 | | 0.055 | 0.609 | 0.392 | 0.33 |
| Q167257 | | 0.029 | 0.280 | 0.228 | 0.41 |
| Q167258 | | 0.025 | 0.357 | 0.225 | 0.58 |
| Q167259 | | 0.011 | 0.371 | 0.258 | 1.83 |
| Q167260 | | 0.020 | 0.716 | 0.786 | 7.91 |
| Q167261 | | 0.011 | 0.275 | 0.288 | 1.18 |
| Q167262 | | 0.058 | 1.360 | 1.075 | 5.90 |
| Q167263 | | 0.081 | 1.120 | 0.738 | 1.13 |
| Q167264 | | 0.099 | 1.360 | 0.854 | 1.61 |
| Q167265 | | 0.063 | 3.94 | 3.82 | 18.30 |
| Q167266 | | 0.016 | 0.578 | 0.440 | 1.69 |
| Q167267 | | 0.001 | <0.005 | 0.002 | 0.06 |
| Q167268 | | 0.035 | 0.440 | 0.301 | 1.48 |
| Q167269 | | 0.015 | 0.623 | 0.478 | 1.32 |
| Q167270 | | 0.013 | 0.265 | 0.188 | 0.71 |
| Q167271 | | 0.004 | 0.087 | 0.035 | 0.23 |
| Q167272 | | 0.244 | 2.73 | 1.690 | 1.05 |
| Q167273 | | 0.252 | 2.99 | 1.815 | 1.19 |
| Q167274 | | 0.009 | 0.065 | 0.083 | 0.37 |
| Q167275 | | 0.028 | 0.306 | 0.206 | 0.69 |
| Q167276 | | 0.005 | 0.105 | 0.077 | 0.88 |
| Q167277 | | 0.002 | <0.005 | 0.003 | 0.31 |
| Q167278 | | 0.001 | <0.005 | 0.001 | 0.25 |
| Q167279 | | 0.037 | 0.478 | 0.354 | 1.69 |
| Q167280 | | 0.006 | 0.059 | 0.044 | 1.27 |

***** See Appendix Page for comments regarding this certificate *****

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410 FALCONBRIDGE ROAD, UNIT 5
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Finalized Date: 3-JAN-2014
Account: HTXMIN

Project: 23

# CERTIFICATE OF ANALYSIS TB13221757

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.

| Applies to Method: | | | |
|---|---|---|---|
| CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| PUL-31 | PUL-QC | SPL-21 | WEI-21 |

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | |
|---|---|---|---|
| Cu-OG62 | ME-4ACD81 | ME-ICP06 | ME-MS81 |
| ME-OG62 | Ni-OG62 | OA-GRA05 | PGM-ICP23 |
| S-IR08 | TOT-ICP06 | | |

## Appendix D: Rock Codes

| ROCK TYPES | ALL | Rock |
|---|---|---|
| I | Maf Intr (unsubdiv) | Mafic intrusive rocks (unsubdivided) |
| IA | Alk Intr | Alkalic intrusive rocks |
| IAG | IAG | Alkali granite |
| IAMGB | IAMBG | Monzogabbro |
| IAMZ | IAMZ | Monzonite |
| IAN | IAN | Anorthosite |
| IAQMZ | IAQMZ | Quartz monzonite |
| IBX | IBX | Intrusive/intrusion breccia |
| ICB | ICB | Carbonatite |
| IDB | IDB | Diabase dykes |
| IDB-mat | IDB-mat | Plagiophyric |
| IDI | IDI | Diorite |
| IDU | IDU | Dunite |
| IF | L Arch Fels-Intermed | Late Archaean felsic to intermediate |
| IFGB | IFGB | Ferrogabbro |
| IFP | IFP | Feldspar porphyry |
| IFSP | IFSP | Feldspathic |
| IFST-IAPL | IFST-IAPL | Felsite/Aplite dike or sill |
| IGB | IGB | Gabbro |
| IGD | IGD | Gabbroic dykes |
| IGD-dyke | IGD-dyke | Granodiorite dyke |
| IGNO | IGNO | Gabbronorite |
| IGR | IGR | Granite |
| IGR-dyke | IGR-dyke | Granite dyke |
| IGRD | IGRD | Granodiorite |
| IHBT | IHBT | Hornblendite |
| ILGB | ILGB | Leucogabbro |
| ILGNO | ILGNO | Leucogabbronorite |
| ILMP | ILMP | Lamprophyre |
| ILNO | ILNO | Leuconorite |
| IM | Maf Intr | Mafic intrusive rocks |
| IMD | IMD | Mafic dykes |
| IMDI | IMDI | Monzodiorite |
| IMFGB | IMFGB | Ferromelagabbro |
| IMGB | IMGB | Melagabbro |
| IMGNO | IMGNO | Melagabbronorite |
| IMNO | IMNO | Melanorite |
| IMSP-IU | IMSP-IU | Serpentinite probable intrusive |
| IMZ | IMZ | Monzonite |
| INO | INO | Norite |
| FGN | FGN | Felsic Gneiss |
| IGBO | IGBO | Olivine Gabbro |
| CAS | CAS | Casing |
| IODB | IODB | Olivine diabase dykes |
| IPDT | IPDT | Peridotite |
| IPXT | IPXT | Pyroxenite |
| IQD | IQD | Quartz Diorite |
| IQDB | IQDB | Quartz diabase dykes |
| IQF | Intermed-Fels Hypab | Intermediate to felsic hypabyssal |
| IQFP | IQFP | Quartz-feldspar porphyry |
| IQMZ | IQMZ | Quartz Monzonite |
| IQP | IQP | Quartz porphyry |
| IQSY | IQSY | Quartz Syenite |
| ISY | ISY | Syenite |
| ITJ | ITJ | Trondhjemite (leucotonalite) |
| ITN | ITN | Tonalite |
| IU | Umaf Intr | Ultramafic intrusive rocks |
| MOGN | MOGN | Orthogneiss |
| MOGN-fel | MOGN-fel | Felsic Orthogneiss |
| MOGN-maf | MOGN-maf | Mafic Orthogneiss |
| MPGN | Gneiss (unsubdiv) | Gneiss (unsubdivided) |
| MQZT | MQZT | Mafic metasediment |
| MSCH | MSCH | Schist |
| MSCH-fel | MSCH-fel | Felsic Schist |
| MSCH-maf | MSCH-maf | Mafic Schist |
| MSCH-pel | MSCH-pel | Pelitic schist |
| MSCN | MSCN | Skarn |
| MSMSCH | MSMSCH | Mafic schist |
| MTSCH | MTSCH | Talc schist |

| ROCK TYPES | ALL | Rock |
|---|---|---|
| MUM | MUM | Altered ultramafic rocks (unsubdivided) |
| MUSCH | MUSCH | Ultramafic schist (unsubdivided) |
| SBIF-Carb | SBIF-Carb | Carbonate facies iron formation |
| SBIF-Ox | SBIF-Ox | Magnetite iron formation |
| SBIF-Sul | SBIF-Sul | Sulphide facies iron formation |
| SCH | Chemical Metased | Chemical metasedimentary rocks |
| SCHT | SCHT | Chert |
| SCL | Clastic Metased | Clastic (meta) sedimentary rocks |
| SCLCSIL | SCLCSIL | Calc-silicate |
| SGPH | SGPH | Graphite |
| SCNG | SCNG | Polymictic conglomerate |
| SMST | SMST | Pelite (mudstone/argillite) |
| SSLT | SSLT | Siltstone |
| SSST | SSST | Sandstone |
| VF | Fels Metavolc | Felsic (meta) volcanic rocks |
| VF-fb | VF-fb | Flow banding |
| VF-qssch | VF-qssch | Quartz-sericite schist |
| VF-sph | VF-sph | Spherulitic/perlitic |
| VF-ssch | VF-ssch | Sericite schist |
| VFFBX | VFFBX | Autoclastic/flow breccia |
| VFFSP | VFFSP | Feldspar-phyric |
| VFLTF | VFLTF | Lapilli tuff |
| VFMF | VFMF | Massive flow |
| VFPP | VFPP | Plagioclase-phyric |
| VFQP | VFQP | Quartz-phyric |
| VFTF | VFTF | Tuff |
| VFXLTF | VFXLTF | Crystal tuff |
| VI | Intermed Metavolc | Intermediate metavolcanic rocks |
| VIFSP | VIFSP | Feldspar-phyric flow |
| VILTF | VILTF | Lapilli tuff |
| VIMF | VIMF | Massive flow |
| VIPF | VIPF | Pillowed Flow |
| VITF | VITF | Tuff |
| VIXLTF | VIXLTF | Crystal tuff |
| VM | Maf Metavolc | Mafic metavolcanic rocks |
| VMFBX | VMFBX | Flow/flow top breccia/pillow breccia |
| VMLTF | VMLTF | Lapilli tuff |
| VMMF | VMMF | Massive flow |
| VMPF | VMPF | Pillowed flow |
| VMTF | VMTF | Mafic tuff and metasediment |
| VUM | Umaf Metavolc | Ultramafic metavolcanic rocks |
| VUMFBX | VUMFBX | Flow/flow top breccia |
| VUMMF | VUMMF | Massive flow |
| VUMPF | VUMPF | Pillowed flow |
| VUMSP | VUMSP | Serpentinite probable extrusive |
| VUMSX | VUMSX | Spinifex-textured flow |
| VUMTF | VUMTF | Tuff |
| IGN | IGN | Intermediate Gneiss |
| IHGB | IHGB | Hornblende Gabbro |
| IHMGB | IHMGB | Hornblende Melagabbro |
| IHMTGB | IHMTGB | Hornblende Metagabbro |
| IMTGB | IMTGB | Metagabbro |
| IOGN | IOGN | Olivine Gabbro Norite |
| MAMPH | MAMPH | Massive Amphibolite |
| MGN | MGN | Mafic Gneiss |
| IPXTO | IPXTO | Olivine Pyroxenite |
| IVMNO | IVMNO | Olivine Melanorite |
| NA | NA | Not Applicable |
| MS | MS | Massive Sulphide |
| EOH | EOH | End of Hole |
| KAMA | KAMA | Kama Hill Fm |
| NIP | NIP | Nipigon Sills |
| OB | OB | Overburden |
| ROSS | ROSS | Rossport Fm |
| SIB | SIB | Sibley Gp |
| IMTR | Melatroctolite | Melatroctolite |
| IPC | Picrite | Picrite |
| ITR | Troctolite | Troctolite |