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|------------------------------------|---|
| Titleholder | TNT Mines Limited |
| Operator | TNT Mines Limited |
| Tenement | RL2/2009 |
| Report name | RL2/2009 Great Pyramid. Annual report for period 2 August 2017 to 1 August 2018 |
| Personal authors | R. Fulton and Rob Reid |
| Corporate author | TNT Mines Limited |
| Target commodity | Tin |
| Date of report | 10 November 2018 |
| Datum/Zone | GDA94, Zone 55 |
| 100,000 map sheet | Georges Bay 8515 |
| 25,000 map sheets | Beaumauris 6041, Brilliant 5841 |
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ABSTRACT

TNT Mines recommenced exploration at the Great Pyramid prospect following a successful IPO in late 2017. The company conducted a review of historical data and formulated a drilling plan to test deeper target zones beneath the known mineralisation. Approximately 75% of historical drilling was above 45 metres depth and the current known resource also lies within 45 metres of surface. The company drilled one diamond hole, 18GPD001, to 320.5 metres, the first hole drilled at the prospect since the early 1980s. The hole was designed to pass close to the base of a historical hole, GPY002, which intersected 61 metres at 0.19% tin and ended in high-grade mineralisation. 18GPD001 was drilled through fine to medium grained silicified sandstones for most of its length and encountered two zones of mineralisation. The first zone of 60 metres at 0.28% tin from surface confirmed the tenor and mode of occurrence of the known mineralisation. The second deeper zone of 30 metres at 0.26% confirmed the mineralisation at the base of GPY002 and extended the zone deeper. The lower zone mineralisation appears to correlate with increased pyrite, arsenopyrite and other sulphides in veins and disseminated within coarser sandstones. It is recommended that further drilling be undertaken to better define the deeper zone of mineralisation which is open in all directions.

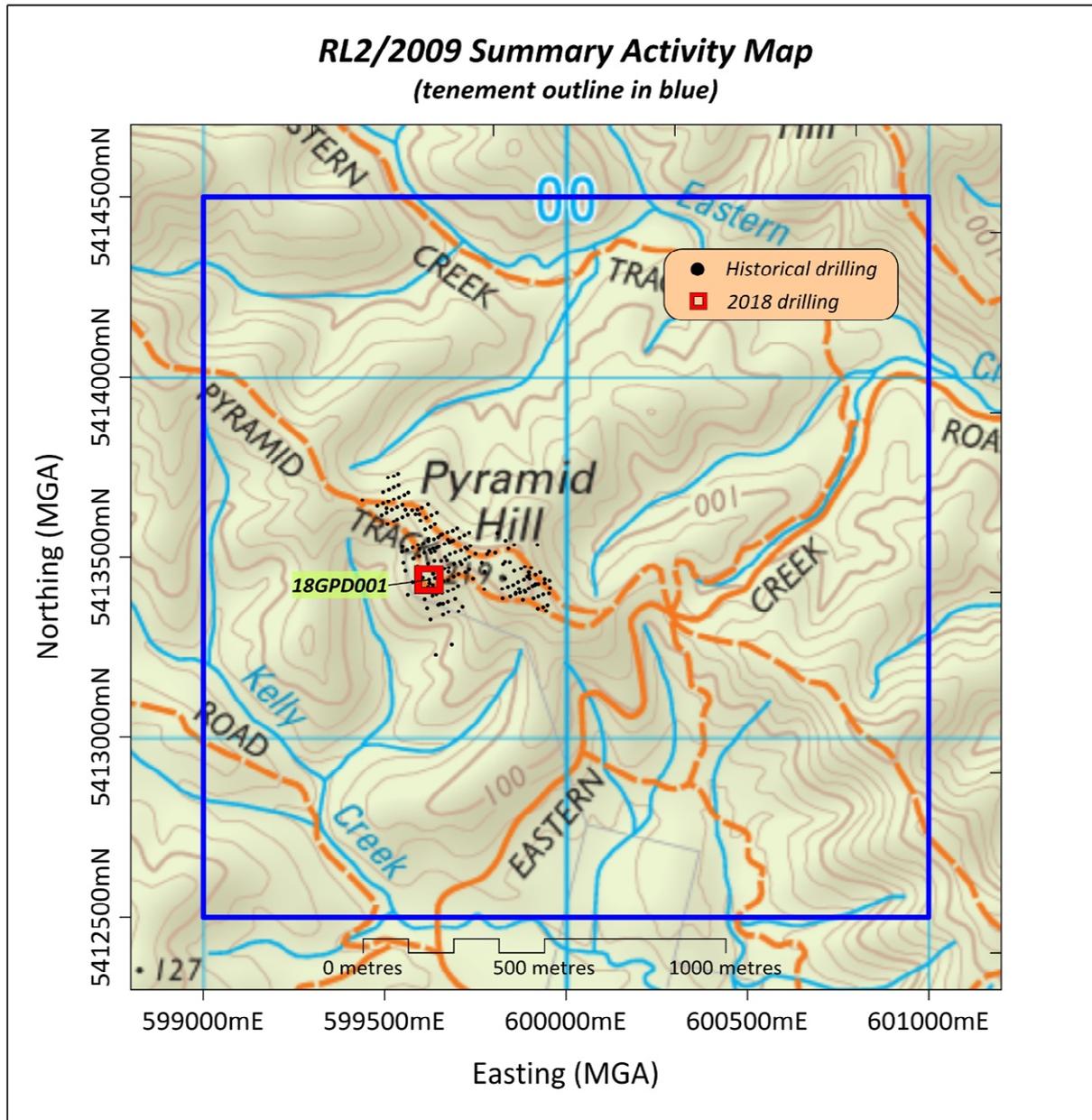
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1. SUMMARY ACTIVITY MAP



2. INTRODUCTION

2.1 Exploration rationale

The Great Pyramid tenement is located in northeast Tasmania, approximately 95 kilometres ESE of Launceston (Figure 1).

The Great Pyramid tin deposit was discovered in 1909 and although numerous adits and shafts were developed in the period 1909-1910 by the Great Pyramid Tin Company, only minor production took place.

A period of minor mining activities took place between 1925-1936, including the production of 336 tonnes of ore at about 0.88% Sn with 3tonnes of tin metal recovered.

A period of relatively intensive exploration took place between 1965 and 1986, the main players being BHP Pty Ltd, Aberfoyle Resources and Billiton Australia. A compilation of all data by Billiton in 1986 resulted in a total (pre-JORC) Indicated resource of 3.1 million tonnes at 0.22% tin using a 0.1% cut-off.

In 1996, another resource assessment was made by the Merrywood Coal Company using 4532 assay values from 177 drill holes. This estimated used mining software (Datamine) for the first time. The in-situ resources calculated were:

| | |
|--------------|-------------------------------|
| 0.1% cut-off | 8,196,071 tonnes at 0.19% tin |
| 0.2% cut-off | 2,466,479 tonnes at 0.31% tin |
| 0.3% cut-off | 904,312 tonnes at 0.43% tin |

In 2014, TNT Mines announced an Inferred Mineral Resource estimate (JORC 2012) as follows:

| | |
|-----------------|-----------------|
| 0.1% Sn cut off | 5.2Mt @ 0.2% Sn |
| 0.2% Sn cut off | 1.3Mt @ 0.3% Sn |

All resource estimates are within 45 metres of the surface and 75% of drilling to date is less than 45 metres deep with a significant number of holes ending in mineralisation. Also, the majority of drilling is vertical which is a less than ideal orientation to test a steeply dipping ore body.

Drilling indicates that the mineralisation is not constrained laterally or vertically with some indications of grade increase at depth. There is therefore significant exploration upside in terms of additional tonnage below 45 metres depth.

2.2 Tenure and ownership

RL2/2009 was created to retain the most prospective four square kilometre area of EL28/2004, which had been granted to Allstrong Investments Pty Ltd on 27 November 2004. Minemakers Limited ("Minemakers") via its wholly owned subsidiary, Minemakers Australia NL, purchased Allstrong outright on 23 November 2006. Allstrong subsequently underwent a name change to Minemakers TTT Pty Ltd. RL2/2009 was granted on 31 July 2009 and the tenement covers an area of 4 km². On the 15th April 2011 Minemakers TTT Pty Ltd changed its name to TNT Mines Limited and on the 19th July 2011 the company demerged from Minemakers Australia Pty Ltd to become an unlisted public company.

On the 18th June 2013, TNT Mines entered into a management agreement with Niuminco Group Limited (an ASX-listed public Australian company) pursuant to which Niuminco was appointed to manage the business of TNT subject to the acquisition of 51% or more shares in TNT. Niuminco acquired sufficient shares and managed the company through to June 2017 when it announced its intention to initiate an IPO and list TNT Mines on the ASX. The IPO was successful, raising \$5.5M, and the company was admitted to the Official List of ASX Limited on 1 November 2017 using the security code: TIN. A new board of directors and management were subsequently installed.

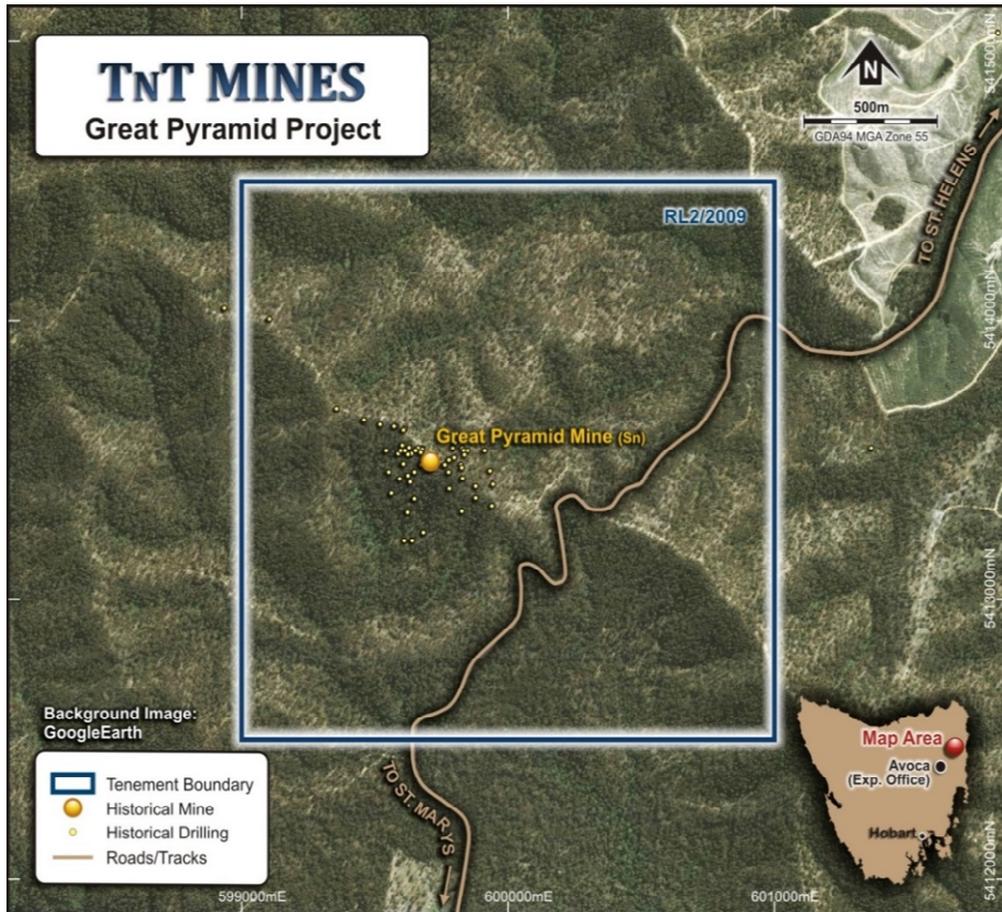


Figure 1: Location plan on Google image.

3. REVIEW OF PREVIOUS WORK

3.1 Prior to the current licence

The Great Pyramid was explored relatively intensely between 1965 and 1986 during which time 182 holes were drilled, the majority percussion. This exploration is adequately summarised in two reports: Hall and Carter (1986) and Morrison and Knight (1996)

3.2 During the life of the licence

2009-2010 (Minemakers TTT Pty Ltd)

No work undertaken.

2010-2011 (TNT Mines Limited)

Work during the year comprised of the creating a digital database using historical and is summarises below.

- Accession or collation of MRT open file reports; 117 files, some text searchable
- All known historic data has been sourced and compiled
- A Micromine database has been constructed
- Data entered includes 184 collars, 217 downhole surveys, 5542 downhole assays (including 235 sludge assays) and 3016 downhole geology records
- All data was entered from hardcopy report logs because no digital data are available
- Using GPS data for the adit openings an historic plan has been georeferenced so that 5m topography contours, costean and adit outlines and drillhole collar locations have been digitised in GDA94z55 coordinates.
- The contours were used to produce a 3D surface which was used to assign adit and drillhole collar RLs and used to drape the costean outlines
- Data has been forwarded to Jon Abbot at Hellman and Schofield for JORC-compliant resource estimation.

2011-2012 (TNT Mines Limited)

A JORC Inferred Resource was estimated by Jon Abbott of Hellman and Schofield. The estimate was based on historical open hole percussion (RAB) and diamond drilling data from the period 1965 to 1983. 158 RAB and 26 diamond holes for a total of 8,898 metres of drilling were compiled into the database.

The Inferred Resource is 5.2Mt @ 0.2% Sn for 10,400t of contained Sn at 0.1% Sn cut-off or 1.3Mt @ 0.3% Sn for 3,900t of contained tin at 0.2% Sn cut-off.

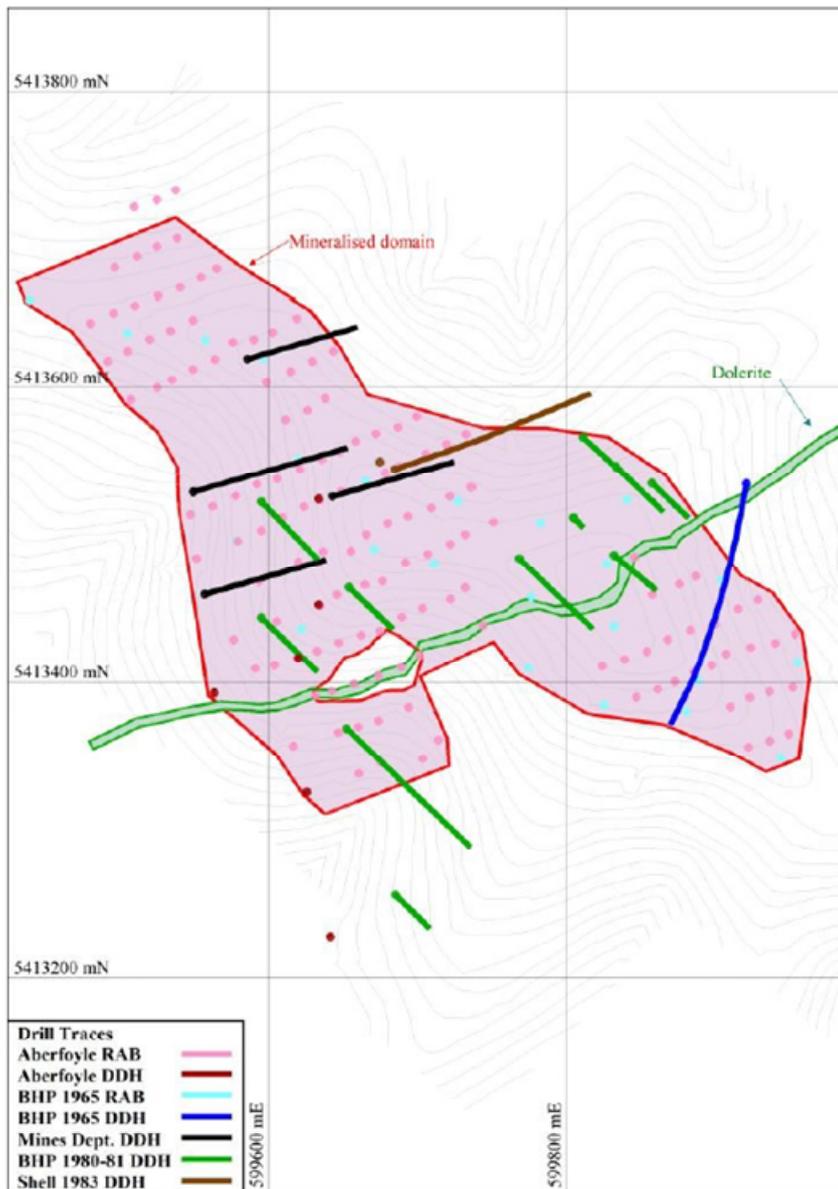


Figure 2: Great Pyramid Plan showing historical drilling and mineralised domain (at surface)

The 2012 JORC compliant resource estimate returned a similar estimate to the 1984 Billiton (Shell) work but lower tonnes at about the same grade compared to the 1996 estimate. The reason for this is that the 2012 estimate used closer spaced drilling only whereas the 1996 pre-JORC estimate also incorporated data from deeper but sparser drill spacing. There is little doubt that further drilling would increase the resource but probably not the grade.

| | Mt | Sn% | Contained Tin (Kt) |
|--|-----|-----|--------------------|
| Shell 1984 polygonal resource | 3.1 | 0.2 | 6.2 |
| Current model at 0.1% cut off | 5.2 | 0.2 | 10.4 |
| Difference | 68% | 0% | 68% |
| Shell 1984 inclusive of potential resource | 5.6 | 0.2 | 11.2 |
| Current | 5.2 | 0.2 | 10.4 |
| Difference | -7% | 0% | -7% |

Table 1: Current estimate versus Billiton (Shell) 1984 estimate

| | 0.1% Cut off | | | 0.2% Cut off | | |
|----------------------------|--------------|-----|----------|--------------|-----|----------|
| | Mt | Sn% | Tin (Kt) | Mt | Sn% | Tin (Kt) |
| 1996 ID ³ model | 8.2 | 0.2 | 16.4 | 2.5 | 0.3 | 7.5 |
| Current estimates | 5.2 | 0.2 | 10.4 | 1.3 | 0.3 | 3.9 |
| Difference | -37% | 0% | -37% | -48% | 0% | -48% |

Table 2: Current estimate versus Merrywood Coal Company estimate

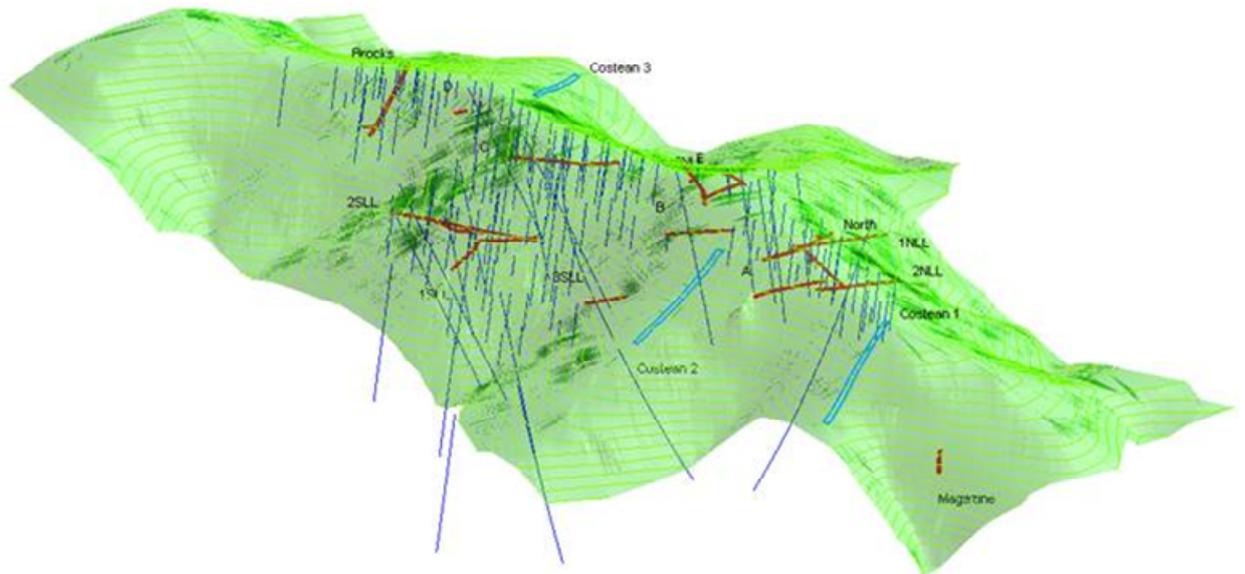


Figure 3: 3D model of Great Pyramid workings and drill holes.

4. EXPLORATION COMPLETED DURING THE REPORTING PERIOD

4.1 Regional exploration activities

No regional exploration activities were carried out during the

4.2 Prospect-based exploration activities

The company conducted a review of historical drilling data and previous interpretations of mineralisation trends. The known mineralisation occurs in ENE-trending, steeply NW-dipping vein swarms and fractures and the Inferred Mineral Resource has been interpreted as relatively flat-lying, although open at depth. Modelling of historical drilling data revealed that most holes terminated within 45 metres of surface and the Inferred Mineral Resource is also within 45 metres of the surface. Many holes terminated in mineralisation, typically due to drilling difficulties. Historic RC drilling at Great Pyramid is mostly vertical on sections aligned $\sim 70^{\circ}$ TN, parallel to the ENE striking mineralised veins. Similarly, MD series drill holes (azimuth 74° / -60° dip) are considered to have inadequately tested mineralisation, having drilled parallel to the main joint set and hence not giving reliable grade estimates. Comparatively, vertically orientated diamond holes (GPY series) and 134° TN/ -60 to -70° dip BPD holes are better orientated, having produced a number of significant intersections.

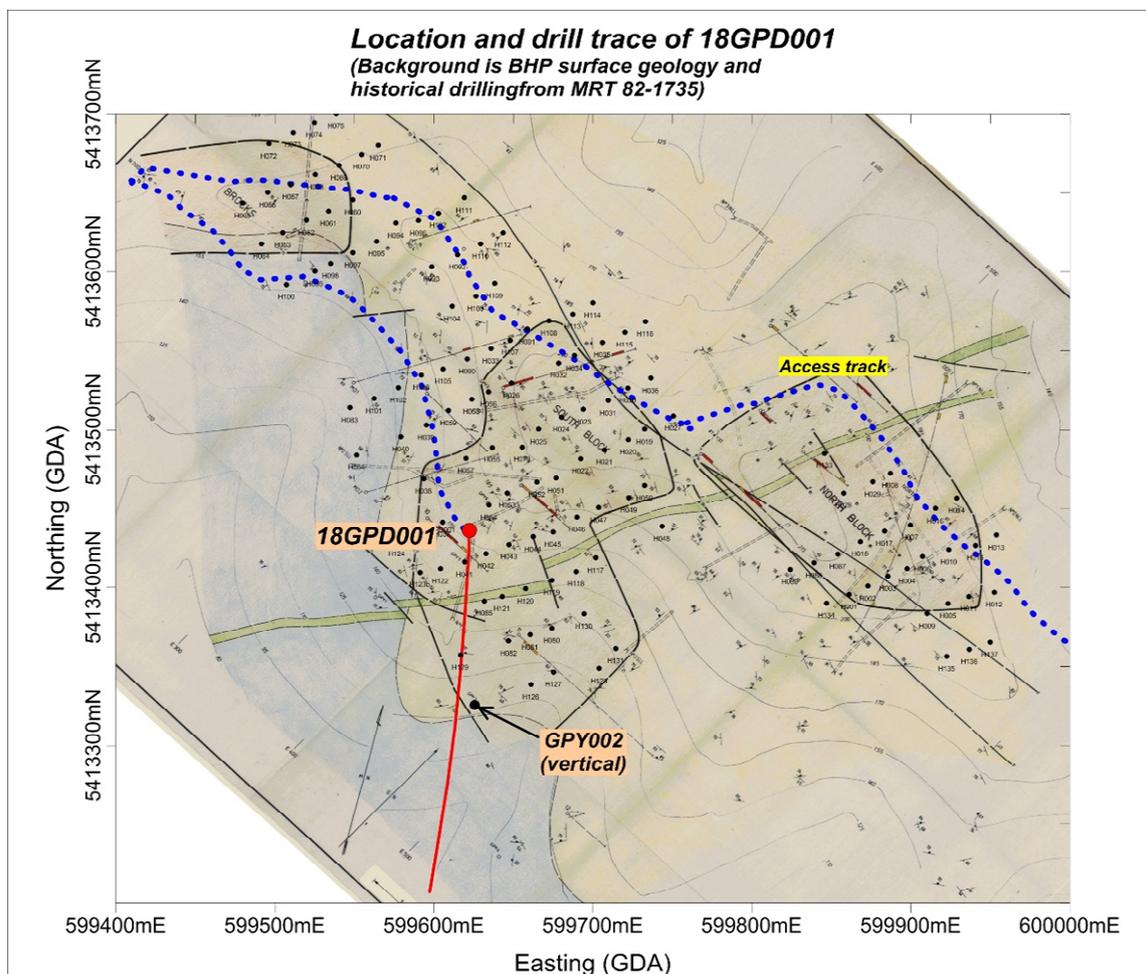


Figure 4: Plan view and drill trace of 18GPD001

Drilling optimised to cross-cut lithology would target azimuth 75 to 90°TN at moderate dip angle, but this is sub parallel to the main vein orientation. Whereas targeting to the S and SE, ~160°TN / -45 to -60°dip, perpendicular to known mineralisation strike will result in drilling sub-parallel to bedding and likely down dip on fold hinges. The latter could be a favourable test of possibly hinge thickened preferentially veined coarser sandstone units.

Diamond hole 18GPD001 was designed to test the continuity of mineralisation at depth in the South Block and to pass near to the base of GPY002, a diamond hole that terminated in high-grade mineralisation at the southern end of the South Block. The hole was collared at -55° towards 180°TN at grid location 599622mE, 5413436mN (Figure 4). Drilling commenced on 23 June 2018 and the hole reached a final depth of 320.5 metres on 08 August 2018. The first 8.70 metres drilled were HQ with the remainder NQ-size. Drilling conditions were difficult with frequent broken core and total water loss encountered. The average run length was 1.30 metres and overall recovery was 92.5%. Drilling was undertaken by Max Harvey from Diamond Drilling Tasmania.

Core was taken to Hobart for logging and sampling. Half-core from the majority of the hole, excluding shale-dominant intervals, was sent to ALS Burnie for preparation and analysis at ALS Brisbane by method ME-MS85 (lithium borate fusion and ICP-MS analysis) for Sn and W. High-grade samples (>10,000 ppm) were reanalysed at ALS Burnie by method ME-XRF15d (XRF analysis of fusion disc).

5. DISCUSSION OF RESULTS

Drill hole 18GPD001 was drilled sub-parallel to the strike of the host Mathinna Group sediments and potentially close to the axis of a S-plunging fold in a sandstone unit. There is a strong correlation between the tenor of mineralisation and coarser sandstone lithologies, typically medium-grained quartz sandstones. Surface mapping and drill hole data suggest that shale-dominant units occur to the west. The drill hole was collared in medium-grained silicified sandstone and either medium or fine grained lithologies were encountered through most of the hole. A known dolerite dyke was intersected between 53.70 and 59.55 metres depth. Fine grained sandstones with increased shale or mudstone was encountered from 96-110 metres depth and from 280 metres onwards. Coarser sandstone units were moderately to strongly silicified with finer grained sandstones less silicified and shales and mudstones unsilicified. Where visible, bedding is at a shallow to very shallow angle to the long core axis.

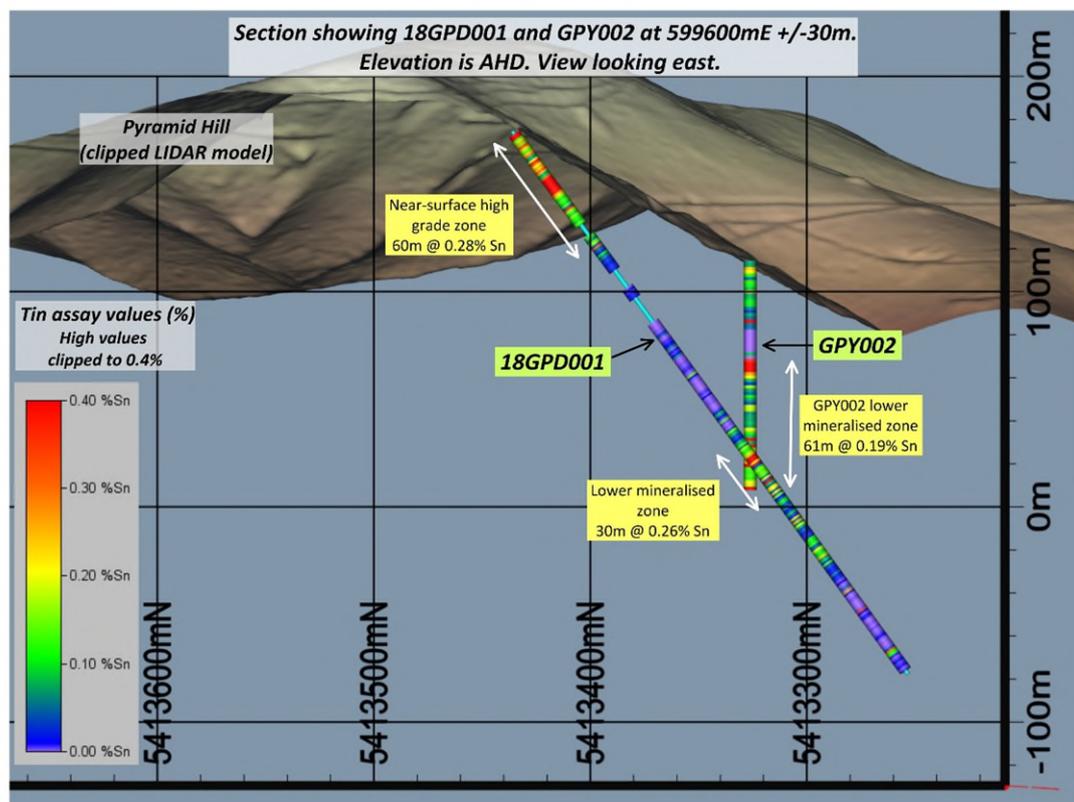


Figure 5: Cross section view of 18GPD001 and GPY002

Two zones of significant mineralisation were intersected (Figure 5). The hole was collared in a zone of known mineralisation and the upper zone mineralisation from surface to ~70 metres depth downhole returned an interval of 59.5 metres at 0.28% Sn between 1.5-67.0 metres depth, including 6.0 metres at 0.67% Sn between 27.0-33.0 metres depth and 2.5 metres at 1.09% tin between 1.5-4.0 metres depth. Tungsten values are low with a maximum value of 190 ppm but most values below 100 ppm.

The upper zone mineralisation is as described by previous explorers with moderate to intense narrow, open space quartz veining, with iron oxide and scorodite after sulphides and occasional visible cassiterite. Where vein orientation could be measured, veins dip steeply to the NW, striking ENE as previously reported.

Mineralised veining is oriented at a high angle to the long core axis (LCA). Very few core orientations were obtained due to the highly broken core.

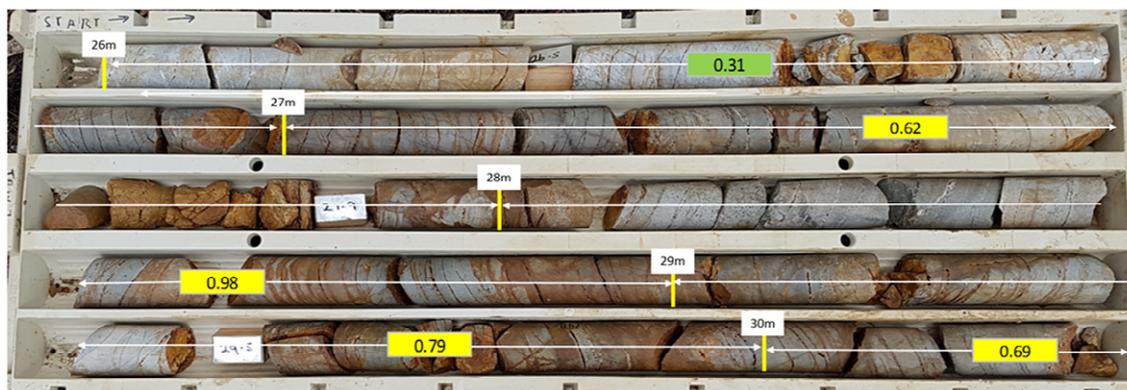


Plate 1: Upper zone mineralisation with Sn values annotated.

The lower zone mineralisation confirmed the existence of high-grade mineralisation intersected in a nearby vertical hole, GPY002. The lower zone of mineralisation returned an interval of 30.0 metres at 0.26% Sn from 180.0-210.0 metres depth, including 3.0 metres at 1.14% Sn. Tungsten values are again low with a maximum of 329 ppm. The lower mineralised zone is also characterised by increased veining, again at a high angle to the long core axis. Mineralised veins are predominantly quartz-pyrite-arsenopyrite with lesser sphalerite, chalcopyrite, galena. Some fluorite and rare molybdenite are also present. Coarse cassiterite is present in some veins. There is also an increase in disseminated sulphide through the lower mineralised zone, typically pyrite and arsenopyrite. Between 190.1 and 190.5 metres there is approximately 10% disseminated pyrite and arsenopyrite.

Quartz-pyrite-pyrrhotite veining sub-parallel to bedding is also present throughout the lower section of the hole.

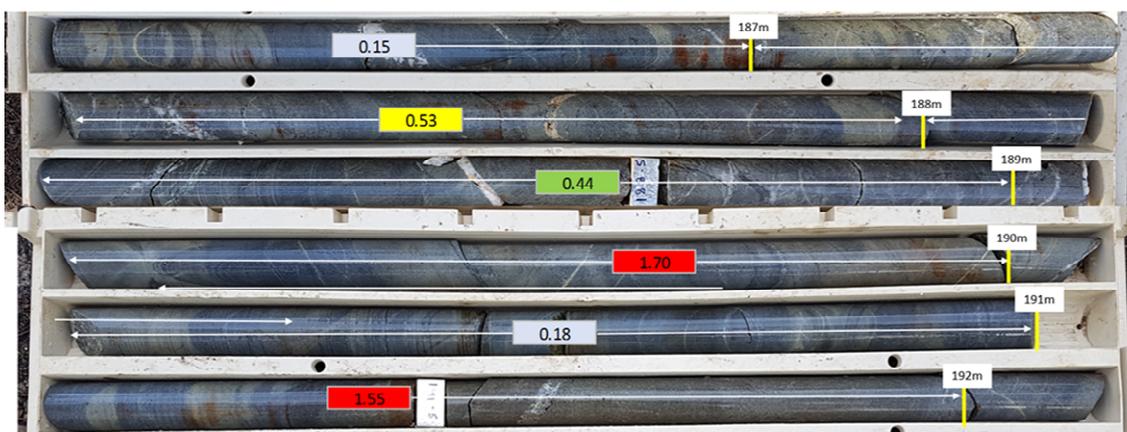


Plate 2: Lower zone mineralisation with Sn values annotated.

Figures 5 and 6 are orthographic views of the entire drilling dataset and are an attempt to depict the relatively well-defined mineralised zones near surface and the paucity of deeper drilling. Numerous holes terminated in mineralisation are also visible.

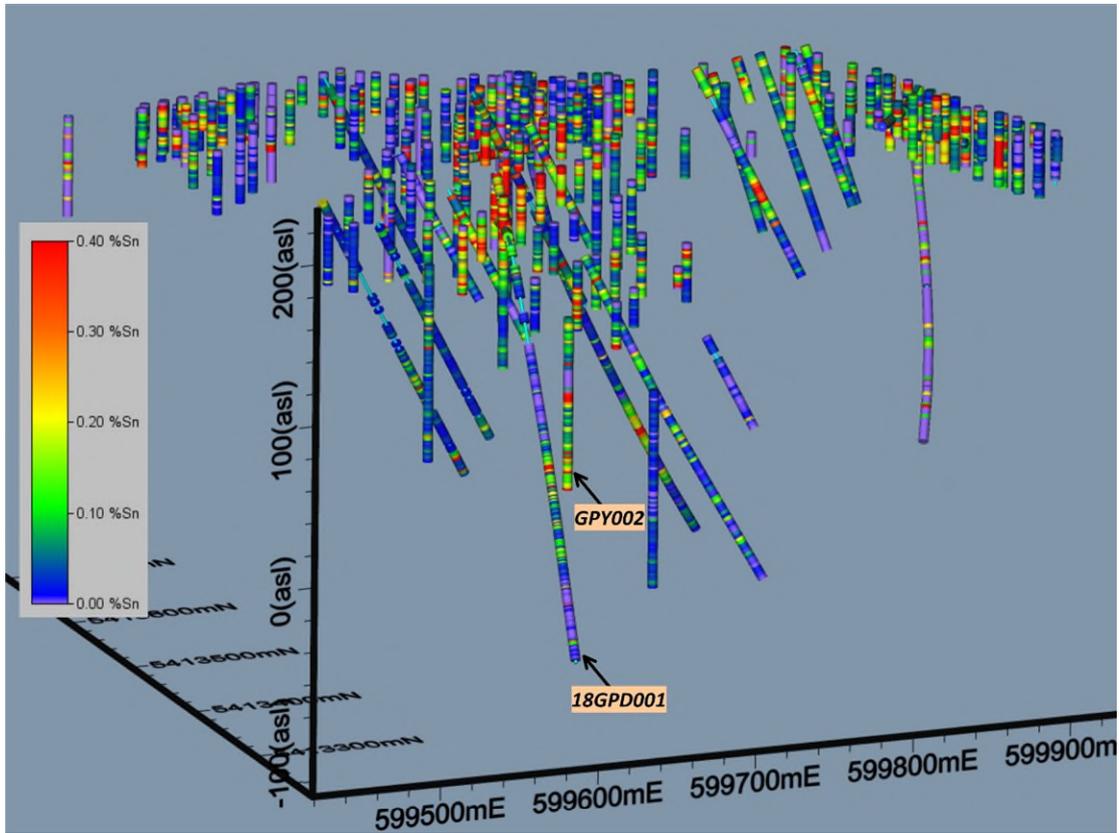


Figure 6: Orthographic projection of all Great Pyramid drilling looking north-east (View generated with Voxler version 4.3.771)

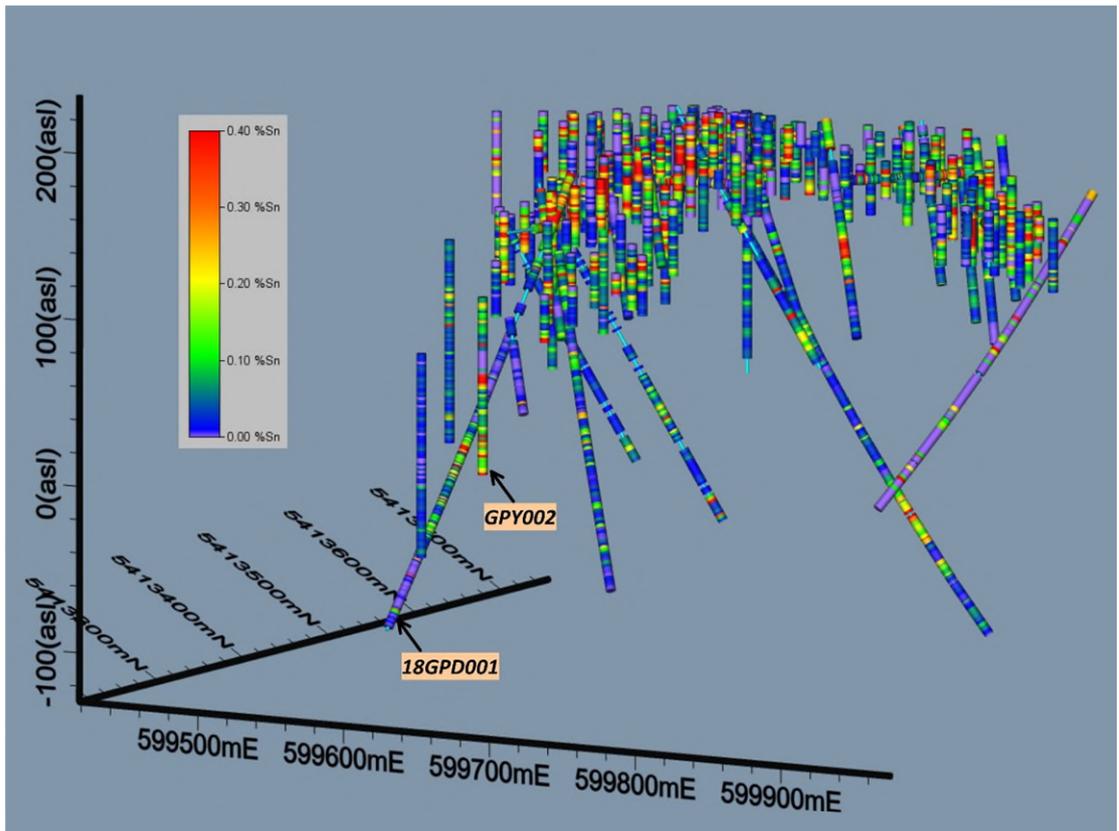


Figure 7: Orthographic projection of all Great Pyramid drilling looking north-west (View generated with Voxler version 4.3.771)

6. CONCLUSIONS

The purpose of exploration in 2018 was to test for the continuity of mineralisation at depth within and to the south of the South Block and to confirm the presence of high-grade mineralisation encountered in GPY002. Drill hole 18GPD001 was successful in extending the known upper mineralisation towards the south and confirmed the presence of high-grade tin mineralisation with increased sulphides at depth in the vicinity of GPY002.

7. FUTURE EXPLORATION

The company proposes to drill another 2 x 300 metre diamond holes to better define the lower mineralised zone and to potentially connect the zone back to near surface. Consideration of the use of geophysical techniques to detect disseminated sulphide at depth will also be undertaken.

Following receipt of assay data for tin and tungsten, further assaying for base metals may be undertaken as well as more detailed logging of mineralised intervals to better understand relationship between structure and mineralisation.

8. ENVIRONMENTAL MANAGEMENT

Two drill pads and one sump from the current drill program will require rehabilitation. One diamond drill hole will require capping as per MRT guidelines. The hole is highly unlikely to make water. The sump will be backfilled and the pads recontoured and revegetated.

Existing tracks were cleared to facilitate access and some minor recontouring will be required at the end of the program to ensure the tracks will to be subject to erosion.

One species listed as Vulnerable (Tasmanian status) is present in the area – *Hibbertia calycina*. A field inspection by Philip Milner was conducted to ensure the exploration work would have a minimal effect in the species.

9. EXPENDITURE

Expenditure for the year was:

| | |
|----------------|-----------------|
| Geology | \$7,368 |
| Drilling | \$34,220 |
| Land access | \$3,360 |
| Other | \$4,296 |
| Administration | \$4,432 |
| TOTAL | \$53,676 |

Note: Drilling, assaying and geology invoices paid after 01 August not included in above.

10. REFERENCES

Fulton, R.L. 2010. RL2/2009 Great Pyramid. Annual report to 1st August 2010. Minemakers Limited.

Fulton, R.L. 2011. RL2/2009 Great Pyramid. Annual report to 1st August 2011. TNT Mines Limited.

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Hall, D.B and Carter, D.N. 1986. Great Pyramid Tin Deposit Northeast Tasmania Resources Estimate. Shell Company of Australia Metals Division. MRT open-file report 86-2532

Morrison, K and Knight J. 1996 EL6/95 – Upper Scamander Year 1 Annual Report. Merrywood Coal Company Pty Ltd. MRT open-file report 96-3893

11. APPENDICES

Appendix 1 Assay intervals

| SampleID | mTo | mFrom | Sample_Type | Sn_ppm | Sn_pct | WO3_pct | W_ppm |
|----------|-------|-------|-------------|--------|--------|----------|-------|
| GP10001 | 1.50 | 2.00 | Half_HQ | 13100 | 1.310 | 0.005166 | 41 |
| GP10002 | 2.00 | 3.00 | Half_HQ | 11600 | 1.160 | 0.004284 | 34 |
| GP10003 | 3.00 | 4.00 | Half_HQ | 9080 | 0.908 | 0.00567 | 45 |
| GP10004 | 4.00 | 5.00 | Half_HQ | 1350 | 0.135 | 0.002142 | 17 |
| GP10005 | 5.00 | 6.00 | Half_HQ | 1670 | 0.167 | 0.002016 | 16 |
| GP10006 | 6.00 | 7.00 | Half_HQ | 2740 | 0.274 | 0.002268 | 18 |
| GP10007 | 7.00 | 8.00 | Half_HQ | 1370 | 0.137 | 0.00189 | 15 |
| GP10008 | 8.00 | 9.00 | Half_HQ_NQ | 3590 | 0.359 | 0.002772 | 22 |
| GP10009 | 9.00 | 10.00 | Half_NQ | 2570 | 0.257 | 0.002646 | 21 |
| GP10010 | 10.00 | 11.00 | Half_NQ | 1670 | 0.167 | 0.002016 | 16 |
| GP10011 | 11.00 | 12.00 | Half_NQ | 1220 | 0.122 | 0.002142 | 17 |
| GP10012 | 12.00 | 13.00 | Half_NQ | 2470 | 0.247 | 0.002772 | 22 |
| GP10013 | 13.00 | 14.00 | Half_NQ | 2940 | 0.294 | 0.002016 | 16 |
| GP10014 | 14.00 | 15.00 | Half_NQ | 708 | 0.071 | 0.00126 | 10 |
| GP10015 | 15.00 | 16.00 | Half_NQ | 641 | 0.064 | 0.001134 | 9 |
| GP10016 | 16.00 | 17.00 | Half_NQ | 2050 | 0.205 | 0.002646 | 21 |
| GP10017 | 17.00 | 18.00 | Half_NQ | 3890 | 0.389 | 0.00504 | 40 |
| GP10018 | 18.00 | 19.00 | Half_NQ | 3090 | 0.309 | 0.004536 | 36 |
| GP10019 | 19.00 | 20.00 | Half_NQ | 2030 | 0.203 | 0.003024 | 24 |
| GP10020 | 20.00 | 21.00 | Half_NQ | 2630 | 0.263 | 0.004158 | 33 |
| GP10021 | 21.00 | 22.00 | Half_NQ | 2520 | 0.252 | 0.005292 | 42 |
| GP10022 | 22.00 | 23.00 | Half_NQ | 3150 | 0.315 | 0.007434 | 59 |
| GP10023 | 23.00 | 24.00 | Half_NQ | 2560 | 0.256 | 0.003024 | 24 |
| GP10024 | 24.00 | 25.00 | Half_NQ | 697 | 0.070 | 0.004536 | 36 |
| GP10025 | 25.00 | 26.00 | Half_NQ | 843 | 0.084 | 0.00378 | 30 |
| GP10026 | 26.00 | 27.00 | Half_NQ | 3130 | 0.313 | 0.004284 | 34 |
| GP10027 | 27.00 | 28.00 | Half_NQ | 6190 | 0.619 | 0.008946 | 71 |
| GP10028 | 28.00 | 29.00 | Half_NQ | 9790 | 0.979 | 0.016758 | 133 |
| GP10029 | 29.00 | 30.00 | Half_NQ | 7860 | 0.786 | 0.007938 | 63 |
| GP10030 | 30.00 | 31.00 | Half_NQ | 6930 | 0.693 | 0.012222 | 97 |
| GP10031 | 31.00 | 32.00 | Half_NQ | 4240 | 0.424 | 0.005922 | 47 |
| GP10032 | 32.00 | 33.00 | Half_NQ | 5060 | 0.506 | 0.009198 | 73 |
| GP10033 | 33.00 | 34.00 | Half_NQ | 3820 | 0.382 | 0.007938 | 63 |
| GP10034 | 34.00 | 35.00 | Half_NQ | 4140 | 0.414 | 0.004536 | 36 |
| GP10035 | 35.00 | 36.00 | Half_NQ | 2740 | 0.274 | 0.003024 | 24 |
| GP10036 | 36.00 | 37.00 | Half_NQ | 2330 | 0.233 | 0.01197 | 95 |
| GP10037 | 37.00 | 38.00 | Half_NQ | 1540 | 0.154 | 0.009072 | 72 |
| GP10038 | 38.00 | 39.00 | Half_NQ | 990 | 0.099 | 0.02394 | 190 |
| GP10039 | 39.00 | 40.00 | Half_NQ | 1270 | 0.127 | 0.006678 | 53 |
| GP10040 | 40.00 | 41.00 | Half_NQ | 1180 | 0.118 | 0.002394 | 19 |
| GP10041 | 41.00 | 42.00 | Half_NQ | 893 | 0.089 | 0.003024 | 24 |
| GP10042 | 42.00 | 43.00 | Half_NQ | 1370 | 0.137 | 0.004914 | 39 |
| GP10043 | 43.00 | 44.00 | Half_NQ | 477 | 0.048 | 0.002394 | 19 |
| GP10044 | 44.00 | 45.00 | Half_NQ | 3650 | 0.365 | 0.00567 | 45 |
| GP10045 | 45.00 | 46.00 | Half_NQ | 1650 | 0.165 | 0.008946 | 71 |
| GP10046 | 46.00 | 47.00 | Half_NQ | 1310 | 0.131 | 0.00756 | 60 |
| GP10047 | 47.00 | 48.00 | Half_NQ | 883 | 0.088 | 0.008064 | 64 |
| GP10048 | 48.00 | 49.00 | Half_NQ | 1590 | 0.159 | 0.004788 | 38 |
| GP10049 | 49.00 | 50.00 | Half_NQ | 1230 | 0.123 | 0.004914 | 39 |

| SampleID | mTo | mFrom | Sample_Type | Sn_ppm | Sn_pct | WO3_pct | W_ppm |
|----------|--------|--------|-------------|--------|--------|----------|-------|
| GP10050 | 50.00 | 51.00 | Half_NQ | 1110 | 0.111 | 0.0063 | 50 |
| GP10051 | 51.00 | 52.00 | Half_NQ | 880 | 0.088 | 0.007938 | 63 |
| GP10052 | 52.00 | 53.00 | Half_NQ | 1340 | 0.134 | 0.00315 | 25 |
| GP10053 | 53.00 | 53.70 | Half_NQ | 1180 | 0.118 | 0.003528 | 28 |
| GP10054 | 60.00 | 61.00 | Half_NQ | 1260 | 0.126 | 0.004032 | 32 |
| GP10055 | 61.00 | 62.00 | Half_NQ | 870 | 0.087 | 0.006048 | 48 |
| GP10056 | 62.00 | 63.00 | Half_NQ | 515 | 0.052 | 0.003528 | 28 |
| GP10057 | 63.00 | 64.00 | Half_NQ | 1420 | 0.142 | 0.007308 | 58 |
| GP10058 | 64.00 | 65.00 | Half_NQ | 1540 | 0.154 | 0.008568 | 68 |
| GP10059 | 65.00 | 66.00 | Half_NQ | 395 | 0.040 | 0.009828 | 78 |
| GP10060 | 66.00 | 67.00 | Half_NQ | 3150 | 0.315 | 0.009324 | 74 |
| GP10061 | 67.00 | 68.00 | Half_NQ | 446 | 0.045 | 0.002646 | 21 |
| GP10062 | 68.00 | 69.00 | Half_NQ | 395 | 0.040 | 0.003402 | 27 |
| GP10063 | 69.00 | 70.00 | Half_NQ | 167 | 0.017 | 0.001386 | 11 |
| GP10064 | 70.00 | 71.00 | Half_NQ | 1060 | 0.106 | 0.003402 | 27 |
| GP10065 | 71.00 | 72.00 | Half_NQ | 538 | 0.054 | 0.0063 | 50 |
| GP10066 | 72.00 | 73.00 | Half_NQ | 569 | 0.057 | 0.006048 | 48 |
| GP10067 | 73.00 | 74.00 | Half_NQ | 204 | 0.020 | 0.005418 | 43 |
| GP10068 | 74.00 | 75.00 | Half_NQ | 339 | 0.034 | 0.001638 | 13 |
| GP10069 | 75.00 | 76.00 | Half_NQ | 174 | 0.017 | 0.002016 | 16 |
| GP10070 | 76.00 | 77.00 | Half_NQ | 158 | 0.016 | 0.001008 | 8 |
| GP10071 | 77.00 | 78.00 | Half_NQ | 297 | 0.030 | 0.000882 | 7 |
| GP10072 | 78.00 | 79.00 | Half_NQ | 76 | 0.008 | 0.001134 | 9 |
| GP10073 | 79.00 | 80.00 | Half_NQ | 223 | 0.022 | 0.001512 | 12 |
| GP10074 | 90.00 | 91.00 | Half_NQ | 21 | 0.002 | 0.000378 | 3 |
| GP10075 | 91.00 | 92.00 | Half_NQ | 121 | 0.012 | 0.00063 | 5 |
| GP10076 | 92.00 | 93.00 | Half_NQ | 58 | 0.006 | 0.000756 | 6 |
| GP10077 | 93.00 | 94.00 | Half_NQ | 86 | 0.009 | 0.00063 | 5 |
| GP10078 | 94.00 | 95.00 | Half_NQ | 220 | 0.022 | 0.000882 | 7 |
| GP10079 | 95.00 | 96.00 | Half_NQ | 81 | 0.008 | 0.000756 | 6 |
| GP10080 | 110.00 | 111.00 | Half_NQ | 4 | 0.000 | 0.000252 | 2 |
| GP10081 | 111.00 | 112.00 | Half_NQ | 8 | 0.001 | 0.000252 | 2 |
| GP10082 | 112.00 | 113.00 | Half_NQ | 11 | 0.001 | 0.000378 | 3 |
| GP10083 | 113.00 | 114.00 | Half_NQ | 10 | 0.001 | 0.000252 | 2 |
| GP10084 | 114.00 | 115.00 | Half_NQ | 27 | 0.003 | 0.000504 | 4 |
| GP10085 | 115.00 | 116.00 | Half_NQ | 17 | 0.002 | 0.000378 | 3 |
| GP10086 | 116.00 | 117.00 | Half_NQ | 72 | 0.007 | 0.000756 | 6 |
| GP10087 | 117.00 | 118.00 | Half_NQ | 440 | 0.044 | 0.000882 | 7 |
| GP10088 | 118.00 | 119.00 | Half_NQ | 13 | 0.001 | 0.000504 | 4 |
| GP10089 | 119.00 | 120.00 | Half_NQ | 14 | 0.001 | 0.000882 | 7 |
| GP10090 | 120.00 | 121.00 | Half_NQ | 60 | 0.006 | 0.001008 | 8 |
| GP10091 | 121.00 | 122.00 | Half_NQ | 65 | 0.007 | 0.00126 | 10 |
| GP10092 | 122.00 | 123.00 | Half_NQ | 101 | 0.010 | 0.001512 | 12 |
| GP10093 | 123.00 | 124.00 | Half_NQ | 193 | 0.019 | 0.001134 | 9 |
| GP10094 | 124.00 | 125.00 | Half_NQ | 598 | 0.060 | 0.002898 | 23 |
| GP10095 | 125.00 | 126.00 | Half_NQ | 21 | 0.002 | 0.000882 | 7 |
| GP10096 | 126.00 | 127.00 | Half_NQ | 183 | 0.018 | 0.000882 | 7 |
| GP10097 | 127.00 | 128.00 | Half_NQ | 51 | 0.005 | 0.00063 | 5 |
| GP10098 | 128.00 | 129.00 | Half_NQ | 96 | 0.010 | 0.000756 | 6 |

| SampleID | mTo | mFrom | Sample_Type | Sn_ppm | Sn_pct | WO3_pct | W_ppm |
|----------|--------|--------|-------------|--------|--------|----------|-------|
| GP10099 | 129.00 | 130.00 | Half_NQ | 583 | 0.058 | 0.001638 | 13 |
| GP10100 | 130.00 | 131.00 | Half_NQ | 14 | 0.001 | 0.000378 | 3 |
| GP10101 | 131.00 | 132.00 | Half_NQ | 14 | 0.001 | 0.000378 | 3 |
| GP10102 | 132.00 | 133.00 | Half_NQ | 14 | 0.001 | 0.000252 | 2 |
| GP10103 | 133.00 | 134.00 | Half_NQ | 31 | 0.003 | 0.000378 | 3 |
| GP10104 | 134.00 | 135.00 | Half_NQ | 27 | 0.003 | 0.000504 | 4 |
| GP10105 | 135.00 | 136.00 | Half_NQ | 34 | 0.003 | 0.000504 | 4 |
| GP10106 | 136.00 | 137.00 | Half_NQ | 63 | 0.006 | 0.000378 | 3 |
| GP10107 | 137.00 | 138.00 | Half_NQ | 71 | 0.007 | 0.000378 | 3 |
| GP10108 | 138.00 | 139.00 | Half_NQ | 27 | 0.003 | 0.000378 | 3 |
| GP10109 | 139.00 | 140.00 | Half_NQ | 10 | 0.001 | 0.000378 | 3 |
| GP10110 | 140.00 | 141.00 | Half_NQ | 1400 | 0.140 | 0.00126 | 10 |
| GP10111 | 141.00 | 142.00 | Half_NQ | 84 | 0.008 | 0.000756 | 6 |
| GP10112 | 142.00 | 143.00 | Half_NQ | 26 | 0.003 | 0.000378 | 3 |
| GP10113 | 143.00 | 144.00 | Half_NQ | 9 | 0.001 | 0.000378 | 3 |
| GP10114 | 144.00 | 145.00 | Half_NQ | 13 | 0.001 | 0.000252 | 2 |
| GP10115 | 145.00 | 146.00 | Half_NQ | 6 | 0.001 | 0.000252 | 2 |
| GP10116 | 146.00 | 147.00 | Half_NQ | 3 | 0.000 | 0.000252 | 2 |
| GP10117 | 147.00 | 148.00 | Half_NQ | 4 | 0.000 | 0.000252 | 2 |
| GP10118 | 148.00 | 149.00 | Half_NQ | 3 | 0.000 | 0.000252 | 2 |
| GP10119 | 149.00 | 150.00 | Half_NQ | 37 | 0.004 | 0.000504 | 4 |
| GP10120 | 150.00 | 151.00 | Half_NQ | 58 | 0.006 | 0.000378 | 3 |
| GP10121 | 151.00 | 152.00 | Half_NQ | 28 | 0.003 | 0.000378 | 3 |
| GP10122 | 152.00 | 153.00 | Half_NQ | 128 | 0.013 | 0.000378 | 3 |
| GP10123 | 153.00 | 154.00 | Half_NQ | 10 | 0.001 | 0.000252 | 2 |
| GP10124 | 154.00 | 155.00 | Half_NQ | 20 | 0.002 | 0.000378 | 3 |
| GP10125 | 155.00 | 156.00 | Half_NQ | 22 | 0.002 | 0.000252 | 2 |
| GP10126 | 156.00 | 157.00 | Half_NQ | 25 | 0.003 | 0.000252 | 2 |
| GP10127 | 157.00 | 158.00 | Half_NQ | 8 | 0.001 | 0.000252 | 2 |
| GP10128 | 158.00 | 159.00 | Half_NQ | 7 | 0.001 | 0.000252 | 2 |
| GP10129 | 159.00 | 160.00 | Half_NQ | 10 | 0.001 | 0.000378 | 3 |
| GP10130 | 160.00 | 161.00 | Half_NQ | 41 | 0.004 | 0.000378 | 3 |
| GP10131 | 161.00 | 162.00 | Half_NQ | 216 | 0.022 | 0.00063 | 5 |
| GP10132 | 162.00 | 163.00 | Half_NQ | 798 | 0.080 | 0.001512 | 12 |
| GP10133 | 163.00 | 164.00 | Half_NQ | 532 | 0.053 | 0.001386 | 11 |
| GP10134 | 164.00 | 165.00 | Half_NQ | 107 | 0.011 | 0.000756 | 6 |
| GP10135 | 165.00 | 166.00 | Half_NQ | 27 | 0.003 | 0.00063 | 5 |
| GP10136 | 166.00 | 167.00 | Half_NQ | 1320 | 0.132 | 0.002268 | 18 |
| GP10137 | 167.00 | 168.00 | Half_NQ | 34 | 0.003 | 0.000504 | 4 |
| GP10138 | 168.00 | 169.00 | Half_NQ | 7 | 0.001 | 0.00063 | 5 |
| GP10139 | 169.00 | 170.00 | Half_NQ | 26 | 0.003 | 0.000756 | 6 |
| GP10140 | 170.00 | 171.00 | Half_NQ | 7 | 0.001 | 0.000504 | 4 |
| GP10141 | 171.00 | 172.00 | Half_NQ | 380 | 0.038 | 0.001386 | 11 |
| GP10142 | 172.00 | 173.00 | Half_NQ | 1520 | 0.152 | 0.002016 | 16 |
| GP10143 | 173.00 | 174.00 | Half_NQ | 766 | 0.077 | 0.002394 | 19 |
| GP10144 | 174.00 | 175.00 | Half_NQ | 700 | 0.070 | 0.000882 | 7 |
| GP10145 | 175.00 | 176.00 | Half_NQ | 305 | 0.031 | 0.001008 | 8 |
| GP10146 | 176.00 | 177.00 | Half_NQ | 356 | 0.036 | 0.00189 | 15 |
| GP10147 | 177.00 | 178.00 | Half_NQ | 105 | 0.011 | 0.001008 | 8 |

| SampleID | mTo | mFrom | Sample_Type | Sn_ppm | Sn_pct | WO3_pct | W_ppm |
|----------|--------|--------|-------------|--------|--------|----------|-------|
| GP10148 | 178.00 | 179.00 | Half_NQ | 652 | 0.065 | 0.007182 | 57 |
| GP10149 | 179.00 | 180.00 | Half_NQ | 770 | 0.077 | 0.00252 | 20 |
| GP10150 | 180.00 | 181.00 | Half_NQ | 1310 | 0.131 | 0.002142 | 17 |
| GP10151 | 181.00 | 182.00 | Half_NQ | 614 | 0.061 | 0.00189 | 15 |
| GP10152 | 182.00 | 183.00 | Half_NQ | 1690 | 0.169 | 0.00315 | 25 |
| GP10153 | 183.00 | 184.00 | Half_NQ | 1120 | 0.112 | 0.00189 | 15 |
| GP10154 | 184.00 | 185.00 | Half_NQ | 1100 | 0.110 | 0.001764 | 14 |
| GP10155 | 185.00 | 186.00 | Half_NQ | 2430 | 0.243 | 0.002898 | 23 |
| GP10156 | 186.00 | 187.00 | Half_NQ | 1540 | 0.154 | 0.015246 | 121 |
| GP10157 | 187.00 | 188.00 | Half_NQ | 5330 | 0.533 | 0.004788 | 38 |
| GP10158 | 188.00 | 189.00 | Half_NQ | 4370 | 0.437 | 0.005544 | 44 |
| GP10159 | 189.00 | 190.00 | Half_NQ | 17000 | 1.700 | 0.02583 | 205 |
| GP10160 | 190.00 | 191.00 | Half_NQ | 1820 | 0.182 | 0.004914 | 39 |
| GP10161 | 191.00 | 192.00 | Half_NQ | 15500 | 1.550 | 0.041454 | 329 |
| GP10162 | 192.00 | 193.00 | Half_NQ | 265 | 0.027 | 0.002142 | 17 |
| GP10163 | 193.00 | 194.00 | Half_NQ | 992 | 0.099 | 0.003402 | 27 |
| GP10164 | 194.00 | 195.00 | Half_NQ | 1630 | 0.163 | 0.002142 | 17 |
| GP10165 | 195.00 | 196.00 | Half_NQ | 1300 | 0.130 | 0.006804 | 54 |
| GP10166 | 196.00 | 197.00 | Half_NQ | 1350 | 0.135 | 0.008694 | 69 |
| GP10167 | 197.00 | 198.00 | Half_NQ | 1430 | 0.143 | 0.002016 | 16 |
| GP10168 | 198.00 | 199.00 | Half_NQ | 681 | 0.068 | 0.004284 | 34 |
| GP10169 | 199.00 | 200.00 | Half_NQ | 2340 | 0.234 | 0.004788 | 38 |
| GP10170 | 200.00 | 201.00 | Half_NQ | 357 | 0.036 | 0.002394 | 19 |
| GP10171 | 201.00 | 202.00 | Half_NQ | 5330 | 0.533 | 0.00378 | 30 |
| GP10172 | 202.00 | 203.00 | Half_NQ | 825 | 0.083 | 0.00189 | 15 |
| GP10173 | 203.00 | 204.00 | Half_NQ | 457 | 0.046 | 0.001386 | 11 |
| GP10174 | 204.00 | 205.00 | Half_NQ | 2020 | 0.202 | 0.003024 | 24 |
| GP10175 | 205.00 | 206.00 | Half_NQ | 2170 | 0.217 | 0.002646 | 21 |
| GP10176 | 206.00 | 207.00 | Half_NQ | 406 | 0.041 | 0.001386 | 11 |
| GP10177 | 207.00 | 208.00 | Half_NQ | 2250 | 0.225 | 0.001764 | 14 |
| GP10178 | 208.00 | 209.00 | Half_NQ | 509 | 0.051 | 0.001764 | 14 |
| GP10179 | 209.00 | 210.00 | Half_NQ | 1540 | 0.154 | 0.002142 | 17 |
| GP10180 | 210.00 | 211.00 | Half_NQ | 141 | 0.014 | 0.000882 | 7 |
| GP10181 | 211.00 | 212.00 | Half_NQ | 448 | 0.045 | 0.001008 | 8 |
| GP10182 | 212.00 | 213.00 | Half_NQ | 977 | 0.098 | 0.001008 | 8 |
| GP10183 | 213.00 | 214.00 | Half_NQ | 906 | 0.091 | 0.00126 | 10 |
| GP10184 | 214.00 | 215.00 | Half_NQ | 384 | 0.038 | 0.001386 | 11 |
| GP10185 | 215.00 | 216.00 | Half_NQ | 356 | 0.036 | 0.00189 | 15 |
| GP10186 | 216.00 | 217.00 | Half_NQ | 639 | 0.064 | 0.001386 | 11 |
| GP10187 | 217.00 | 218.00 | Half_NQ | 154 | 0.015 | 0.001008 | 8 |
| GP10188 | 218.00 | 219.00 | Half_NQ | 290 | 0.029 | 0.001008 | 8 |
| GP10189 | 219.00 | 220.00 | Half_NQ | 846 | 0.085 | 0.001134 | 9 |
| GP10190 | 220.00 | 221.00 | Half_NQ | 440 | 0.044 | 0.001386 | 11 |
| GP10191 | 221.00 | 222.00 | Half_NQ | 197 | 0.020 | 0.00126 | 10 |
| GP10192 | 222.00 | 223.00 | Half_NQ | 2380 | 0.238 | 0.002772 | 22 |
| GP10193 | 223.00 | 224.00 | Half_NQ | 535 | 0.054 | 0.002142 | 17 |
| GP10194 | 224.00 | 225.00 | Half_NQ | 2620 | 0.262 | 0.00882 | 70 |
| GP10195 | 225.00 | 226.00 | Half_NQ | 637 | 0.064 | 0.002394 | 19 |
| GP10196 | 226.00 | 227.00 | Half_NQ | 1760 | 0.176 | 0.004284 | 34 |

| SampleID | mTo | mFrom | Sample_Type | Sn_ppm | Sn_pct | WO3_pct | W_ppm |
|----------|--------|--------|-------------|--------|--------|----------|-------|
| GP10197 | 227.00 | 228.00 | Half_NQ | 747 | 0.075 | 0.002016 | 16 |
| GP10198 | 228.00 | 229.00 | Half_NQ | 285 | 0.029 | 0.00189 | 15 |
| GP10199 | 229.00 | 230.00 | Half_NQ | 456 | 0.046 | 0.001638 | 13 |
| GP10200 | 230.00 | 231.00 | Half_NQ | 196 | 0.020 | 0.001008 | 8 |
| GP10201 | 231.00 | 232.00 | Half_NQ | 298 | 0.030 | 0.001008 | 8 |
| GP10202 | 232.00 | 233.00 | Half_NQ | 60 | 0.006 | 0.00063 | 5 |
| GP10203 | 233.00 | 234.00 | Half_NQ | 236 | 0.024 | 0.00126 | 10 |
| GP10204 | 234.00 | 235.00 | Half_NQ | 1130 | 0.113 | 0.001512 | 12 |
| GP10205 | 235.00 | 236.00 | Half_NQ | 1010 | 0.101 | 0.001638 | 13 |
| GP10206 | 236.00 | 237.00 | Half_NQ | 958 | 0.096 | 0.001512 | 12 |
| GP10207 | 237.00 | 238.00 | Half_NQ | 1180 | 0.118 | 0.00189 | 15 |
| GP10208 | 238.00 | 239.00 | Half_NQ | 378 | 0.038 | 0.001134 | 9 |
| GP10209 | 239.00 | 240.00 | Half_NQ | 529 | 0.053 | 0.001764 | 14 |
| GP10210 | 240.00 | 241.00 | Half_NQ | 2020 | 0.202 | 0.002016 | 16 |
| GP10211 | 241.00 | 242.00 | Half_NQ | 1260 | 0.126 | 0.003402 | 27 |
| GP10212 | 242.00 | 243.00 | Half_NQ | 902 | 0.090 | 0.002268 | 18 |
| GP10213 | 243.00 | 244.00 | Half_NQ | 1150 | 0.115 | 0.003276 | 26 |
| GP10214 | 244.00 | 245.00 | Half_NQ | 2460 | 0.246 | 0.003276 | 26 |
| GP10215 | 245.00 | 246.00 | Half_NQ | 644 | 0.064 | 0.00126 | 10 |
| GP10216 | 246.00 | 247.00 | Half_NQ | 851 | 0.085 | 0.00315 | 25 |
| GP10217 | 247.00 | 248.00 | Half_NQ | 277 | 0.028 | 0.00126 | 10 |
| GP10218 | 248.00 | 249.00 | Half_NQ | 1410 | 0.141 | 0.001764 | 14 |
| GP10219 | 249.00 | 250.00 | Half_NQ | 364 | 0.036 | 0.001008 | 8 |
| GP10220 | 250.00 | 251.00 | Half_NQ | 361 | 0.036 | 0.001008 | 8 |
| GP10221 | 251.00 | 252.00 | Half_NQ | 212 | 0.021 | 0.001008 | 8 |
| GP10222 | 252.00 | 253.00 | Half_NQ | 194 | 0.019 | 0.001134 | 9 |
| GP10223 | 253.00 | 254.00 | Half_NQ | 79 | 0.008 | 0.00189 | 15 |
| GP10224 | 254.00 | 255.00 | Half_NQ | 587 | 0.059 | 0.000756 | 6 |
| GP10225 | 255.00 | 256.00 | Half_NQ | 187 | 0.019 | 0.000756 | 6 |
| GP10226 | 256.00 | 257.00 | Half_NQ | 234 | 0.023 | 0.000882 | 7 |
| GP10227 | 257.00 | 258.00 | Half_NQ | 67 | 0.007 | 0.000756 | 6 |
| GP10228 | 258.00 | 259.00 | Half_NQ | 28 | 0.003 | 0.000504 | 4 |
| GP10229 | 259.00 | 260.00 | Half_NQ | 104 | 0.010 | 0.000504 | 4 |
| GP10230 | 260.00 | 261.00 | Half_NQ | 8 | 0.001 | 0.000378 | 3 |
| GP10231 | 261.00 | 262.00 | Half_NQ | 20 | 0.002 | 0.000378 | 3 |
| GP10232 | 262.00 | 263.00 | Half_NQ | 464 | 0.046 | 0.00063 | 5 |
| GP10233 | 263.00 | 264.00 | Half_NQ | 10 | 0.001 | 0.000252 | 2 |
| GP10234 | 264.00 | 265.00 | Half_NQ | 2690 | 0.269 | 0.001134 | 9 |
| GP10235 | 265.00 | 266.00 | Half_NQ | 263 | 0.026 | 0.00063 | 5 |
| GP10236 | 266.00 | 267.00 | Half_NQ | 8 | 0.001 | 0.000378 | 3 |
| GP10237 | 267.00 | 268.00 | Half_NQ | 6 | 0.001 | 0.000378 | 3 |
| GP10238 | 268.00 | 269.00 | Half_NQ | 32 | 0.003 | 0.000378 | 3 |
| GP10239 | 269.00 | 270.00 | Half_NQ | 24 | 0.002 | 0.000378 | 3 |
| GP10240 | 270.00 | 271.00 | Half_NQ | 6 | 0.001 | 0.000252 | 2 |
| GP10241 | 271.00 | 272.00 | Half_NQ | 4 | 0.000 | 0.000378 | 3 |
| GP10242 | 272.00 | 273.00 | Half_NQ | 4 | 0.000 | 0.000252 | 2 |
| GP10243 | 273.00 | 274.00 | Half_NQ | 6 | 0.001 | 0.000378 | 3 |
| GP10244 | 274.00 | 275.00 | Half_NQ | 28 | 0.003 | 0.000504 | 4 |
| GP10245 | 275.00 | 276.00 | Half_NQ | 3460 | 0.346 | 0.001134 | 9 |

| SampleID | mTo | mFrom | Sample_Type | Sn_ppm | Sn_pct | WO3_pct | W_ppm |
|----------|--------|--------|-------------|--------|--------|----------|-------|
| GP10246 | 276.00 | 277.00 | Half_NQ | 122 | 0.012 | 0.000756 | 6 |
| GP10247 | 277.00 | 278.00 | Half_NQ | 22 | 0.002 | 0.000504 | 4 |
| GP10248 | 278.00 | 279.00 | Half_NQ | 84 | 0.008 | 0.001638 | 13 |
| GP10249 | 279.00 | 280.00 | Half_NQ | 79 | 0.008 | 0.00126 | 10 |
| GP10250 | 280.00 | 281.00 | Half_NQ | 9 | 0.001 | 0.000504 | 4 |
| GP10251 | 281.00 | 282.00 | Half_NQ | 5 | 0.001 | 0.000756 | 6 |
| GP10252 | 282.00 | 283.00 | Half_NQ | 20 | 0.002 | 0.000882 | 7 |
| GP10253 | 283.00 | 284.00 | Half_NQ | 23 | 0.002 | 0.001512 | 12 |
| GP10254 | 284.00 | 285.00 | Half_NQ | 6 | 0.001 | 0.000882 | 7 |
| GP10255 | 285.00 | 286.00 | Half_NQ | 41 | 0.004 | 0.000756 | 6 |
| GP10256 | 286.00 | 287.00 | Half_NQ | 13 | 0.001 | 0.000504 | 4 |
| GP10257 | 287.00 | 288.00 | Half_NQ | 16 | 0.002 | 0.000252 | 2 |
| GP10258 | 288.00 | 289.00 | Half_NQ | 24 | 0.002 | 0.000378 | 3 |
| GP10259 | 289.00 | 290.00 | Half_NQ | 59 | 0.006 | 0.00063 | 5 |
| GP10260 | 290.00 | 291.00 | Half_NQ | 96 | 0.010 | 0.000504 | 4 |
| GP10261 | 291.00 | 292.00 | Half_NQ | 30 | 0.003 | 0.000378 | 3 |
| GP10262 | 292.00 | 293.00 | Half_NQ | 5 | 0.001 | 0.000252 | 2 |
| GP10263 | 293.00 | 294.00 | Half_NQ | 14 | 0.001 | 0.000378 | 3 |
| GP10264 | 294.00 | 295.00 | Half_NQ | 5 | 0.001 | 0.000252 | 2 |
| GP10265 | 295.00 | 296.00 | Half_NQ | 14 | 0.001 | 0.000504 | 4 |
| GP10266 | 296.00 | 297.00 | Half_NQ | 20 | 0.002 | 0.00063 | 5 |
| GP10267 | 297.00 | 298.00 | Half_NQ | 352 | 0.035 | 0.000504 | 4 |
| GP10268 | 298.00 | 299.00 | Half_NQ | 3070 | 0.307 | 0.001764 | 14 |
| GP10269 | 299.00 | 300.00 | Half_NQ | 1180 | 0.118 | 0.001512 | 12 |
| GP10270 | 300.00 | 301.00 | Half_NQ | 1140 | 0.114 | 0.001008 | 8 |
| GP10271 | 301.00 | 302.00 | Half_NQ | 77 | 0.008 | 0.000504 | 4 |
| GP10272 | 302.00 | 303.00 | Half_NQ | 19 | 0.002 | 0.000378 | 3 |
| GP10273 | 303.00 | 304.00 | Half_NQ | 54 | 0.005 | 0.000378 | 3 |
| GP10274 | 304.00 | 305.00 | Half_NQ | 96 | 0.010 | 0.000756 | 6 |
| GP10275 | 305.00 | 306.00 | Half_NQ | 47 | 0.005 | 0.00063 | 5 |
| GP10276 | 306.00 | 307.00 | Half_NQ | 62 | 0.006 | 0.000756 | 6 |
| GP10277 | 307.00 | 308.00 | Half_NQ | 94 | 0.009 | 0.000756 | 6 |
| GP10278 | 308.00 | 309.00 | Half_NQ | 29 | 0.003 | 0.000882 | 7 |
| GP10279 | 309.00 | 310.00 | Half_NQ | 45 | 0.005 | 0.000504 | 4 |

Appendix 2 Assay laboratory certificates



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 This copy reported on 1-NOV-2018
 Account: TNTMIN

CERTIFICATE BU18231823

Project: Great Pyramid

This report is for 279 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 19-SEP-2018.

The following have access to data associated with this certificate:

NICK CASTLEDEN

RUSSELL FULTON

ROBERT REID

| SAMPLE PREPARATION | |
|--------------------|----------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LEV-01 | Waste Disposal Levy |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-21 | Crush entire sample > 70% - 6 mm |
| PUL-31b | Pulv. Lg split to > 80% - 75um |
| PUL-QC | Pulverizing QC Test |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| ME-MS85 | Lithium Borate Fusion - Select Elements | ICP-MS |
| ME-XRF15d | Sulphide BM Conc. by XRF | XRF |

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:

Ricky Gelston, Laboratory Manager, Burnie



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Project: Great Pyramid

CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | WEI-21 | PUL-QC | ME-XRF15d | ME-MS85 | ME-MS85 | ME-MS85 |
|--------------------|--------------------------|--------------|------------|-----------|---------|---------|---------|
| | | Recvd Wt. kg | Pass/Sum % | Sn % | Sn ppm | Sn ppm | W ppm |
| GP10001 | | 1.21 | 98.5 | 1.31 | >10000 | | 41 |
| GP10002 | | 3.14 | | 1.16 | >10000 | | 34 |
| GP10003 | | 3.57 | | | 9080 | | 45 |
| GP10004 | | 2.32 | | | 1350 | | 17 |
| GP10005 | | 2.84 | | | 1670 | | 16 |
| GP10006 | | 3.27 | | | 2740 | | 18 |
| GP10007 | | 3.78 | | | 1370 | | 15 |
| GP10008 | | 2.34 | | | 3590 | | 22 |
| GP10009 | | 1.78 | | | 2570 | | 21 |
| GP10010 | | 1.88 | | | 1670 | | 16 |
| GP10011 | | 0.60 | | | 1220 | | 17 |
| GP10012 | | 0.98 | | | 2470 | | 22 |
| GP10013 | | 1.83 | | | 2940 | | 16 |
| GP10014 | | 1.69 | | | 708 | | 10 |
| GP10015 | | 1.71 | | | 641 | | 9 |
| GP10016 | | 1.93 | | | 2050 | | 21 |
| GP10017 | | 1.90 | | | 3890 | | 40 |
| GP10018 | | 1.99 | | | 3090 | | 36 |
| GP10019 | | 2.13 | | | 2030 | | 24 |
| GP10020 | | 1.86 | | | 2630 | | 33 |
| GP10021 | | 2.12 | | | 2520 | | 42 |
| GP10022 | | 1.78 | | | 3150 | | 59 |
| GP10023 | | 1.66 | | | 2560 | | 24 |
| GP10024 | | 1.90 | | | 697 | | 36 |
| GP10025 | | 1.87 | | | 843 | | 30 |
| GP10026 | | 2.03 | | | 3130 | | 34 |
| GP10027 | | 1.98 | | | 6190 | | 71 |
| GP10028 | | 2.02 | | | 9790 | | 133 |
| GP10029 | | 1.84 | | | 7860 | | 63 |
| GP10030 | | 1.54 | | | 6930 | | 97 |
| GP10031 | | 1.82 | | | 4240 | | 47 |
| GP10032 | | 1.95 | | | 5060 | | 73 |
| GP10033 | | 1.88 | | | 3820 | | 63 |
| GP10034 | | 2.32 | | | 4140 | | 36 |
| GP10035 | | 2.25 | | | 2740 | | 24 |
| GP10036 | | 1.82 | | | 2330 | | 95 |
| GP10037 | | 1.93 | | | 1540 | | 72 |
| GP10038 | | 2.01 | | | 990 | | 190 |
| GP10039 | | 2.34 | | | 1270 | | 53 |
| GP10040 | | 1.75 | 98.6 | | 1180 | | 19 |

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



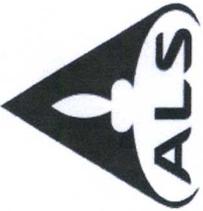
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Project: Great Pyramid

CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | WEI-21 | PUL-QC | ME-XRF15d | ME-MS85 | ME-MS85 |
|--------------------|--------------------------|--------------|------------|-----------|---------|---------|
| | | Recvd Wt. kg | Pass75um % | Sn % | Sn ppm | W ppm |
| GP10041 | | 2.46 | 0.01 | 0.01 | 893 | 24 |
| GP10042 | | 1.86 | | | 1370 | 39 |
| GP10043 | | 1.99 | | | 477 | 19 |
| GP10044 | | 1.99 | | | 3650 | 45 |
| GP10045 | | 2.22 | | | 1650 | 71 |
| GP10046 | | 1.74 | | | 1310 | 60 |
| GP10047 | | 1.71 | | | 883 | 64 |
| GP10048 | | 2.26 | | | 1590 | 38 |
| GP10049 | | 1.74 | | | 1230 | 39 |
| GP10050 | | 2.12 | | | 1110 | 50 |
| GP10051 | | 2.07 | | | 880 | 63 |
| GP10052 | | 2.17 | | | 1340 | 25 |
| GP10053 | | 1.46 | | | 1180 | 28 |
| GP10054 | | 1.38 | | | 1260 | 32 |
| GP10055 | | 0.89 | | | 870 | 48 |
| GP10056 | | 2.01 | | | 515 | 28 |
| GP10057 | | 1.75 | | | 1420 | 58 |
| GP10058 | | 1.64 | | | 1540 | 68 |
| GP10059 | | 1.45 | | | 395 | 78 |
| GP10060 | | 2.03 | | | 3150 | 74 |
| GP10061 | | 1.85 | | | 446 | 21 |
| GP10062 | | 1.92 | | | 395 | 27 |
| GP10063 | | 0.67 | | | 167 | 11 |
| GP10064 | | 1.20 | | | 1060 | 27 |
| GP10065 | | 1.68 | | | 538 | 50 |
| GP10066 | | 1.88 | | | 569 | 48 |
| GP10067 | | 1.91 | | | 204 | 43 |
| GP10068 | | 1.69 | | | 339 | 13 |
| GP10069 | | 1.32 | | | 174 | 16 |
| GP10070 | | 1.84 | | | 158 | 8 |
| GP10071 | | 1.12 | | | 297 | 7 |
| GP10072 | | 0.69 | | | 76 | 9 |
| GP10073 | | 0.50 | | | 223 | 12 |
| GP10074 | | 1.96 | | | 21 | 3 |
| GP10075 | | 1.81 | | | 121 | 5 |
| GP10076 | | 2.00 | | | 58 | 6 |
| GP10077 | | 1.87 | | | 86 | 5 |
| GP10078 | | 1.20 | | | 220 | 7 |
| GP10079 | | 1.82 | | | 81 | 6 |
| GP10080 | | 1.69 | 92.2 | | 4 | 2 |



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Project: Great Pyramid

CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | WEI-21 Recvd Wt. kg 0.02 | PUL-QC Pass75um % 0.01 | ME-XRF15d Sn % 0.01 | ME-MS85 Sn ppm 1 | ME-MS85 W ppm 1 |
|--------------------|--------------------------|--------------------------|------------------------|---------------------|------------------|-----------------|
| GPI0081 | | 1.99 | | | 8 | 2 |
| GPI0082 | | 1.34 | | | 11 | 3 |
| GPI0083 | | 1.81 | | | 10 | 2 |
| GPI0084 | | 1.77 | | | 27 | 4 |
| GPI0085 | | 1.64 | | | 17 | 3 |
| GPI0086 | | 1.16 | | | 72 | 6 |
| GPI0087 | | 1.07 | | | 440 | 7 |
| GPI0088 | | 0.96 | | | 13 | 4 |
| GPI0089 | | 0.85 | | | 14 | 7 |
| GPI0090 | | 1.57 | | | 60 | 8 |
| GPI0091 | | 1.40 | | | 65 | 10 |
| GPI0092 | | 1.45 | | | 101 | 12 |
| GPI0093 | | 1.54 | | | 193 | 9 |
| GPI0094 | | 2.21 | | | 598 | 23 |
| GPI0095 | | 1.42 | | | 21 | 7 |
| GPI0096 | | 1.53 | | | 183 | 7 |
| GPI0097 | | 1.72 | | | 51 | 5 |
| GPI0098 | | 1.67 | | | 96 | 6 |
| GPI0099 | | 2.13 | | | 583 | 13 |
| GPI0100 | | 1.76 | | | 14 | 3 |
| GPI0101 | | 1.65 | | | 14 | 3 |
| GPI0102 | | 2.09 | | | 14 | 2 |
| GPI0103 | | 2.00 | | | 31 | 3 |
| GPI0104 | | 1.08 | | | 27 | 4 |
| GPI0105 | | 1.80 | | | 34 | 4 |
| GPI0106 | | 1.79 | | | 63 | 3 |
| GPI0107 | | 1.99 | | | 71 | 3 |
| GPI0108 | | 1.84 | | | 27 | 3 |
| GPI0109 | | 1.99 | | | 10 | 3 |
| GPI0110 | | 1.74 | | | 1400 | 10 |
| GPI0111 | | 1.75 | | | 84 | 6 |
| GPI0112 | | 2.32 | | | 26 | 3 |
| GPI0113 | | 1.70 | | | 9 | 3 |
| GPI0114 | | 2.08 | | | 13 | 2 |
| GPI0115 | | 2.30 | | | 6 | 2 |
| GPI0116 | | 2.08 | | | 3 | 2 |
| GPI0117 | | 1.98 | | | 4 | 2 |
| GPI0118 | | 1.86 | | | 3 | 2 |
| GPI0119 | | 2.21 | | | 37 | 4 |
| GPI0120 | | 1.98 | 98.2 | | 58 | 3 |



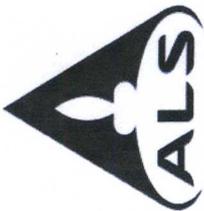
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CERTIFICATE OF ANALYSIS BUI8231823

| Sample Description | Method Analyte Units LOD | WEI-21 | PUL-QC | ME-XRF15d | ME-MS85 | ME-MS85 | ME-MS85 |
|--------------------|--------------------------|--------------|------------|-----------|---------|---------|---------|
| | | Recvd Wt. kg | Pass75um % | Sn % | Sn ppm | Sn ppm | W ppm |
| GPI0121 | | 1.24 | 0.01 | 0.01 | 28 | 1 | 3 |
| GPI0122 | | 2.01 | | | 128 | | 3 |
| GPI0123 | | 2.04 | | | 10 | | 2 |
| GPI0124 | | 1.75 | | | 20 | | 3 |
| GPI0125 | | 1.81 | | | 22 | | 2 |
| GPI0126 | | 2.07 | | | 25 | | 2 |
| GPI0127 | | 1.75 | | | 8 | | 2 |
| GPI0128 | | 1.32 | | | 7 | | 2 |
| GPI0129 | | 2.38 | | | 10 | | 3 |
| GPI0130 | | 2.21 | | | 41 | | 3 |
| GPI0131 | | 1.34 | | | 216 | | 5 |
| GPI0132 | | 0.93 | | | 798 | | 12 |
| GPI0133 | | 1.50 | | | 532 | | 11 |
| GPI0134 | | 1.67 | | | 107 | | 6 |
| GPI0135 | | 1.88 | | | 27 | | 5 |
| GPI0136 | | 1.38 | | | 1320 | | 18 |
| GPI0137 | | 1.49 | | | 34 | | 4 |
| GPI0138 | | 1.68 | | | 7 | | 5 |
| GPI0139 | | 1.61 | | | 26 | | 6 |
| GPI0140 | | 1.24 | | | 7 | | 4 |
| GPI0141 | | 1.93 | | | 380 | | 11 |
| GPI0142 | | 2.32 | | | 1520 | | 16 |
| GPI0143 | | 2.14 | | | 766 | | 19 |
| GPI0144 | | 1.92 | | | 700 | | 7 |
| GPI0145 | | 1.62 | | | 305 | | 8 |
| GPI0146 | | 2.30 | | | 356 | | 15 |
| GPI0147 | | 2.11 | | | 105 | | 8 |
| GPI0148 | | 1.93 | | | 652 | | 57 |
| GPI0149 | | 2.09 | | | 770 | | 20 |
| GPI0150 | | 2.00 | | | 1310 | | 17 |
| GPI0151 | | 2.01 | | | 614 | | 15 |
| GPI0152 | | 2.33 | | | 1690 | | 25 |
| GPI0153 | | 2.17 | | | 1120 | | 15 |
| GPI0154 | | 1.93 | | | 1100 | | 14 |
| GPI0155 | | 1.83 | | | 2430 | | 23 |
| GPI0156 | | 2.15 | | | 1540 | | 121 |
| GPI0157 | | 2.11 | | | 5330 | | 38 |
| GPI0158 | | 1.87 | | | 4370 | | 44 |
| GPI0159 | | 2.18 | | 1.70 | >10000 | | 205 |
| GPI0160 | | 1.94 | 95.0 | | 1820 | | 39 |



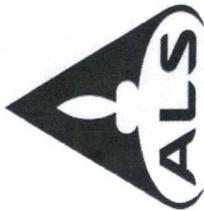
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Project: Great Pyramid

CERTIFICATE OF ANALYSIS BUI8231823

| Sample Description | Method Analyte Units LOD | WEI- 21 Recvd Wt. kg 0.02 | PUL- QC Pass% 0.01 | ME- XRF15d Sn % 0.01 | ME- MS85 Sn ppm 1 | ME- MS85 W ppm 1 |
|--------------------|--------------------------|---------------------------|--------------------|----------------------|-------------------|------------------|
| GP10161 | | 2.10 | | 1.55 | >10000 | 329 |
| GP10162 | | 2.14 | | | 265 | 17 |
| GP10163 | | 2.01 | | | 992 | 27 |
| GP10164 | | 2.32 | | | 1630 | 17 |
| GP10165 | | 1.95 | | | 1300 | 54 |
| GP10166 | | 2.18 | | | 1350 | 69 |
| GP10167 | | 2.02 | | | 1430 | 16 |
| GP10168 | | 1.74 | | | 681 | 34 |
| GP10169 | | 2.13 | | | 2340 | 38 |
| GP10170 | | 1.42 | | | 357 | 19 |
| GP10171 | | 1.36 | | | 5330 | 30 |
| GP10172 | | 1.86 | | | 825 | 15 |
| GP10173 | | 1.58 | | | 457 | 11 |
| GP10174 | | 1.86 | | | 2020 | 24 |
| GP10175 | | 1.78 | | | 2170 | 21 |
| GP10176 | | 1.85 | | | 406 | 11 |
| GP10177 | | 2.46 | | | 2250 | 14 |
| GP10178 | | 1.52 | | | 509 | 14 |
| GP10179 | | 1.94 | | | 1540 | 17 |
| GP10180 | | 1.79 | | | 141 | 7 |
| GP10181 | | 1.92 | | | 448 | 8 |
| GP10182 | | 2.09 | | | 977 | 8 |
| GP10183 | | 2.28 | | | 906 | 10 |
| GP10184 | | 2.24 | | | 384 | 11 |
| GP10185 | | 1.93 | | | 356 | 15 |
| GP10186 | | 2.08 | | | 639 | 11 |
| GP10187 | | 2.13 | | | 154 | 8 |
| GP10188 | | 2.47 | | | 290 | 8 |
| GP10189 | | 1.99 | | | 846 | 9 |
| GP10190 | | 1.80 | | | 440 | 11 |
| GP10191 | | 1.61 | | | 197 | 10 |
| GP10192 | | 1.55 | | | 2380 | 22 |
| GP10193 | | 2.35 | | | 535 | 17 |
| GP10194 | | 1.95 | | | 2620 | 70 |
| GP10195 | | 2.24 | | | 637 | 19 |
| GP10196 | | 2.24 | | | 1760 | 34 |
| GP10197 | | 2.09 | | | 747 | 16 |
| GP10198 | | 1.98 | | | 285 | 15 |
| GP10199 | | 2.16 | | | 456 | 13 |
| GP10200 | | 2.10 | 95.0 | | 196 | 8 |



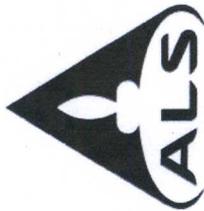
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CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | WEI-21 | PUL-QC | ME-XRF15d | ME-MS85 | ME-MS85 | ME-MS85 |
|--------------------|--------------------------|-------------------|-----------------|-----------|----------|----------|---------|
| | | Recvd Wt. kg 0.02 | Pass75um % 0.01 | Sn % 0.01 | Sn ppm 1 | Sn ppm 1 | W ppm 1 |
| GPI0201 | | 2.31 | | | 298 | | 8 |
| GPI0202 | | 1.69 | | | 60 | | 5 |
| GPI0203 | | 1.93 | | | 236 | | 10 |
| GPI0204 | | 2.06 | | | 1130 | | 12 |
| GPI0205 | | 2.13 | | | 1010 | | 13 |
| GPI0206 | | 1.77 | | | 958 | | 12 |
| GPI0207 | | 2.33 | | | 1180 | | 15 |
| GPI0208 | | 2.20 | | | 378 | | 9 |
| GPI0209 | | 1.60 | | | 529 | | 14 |
| GPI0210 | | 2.08 | | | 2020 | | 16 |
| GPI0211 | | 1.74 | | | 1260 | | 27 |
| GPI0212 | | 1.64 | | | 902 | | 18 |
| GPI0213 | | 2.16 | | | 1150 | | 26 |
| GPI0214 | | 2.28 | | | 2460 | | 26 |
| GPI0215 | | 2.11 | | | 644 | | 10 |
| GPI0216 | | 2.38 | | | 851 | | 25 |
| GPI0217 | | 2.34 | | | 277 | | 10 |
| GPI0218 | | 1.88 | | | 1410 | | 14 |
| GPI0219 | | 2.08 | | | 364 | | 8 |
| GPI0220 | | 2.07 | | | 361 | | 8 |
| GPI0221 | | 2.26 | | | 212 | | 8 |
| GPI0222 | | 2.15 | | | 194 | | 9 |
| GPI0223 | | 2.33 | | | 79 | | 15 |
| GPI0224 | | 2.46 | | | 587 | | 6 |
| GPI0225 | | 2.00 | | | 187 | | 6 |
| GPI0226 | | 1.96 | | | 234 | | 7 |
| GPI0227 | | 1.97 | | | 67 | | 6 |
| GPI0228 | | 2.08 | | | 28 | | 4 |
| GPI0229 | | 2.30 | | | 104 | | 4 |
| GPI0230 | | 2.22 | | | 8 | | 3 |
| GPI0231 | | 1.99 | | | 20 | | 3 |
| GPI0232 | | 2.13 | | | 464 | | 5 |
| GPI0233 | | 2.24 | | | 10 | | 2 |
| GPI0234 | | 2.07 | | | 2690 | | 9 |
| GPI0235 | | 2.24 | | | 263 | | 5 |
| GPI0236 | | 1.84 | | | 8 | | 3 |
| GPI0237 | | 2.09 | | | 6 | | 3 |
| GPI0238 | | 2.25 | | | 32 | | 3 |
| GPI0239 | | 2.01 | | | 24 | | 3 |
| GPI0240 | | 2.21 | 90.4 | | 6 | | 2 |



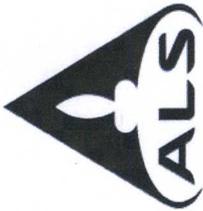
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CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | WEI-21 | PUL-QC | ME-XRF15d | ME-MS85 | ME-MS85 | ME-MS85 |
|--------------------|--------------------------|--------------|------------|-----------|---------|---------|---------|
| | | Recvd Wt. kg | Pass75um % | Sn % | Sn ppm | Sn ppm | W ppm |
| GPI0241 | | 2.10 | 0.01 | 0.01 | 4 | 1 | 3 |
| GPI0242 | | 2.23 | | | 4 | 1 | 2 |
| GPI0243 | | 1.99 | | | 6 | | 3 |
| GPI0244 | | 2.31 | | | 28 | | 4 |
| GPI0245 | | 2.19 | | | 3460 | | 9 |
| GPI0246 | | 2.35 | | | 122 | | 6 |
| GPI0247 | | 2.19 | | | 22 | | 4 |
| GPI0248 | | 2.13 | | | 84 | | 13 |
| GPI0249 | | 1.85 | | | 79 | | 10 |
| GPI0250 | | 2.50 | | | 9 | | 4 |
| GPI0251 | | 2.02 | | | 5 | | 6 |
| GPI0252 | | 2.46 | | | 20 | | 7 |
| GPI0253 | | 2.13 | | | 23 | | 12 |
| GPI0254 | | 1.97 | | | 6 | | 7 |
| GPI0255 | | 1.91 | | | 41 | | 6 |
| GPI0256 | | 2.22 | | | 13 | | 4 |
| GPI0257 | | 2.40 | | | 16 | | 2 |
| GPI0258 | | 3.16 | | | 24 | | 3 |
| GPI0259 | | 2.48 | | | 59 | | 5 |
| GPI0260 | | 2.07 | | | 96 | | 4 |
| GPI0261 | | 2.16 | | | 30 | | 3 |
| GPI0262 | | 2.16 | | | 5 | | 2 |
| GPI0263 | | 2.05 | | | 14 | | 3 |
| GPI0264 | | 2.41 | | | 5 | | 2 |
| GPI0265 | | 2.07 | | | 14 | | 4 |
| GPI0266 | | 2.23 | | | 20 | | 5 |
| GPI0267 | | 2.17 | | | 352 | | 4 |
| GPI0268 | | 2.15 | | | 3070 | | 14 |
| GPI0269 | | 2.29 | | | 1180 | | 12 |
| GPI0270 | | 2.34 | | | 1140 | | 8 |
| GPI0271 | | 2.25 | | | 77 | | 4 |
| GPI0272 | | 2.08 | | | 19 | | 3 |
| GPI0273 | | 2.24 | | | 54 | | 3 |
| GPI0274 | | 2.24 | | | 96 | | 6 |
| GPI0275 | | 2.12 | | | 47 | | 5 |
| GPI0276 | | 2.39 | | | 62 | | 6 |
| GPI0277 | | 2.06 | | | 94 | | 6 |
| GPI0278 | | 2.52 | | | 29 | | 7 |
| GPI0279 | | 2.07 | | | 45 | | 4 |



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CERTIFICATE OF ANALYSIS BU18231823

| CERTIFICATE COMMENTS | |
|----------------------|--|
| Applies to Method: | LABORATORY ADDRESSES Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 116 Delta Street, Geebung, QLD 4034, Australia ME- MS85 |
| Applies to Method: | Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. CRU- 21 PUL- 31b LOG- 22 WEI- 21 ME- XRF15d |

Appendix 3 Assay laboratory QAQC certificates



QC CERTIFICATE BU18231823

Project: Great Pyramid

This report is for 279 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 19-SEP-2018.

The following have access to data associated with this certificate:

NICK CASTLEDEN

RUSSELL FULTON

ROBERT REID

| SAMPLE PREPARATION | |
|--------------------|----------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LEV-01 | Waste Disposal Levy |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-21 | Crush entire sample > 70% - 6 mm |
| PUL-31b | Pulv. Lg split to > 80% - 75um |
| PUL-QC | Pulverizing QC Test |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| ME-MS85 | Lithium Borate Fusion - Select Elements | ICP-MS |
| ME-XRF15d | Sulphide BM Conc. by XRF | XRF |

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:

Ricky Gelston, Laboratory Manager, Burnie



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QC CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | ME: XRF15d | ME: MS85 | Sn ppm | W ppm |
|----------------------------|--------------------------|------------|----------|--------|-------|
| NBS- 2430 | | 0.01 | | | |
| Target Range - Lower Bound | | <0.01 | | | |
| Upper Bound | | 0.04 | | | |
| NCSDC35001 | | 45.8 | | | |
| NCSDC35001 | | 45.6 | | | |
| Target Range - Lower Bound | | 43.5 | | | |
| Upper Bound | | 48.1 | | | |
| OREAS 460 | | | 17 | 4 | |
| OREAS 460 | | | 17 | 5 | |
| OREAS 460 | | | 18 | 5 | |
| OREAS 460 | | | 17 | 5 | |
| Target Range - Lower Bound | | | 13 | <1 | |
| Upper Bound | | | 19 | 2 | |
| OREAS 622 | | <0.01 | | | |
| OREAS 622 | | <0.01 | | | |
| Target Range - Lower Bound | | <0.01 | | | |
| Upper Bound | | 0.02 | | | |
| OREAS- 100a | | | 14 | 10 | |
| OREAS- 100a | | | 11 | 11 | |
| OREAS- 100a | | | 9 | 10 | |
| OREAS- 100a | | | 9 | 11 | |
| OREAS- 100a | | | 11 | 11 | |
| OREAS- 100a | | | 10 | 10 | |
| OREAS- 100a | | | 8 | 9 | |
| OREAS- 100a | | | 9 | 10 | |
| OREAS- 100a | | | 9 | 10 | |
| Target Range - Lower Bound | | | 7 | 8 | |
| Upper Bound | | | 12 | 13 | |
| SY- 4 | | | 10 | <1 | |
| SY- 4 | | | 8 | <1 | |
| SY- 4 | | | 10 | 11 | |
| SY- 4 | | | 9 | <1 | |
| Target Range - Lower Bound | | | 6 | <1 | |
| Upper Bound | | | 10 | 3 | |
| TRHB | | | 132 | 4 | |
| TRHB | | | 130 | 4 | |
| TRHB | | | 134 | 5 | |

STANDARDS



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 Account: TNTMIN

Project: Great Pyramid

QC CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | ME: XRF15d | | ME: MS85 | | ME: MS85 | |
|---|-----------------------------------|------------|--------------|-----------|----------|----------|---|
| | | Sn % | Sn ppm | W % | W ppm | 1 | 1 |
| GPI0010 DUP Target Range - Lower Bound Upper Bound | / | | 1670 | 16 | | | |
| | | | 1630 | 16 | | | |
| | | | 1565 1735 | 14 18 | | | |
| GPI0030 DUP Target Range - Lower Bound Upper Bound | / | | 6930 | 97 | | | |
| | | | 6860 | 92 | | | |
| | | | 6550 7240 | 89 100 | | | |
| GPI0044 DUP Target Range - Lower Bound Upper Bound | / | | 3650 | 45 | | | |
| | | | 3490 | 45 | | | |
| | | | 3390 3750 | 42 48 | | | |
| GPI0064 DUP Target Range - Lower Bound Upper Bound | / | | 1060 | 27 | | | |
| | | | 1080 | 27 | | | |
| | | | 1015 1125 | 25 29 | | | |
| GPI0077 DUP Target Range - Lower Bound Upper Bound | / | | 86 | 5 | | | |
| | | | 87 | 5 | | | |
| | | | 81 92 | 4 6 | | | |
| GPI0097 DUP Target Range - Lower Bound Upper Bound | / | | 51 | 5 | | | |
| | | | 51 | 9 | | | |
| | | | 47 55 | 6 8 | | | |
| GPI0111 DUP Target Range - Lower Bound Upper Bound | / | | 84 | 6 | | | |
| | | | 84 | 4 | | | |
| | | | 79 89 | 4 6 | | | |
| GPI0131 DUP Target Range - Lower Bound Upper Bound | / | | 216 | 5 | | | |
| | | | 218 | 6 | | | |
| | | | 205 229 | 4 7 | | | |

DUPLICATES



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 Account: TNTMIN

Project: Great Pyramid

QC CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | ME-XRF15d | | ME-MS85 | | ME-MS85 | |
|---|--------------------------|-----------|------------------------------|----------------------|---------|---------|--|
| | | Sn % 0.01 | Sn ppm 1 | Sn ppm 1 | W ppm 1 | | |
| GPI0144 DUP Target Range - Lower Bound Upper Bound | | | 700 784 704 780 | 7 9 7 9 | | | |
| GPI0164 DUP Target Range - Lower Bound Upper Bound | | | 1630 1610 1540 1700 | 17 17 15 19 | | | |
| GPI0178 DUP Target Range - Lower Bound Upper Bound | | | 509 465 462 512 | 14 15 13 16 | | | |
| GPI0198 DUP Target Range - Lower Bound Upper Bound | | | 285 299 276 308 | 15 15 13 17 | | | |
| GPI0211 DUP Target Range - Lower Bound Upper Bound | | | 1260 1150 1145 1265 | 27 25 24 28 | | | |
| GPI0231 DUP Target Range - Lower Bound Upper Bound | | | 20 20 18 22 | 3 3 2 4 | | | |
| GPI0245 DUP Target Range - Lower Bound Upper Bound | | | 3460 3450 3280 3630 | 9 9 8 10 | | | |
| GPI0265 DUP Target Range - Lower Bound Upper Bound | | | 14 16 13 17 | 4 4 3 5 | | | |

DUPLICATES

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



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Project: Great Pyramid

QC CERTIFICATE OF ANALYSIS BU18231823

| Sample Description | Method Analyte Units LOD | ME: XRF15d Sn % 0.01 | ME: MS85 Sn ppm 1 | ME: MS85 W ppm 1 |
|--|--------------------------|--------------------------------|----------------------|------------------|
| GPI0279 DUP Target Range - Lower Bound Upper Bound | | | 45 47 43 49 | 4 5 3 6 |
| ORIGINAL DUP Target Range - Lower Bound Upper Bound | | 0.02 <0.01 <0.01 0.02 | | |
| ORIGINAL DUP Target Range - Lower Bound Upper Bound | | 0.56 0.58 0.55 0.59 | | |
| DUPLICATES | | | | |



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Project: Great Pyramid

QC CERTIFICATE OF ANALYSIS BU18231823

| CERTIFICATE COMMENTS | |
|---|--|
| <p>Applies to Method:</p> <p>Applies to Method:</p> | <p>LABORATORY ADDRESSES</p> <p>Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 116 Delta Street, Geebung, QLD 4034, Australia ME- MS85</p> <p>Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. CRU- 21 LEV- 01 LOG- 22 ME- XRF15d PUL- 31b PUL- QC WEI- 21</p> |

Appendix 4 Core recovery data

Drill Core Recovery & RQD Log

| Hole_ID | From | To | Interval | Measured | Recovery% | Lengths>10cm | RQD % |
|----------|-------|-------|----------|----------|-----------|--------------|--------|
| 18GPD001 | 0.00 | 1.50 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18GPD001 | 1.50 | 2.40 | 0.90 | 0.70 | 77.78 | 0.00 | 0.00 |
| 18GPD001 | 2.40 | 3.10 | 0.70 | 0.70 | 100.00 | 0.40 | 57.14 |
| 18GPD001 | 3.10 | 4.00 | 0.90 | 0.80 | 88.89 | 0.42 | 46.67 |
| 18GPD001 | 4.00 | 4.50 | 0.50 | 0.50 | 100.00 | 0.20 | 40.00 |
| 18GPD001 | 4.50 | 5.40 | 0.90 | 0.40 | 44.44 | 0.00 | 0.00 |
| 18GPD001 | 5.40 | 6.10 | 0.70 | 0.60 | 85.71 | 0.40 | 57.14 |
| 18GPD001 | 6.10 | 7.00 | 0.90 | 0.75 | 83.33 | 0.40 | 44.44 |
| 18GPD001 | 7.00 | 8.70 | 1.70 | 1.70 | 100.00 | 1.30 | 76.47 |
| 18GPD001 | 8.70 | 11.20 | 2.50 | 2.20 | 88.00 | 1.80 | 72.00 |
| 18GPD001 | 11.20 | 12.80 | 1.60 | 0.25 | 15.63 | 0.00 | 0.00 |
| 18GPD001 | 12.80 | 14.50 | 1.70 | 1.50 | 88.24 | 0.93 | 54.71 |
| 18GPD001 | 14.50 | 15.80 | 1.30 | 1.20 | 92.31 | 0.75 | 57.69 |
| 18GPD001 | 15.80 | 16.50 | 0.70 | 0.60 | 85.71 | 0.00 | 0.00 |
| 18GPD001 | 16.50 | 17.50 | 1.00 | 0.90 | 90.00 | 0.40 | 40.00 |
| 18GPD001 | 17.50 | 20.20 | 2.70 | 2.60 | 96.30 | 1.98 | 73.33 |
| 18GPD001 | 20.20 | 20.50 | 0.30 | 0.20 | 66.67 | 0.14 | 46.67 |
| 18GPD001 | 20.50 | 22.50 | 2.00 | 2.00 | 100.00 | 0.78 | 39.00 |
| 18GPD001 | 22.50 | 23.50 | 1.00 | 0.90 | 90.00 | 0.20 | 20.00 |
| 18GPD001 | 23.50 | 24.20 | 0.70 | 0.60 | 85.71 | 0.20 | 28.57 |
| 18GPD001 | 24.20 | 25.50 | 1.30 | 1.30 | 100.00 | 0.35 | 26.92 |
| 18GPD001 | 25.50 | 26.50 | 1.00 | 0.90 | 90.00 | 0.55 | 55.00 |
| 18GPD001 | 26.50 | 27.90 | 1.40 | 1.40 | 100.00 | 1.05 | 75.00 |
| 18GPD001 | 27.90 | 29.50 | 1.60 | 1.60 | 100.00 | 1.34 | 83.75 |
| 18GPD001 | 29.50 | 31.90 | 2.40 | 2.40 | 100.00 | 1.30 | 54.17 |
| 18GPD001 | 31.90 | 32.60 | 0.70 | 0.60 | 85.71 | 0.37 | 52.86 |
| 18GPD001 | 32.60 | 33.00 | 0.40 | 0.34 | 85.00 | 0.15 | 37.50 |
| 18GPD001 | 33.00 | 34.60 | 1.60 | 1.60 | 100.00 | 1.12 | 70.00 |
| 18GPD001 | 34.60 | 37.50 | 2.90 | 2.90 | 100.00 | 1.75 | 60.34 |
| 18GPD001 | 37.50 | 38.00 | 0.50 | 0.45 | 90.00 | 0.12 | 24.00 |
| 18GPD001 | 38.00 | 41.10 | 3.10 | 3.10 | 100.00 | 1.90 | 61.29 |
| 18GPD001 | 41.10 | 44.20 | 3.10 | 3.00 | 96.77 | 1.64 | 52.90 |
| 18GPD001 | 44.20 | 47.30 | 3.10 | 3.10 | 100.00 | 1.60 | 51.61 |
| 18GPD001 | 47.30 | 48.90 | 1.60 | 1.60 | 100.00 | 0.69 | 43.13 |
| 18GPD001 | 48.90 | 50.10 | 1.20 | 1.10 | 91.67 | 0.33 | 27.50 |
| 18GPD001 | 50.10 | 52.20 | 2.10 | 2.10 | 100.00 | 0.95 | 45.24 |
| 18GPD001 | 52.20 | 53.50 | 1.30 | 1.20 | 92.31 | 0.70 | 53.85 |
| 18GPD001 | 53.50 | 55.00 | 1.50 | 1.50 | 100.00 | 0.80 | 53.33 |
| 18GPD001 | 55.00 | 55.90 | 0.90 | 0.80 | 88.89 | 0.60 | 66.67 |
| 18GPD001 | 55.90 | 56.90 | 1.00 | 0.85 | 85.00 | 0.32 | 32.00 |
| 18GPD001 | 56.90 | 58.30 | 1.40 | 1.40 | 100.00 | 0.47 | 33.57 |
| 18GPD001 | 58.30 | 58.50 | 0.20 | 0.17 | 85.00 | 0.00 | 0.00 |
| 18GPD001 | 58.50 | 59.30 | 0.80 | 0.75 | 93.75 | 0.00 | 0.00 |
| 18GPD001 | 59.30 | 60.80 | 1.50 | 1.25 | 83.33 | 0.33 | 22.00 |
| 18GPD001 | 60.80 | 61.90 | 1.10 | 0.40 | 36.36 | 0.00 | 0.00 |
| 18GPD001 | 61.90 | 62.40 | 0.50 | 0.50 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 62.40 | 64.80 | 2.40 | 2.25 | 93.75 | 1.17 | 48.75 |
| 18GPD001 | 64.80 | 65.30 | 0.50 | 0.25 | 50.00 | 0.00 | 0.00 |
| 18GPD001 | 65.30 | 66.00 | 0.70 | 0.70 | 100.00 | 0.23 | 32.86 |
| 18GPD001 | 66.00 | 68.50 | 2.50 | 2.50 | 100.00 | 2.09 | 83.60 |
| 18GPD001 | 68.50 | 68.80 | 0.30 | 0.30 | 100.00 | 0.30 | 100.00 |
| 18GPD001 | 68.80 | 69.50 | 0.70 | 0.30 | 42.86 | 0.00 | 0.00 |
| 18GPD001 | 69.50 | 70.00 | 0.50 | 0.20 | 40.00 | 0.10 | 20.00 |

Drill Core Recovery & RQD Log

| | | | | | | | |
|----------|--------|--------|------|------|--------|------|-------|
| 18GPD001 | 70.00 | 70.50 | 0.50 | 0.30 | 60.00 | 0.13 | 26.00 |
| 18GPD001 | 70.50 | 71.20 | 0.70 | 0.60 | 85.71 | 0.33 | 47.14 |
| 18GPD001 | 71.20 | 71.60 | 0.40 | 0.35 | 87.50 | 0.12 | 30.00 |
| 18GPD001 | 71.60 | 74.20 | 2.60 | 2.35 | 90.38 | 1.10 | 42.31 |
| 18GPD001 | 74.20 | 75.50 | 1.30 | 1.20 | 92.31 | 0.28 | 21.54 |
| 18GPD001 | 75.50 | 76.00 | 0.50 | 0.40 | 80.00 | 0.00 | 0.00 |
| 18GPD001 | 76.00 | 76.30 | 0.30 | 0.30 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 76.30 | 77.00 | 0.70 | 0.65 | 92.86 | 0.00 | 0.00 |
| 18GPD001 | 77.00 | 78.20 | 1.20 | 0.80 | 66.67 | 0.20 | 16.67 |
| 18GPD001 | 78.20 | 79.00 | 0.80 | 0.30 | 37.50 | 0.00 | 0.00 |
| 18GPD001 | 79.00 | 79.50 | 0.50 | 0.15 | 30.00 | 0.00 | 0.00 |
| 18GPD001 | 79.50 | 80.50 | 1.00 | 0.40 | 40.00 | 0.00 | 0.00 |
| 18GPD001 | 80.50 | 80.80 | 0.30 | 0.30 | 100.00 | 0.18 | 60.00 |
| 18GPD001 | 80.80 | 81.10 | 0.30 | 0.22 | 73.33 | 0.00 | 0.00 |
| 18GPD001 | 81.10 | 81.50 | 0.40 | 0.30 | 75.00 | 0.10 | 25.00 |
| 18GPD001 | 81.50 | 82.00 | 0.50 | 0.40 | 80.00 | 0.00 | 0.00 |
| 18GPD001 | 82.00 | 82.70 | 0.70 | 0.70 | 100.00 | 0.12 | 17.14 |
| 18GPD001 | 82.70 | 84.40 | 1.70 | 1.40 | 82.35 | 0.45 | 26.47 |
| 18GPD001 | 84.40 | 86.50 | 2.10 | 2.00 | 95.24 | 1.27 | 60.48 |
| 18GPD001 | 86.50 | 89.50 | 3.00 | 2.90 | 96.67 | 1.65 | 55.00 |
| 18GPD001 | 89.50 | 91.80 | 2.30 | 2.50 | 108.70 | 0.00 | 0.00 |
| 18GPD001 | 91.80 | 94.80 | 3.00 | 2.80 | 93.33 | 1.60 | 53.33 |
| 18GPD001 | 94.80 | 96.00 | 1.20 | 1.20 | 100.00 | 0.36 | 30.00 |
| 18GPD001 | 96.00 | 96.90 | 0.90 | 0.85 | 94.44 | 0.45 | 50.00 |
| 18GPD001 | 96.90 | 98.50 | 1.60 | 1.55 | 96.88 | 1.10 | 68.75 |
| 18GPD001 | 98.50 | 100.10 | 1.60 | 1.60 | 100.00 | 1.01 | 63.13 |
| 18GPD001 | 100.10 | 101.50 | 1.40 | 1.30 | 92.86 | 0.83 | 59.29 |
| 18GPD001 | 101.50 | 103.30 | 1.80 | 1.80 | 100.00 | 1.00 | 55.56 |
| 18GPD001 | 103.30 | 104.20 | 0.90 | 0.70 | 77.78 | 0.00 | 0.00 |
| 18GPD001 | 104.20 | 105.60 | 1.40 | 1.35 | 96.43 | 0.78 | 55.71 |
| 18GPD001 | 105.60 | 107.10 | 1.50 | 1.40 | 93.33 | 0.64 | 42.67 |
| 18GPD001 | 107.10 | 107.90 | 0.80 | 0.80 | 100.00 | 0.13 | 16.25 |
| 18GPD001 | 107.90 | 108.70 | 0.80 | 0.35 | 43.75 | 0.00 | 0.00 |
| 18GPD001 | 108.70 | 109.60 | 0.90 | 0.70 | 77.78 | 0.20 | 22.22 |
| 18GPD001 | 109.60 | 110.80 | 1.20 | 1.05 | 87.50 | 0.48 | 40.00 |
| 18GPD001 | 110.80 | 111.80 | 1.00 | 1.00 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 111.80 | 113.20 | 1.40 | 1.25 | 89.29 | 0.00 | 0.00 |
| 18GPD001 | 113.20 | 114.60 | 1.40 | 1.30 | 92.86 | 0.25 | 17.86 |
| 18GPD001 | 114.60 | 115.60 | 1.00 | 0.95 | 95.00 | 0.00 | 0.00 |
| 18GPD001 | 115.60 | 116.10 | 0.50 | 0.40 | 80.00 | 0.00 | 0.00 |
| 18GPD001 | 116.10 | 117.50 | 1.40 | 0.60 | 42.86 | 0.00 | 0.00 |
| 18GPD001 | 117.50 | 118.00 | 0.50 | 0.30 | 60.00 | 0.00 | 0.00 |
| 18GPD001 | 118.00 | 118.10 | 0.10 | 0.10 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 118.10 | 118.60 | 0.50 | 0.20 | 40.00 | 0.00 | 0.00 |
| 18GPD001 | 118.60 | 119.10 | 0.50 | 0.20 | 40.00 | 0.00 | 0.00 |
| 18GPD001 | 119.10 | 120.00 | 0.90 | 0.50 | 55.56 | 0.00 | 0.00 |
| 18GPD001 | 120.00 | 120.50 | 0.50 | 0.40 | 80.00 | 0.00 | 0.00 |
| 18GPD001 | 120.50 | 121.70 | 1.20 | 1.20 | 100.00 | 0.23 | 19.17 |
| 18GPD001 | 121.70 | 122.40 | 0.70 | 0.70 | 100.00 | 0.10 | 14.29 |
| 18GPD001 | 122.40 | 123.20 | 0.80 | 0.70 | 87.50 | 0.00 | 0.00 |
| 18GPD001 | 123.20 | 124.60 | 1.40 | 1.40 | 100.00 | 0.25 | 17.86 |
| 18GPD001 | 124.60 | 125.40 | 0.80 | 0.75 | 93.75 | 0.00 | 0.00 |
| 18GPD001 | 125.40 | 125.60 | 0.20 | 0.10 | 50.00 | 0.00 | 0.00 |
| 18GPD001 | 125.60 | 126.00 | 0.40 | 0.30 | 75.00 | 0.00 | 0.00 |

Drill Core Recovery & RQD Log

| | | | | | | | |
|----------|--------|--------|------|------|--------|------|--------|
| 18GPD001 | 126.00 | 126.50 | 0.50 | 0.40 | 80.00 | 0.10 | 20.00 |
| 18GPD001 | 126.50 | 126.70 | 0.20 | 0.20 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 126.70 | 127.80 | 1.10 | 0.95 | 86.36 | 0.28 | 25.45 |
| 18GPD001 | 127.80 | 128.40 | 0.60 | 0.50 | 83.33 | 0.00 | 0.00 |
| 18GPD001 | 128.40 | 128.80 | 0.40 | 0.15 | 37.50 | 0.00 | 0.00 |
| 18GPD001 | 128.80 | 129.20 | 0.40 | 0.40 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 129.20 | 130.70 | 1.50 | 1.50 | 100.00 | 0.60 | 40.00 |
| 18GPD001 | 130.70 | 131.60 | 0.90 | 0.70 | 77.78 | 0.00 | 0.00 |
| 18GPD001 | 131.60 | 134.30 | 2.70 | 2.70 | 100.00 | 1.50 | 55.56 |
| 18GPD001 | 134.30 | 134.90 | 0.60 | 0.15 | 25.00 | 0.00 | 0.00 |
| 18GPD001 | 134.90 | 135.40 | 0.50 | 0.10 | 20.00 | 0.00 | 0.00 |
| 18GPD001 | 135.40 | 137.50 | 2.10 | 2.10 | 100.00 | 1.05 | 50.00 |
| 18GPD001 | 137.50 | 139.00 | 1.50 | 1.50 | 100.00 | 0.47 | 31.33 |
| 18GPD001 | 139.00 | 140.40 | 1.40 | 1.30 | 92.86 | 0.42 | 30.00 |
| 18GPD001 | 140.40 | 140.60 | 0.20 | 0.15 | 75.00 | 0.00 | 0.00 |
| 18GPD001 | 140.60 | 141.80 | 1.20 | 1.00 | 83.33 | 0.00 | 0.00 |
| 18GPD001 | 141.80 | 142.60 | 0.80 | 0.80 | 100.00 | 0.11 | 13.75 |
| 18GPD001 | 142.60 | 145.50 | 2.90 | 2.90 | 100.00 | 1.27 | 43.79 |
| 18GPD001 | 145.50 | 146.70 | 1.20 | 1.15 | 95.83 | 0.00 | 0.00 |
| 18GPD001 | 146.70 | 148.60 | 1.90 | 1.90 | 100.00 | 0.90 | 47.37 |
| 18GPD001 | 148.60 | 151.60 | 3.00 | 2.60 | 86.67 | 1.30 | 43.33 |
| 18GPD001 | 151.60 | 152.50 | 0.90 | 0.70 | 77.78 | 0.00 | 0.00 |
| 18GPD001 | 152.50 | 153.30 | 0.80 | 0.80 | 100.00 | 0.26 | 32.50 |
| 18GPD001 | 153.30 | 154.60 | 1.30 | 1.20 | 92.31 | 0.65 | 50.00 |
| 18GPD001 | 154.60 | 156.50 | 1.90 | 1.90 | 100.00 | 0.98 | 51.58 |
| 18GPD001 | 156.50 | 157.30 | 0.80 | 0.80 | 100.00 | 0.30 | 37.50 |
| 18GPD001 | 157.30 | 158.50 | 1.20 | 1.00 | 83.33 | 0.45 | 37.50 |
| 18GPD001 | 158.50 | 160.40 | 1.90 | 1.90 | 100.00 | 1.00 | 52.63 |
| 18GPD001 | 160.40 | 161.40 | 1.00 | 1.00 | 100.00 | 0.25 | 25.00 |
| 18GPD001 | 161.40 | 162.40 | 1.00 | 0.80 | 80.00 | 0.11 | 11.00 |
| 18GPD001 | 162.40 | 162.70 | 0.30 | 0.25 | 83.33 | 0.10 | 33.33 |
| 18GPD001 | 162.70 | 163.00 | 0.30 | 0.25 | 83.33 | 0.00 | 0.00 |
| 18GPD001 | 163.00 | 163.50 | 0.50 | 0.50 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 163.50 | 163.90 | 0.40 | 0.40 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 163.90 | 164.60 | 0.70 | 0.70 | 100.00 | 0.11 | 15.71 |
| 18GPD001 | 164.60 | 165.60 | 1.00 | 0.90 | 90.00 | 0.30 | 30.00 |
| 18GPD001 | 165.60 | 166.20 | 0.60 | 0.60 | 100.00 | 0.10 | 16.67 |
| 18GPD001 | 166.20 | 166.70 | 0.50 | 0.50 | 100.00 | 0.20 | 40.00 |
| 18GPD001 | 166.70 | 166.90 | 0.20 | 0.15 | 75.00 | 0.00 | 0.00 |
| 18GPD001 | 166.90 | 167.50 | 0.60 | 0.50 | 83.33 | 0.10 | 16.67 |
| 18GPD001 | 167.50 | 168.60 | 1.10 | 1.10 | 100.00 | 0.40 | 36.36 |
| 18GPD001 | 168.60 | 169.50 | 0.90 | 0.70 | 77.78 | 0.00 | 0.00 |
| 18GPD001 | 169.50 | 170.10 | 0.60 | 0.60 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 170.10 | 170.60 | 0.50 | 0.50 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 170.60 | 171.50 | 0.90 | 0.85 | 94.44 | 0.35 | 38.89 |
| 18GPD001 | 171.50 | 173.30 | 1.80 | 1.80 | 100.00 | 1.08 | 60.00 |
| 18GPD001 | 173.30 | 175.20 | 1.90 | 1.90 | 100.00 | 1.04 | 54.74 |
| 18GPD001 | 175.20 | 176.50 | 1.30 | 1.20 | 92.31 | 0.56 | 43.08 |
| 18GPD001 | 176.50 | 177.80 | 1.30 | 1.30 | 100.00 | 1.10 | 84.62 |
| 18GPD001 | 177.80 | 179.10 | 1.30 | 1.30 | 100.00 | 0.64 | 49.23 |
| 18GPD001 | 179.10 | 180.40 | 1.30 | 1.30 | 100.00 | 1.30 | 100.00 |
| 18GPD001 | 180.40 | 181.30 | 0.90 | 0.90 | 100.00 | 0.65 | 72.22 |
| 18GPD001 | 181.30 | 182.50 | 1.20 | 1.20 | 100.00 | 1.20 | 100.00 |
| 18GPD001 | 182.50 | 185.50 | 3.00 | 2.95 | 98.33 | 2.10 | 70.00 |

Drill Core Recovery & RQD Log

| | | | | | | | |
|----------|--------|--------|------|------|--------|------|--------|
| 18GPD001 | 185.50 | 188.50 | 3.00 | 2.95 | 98.33 | 2.95 | 98.33 |
| 18GPD001 | 188.50 | 191.50 | 3.00 | 3.00 | 100.00 | 2.78 | 92.67 |
| 18GPD001 | 191.50 | 194.50 | 3.00 | 3.00 | 100.00 | 2.80 | 93.33 |
| 18GPD001 | 194.50 | 197.50 | 3.00 | 3.10 | 103.33 | 2.80 | 93.33 |
| 18GPD001 | 197.50 | 199.60 | 2.10 | 1.90 | 90.48 | 1.45 | 69.05 |
| 18GPD001 | 199.60 | 200.20 | 0.60 | 0.60 | 100.00 | 0.16 | 26.67 |
| 18GPD001 | 200.20 | 200.70 | 0.50 | 0.30 | 60.00 | 0.19 | 38.00 |
| 18GPD001 | 200.70 | 201.00 | 0.30 | 0.20 | 66.67 | 0.00 | 0.00 |
| 18GPD001 | 201.00 | 201.40 | 0.40 | 0.25 | 62.50 | 0.00 | 0.00 |
| 18GPD001 | 201.40 | 201.70 | 0.30 | 0.20 | 66.67 | 0.00 | 0.00 |
| 18GPD001 | 201.70 | 202.10 | 0.40 | 0.35 | 87.50 | 0.00 | 0.00 |
| 18GPD001 | 202.10 | 203.10 | 1.00 | 0.95 | 95.00 | 0.17 | 17.00 |
| 18GPD001 | 203.10 | 203.90 | 0.80 | 0.70 | 87.50 | 0.00 | 0.00 |
| 18GPD001 | 203.90 | 205.40 | 1.50 | 1.50 | 100.00 | 1.07 | 71.33 |
| 18GPD001 | 205.40 | 206.90 | 1.50 | 1.40 | 93.33 | 1.15 | 76.67 |
| 18GPD001 | 206.90 | 207.20 | 0.30 | 0.30 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 207.20 | 207.40 | 0.20 | 0.30 | 150.00 | 0.00 | 0.00 |
| 18GPD001 | 207.40 | 208.30 | 0.90 | 0.80 | 88.89 | 0.38 | 42.22 |
| 18GPD001 | 208.30 | 208.60 | 0.30 | 0.25 | 83.33 | 0.00 | 0.00 |
| 18GPD001 | 208.60 | 209.10 | 0.50 | 0.25 | 50.00 | 0.00 | 0.00 |
| 18GPD001 | 209.10 | 209.60 | 0.50 | 0.40 | 80.00 | 0.00 | 0.00 |
| 18GPD001 | 209.60 | 210.10 | 0.50 | 0.40 | 80.00 | 0.15 | 30.00 |
| 18GPD001 | 210.10 | 211.80 | 1.70 | 1.70 | 100.00 | 1.10 | 64.71 |
| 18GPD001 | 211.80 | 213.90 | 2.10 | 2.10 | 100.00 | 1.36 | 64.76 |
| 18GPD001 | 213.90 | 215.10 | 1.20 | 1.20 | 100.00 | 0.42 | 35.00 |
| 18GPD001 | 215.10 | 215.80 | 0.70 | 0.60 | 85.71 | 0.32 | 45.71 |
| 18GPD001 | 215.80 | 216.80 | 1.00 | 1.00 | 100.00 | 0.50 | 50.00 |
| 18GPD001 | 216.80 | 217.90 | 1.10 | 1.10 | 100.00 | 0.87 | 79.09 |
| 18GPD001 | 217.90 | 218.90 | 1.00 | 1.20 | 120.00 | 0.55 | 55.00 |
| 18GPD001 | 218.90 | 220.50 | 1.60 | 1.30 | 81.25 | 0.55 | 34.38 |
| 18GPD001 | 220.50 | 221.30 | 0.80 | 0.70 | 87.50 | 0.00 | 0.00 |
| 18GPD001 | 221.30 | 222.00 | 0.70 | 0.70 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 222.00 | 224.40 | 2.40 | 2.25 | 93.75 | 1.48 | 61.67 |
| 18GPD001 | 224.40 | 227.50 | 3.10 | 2.10 | 67.74 | 2.50 | 80.65 |
| 18GPD001 | 227.50 | 229.00 | 1.50 | 1.60 | 106.67 | 1.09 | 72.67 |
| 18GPD001 | 229.00 | 232.00 | 3.00 | 3.00 | 100.00 | 2.40 | 80.00 |
| 18GPD001 | 232.00 | 233.50 | 1.50 | 1.50 | 100.00 | 1.05 | 70.00 |
| 18GPD001 | 233.50 | 236.00 | 2.50 | 2.50 | 100.00 | 1.86 | 74.40 |
| 18GPD001 | 236.00 | 237.20 | 1.20 | 1.01 | 84.17 | 0.40 | 33.33 |
| 18GPD001 | 237.20 | 238.60 | 1.40 | 1.40 | 100.00 | 0.55 | 39.29 |
| 18GPD001 | 238.60 | 239.40 | 0.80 | 0.70 | 87.50 | 0.12 | 15.00 |
| 18GPD001 | 239.40 | 240.50 | 1.10 | 1.10 | 100.00 | 0.31 | 28.18 |
| 18GPD001 | 240.50 | 241.50 | 1.00 | 1.00 | 100.00 | 0.35 | 35.00 |
| 18GPD001 | 241.50 | 242.00 | 0.50 | 0.45 | 90.00 | 0.17 | 34.00 |
| 18GPD001 | 242.00 | 242.30 | 0.30 | 0.20 | 66.67 | 0.00 | 0.00 |
| 18GPD001 | 242.30 | 243.80 | 1.50 | 1.35 | 90.00 | 0.52 | 34.67 |
| 18GPD001 | 243.80 | 245.10 | 1.30 | 1.10 | 84.62 | 0.14 | 10.77 |
| 18GPD001 | 245.10 | 247.30 | 2.20 | 2.10 | 95.45 | 1.65 | 75.00 |
| 18GPD001 | 247.30 | 248.50 | 1.20 | 1.10 | 91.67 | 0.84 | 70.00 |
| 18GPD001 | 248.50 | 250.50 | 2.00 | 2.00 | 100.00 | 0.82 | 41.00 |
| 18GPD001 | 250.50 | 252.50 | 2.00 | 1.85 | 92.50 | 1.00 | 50.00 |
| 18GPD001 | 252.50 | 254.50 | 2.00 | 2.00 | 100.00 | 1.10 | 55.00 |
| 18GPD001 | 254.50 | 254.80 | 0.30 | 0.40 | 133.33 | 0.33 | 110.00 |
| 18GPD001 | 254.80 | 257.50 | 2.70 | 2.70 | 100.00 | 2.08 | 77.04 |

Drill Core Recovery & RQD Log

| | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|-------|
| 18GPD001 | 257.50 | 258.50 | 1.00 | 1.00 | 100.00 | 0.45 | 45.00 |
| 18GPD001 | 258.50 | 260.50 | 2.00 | 1.95 | 97.50 | 1.70 | 85.00 |
| 18GPD001 | 260.50 | 262.00 | 1.50 | 1.40 | 93.33 | 0.83 | 55.33 |
| 18GPD001 | 262.00 | 263.60 | 1.60 | 1.70 | 106.25 | 1.19 | 74.37 |
| 18GPD001 | 263.60 | 266.40 | 2.80 | 2.80 | 100.00 | 1.46 | 52.14 |
| 18GPD001 | 266.40 | 269.50 | 3.10 | 3.00 | 96.77 | 2.44 | 78.71 |
| 18GPD001 | 269.50 | 270.90 | 1.40 | 1.45 | 103.57 | 1.14 | 81.43 |
| 18GPD001 | 270.90 | 274.00 | 3.10 | 3.10 | 100.00 | 2.73 | 88.06 |
| 18GPD001 | 274.00 | 277.00 | 3.00 | 3.20 | 106.67 | 2.52 | 84.00 |
| 18GPD001 | 277.00 | 280.10 | 3.10 | 3.00 | 96.77 | 2.60 | 83.87 |
| 18GPD001 | 280.10 | 282.80 | 2.70 | 2.60 | 96.30 | 0.80 | 29.63 |
| 18GPD001 | 282.80 | 284.50 | 1.70 | 1.70 | 100.00 | 0.28 | 16.47 |
| 18GPD001 | 284.50 | 287.50 | 3.00 | 3.00 | 100.00 | 0.47 | 15.67 |
| 18GPD001 | 287.50 | 288.50 | 1.00 | 1.00 | 100.00 | 0.74 | 74.00 |
| 18GPD001 | 288.50 | 290.50 | 2.00 | 2.00 | 100.00 | 1.73 | 86.50 |
| 18GPD001 | 290.50 | 292.10 | 1.60 | 1.60 | 100.00 | 1.40 | 87.50 |
| 18GPD001 | 292.10 | 295.10 | 3.00 | 3.00 | 100.00 | 2.50 | 83.33 |
| 18GPD001 | 295.10 | 296.10 | 1.00 | 1.00 | 100.00 | 0.51 | 51.00 |
| 18GPD001 | 296.10 | 297.50 | 1.40 | 1.40 | 100.00 | 1.14 | 81.43 |
| 18GPD001 | 297.50 | 297.80 | 0.30 | 0.34 | 113.33 | 0.28 | 93.33 |
| 18GPD001 | 297.80 | 299.50 | 1.70 | 1.60 | 94.12 | 1.41 | 82.94 |
| 18GPD001 | 299.50 | 301.00 | 1.50 | 1.50 | 100.00 | 1.25 | 83.33 |
| 18GPD001 | 301.00 | 302.50 | 1.50 | 1.45 | 96.67 | 0.88 | 58.67 |
| 18GPD001 | 302.50 | 305.50 | 3.00 | 2.90 | 96.67 | 2.30 | 76.67 |
| 18GPD001 | 305.50 | 308.50 | 3.00 | 3.10 | 103.33 | 1.52 | 50.67 |
| 18GPD001 | 308.50 | 310.90 | 2.40 | 2.40 | 100.00 | 0.82 | 34.17 |
| 18GPD001 | 310.90 | 312.10 | 1.20 | 1.20 | 100.00 | 0.43 | 35.83 |
| 18GPD001 | 312.10 | 314.10 | 2.00 | 1.75 | 87.50 | 1.50 | 75.00 |
| 18GPD001 | 314.10 | 314.70 | 0.60 | 0.60 | 100.00 | 0.00 | 0.00 |
| 18GPD001 | 314.70 | 315.70 | 1.00 | 1.00 | 100.00 | 0.30 | 30.00 |
| 18GPD001 | 315.70 | 317.40 | 1.70 | 1.70 | 100.00 | 1.46 | 85.88 |
| 18GPD001 | 317.40 | 320.50 | 3.10 | 3.10 | 100.00 | 2.15 | 69.35 |
| | | | 320.50 | 296.48 | 92.5% | 154.70 | 48.3% |
| Run average | | | 1.30 | | | | |

Appendix 5 Geology logs

| Hole_ID | From (m) | To (m) | Lith1 | Lith2 | Sulphide % | Primary Alth | Description |
|----------|----------|--------|-------|-------|------------|--------------|--|
| 18GPD001 | 0.00 | 1.50 | | | | | No core recovery |
| 18GPD001 | 1.50 | 14.60 | SST | | 0 | SIL | Well-sorted mg qtz sst; pale grey ~bleached with intense qtz veining 1-5mm. >50vn/m Some coarser less well-sorted bands from 10-12m. Moderately silicified. Strong fracture and vein oxidation. |
| 18GPD001 | 14.60 | 23.10 | SST | | 0 | SIL | fg-mg well-sorted qtz sst; pale grey ~bleached. Some coarser bases to beds. Veining less intense in finer sst but overall >50vn/m. Moderately silicified. Strong fracture and vein oxidation. |
| 18GPD001 | 23.10 | 26.10 | SST | | 0 | SIL | As above but fg sst. Some pitting and white spotting. Strong fracture and vein oxidation. |
| 18GPD001 | 26.10 | 49.00 | SST | | 0 | SIL | Predominantly mg qtz sst; bleached pale grey to grey with some fg-vfg tops to beds showing laminations (S1?). Intense veing as before. Moderately silicified. Strong fracture and vein oxidation. |
| 18GPD001 | 49.00 | 50.00 | SST | | 0 | SIL | Some coarser sst 49-50m; mg-cg sst, qtz rich and indurated. |
| 18GPD001 | 50.00 | 53.70 | SST | | 0 | SIL | Mg qtz-rch sst; grey almost glassy, abundant veining. Strong fracture and vein oxidation. |
| 18GPD001 | 53.70 | 59.55 | MD | | 0 | | Green-dk green mg dolerite. Relatively fresh with minor oxidation. |
| 18GPD001 | 59.55 | 68.50 | SST | | 0 | SIL | Predominantly mg qtz sst; bleached pale grey to grey; Moderate veining as before. Moderately silicified. Reduced fracture and vein oxidation. Tarnished pyrite present as fracture vein fill at 60.2m. Pyrite present in open veining from here on. Vein intensity 20-50 vn/m |
| 18GPD001 | 68.50 | 70.50 | SST | | 0 | | Total water loss at 68.5m with strong oxidation in broken core. |
| 18GPD001 | 70.50 | 80.00 | SST | | 0-1 | | grey-green fg sst with some narrower mg intervals; abundant pitting and yellow/white spotting; decrease in veining frequency through this interval from 20-50 to <20 vn/m. Decreasing fracture oxidation. |
| 18GPD001 | 80.00 | 90.50 | SSL | SST | 0-1 | | Ssl to vfg sst with some fg; light grey-green; absence of open fracture veining; some strong oxidation and liesegang rings at 82-83 with Mn-stainign but generally less oxidized through this interval. |
| 18GPD001 | 90.50 | 96.00 | SST | | 0-1 | SIL | Intebded light grey-green fg and mg sst; Moderately silicified with light brown staining. Patches with increased veining but genreally minor open fill veins. |
| 18GPD001 | 96.00 | 109.50 | SST | SSL | 0-1 | | vfg-fg sst - ssl; light grey green; minor veining; strong pervaise Fe-staining 104-105 with liesegang rings. Clay gouge fault at 103.3-103.4m. |
| 18GPD001 | 109.50 | 121.00 | SST | | 1 | SIL | Grey fg sst with some mg intervals; Minor veining overall - some dark qtz vns (<1mm) and qtz-pyrite open vains (1-5mm). Moderate bleaching/silicification increasing dwohole. Fresh pyrite in fractures and in veins from 114m. Core very broken from 114 - 120.5m. |
| 18GPD001 | 121.00 | 130.00 | SST | | 2-3 | SIL | Predominantly pale grey to dark grey green mg sst with some fg; prominent light and dark banding in cm scale inplaces; Increased qtz-pyr veining (1-5mm) and silicification; pyrite on fracture surfaces; 2-3% sulphide through interval; pyr-sph veins at 121.4m and 123.4m; coarse cassiterite on fracture surface and in vuggy vein at 129.3 with pyrite and minor pyrhotite. |
| 18GPD001 | 130.00 | 162.00 | SST | | 0-1 | SIL | Predominantly mg sst with minor fg sst. Grey to dark grey green (chloritic?). Pale banding (softer material) on cm scale in places. Some ssl tops to beds. Weak to moderate silicification. Weak-moderate quartz veining, decreasing after 142.6. Qtz-pyr-cass vein at 140.1-140.2. Around 148m, veining in sst (high angle) cut off at contcat with ssl. Qtz veining in ssl // to S0/S1. Increased silicification and bleaching from 151m. Semi-pervasive silica flooding 150-153m. Increase in veining from 150m |
| 18GPD001 | 162.00 | 165.75 | SST | | 0-2 | SIL | Pale grey to grey mg sst; strong fe oxidation with liesegang rings; wk-mod qtz-fe veining. |
| 18GPD001 | 165.75 | 171.00 | SST | | 0-2 | SIL | Pale grey to grey mg>fg sst; wk-mod qtz-fe veining; some strong bleaching; minor qtz-pyr veining. Pitting in finer material. Vuggy veinin g at 166.3m with pyr/cpy/qtz fill. |
| 18GPD001 | 171.00 | 186.50 | SST | | 1-3 | SIL | Grey-green bleached/silicified mg>>fg qtz sst. Increased veining - qtz-pyr and pyr-asp-pyrrho-sphal veins and fractures. Increasing silicification down hole. 5-8mm qtz-pyr-asp-sph vn at 172.5 with purple fluorite. Coarse cassiterite on fractures at 180-181m. 1-3% sulphide. Weak-mod veining. |
| 18GPD001 | 186.50 | 191.60 | SST | | 2-4 | SIL | Predominantly mg qtz sst with some finer tops. Light grey to dark grey. Strongly silicified and bands of increased sulphide - pyr, asp, chalc, sphal. 2-4% sulphide. 190.1-191.6 10% pyrite, arsenopyrite in groundmass of sst. At 191.6, 2cm quartz-asp-wolf vein. Weak-moderate veining overall. |
| 18GPD001 | 191.60 | 248.00 | SST | | 1-4 | SIL | Grey to dark grey mg qtz sst. Some darker and lighter banding with lighter bleached sections mre intensely silicified. Moderate silicification overall; 5-15 vn/m through interval; qtz-pyr-asp vn with lesser cpy and some pyrrho. Increased sphalerite in vns lower in this section. 1-4% sulphide through this section, 5-10% sulphide 247-248m. |
| 18GPD001 | 248.00 | 254.00 | SST | SIL | 2-4 | SIL | Predominantly mg>fg sst; grey-green to dark grey-green; moderate to intense silicification (less in fg sections); increased veining 10-25 vn/m with qyz-pyr>asp,pyrrho. Minor sphal and some calcite in vns. |
| 18GPD001 | 254.00 | 256.20 | SST | | 2-4 | | As above but with pervasive silica flooding with pyr>pyrrho; brecciated |
| 18GPD001 | 256.20 | 263.80 | SSL | SST | 2-5 | | Interbedded ssl and fg sst. Grey-green to dark grey green; sst moderately silicified with wk-mod veining. 1-2% pyr/pyrrho. |
| 18GPD001 | 263.80 | 265.50 | SST | | 3-5 | SIL | fg grey sst with 3-5% pyr/pyrrho in vns and fractures; strongly silicified. |
| 18GPD001 | 265.50 | 270.20 | SST | SSL | 1-2 | SIL | very silicified grey-green mg sst with some SSL; 1-25 pyr-pyrrho>asp in veins and fractures |
| 18GPD001 | 270.20 | 274.20 | SSL | | 0-1 | | dark green sms/ssg> vfg-fg sst; no silicification and not much veining; chloritic; 0-1% sulphide |
| 18GPD001 | 274.20 | 279.80 | SST | | 1-2 | SIL | pale grey-green mg qtz sst with some finer darker tops; strong silicification and moderate qtz veining (20-50vn/m); 1-25 sulphide in veins as pyr/pyrrho. Some sphal at 278.8 and a small bleb of moly at 279.3m. |
| 18GPD001 | 279.80 | 296.60 | SSL | SST | 1 | | Interbedded ssl and fg sst. Grey-green to dark grey green; |
| 18GPD001 | 296.60 | 307.00 | SST | | 2-4 | | Predominantly pale grey to grey-green mg qtz sst with some cg sst. Very strong silicification, pervasie in parts. Increased veining intensity, >50/m, and disseminated sulphide content 1-3%. 298-300 - 2-4% pyr-pyrrhotite. Sphide-rich at 304.2 to 304.5 - 10% pyrite-arsenopyrite. Some qtz-pyr-calcite veining // S0. |
| 18GPD001 | 307.00 | 312.00 | SST | | 1 | | Grey - dark grey fg-mg sst, very silicified. Minor qtz veining - 5-10/m |
| 18GPD001 | 312.00 | 320.50 | SSL | SST | 1 | | Interbedded dark grey-black shale/siltstone with fg sst. Weak veinig in sst, not much veining in ssl. Qtz>>pyr/pyrrho in veins. Sst very silicified |

Appendix 6 Logging codes

Standard Logging Legend

Drilling Codes

| Hole Type | |
|-----------|---------------------|
| AC | Air Core |
| AG | Auger |
| BH | Blast Hole |
| DD | Diamond Drill Hole |
| GRC | RC Grade Control |
| RAB | Rotary Air Blast |
| RC | Reverse Circulation |
| VAC | Vacumm |
| TR | Trench Sample |
| UNK | Unknown |

| Collar Survey Method | |
|----------------------|---------------------------|
| CT | Compass and Tape |
| DG | Differential GPS sub 1m |
| GP | GPS Located |
| LG | Local Grid |
| RP | Relative position |
| SU | Surveyed but unknown type |
| TH | Theodilite |
| TO | Total Station |
| UK | Unknown |

| Downhole Survey | |
|-----------------|--------------------------|
| CL | Clinometer |
| CO | Measured From Rig Set Up |
| GY | Down Hole GYRO |
| SS | Single Shot |
| UK | Unknown but surveyed |

| Drill Type | |
|------------|-----------------------------------|
| AC | Air Core - unspecified |
| AC100 | Air Core - 100mm |
| AC85 | Air Core - 85mm |
| AUG | Auger |
| BQ | Diamond core - 36.5mm |
| BQ3 | Diamond core - 33.5mm |
| DD | Diamond core - unspecified |
| HQ | Diamond core - 63.5mm |
| HQ2 | Diamond core - 62.5mm |
| HQ3 | Diamond core - 61.1mm |
| NQ | Diamond core NQ |
| NQ2 | Diamond core - 47.6mm |
| NQ3 | Diamond core - 45.0mm |
| OH | Open Hole Percussion |
| PQ2 | Diamond core - 85mm |
| PQ3 | Diamond core - 83.1mm |
| RAB | Rotary Air Blast |
| RC | Reverse circulation - Unspecified |
| RC4_25 | Reverse circulation 4.25" |
| RC4_5 | Reverse circulation 4.5" |
| RC5 | Reverse circulation 5" |
| RC5_25 | Reverse circulation 5.25" |
| RC5_5 | Reverse circulation 5.5" |
| RC6 | Reverse circulation 6" |
| RC6_25 | Reverse circulation 6.25" |
| RC6_5 | Reverse circulation 6.5" |
| Unknown | Unknown |

Assay Codes

Field Preparation of Samples

| | |
|------------|---|
| AC_Spear | AC drilling - Spear Sample |
| AUG-80mesh | Auger (-80mesh) |
| Channel_4m | Channel Sampling - 4m comps |
| DD_Full | Diamond Drilling - Full core sample |
| DD_Half | Diamond Drilling - Half core sample |
| DD_Quarter | Diamond Drilling - Quarter core sample |
| DD_Sliver | Diamond Drilling - Half core sample |
| DD_Unk | Diamond Drilling - Unknown sample type |
| MMI | Mobile Metal Ions Soil Sample |
| RAB_Spear | RAB drilling - Spear Sample |
| RC_2Tier | RC drilling - 2 Tier Riffle Sample |
| RC_3Tier | RC drilling - 3 Tier Riffle Sample |
| RC_Spear | RC drilling - Spear Sample |
| RC_Unkn | RC drilling - Unspecified sample method |
| Rockchip | Rockchip |
| Soil | Soil - Fraction unknown |
| SS-80mesh | Stream (-80mesh) |
| Unknown | Unknown |

Unit of analysis

| | |
|-----|------------------|
| ppm | Part per million |
| ppb | Part per billion |
| pc | percent |

Laboratory

| | |
|--|--|
| | |
| | |

Sample Type

| | |
|------|------------------|
| Orig | Original sample |
| Chck | Check Sample |
| Dupl | Duplicate Sample |
| NS | No Sample |

Surface Geochemistry Sample Type

Sample Type

| | |
|----|--------------------------------|
| AU | Auger |
| BL | Bleg |
| CC | Channel Cut Sample |
| DP | Dump Sample |
| FL | Float Sample |
| MM | Mobile Metal Ions Soil Samples |
| PT | Point Location |
| RK | Rockchip sample |
| SH | Shaft |
| SL | Soil Sample |
| SS | Stream Sediment |

Resplit Descriptors

| | |
|---|-----------------------------|
| Y | Sample has been resplit |
| N | Sample has not been resplit |
| L | Lab resample |

Repeat Descriptors

| | |
|-----------|--------------------------------|
| 0 | Default |
| 1,2,3 etc | numeric for instance of repeat |

Standard Logging Codes Legend

| GENERIC TYPE | | ALTERATION STYLE | | GRAIN SIZE | | COLOUR | |
|--------------|--------------------------|------------------|---------------------------|------------|-----------------------------------|--------|--------|
| ag | argillic | d | disseminated | bd | bouldery (>256mm) | gy | grey |
| amp | amphibole | m | massive | co | cobbly (16-256mm) | bn | brown |
| as | aluminosilicate | v | veins | pb | pebbly (2-16mm) | gn | green |
| bio | biotite alteration | s | stockworks | vc | very coarse grained (1-2mm) | pi | pink |
| ble | bleached, bleaching | l | lodes | cg | coarse grained (0.5-1.0mm) | bk | black |
| chl | chlorite alteration | p | patches, pods | mg | medium grained (0.25-0.5mm) | or | orange |
| cly | clay/argillic alteration | f | foliation controlled | fg | fine grained (0.06-0.25mm) | pu | purple |
| crb | carbonate alteration | b | bands, bedding controlled | cf | very fine grained (0.03 - 0.06mm) | rd | red |
| cs | calc-silicate | | | mf | 0.004-0.03mm (fine - med Ssl) | bu | blue |
| epd | epidote | | | ef | <0.004mm (mudstone) | wh | white |
| goe | goethite alteration | | | | | yl | yellow |
| hem | hematitic | | | | | | |
| K | potassic (kf-bi) | | | | | L | Light |
| mg | magnesium | | | | | D | Dark |
| mnt | magnetite | | | | | | |
| Na | sodic | | | | | | |
| Nc | sodic-calcic | | | | | | |
| pc | phyllic (mi-si-py) | | | | | | |
| pr | porphyritic (ch-ep-cb) | | | | | | |
| ser | sericite alteration | | | | | | |
| sil | silica alteration | | | | | | |
| Slf | sulphidisation | | | | | | |
| srp | serpentinised | | | | | | |
| tlc | Talc | | | | | | |
| tor | tourmaline alteration | | | | | | |

| INTENSITY | | H2O | | SAMPLE QUALITY | |
|-----------|------------------|-----|----------|----------------|---------------------|
| I | intense (>50%) | d | dry | ns | poor recovery |
| S | strong (30-50%) | m | moist | lc | low contamination |
| M | moderate (5-30%) | w | wet | hc | high contamination |
| W | weak (1-5%) | i | injected | is | insufficient sample |
| T | trace | | | nc | no contamination |
| V | variable | | | | |

WEATHERING AND REGOLITH LOGGING :LEGEND

| Weathering | Regolith | Regolith OverPrint |
|--|---|------------------------|
| | <input type="checkbox"/> transported cover | bl bleached |
| <input type="checkbox"/> ew extremely weathered | <input type="checkbox"/> Rlt laterite | cc calcreted |
| <input type="checkbox"/> hw highly weathered | <input type="checkbox"/> Rcy clay zone (plasmic zone) | cp pedogenic carbonate |
| <input type="checkbox"/> mw moderately weathered | <input type="checkbox"/> Rsp saprolite (undiff) | fc ferricreted |
| | <input type="checkbox"/> Rsu upper saprolite | go goethitic |
| <input type="checkbox"/> ww weakly weathered | <input type="checkbox"/> Rsl lower saprolite | gp gypsiferous |
| <input type="checkbox"/> fr fresh | <input type="checkbox"/> Rsr sapprock | he haematitic |
| <input type="checkbox"/> fx fracture oxidation | <input type="checkbox"/> Fr fresh rock | hp hardpanised |
| | | in indurated |
| | | ka kaolinitic |
| | | le leached |
| | | mg magnesite rich |
| | | mn manganiferous |
| | | mo mottled |
| | | no nontronitic |
| | | re reduced horizon |
| | | sc silcreted |
| | | si silicified |

Standard Logging Legend

| IGNEOUS / METAMORPHIC | | TEXTURE | SEDIMENTRY | | STRUCTURE | | |
|-----------------------|----------------|---------|-----------------|-----|------------------|-----|--------------------|
| aci | acicular | pil | pillowed | agg | agglomeratic | aug | gaugen textured |
| adc | accumulate | poi | poikiloblastic | bed | bedded | bou | boudinaged |
| amy | amygdaloidal | pct | polymictic | cla | clastic | bxh | brecciated |
| ana | anastomosing | por | porphyritic | cgl | conglomeritic | cbx | crackle brecciated |
| aph | aphanitic | pob | porphyroblastic | xbd | crossbedded | clv | cleaved |
| apc | aphyric | rcx | recrystallised | gbd | graded-bedded | crn | crenulated |
| apl | aplitic | rel | relict | lbd | interbedded | cta | contorted |
| asb | asbestiform | sch | schistose | lay | layered | cta | cataclastic |
| blf | bladed | spx | spinfex | len | lenticular | fau | faulted |
| blk | blocky | tuf | tuffaceous | mxx | matrix supported | fid | folded |
| cry | crystalline | ves | vesicular | prs | porous | fol | foliated |
| cum | cumalite | vit | vitric | rip | rippled | frc | fracture |
| dec | decussate | vug | vuggy | sor | sorted | iso | isoclinal |
| dir | doleritic | xen | xenoblastic | stg | sorting good | jnt | jointed |
| equ | equigranular | | | str | sorting moderate | lin | lineated |
| fib | fibrous | | | stp | sorting poor | mas | massive |
| fib | flow banded | | | tur | turbiditic | myl | mylonitic |
| grs | gneissic | | | uns | unsorted | phy | phyllitic |
| grn | granitic | | | fos | fossiliferous | ptg | ptygmatic |
| grb | granoblastic | | | | | sch | schistose |
| grp | granophyric | | | | | scl | schlieren |
| inq | inequigranular | | | | | shd | sheared |
| lam | laminated | | | | | sls | slickensided |
| lap | lapilli | | | | | rod | rodged |
| lpd | lepidoblastic | | | | | | |
| mct | mesocumulate | | | | | | |
| mig | migmatic | | | | | | |
| mct | monomictic | | | | | | |
| oct | oligomictic | | | | | | |
| oph | ophitic | | | | | | |
| oct | orthocumulate | | | | | | |
| peg | pegmatitic | | | | | | |
| ptc | perthitic | | | | | | |

| REGOLITH | | VEINING | | VEIN TEXTURE | |
|----------|--------------------|---------|------------------------------|--------------|----------------------------|
| ble | bleached | vl | vein on lithologic contact | sac | saccharoidal |
| cem | cemented/concreted | vt | veinlet/stringers | sh | sheeted |
| ear | earthy | vm | massive vein, reef | str | stringers |
| fis | fissile | sw | stockworked or as stockworks | sty | strolitic |
| frg | fragmental | | | vug | vuggy |
| fri | friable | | | znd | zoned |
| gos | gossanous | | | con | vein on lithologic contact |
| ind | indurated | | | grw | growth |
| lit | lithic | | | | |
| mot | mottled | | | | |
| nod | nodular | | | | |
| ool | oolitic | | | | |
| pis | pisolitic | | | | |
| pla | plastic | | | | |
| san | sandy | | | | |
| str | stratiform | | | | |
| sug | sugary | | | | |
| voi | voided | | | | |

| MINERALS | |
|----------|---------------------------|
| act | actinolite |
| adu | adularia |
| alb | albite |
| all | allanite |
| alp | allopahane |
| alm | almandine |
| alu | alunite |
| amp | amphibole |
| and | andalusite |
| any | anhydrite |
| ank | ankerite |
| ant | anthophyllite |
| ang | antigorite |
| apt | apatite |
| ara | aragonite |
| apy | arsenopyrite |
| asb | asbestos |
| gld | auridium, gold |
| azu | azurite |
| bar | barite |
| bio | biotite |
| bis | bismuthinite |
| bor | boronite |
| cal | calcite |
| cct | calcereous |
| cbn | carbon (carbonaceous) |
| crb | carbonate |
| cas | cassiterite |
| cer | cerussite |
| cha | chalcodony |
| cct | chalcocite |
| ccp | chalcopyrite |
| chl | chlorite |
| chr | chromite |
| clay | clay |
| cpy | clinopyroxene |
| cu2 | copper, native |
| crd | cordierite |
| cov | covellite |
| cry | cuprite |
| cum | cummingtonite |
| dps | diopside |
| dol | dolomite |
| epd | epidote |
| fpr | feldspar |
| fer | ferric iron oxides |
| fit | fluorite |
| for | forsterite |
| fuc | fuchsite |
| gln | galena |
| gam | gamet |
| gar | garnierite |
| goe | geothite |
| gib | gibbsite |
| grp | graphite |
| gru | grunerite |
| gyp | gypsum |
| hal | halite |
| hem | hematite |
| hbd | hombiende |
| ilm | ilmenite |
| jar | jarosite |
| jsp | jaspolite |
| kin | kaolin |
| kfp | k-feldspar |
| kyn | kyanite |
| lcx | leucoxene |
| lep | lepidolite |
| lim | limonite |
| lic | limonite after carbonate |
| lis | limonite after sulphide |
| lip | limonite after pyrite |
| liz | lizardite |
| mgs | magnesite |
| mgh | maghemite |
| mnt | magnetite |
| mal | malachite |
| mng | manganese oxides |
| mar | marcasite |
| mic | mica |
| mcl | microcline |
| mol | molybdenite |
| mnz | monazite |
| mus | muscovite |
| ni2 | secondary nickel minerals |
| non | nontronite |
| olv | olivine |
| ops | opaline silica |
| otc | orthoclase |
| opx | orthopyroxene |
| pb2 | secondary lead minerals |
| pen | pentlandite |
| phl | phlogopite |
| plg | plagioclase |
| plt | platinum |
| pre | prehnite |
| pyr | pyrite |
| pyl | pyrolusite |
| pyx | pyroxene |
| pyo | pyrrhotite |
| qtz | quartz |
| rut | rutile |
| sch | scheelite |
| ser | sericite |
| srp | serpentine |
| sid | siderite |
| sil | silica |
| slm | siliminite |
| sme | smectite, montmorillonite |
| smt | smithsonite |
| spl | sphalerite |
| sph | sphene |
| spd | spodumene |
| sta | staurorite |
| stb | stibnite |
| slf | sulphides |
| tlc | talc |
| tel | telurides |
| tth | tetrahedrite |
| ten | tennantite |
| top | topaz |
| trml | tourmaline |
| trm | tremolite |
| vio | violante |
| wif | wolframite |
| wol | wollastonite |
| zn2 | secondary zinc minerals |

Lithology Logging Legend

Felsic Rocks

| | |
|------|--------------------------------|
| Fv | Felsic volcanic |
| Fv1 | Larite |
| Fvr | Rhyolitic volcanic |
| Fvt | Trachytic volcanic |
| F | Felsic rock undifferentiated |
| Fg | Granitic rock undifferentiated |
| Fga | Aplite |
| Fgd | Granodiorite |
| Fgl | Leucogranite |
| Fgm | Monzonite |
| Fgnq | Quartz monzonite |
| Fgn | Felsic Gneiss |
| Fgo | Granophyre |
| Fgp | Pegmatite |
| Fgt | Tonalite |
| Fph | Phonolite |
| Fpo | Porphyry |
| Fry | Rhyolite |
| Fsc | Felsic schist |
| Fsy | Syenite |
| Ftj | Trondlyemite |
| Ftr | Trachyte |
| Fvd | Daecitic volcanic |

Intermediate Rocks

| | |
|------|--------------------------------|
| Iv | Intermediate volcanic |
| Iva | Andesitic volcanic |
| I | Intermediate rock unclassified |
| Iad | Adamellite |
| Ida | Diorite |
| Idaq | Quartz diorite |
| Isc | Intermediate Schist |
| Iva | Andesite |
| Ivd | Daecite |

Alkaline Rocks

| | |
|-----|-------------|
| Ac | Carbonatite |
| Akm | Kimberlite |
| Alm | Lamprophyre |

Mafic Rocks

| | |
|------|-----------------------------|
| Mv | Mafic volcanic |
| Mvb | Basalt |
| Mvm | High Magnesium Basalt |
| Mvt | Tholeiitic volcanic |
| M | Mafic rock undifferentiated |
| Md | Dolerite |
| Mg | Gabbro |
| Mgd | Quartz gabbro |
| Mim | Amphibolite |
| Mm | Anorthosite |
| Mnr | Norite |
| Misc | Mafic schist |
| Mt | Troctolite |

Ultramafic Rocks

| | |
|------|---------------------|
| Uv | Ultramafic volcanic |
| Uvk | Komatite |
| U | Ultramafic general |
| Ud | Dunite |
| Uhb | Hornblendite |
| Uhz | Harzburgite |
| Uhd | Peridotite |
| Upx | Pyroxenite |
| Upxc | Chloropyroxenite |
| Upxo | Orthopyroxenite |
| Usc | Ultramafic Schist |
| Usp | Serpentinite |

Misc.

| | |
|-----|-----------------------------|
| nsh | Not rock - backfilled slope |
| nsc | Not rock - contamination |
| nsh | Not rock - hole |
| nst | Not rock - no sample return |
| nss | Not rock - slope |

Tuff qualifiers

| | |
|----|----------|
| tl | lapilli |
| tc | crystal |
| ta | ash fall |
| t | general |
| tw | welded |

Sedimentary Rocks

| | |
|-----------|--|
| S | Sediment general |
| Sbx | Sedimentary breccia |
| Sec | Coal |
| Sdi | Diatomite |
| Sli | Lignite |
| Sph | Phosphorite |
| Sva | Tuffite |
| Sag | Argillite |
| Sak | Arkose |
| Sar | Arenite |
| Sea | Calcareite |
| Seg | Conglomerate |
| Scy | Claystone |
| Sdm | Diamictite |
| Sgr | Grit |
| Sgw | Greywacke |
| Sit | Slate |
| Sml | Marl |
| Sms | Mudstone |
| Spe | Pelite |
| Sph | Phyllite |
| Spo | Orthoquartzite |
| Sqt | Quartzite |
| Ssh | Shale |
| Sst | Sandstone (Ssmg - med grain, Sstfg - fine grain) |
| Ssl | Siltstone (Sslcg - coarse, Sslng - med grain) |
| Sib | Turbidite |
| Sit | Tillite |
| Set | Chert |
| Sdo | Dolomite |
| Sex | Exhalite |
| Sic | Iron formation carbonate facies |
| Sif | Iron formation general |
| Sil | Iron formation silicate facies |
| Sio | Iron formation oxide facies |
| Sis | Iron formation sulphide facies |
| Sjs / Sjp | Jaspilite, jasper / Jasperoid |
| Sls | Limestone |
| Smb | Marble |
| Smg | Magnesite rock (sedimentary) |
| Sho | Boundstone (carbonate) |
| Sgs | Granstone (carbonate) |
| Spa | Packstone (carbonate) |
| Srd | Rudstone (carbonate) |

Surficial Rocks

| | |
|-----|------------------------|
| Oal | Alluvium |
| Occ | Calcrete |
| Ocl | Colluvium |
| Ocp | Caprock |
| Ocy | Clay |
| Oel | Eluvium |
| Oik | Recent Karst Fill |
| Ofc | Ferricrete |
| Ogo | Gossan |
| Ogv | Gravel |
| Ogy | Gypcrete |
| Ohm | Humus |
| Ohp | Hardpan |
| Ois | Ironstone |
| Olc | Lacustrine Clays |
| Olg | Lag (gravel) |
| Olt | Laterite (transported) |

Volcanoclastic Rocks

| | |
|------|-----------------------|
| Xavg | Agglomerate, volcanic |
| Xvc | Volcaniclastic |
| Xvc | Cataclastite |
| Xhc | Hyaloclastite |
| Xvg | Ignimbrite |
| Xvh | Lahar |
| Xvb | Obsidian |
| Xvpx | Pyroclastic |

Tectonic/Other Rocks

| | |
|------|---|
| Xcb | Carbonate rock undifferentiated |
| Xmy | Mylonite |
| Xsz | Shear zone or sheared rock undifferentiated |
| Zbx | Fault breccia |
| Ztz | Fault rock or fault zone undifferentiated |
| Zfzg | Fault rock or fault zone (gangue filled) |
| Xcs | Calc-silicate |
| Xgn | Gneiss |
| Xhf | Hornfels |
| Xsc | Schist |
| Xsk | Skarn |
| X | Altered, Unknown Precursor Breccia |
| Bxh | Hydrothermal breccia |
| Bxk | Karst Breccia |