

Assessment Report on the

**2016 EXPLORATION PROGRAM**

on the

**ROSEBUTE PROJECT, YUKON**

| <b>Grant Number</b> | <b>Claim Name</b> | <b>Grant Number</b> | <b>Claim Name</b>   |
|---------------------|-------------------|---------------------|---------------------|
| YC87106 - YC87129   | Rose 1 - Rose 24  | YC96443             | Bute 11             |
| YC87401 - YC87410   | Bute 1 - Bute 10  | YC96544             | Bute 12             |
| YC87977 - YC87986   | Bute 13 -         | YD13038 - YD13121   | Rose 37 - Rose 120  |
| YC95483             | Rose 352          | YD15751 - YD15798   | RS 1 - RS 48        |
| YC95496             | Bute 23           | YD43401 - YD43631   | Rose 121 - Rose 351 |
| YC95580             | Bute 24           | YD43633 - YD43692   | Rose 353 - Rose 412 |
| YC96349 - YC96356   | Rose 29 - Rose 36 | YD92271 - YD92292   | RS 51 - RS 72       |
| YC96359 - YC96396   | Bute 25 - Bute 62 | YE26103 - YE26144   | RS 73 - RS 114      |
| YC96397 - YC96400   | Rose 25 - Rose 28 | YE74725 - YE74832   | RS 115 - RS 222     |

WHITEHORSE MINING DISTRICT

**Dates Worked:** June 3 – August 28, 2016

NTS 50k Mapsheet: 115O05, O06, O11 & O12  
UTM 572,000E; 7,040,000N (NAD 83, Zone 7)

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## SUMMARY

The Rosebute Property is 100% owned by Taku Gold Corporation. Independence Gold Corporation acquired an option to earn 100% in the Rosebute property in May, 2016. The 694-claim (14,387 ha) Rosebute property is located at the headwaters of Rosebute Creek, a tributary to the Yukon River, 58 km south of Dawson City, Yukon.

Between June 2 and August 28, 2016, Independence Gold Corporation completed a multi-phase exploration program primarily focused on the Hudbay Zone of the Rosebute property. Work included a prospecting program, ground based geophysical survey, and a drill program.

The prospecting resulted in the collection of nine rock samples and twelve structural measurements, which helped to define that the foliation in the Hudbay Zone is generally east-west striking with a gentle, undulating dip to the south. No outcrop was found in the Southeast zone but test pits dug at anomalous soil sites revealed metasedimentary rocks and quartz vein fragments.

The 58.5 line km ground based magnetic susceptibility survey over the Hudbay Zone provided better definition of the underlying rock magnetic properties as well as recognition of E-W to NW-SE faulting.

The 12 Rotary Air Blast (RAB) drill holes (923.5 m) tested rock and soil anomalies at the Hudbay Zone and returned 581 rock samples representing 5 foot intervals (~1.52m). All drill holes were drilled to the north at -70° dip to test east-west striking foliation, dipping gently south (<10°) and predominately coincident cm-scale quartz veins.

Drilling intersected broad zones of gold mineralization across the Hudbay Zone. Drills holes RO16-15 and RO16-16, located in the northern portion of the Hudbay anomaly returned the most encouraging results. RO16-15 intersected 0.585 g/t Au over 24.38 m, including 2.50 g/t Au over 1.52 m. RO16-16 intersected 0.311 g/t Au over 38.1 m, including 1.26 g/t Au over 1.5 m.

## INTRODUCTION

Independence Gold Corporation (“InGold” or “the Company”) acquired an option to earn up to 100% in the Rosebute Property in May 2016 from Taku Gold Corporation (“Taku”). The Rosebute Property (“Rosebute” or “the Property”) is located approximately 58 km south of Dawson City, Yukon, and approximately 29 km north of the Golden Saddle Deposit owned by Kinross Gold Corporation (Figure 1). InGold conducted prospecting, ground based magnetics and RAB drilling during the 2016 summer field season. Exploration work was focused on the Hudbay Zone on the western side of the property.

Exploration was carried out between June and August, 2016 in three phases.

The objective of the first phase of the 2016 program was to inspect previous trenching completed on the Hudbay Zone, mapping the lithology, collecting structural measurements of country rock and quartz veins and resampling some previously reported gold in rock anomalies. In addition, anomalous soil samples from previous exploration were investigated in the Southeast zone. The second phase of work included a ground based geophysical survey measuring magnetic susceptibility. The third phase involved the drill testing of select targets based on previous trench sample results, this years’ structural measurements, and interpretation of the magnetic survey.

This report describes the 2016 exploration work conducted and provides the results and interpretations of the work as well as recommendations for additional work to further advance the project. The authors participated in and/or managed the programs. The Statements of Qualification are contained within this report.

All figures and coordinate locations presented in this report are in map projection UTM NAD 83, Zone 7.



Figure 1: Rosebute Location Map

## CLAIM DATA AND OWNERSHIP

Taku Gold Corp owns 100% right, title and interest in Rosebute having satisfied the Option Agreement with property vendor Shawn Ryan. InGold signed an option agreement with Taku in 2016 to acquire up to 100% interest in Rosebute.

This report covers the entire Rosebute property made up of 694 contiguous claims covering approximately 14,387 hectares (ha).

Rosebute centres on UTM 573,000E and 7,040,000N (NAD 83, Zone 7) on NTS map sheets 115O05 (Excelsior Creek), 115O06 (Stewart River), 115O11 (Reindeer Mountain) and 115O12 (Ogilvie) as shown on Figure 2 (in pocket). Claim data for the claims covered in this report are listed below.

**Table 1: Rosebute Property Claim Information**

| Grant Number      | Claim Name        | Grant Number      | Claim Name          |
|-------------------|-------------------|-------------------|---------------------|
| YC87106 - YC87129 | Rose 1 - Rose 24  | YC96443           | Bute 11             |
| YC87401 - YC87410 | Bute 1 - Bute 10  | YC96544           | Bute 12             |
| YC87977 - YC87986 | Bute 13 -         | YD13038 - YD13121 | Rose 37 - Rose 120  |
| YC95483           | Rose 352          | YD15751 - YD15798 | RS 1 - RS 48        |
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| YC96359 - YC96396 | Bute 25 - Bute 62 | YE26103 - YE26144 | RS 73 - RS 114      |
| YC96397 - YC96400 | Rose 25 - Rose 28 | YE74725 - YE74832 | RS 115 - RS 222     |

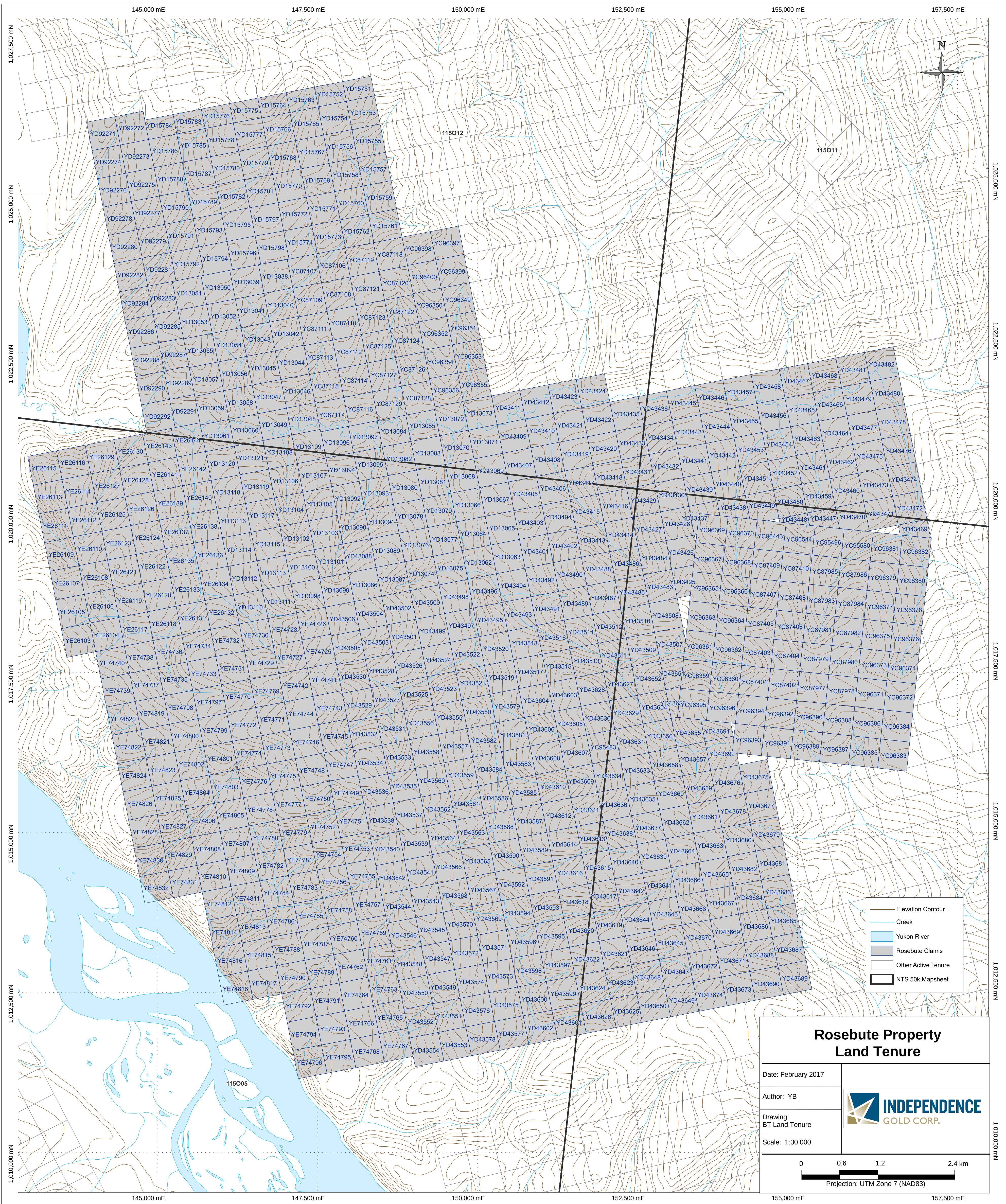
## PROPERTY DESCRIPTION

### LOCATION

Rosebute is located at the headwaters of Rosebute Creek, a tributary of the Yukon River, about 58 km south of Dawson City (Figure 1).

### CLIMATE AND GEOMORPHOLOGY

Rosebute experiences cold winters and mild to hot summers due to its location within the semi-arid, sub-arctic Central Yukon Basin climate region. Precipitation is generally light in the summer and overall clear skies and warm temperatures prevail. Heavy morning fog can be a problem for



aircraft. Forest fires are common and thick smoke at times may impede exploration work. Maximum snow accumulations in the winter are typically less than one meter. Due to the northerly latitude of the region, summer days are long and winter days are short. The best season for exploration is during the summer months from mid-May to mid-October. Although it is possible to work during the winter months, costs rise exponentially due to cold temperatures, inclement weather and short daylight hours.

The Dawson Range was not affected by the last period of continental glaciation and so it is characterized by low rolling hills incised with steep sided, V-shaped valleys. Bedrock is generally shallow but can be deeply weathered and there is very little (perhaps less than 5%) outcrop exposed, usually on ridges above tree-line or in rare canyons in the creek valleys. Due to the lack of glaciation, soil profiles are relatively in-place. The Property lies below tree-line and is covered by a typical boreal mixture of pine, spruce, balsam fir, aspen and birch trees and willow and alder brush. North and west slopes are often covered with thick moss blanketing permafrost. Elevations on Rosebute range from 400 metres ("m") to 1,100 m above sea level.

The Dawson City area is characterized by a semi-arid, sub-arctic continental climate with mild to hot summers and cold winters.

## **INFRASTRUCTURE**

There is no road access to the Property, however, there are well-maintained dirt and gravel roads extending south from the Klondike Highway that service exploration and placer mining activity in the area. One of these roads is within 10 kilometres ("km") of the eastern boundary of the Property. This road can be utilized to position supplies and equipment for subsequent mobilization by helicopter. In addition, there are two nearby airstrips each located at a placer mining camp. One newly completed airstrip is located on our property at the North Henderson placer camp. A second airstrip is located at the JP Ross Camp, 10 km east of Henderson along the road to the Klondike Highway. Alternatively, supplies may be barged down the Yukon River from Whitehorse to the mouth of Rosebute Creek, about 2 km west of the Property. A barge landing would be required.

To get around the Property a helicopter is needed and there are several landing sites available that have been cleared of trees. There is a network of trails within the Hudbay Zone to access the trenches.

The Property can be worked by helicopter from Dawson City or from an exploration camp set up on or near the Property. A camp can be supported from Dawson City, where services are limited, or from Whitehorse where a full range of services are locally available.

During the 2016 exploration season, the first phase and most of the third phase of exploration was based out of InGold's Boulevard camp located approximately 65 km south of the Property. The second phase and final portion of the third phase exploration was based out of Dawson City.

## **HISTORY**

### **PREVIOUS WORK**

According to the Yukon Energy and Mines and Resources Library and Yukon Geological Survey MINFILE database, there has been limited exploration work on the property. The first claims recorded on what is now the eastern portion of the Property were staked by Shawn Ryan ("Ryan") in October, 2002. These claims were acquired to cover the possible southern extension of the Lucky Joe copper-gold mineral occurrence and were recognized as a magnetic anomaly in a government airborne survey (Dawson, 2005). Ryan immediately optioned the claims to Copper Ridge Explorations Inc ("Copper Ridge") who then optioned them to Kennecott Canada Exploration Inc ("Kennecott") in February, 2003.

In 2003, Kennecott carried out a reconnaissance soil sampling survey mostly along ridges and ridge spurs across and beyond the property boundary (Hulstein, 2003). Forty claims were staked along the eastern boundary of their claims in response to the discovery of a gossanous "sulfidic kill zone". Kennecott reported finding scattered gold, copper, molybdenum, lead, and arsenic anomalies from their 97 soil samples. Kennecott dropped its option in January 2004.

In 2004, Copper Ridge Explorations Inc carried out a soil sampling, geological mapping and prospecting survey in the vicinity of a geochemical anomaly and the "sulfidic kill zone" identified by Kennecott in 2003 (Dawson, 2005). They found a float boulder of a mineralized skarn and their soil samples returned non-coincident elevated levels of gold, cobalt and molybdenum. No other work was reported and the claims lapsed in 2006.

Ryan staked a larger land package the area in 2009 and conducted a regional soil sampling program. Results showed anomalous gold values along a ridge running through the Rose claim group. Geological Survey of Canada silt samples within the Bute claim group returned anomalous gold as well. Ryan optioned the Rose and Bute claim blocks to Taku in March, 2010.

Taku expanded the property in 2010 and flew an 1,107-line km airborne magnetic and radiomagnetic geophysical survey over the renamed Rosebute claim group (Fekete and Huber, 2011). A deep auger-type soil geochemical survey was conducted on the Property collecting 5,087 samples on lines spaced approximately 100 m apart with sample intervals of 50 m. The Norwest Zone was recognized as a ~189 ha gold in soil anomaly with gold concentrations up to 201 ppb.

In 2011, 457 soil samples were collected over the Norwest Zone to infill over the gold anomaly (Fekete and Huber, 2012). Concentrations of gold up to 1,343 ppb were reported (Fekete and Huber, 2012). In addition, 2,356 reconnaissance ridge and ridge spur soil samples were collected across the Property. Results from this survey included a 3430 ppb Au anomaly ~3km north of the Norwest Zone and a small cluster of anomalous gold in soil with up to 491 ppb Au at the newly recognized Hudbay Zone.

In 2012, Taku collected 1,358 deep-auger-type soil samples at 50 m spacing over the Hudbay Zone, expanding the anomalous zone and recovering up to 900 ppb Au in soil (Fekete and Huber, 2013). They also recognized a third anomalous gold in soil zone (Southeast zone) 750 m southeast of the Hudbay Zone with gold concentrations up to 96 ppb. A small grid of 86 soil samples were collected north of the Norwest Zone without recovering significant results. Taku collected 90 rock samples while prospecting the three anomalous zones recovering up to 0.492 g/t Au in a grab sample. A four-hole, 963 m drill program on the Norwest Zone returned 0.952 g/t Au over 23.4 m, 1.576 g/t Au over 1.0 m and 0.880 g/t Au over 3.0 m from three of the holes. Taku mobilized a helicopter portable excavator to dig seven trenches (1,341 m) across the Hudbay Zone and two trenches over the Norwest Zone. Rock sampling over five metre intervals identified several north-trending gold mineralized zones with up to 6.17 g/t Au over 5 m in Trench 1 and 1.5 g/t Au over 20.0 m in Trench 4. Three Induced Polarization Resistivity profiles were surveyed over the Hudbay Zone as a test of the system with ambiguous results. Additional claims were staked onto the claim group bringing it up to the current 694 claims (14,387 ha).

In 2013, Taku conducted 19 lines of High Resolution DC Resistivity and Induced Polarization profiles over the Hudbay and Southeast zones identifying linear resistivity trends (Fekete and Huber, 2014). The geophysical survey was followed up with a track-mounted Geoprobe™ (hydraulically-powered static force/percussion soil and rock sampler) to collect 141 rock samples at five metre intervals on seven traverse lines as well as 11 rock samples from targeted areas. Samples were collected approximately every three to 6 meters. Results showed anomalous gold up to 4.32 g/t.

No exploration work has been reported for the 2014 and 2015 seasons.

## **GEOLOGICAL SETTING**

### **REGIONAL GEOLOGY**

Rosebute is situated within the unglaciated Yukon Plateau portion of the Paleozoic Yukon-Tanana Terrane approximately 70 km southwest of the Tintina Fault in west-central Yukon. This area is characterized by various pericratonic terranes that were accreted to the ancestral continental margin of North America in the early Jurassic. During the mid-Cretaceous the pericratonic terranes were intruded by a northwest-southeast trending plutonic suite known as the Dawson Range Plutonic Belt (Hart et al., 2004).

### **PROPERTY GEOLOGY**

Gordey and Ryan (2005) mapped the Stewart River area at 1:250,000. The Property is underlain by Devonian to Mississippian aged orthogneiss of tonalite, granodiorite and granite protolith and consists primarily of pink to orange K-feldspar,  $\pm$  augens, commonly with biotite, which is generally banded to layered (Figure 3). The orthogneiss is interlayered with amphibolite schist and gneiss and locally there are metasedimentary rocks.

### **EXPLORATION WORK**

The 2016 exploration program included a prospecting and geological investigation of the previously excavated Hudbay Zone trenches and Southeast zone, a ground based magnetic survey and RAB drilling on the Hudbay Zone. Work was completed between June 3 and August 28, 2016.

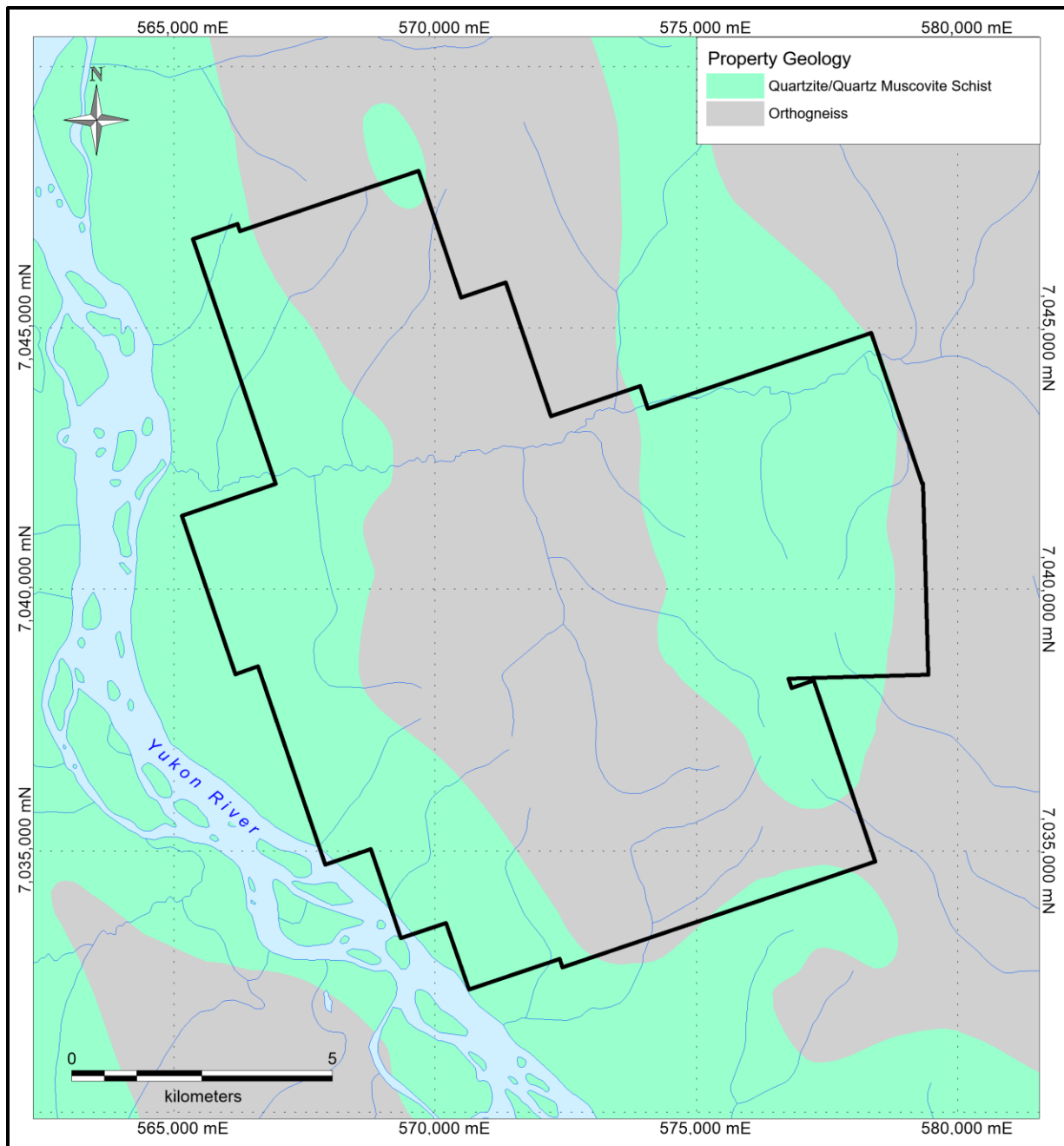


**Figure 3: Rosebute Property Geology Map**

## PROSPECTING

A crew of two geologists based out of InGold's Boulevard Camp, 72 km to the south, prospected the Hudbay Zone trenches and the Southeast zone. The crew was transported to the Property by helicopter. Two days (June 3 and 4, 2016) were spent investigating the previously excavated trenches, checking previously reported anomalous trench and grab samples and trying to measure geological structures within the trenches. Nine rock samples were collected from within

the trenches or from material on the trench excavation dump piles and twelve foliation or quartz vein measurements were recorded. Rock exposure in the trenches was limited with most trench walls composed of muddy C-horizon soil. Rock types observed in the trenches or on the dump piles include orange to pink K-feldspar rich orthogneiss (variably containing feldspar augen and/or quartz eyes), muscovite schist, hornfelsed sediment and dirty white carbonate. The carbonate forms one to two metre thick bands in association with the hornfelsed sediment. Structural measurements within the trenches was difficult due to friable trench walls. Foliation is typically observed to strike east-west and dip shallowly to the south. Centimetre scale quartz veins appear to be aligned with country rock foliation. Rare quartz veins (sub cm-scale) were observed to cross-cut foliation and were truncated by quartz veins aligned with the country rock foliation. The fabric geometry is in marked contrast to the overall north-south trend of the Hudbay soil anomaly. The geology and overall magnetic grain trend northwards so it is inferred that there must be either a fault or a stratigraphic unit that is acting as a host to a series of stacked, east-west trending veins.

One day (June 27, 2016) was spent prospecting the Southeast zone defined by Taku's 2012 soil sampling (Fekete and Huber, 2013). Most of the soil samples that had returned greater than 50 ppb Au were evaluated by digging pits at each site. Small fragments of quartzite, quartz-muscovite schist and quartz veins were observed in several pits but not in sufficient quantities to sample except near the 2012 soil sample site 127280 where a composite of rock fragments was sampled (312364, see table 2). There is no outcrop in the area, however, the root systems of fallen trees commonly contain metasedimentary rocks. The area has abundant dead fall and thick new growth that made access and walking difficult. Only one sample and no structural measurements were collected in this area.

Figure 4 shows the locations of the rock samples taken within the historical trenches. Table 2 summarizes the rock descriptions and select element concentrations. Table 3 summarizes the structural measurements. Certificates of analysis are contained in Appendix 2. Two standards (312290 & 312369) and two blanks (312297 & 312370) were added to the rock shipments for quality control.

**Table 2: Rock Sample Locations, Comments and Select Results**

| Sample ID | Sample Type | Easting | Northing | Comments                                                                                                                                                                                                                                            | Au_ppb | Ag_ppm | Mo_ppm | W_ppm |
|-----------|-------------|---------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|-------|
| 312285    | Chip        | 568814  | 7040857  | Trench 4 resample between 2012 sample 125688-125689; 5m composite; all non-qtz vein wallrock of orthogneiss                                                                                                                                         | 206    | 1.84   | 0.71   | 33.8  |
| 312286    | Composite   | 568813  | 7040859  | Composite of quartz vein material within dump pile; vein is massive and milky; no sulphides and no alteration except for subtle pink colour; resample of 2012 sample 125688 in Trench 4                                                             | 109    | 0.39   | 1.66   | 193   |
| 312287    | Chip        | 568704  | 7040823  | chip sample of quartz vein over ~5m; approximately 12cm; no visible sulphides; vein appears flat to gently dipping (075/02 to 10 at most); between 2012 samples 125712-125713                                                                       | 3670   | 9.51   | 2.69   | 49    |
| 312289    | Composite   | 568614  | 7040917  | quartz on top of dump pile. Massive, white vein material. Hosted in muscovite quartz schist. Sample is a composite of quartz vein material over 2-3m.                                                                                               | 153    | 8.74   | 5.46   | 0.7   |
| 312291    | Composite   | 568575  | 7040911  | Massive non-descript quartz vein collected along a 2m interval on the dump pile north side of trench. Veins are subparallel to the schistosity/foliation in larger float pieces. No alteration or mineralization.                                   | 33     | 0.19   | 3.56   | 123   |
| 312292    | Grab        | 568699  | 7040637  | qtv vein material in dump pile near 2012 trench sample 125672 which returned high gold values; very little quartz on dump pile; trench has no rock exposure                                                                                         | 29     | 0.28   | 8.33   | 2.5   |
| 312293    | Grab        | 568806  | 7040663  | Quartz vein with fine sulphide on dump pile; sericite in dump not on quartz but lots of it; no outcrop in deep trench                                                                                                                               | 90     | 0.37   | 3.3    | 1.6   |
| 312294    | Composite   | 568737  | 7040562  | Composite sample of quartz vein over 2.5m from dump pile on margin of trench and three pieces from bottom of trench. Pyrite is mm size pin head anhedral crystals; Massive, milky white quartz. Rare pieces have veins parallel to foliation.       | 263    | 0.4    | 0.85   | 0.4   |
| 312296    | Composite   | 568747  | 7040463  | Composite sample of only quartz vein material from dump pile next to 2012 sample 125628. Quartz vein comprises 10-15% of the rock in this interval. Veins are subparallel to foliation; Euhedral crystals up to 3mm in size silvery grey in colour. | 182    | 0.86   | 7.15   | 506   |
| 312364    | Composite   | 569669  | 7039969  | Float. Mix of quartz vein and quartzite with 2-3mm crosscutting quartz veinlets. Quartzite added to have enough sample. Pieces of quartz milky white to smoky gray. Rare vugs occur with limonite.                                                  | -1     | 0.1    | 2.97   | 1.1   |

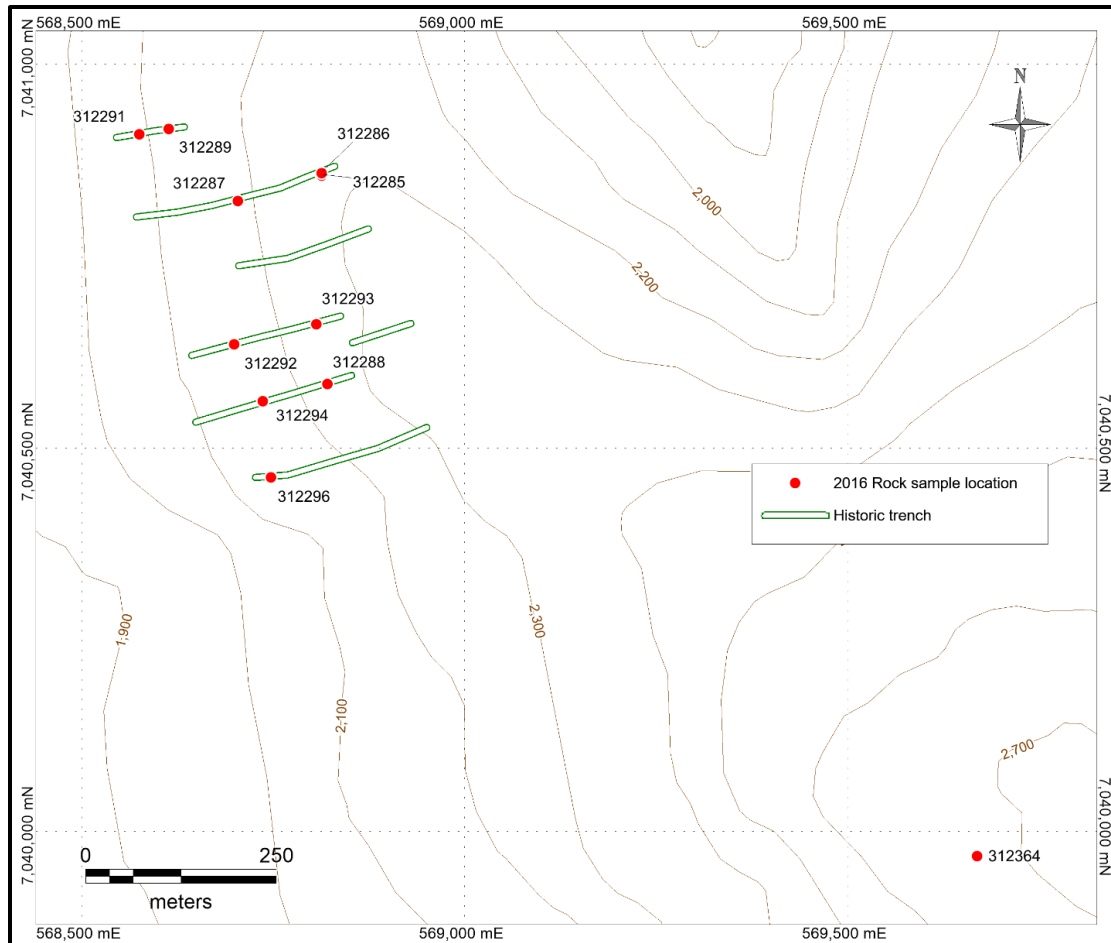


**Figure 4: Rosebute Rock Sample Locations**

**Table 3: Structural Measurements, Locations and Comments**

| Feature     | Easting | Northing | Strike | Dip | Comments                                                                                                                                           |
|-------------|---------|----------|--------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Foliation   | 568760  | 7040753  | 70     | 16  |                                                                                                                                                    |
| Foliation   | 568711  | 7040737  | 97     | 16  |                                                                                                                                                    |
| Foliation   | 568606  | 7040915  | 220    | 36  | Low confidence on dip.                                                                                                                             |
| Foliation   | 568939  | 7040521  | 266    | 19  | high confidence but dip is undulating.                                                                                                             |
| Foliation   | 568811  | 7040856  | 331    | 17  | Pervasive foliation within orthogneiss.                                                                                                            |
| Foliation   | 568792  | 7040853  | 214    | 81  |                                                                                                                                                    |
| Foliation   | 568767  | 7040746  | 85     | 10  | High confidence. Friable rock in south side of trench. Generally strikes along the trench and dips to the south shallowly.                         |
| Foliation   | 568598  | 7040913  | 166    | 16  | Collection of muscovite schist in north side wall of the trench. Several measurements show consistent geometry.                                    |
| Foliation   | 568736  | 7040560  | 65     | 5   | Fabric within rock in southern trench wall.                                                                                                        |
| Foliation   | 568848  | 7040488  | 104    | 40  | Low confidence. Pervasive fabric.                                                                                                                  |
| Quartz vein | 568553  | 7040906  | 88     | 64  | 15cm quartz vein; no visible sulphides; weak clay alteration along fractures; north wall; south wall has different orientation quartz vein.        |
| Quartz vein | 568813  | 7040858  | 197    | 6   | Very difficult to determine strike. Close to flat lying. Host rock is orthogneiss. Milky white quartz vein, 1 cm thick, sub parallel to foliation. |

## **GEOPHYSICAL SURVEY**

The geophysical ground survey was conducted by Ground Truth Explorations Inc (“Ground Truth”) under contract to InGold. The crew was based out of Dawson City and transported to the Property by helicopter. The two-person crew collected 58.5 line km of magnetic data at a nominal line spacing of 50 m over the Hudbay Zone. The survey was completed between July 31 and August 2, 2016 using two GEM Systems GSM 19 Proton Magnetometers with a base station on the property to correct for diurnal variation. The units are set to operate in walking mode collecting continuous measurements with up to 2 readings per second. Traverse lines were walked north-south.

The ground magnetic survey was designed to better define the elevated magnetic response detected by the airborne magnetic and radiometric geophysical survey (Fekete and Huber, 2011) which is coincident with the Hudbay soil anomaly. The ground magnetic data better defines the strong magnetic high in the southern Hudbay soil anomaly and the more diffuse magnetic high beneath the northern portion of the Hudbay soil anomaly. The ground magnetic data also shows a series of E-W to NW-SE faults. Figure 5 shows the geophysical survey location relative to the approximate gold in soil anomaly of the Hudbay Zone. Figures 6 and 7 respectively show the total magnetic intensity and first vertical derivative. Appendix 3 contains images from the survey and digital data is in the DVD version of this report.

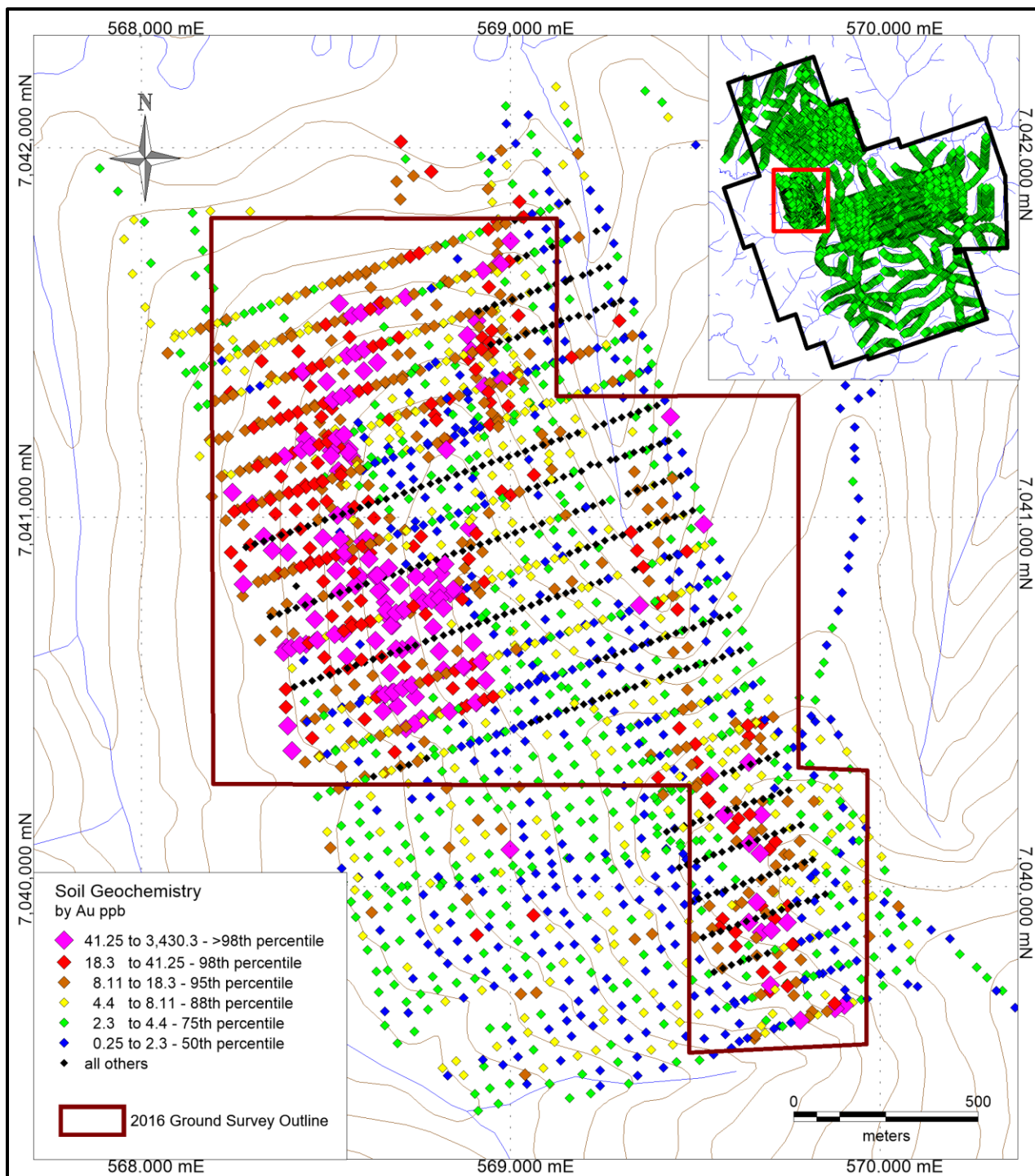


Figure 5: Geophysical Survey Area in relation to the Hudbay Zone

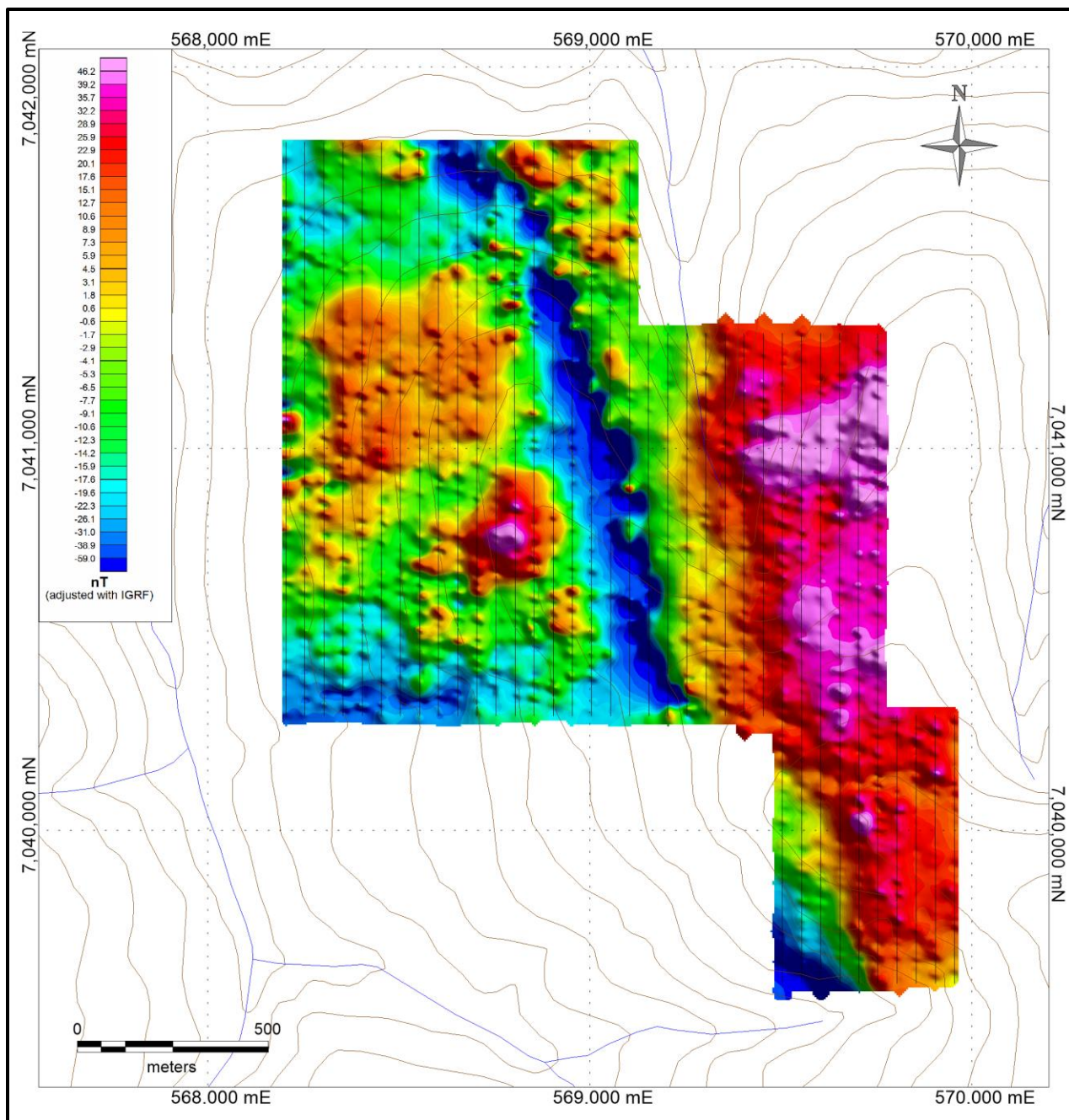


**Figure 6: Rosebute Total Magnetic Intensity**

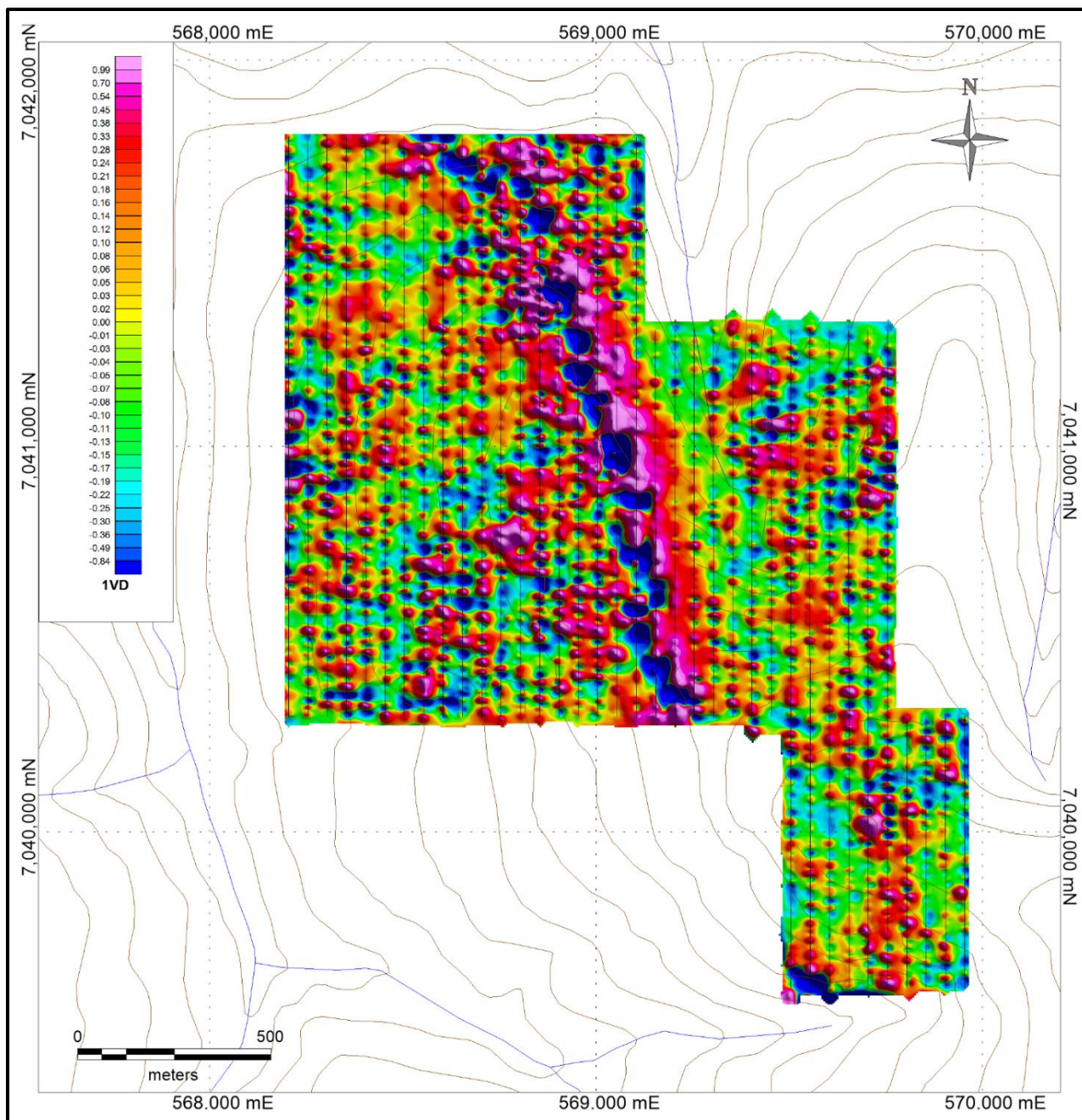


**Figure 7: Rosebute First Vertical Derivative**

## **DRILL PROGRAM**

Twelve RAB drill holes (923.5 m) tested rock and soil anomalies at the Hudbay Zone and 581 rock samples representing 5 foot intervals (~1.52m) were analyzed (plus 17 standards and 21 blanks for quality control). All drill holes were drilled to the north at -70° dip to test east-west striking foliation, dipping gently south (<10°) and predominately coincident cm-scale quartz veins.

Drilling was contracted to Ground Truth and conducted between August 14 and 28. The crew, including four drillers and two samplers plus a part-time foreman, operated day and night shifts. Initially the crew was based out of InGold's Boulevard camp, 72 km to the south, then out of Dawson City, 58 km to the north, for the final four drill holes.

The drill is a track-mounted remotely controlled platform with less than 2.1 psi ground pressure and can be operated without a land use permit. An air compressor was positioned at two central locations by helicopter and long hose lines run to the drill site. Cut lines previously blazed for the trenching were utilized to move the drill and supplies between drill sites. The drill provides continuous cuttings over five foot rod runs (1.52 m) which are retrieved from the cyclone in a bucket and split.

Drill hole names are based on previous drilling naming structure, continuing the sequence. For example, RO16-05 indicates Rosebute property (RO), year 2016 (16) and fifth drill hole to date (05). Collar locations and survey information are provided in Table 4 and drill logs are in Appendix 1. A summary of drill gold assay results are provided in Table 5. The locations of all drill holes are summarized below and are shown in Figure 8. A small representative sample of each drilled interval was retained in chip trays and these were transported to a storage facility in Vancouver, BC. There are no drill chips retained on site.

Drill hole targets were based on Taku's previous exploration results in conjunction with the ground magnetic data. Soil anomalies and trench results referenced are from Fekete and Huber (2013) and Geoprobe results are from Fekete and Huber (2014).

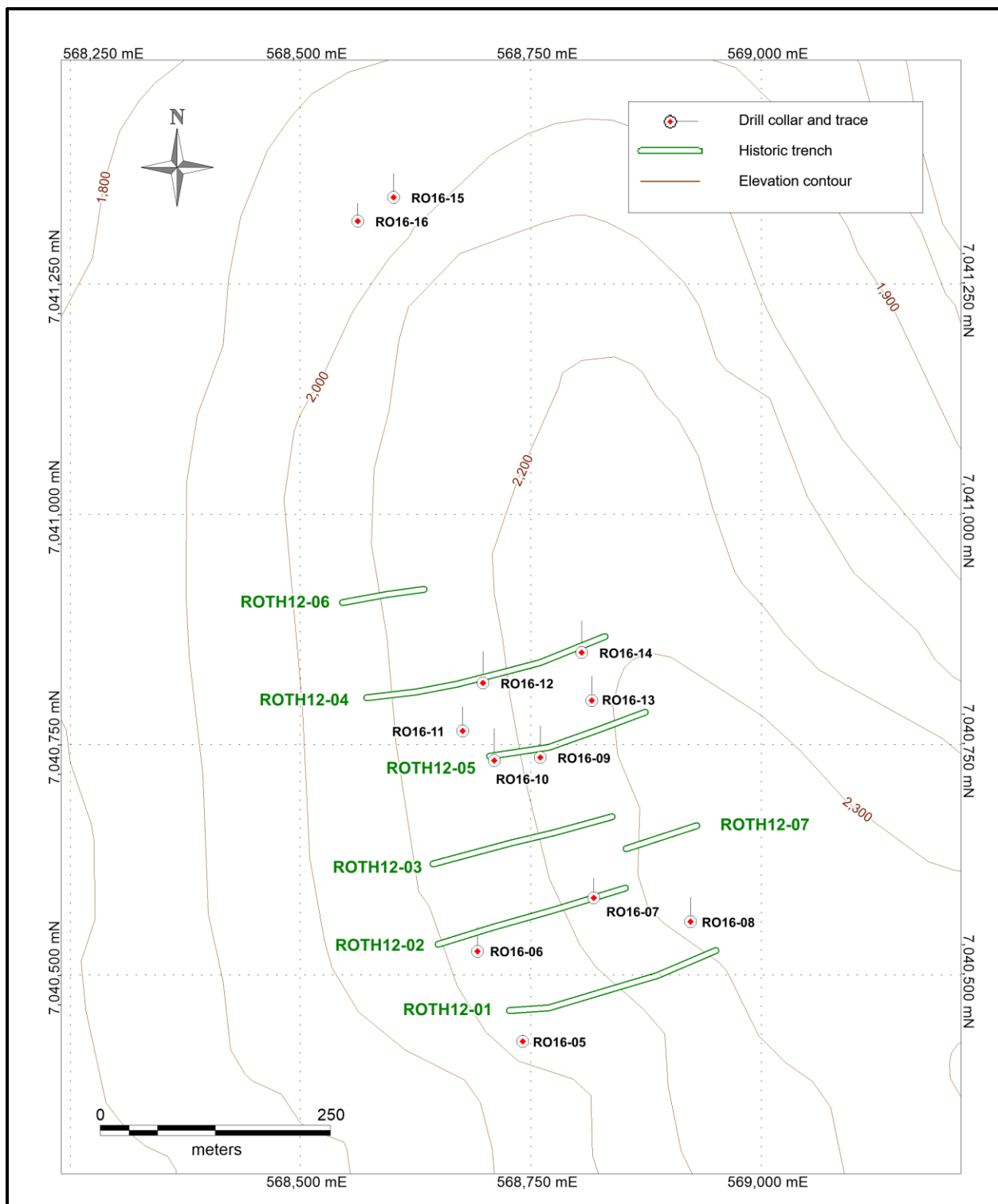


Figure 8: Rosebute 2016 Drill Hole Locations

**Table 4: Drill Hole Locations**

| Hole ID | Easting | Northing | Azimuth | Dip | Length (m) |
|---------|---------|----------|---------|-----|------------|
| RO16-05 | 568741  | 7040428  | 360     | -70 | 21.3       |
| RO16-06 | 568692  | 7040526  | 360     | -70 | 76.2       |
| RO16-07 | 568818  | 7040584  | 360     | -70 | 61         |
| RO16-08 | 568923  | 7040558  | 360     | -70 | 76.2       |
| RO16-09 | 568760  | 7040736  | 360     | -70 | 100.6      |
| RO16-10 | 568710  | 7040733  | 360     | -70 | 100.6      |
| RO16-11 | 568676  | 7040765  | 360     | -70 | 76.2       |
| RO16-12 | 568698  | 7040817  | 360     | -70 | 100.6      |
| RO16-13 | 568816  | 7040798  | 360     | -70 | 76.2       |
| RO16-14 | 568805  | 7040850  | 360     | -70 | 100.6      |
| RO16-15 | 568601  | 7041344  | 360     | -70 | 76.2       |
| RO16-16 | 568562  | 7041318  | 360     | -70 | 57.9       |

**Table 5: Drill Hole Composite Gold Results**

| Drill Hole | Zone   | From (m)               | To (m) | Length (m) | Au (g/t) |
|------------|--------|------------------------|--------|------------|----------|
| RO16-05    | Hudbay | No Significant Results |        |            |          |
| RO16-06    | Hudbay | 3.1                    | 16.8   | 13.7       | 0.29     |
| RO16-06    | Hudbay | 22.9                   | 32     | 9.1        | 0.22     |
| RO16-07    | Hudbay | No Significant Results |        |            |          |
| RO16-08    | Hudbay | 0                      | 12.2   | 12.2       | 0.32     |
| RO16-09    | Hudbay | 9.1                    | 100.6  | 91.4       | 0.15     |
| Incl       | Hudbay | 53.3                   | 56.4   | 3.1        | 1.67     |
| RO16-10    | Hudbay | 6.1                    | 100.6  | 94.5       | 0.12     |
| Incl       | Hudbay | 62.5                   | 71.6   | 9.2        | 0.29     |
| RO16-11    | Hudbay | 15.2                   | 25.9   | 10.7       | 0.18     |
| RO16-11    | Hudbay | 67.1                   | 74.7   | 7.6        | 0.23     |
| RO16-12    | Hudbay | 16.8                   | 29     | 12.2       | 0.16     |
| RO16-12    | Hudbay | 39.6                   | 54.9   | 15.2       | 0.18     |
| RO16-13    | Hudbay | 1.5                    | 9.1    | 7.6        | 0.14     |
| RO16-14    | Hudbay | 4.6                    | 15.2   | 10.7       | 0.19     |
| RO16-15    | Hudbay | 12.2                   | 48.8   | 36.6       | 0.5      |
| Incl       | Hudbay | 25.9                   | 27.4   | 1.5        | 1.68     |
| Incl       | Hudbay | 45.7                   | 47.2   | 1.5        | 2.5      |
| RO16-16    | Hudbay | 10.7                   | 48.8   | 38.1       | 0.31     |
| Incl       | Hudbay | 39.6                   | 41.2   | 1.5        | 1.26     |

**RO16-05**

Drill hole RO16-05 targeted a 581 ppb gold-in-soil anomaly coincident with anomalous mercury, arsenic and molybdenum. The hole was drilled toward Trench 1 where a 5 m interval returned 0.546 g/t Au (Fekete and Huber, 2012) from orthogneiss. Ground magnetic interpretation

suggests an ESE fault is coincident with the trench at this location. This hole intersected orange to pink feldspar rich orthogneiss but was abandoned at 22.9 m due to no rock recovery. No significant mineralized intersections were returned from this drill hole.

#### **RO16-06**

Drill hole RO16-06 targeted a gold-in-soil anomaly (946 ppb Au) with coincident weak to moderate mercury and moderate molybdenum. The hole was drilled toward Trench 2 where a 5 m interval returned 0.72 g/t Au (Fekete and Huber, 2012). Ground magnetics suggests this drill hole also may have crossed an ESE fault. Drill logs indicate predominately orange to pink feldspar-rich orthogneiss with variable biotite. Two intervals with elevated gold were encountered in this hole: 3.1 m to 16.8 m returned 0.29 g/t Au and 22.9 m to 32 m returned 0.22 g/t Au.

#### **RO16-07**

Drill hole RO16-07 targeted the west side of Trench 2 where a 5 m composite sample from 2012 returned 6.17 g/t Au in an area of relatively low magnetic response. This hole returned predominately feldspar-rich orthogneiss with quartz vein material in the upper 1.52 m. This hole returned four non-contiguous 1.52 m intervals of >0.1 g/t Au.

#### **RO16-08**

Drill hole RO16-08 targeted a single highly anomalous soil sample that returned 642 ppb Au with elevated silver and arsenic. This target also has a coincident magnetic high based on the ground magnetic survey. This hole intersected approximately 28 m of tan coloured, biotite-bearing quartzite with minor pink feldspar and white quartz vein material interbedded with or transitional to a quartz-biotite schist. Below 28 m the rock transitions to a predominately feldspar-rich banded gneiss with variable quartz and biotite content. This hole intersected 0.32 g/t Au over 12.2 m (0-12.2 m) including 1.15 g/t Au over 1.52 m between 9.14 – 10.67 m.

#### **RO16-09**

Drill hole RO16-09 targeted a 5 m interval of 2.07 g/t Au from Trench 5 which crossed a strong magnetic high as defined by the ground magnetics survey. The hole was positioned to drill toward the centre of the magnetic high. This hole intersected a quartz-feldspar-biotite-muscovite metasedimentary rock with varying constituent composition. This hole returned several intervals of elevated gold including 1.67 g/t Au over 3.05 m and a weighted average of 0.15 g/t Au over 91.44 m.

**RO16-10**

Drill hole RO16-10 targeted the western end of Trench 5 where a 5 m interval returned 1.59 g/t Au and several Geoprobe surface samples returned > 0.4 g/t Au. The drill hole intersected orange-pink feldspar-rich orthogneiss with ~27 m interval of metasedimentary rocks (variable quartz-feldspar-biotite±muscovite) between 25-53 m. This hole returned 0.12 g/t over 94.5 m including 0.29 g/t Au over 9.15 m between 62.5-71.6 m within orthogneiss.

**RO16-11**

Drill hole RO16-11 targeted a soil anomaly situated between Trench 4 and 5 with up to 0.67 ppb Au and elevated silver and tellurium. The drill was positioned on the edge of a magnetic high. This hole intersected predominately orange-pink feldspar-rich orthogneiss with a 20 m interval of quartz-feldspar-biotite metasedimentary rock. This hole returned two intervals of elevated gold including 0.18 g/t over 10.7 m and 0.23 over 7.6 m.

**RO16-12**

Drill hole RO16-12 targeted a 5 m interval in Trench 4 that returned 0.94 g/t Au on the northwest edge of a magnetic high. This interval was followed up during the 2016 prospecting and a 12 cm piece of quartz vein found on the excavated trench pile returned 3.67 g/t Au (sample 312287). This hole intersected predominately orthogneiss with metasedimentary rocks at the base of the hole. Drill chips from this hole showed more quartz vein material than most holes with several 1.52 m intervals with up to 15% white quartz. Only one of these intervals returned >0.3 g/t Au and the best composite sample was 0.18 g/t Au over 15.2 m within the orthogneiss.

**RO16-13**

Drill hole RO16-13 targeted an area between Trench 4 and 5 with elevated gold, silver and tellurium in soils including up to 0.74 ppb Au. This hole was positioned on a magnetic high. This drill hole intersected orange to pink feldspar-rich orthogneiss, with generally minor quartz vein material except between 35-38 m which returned up to 30% white quartz chips. However, this quartz vein rich interval returned only slightly elevated gold concentration of 0.08 g/t Au over 1.52 m. There were a couple intervals with up to 0.29 g/t Au and best composite intervals were 0.15 g/t Au over 7.6 m (between 1.5-9.1 m) and 0.22 g/t Au over 4.6 m.

#### **RO16-14**

Drill hole RO16-14 targeted the east end of Trench 4 where a 5 m trench sample returned 1.08 g/t Au. This hole was positioned on a small lobe of the magnetic high. This site was followed up in the 2016 prospecting and a composite grab sample of quartz vein material returned 0.11 g/t (312286). This hole intersected orthogneiss with up to 25% quartz vein material between 1.5-9.1 m. This interval returned 0.21 g/t Au. There were a few other intervals with elevated gold including 0.546 g/t over 1.52 m between 38.1-39.6 m.

#### **RO16-15**

Drill hole RO16-15 targeted a 5 m interval that returned 1.23 g/t Au from Geoprobe line ROSGP13-06, line 6 (designated 25 to 30 m), sample 12266886 (Fekete and Huber, 2014). The hole was positioned at the northern end of the diffuse magnetic high. This hole intersected pale tan to orange feldspar-rich orthogneiss with 5-30% quartz vein material within intervals between 27.4-50.3 m. There was trace to 1% pyrite in this interval but no sulphides were seen within the quartz. This interval, along with the preceding 1.52 m interval, returned a weighted average of 0.59 g/t Au over 24.38 m, including 1.68 g/t Au and 2.50 g/t Au over 1.52 m.

#### **RO16-16**

Drill hole RO16-16 targeted the same Geoprobe line as above (ROSGP13-06) where a series of seven holes returned between 0.144-0.228 g/t Au from 5 m intervals. This hole intersected light grey to pale orange quartz-feldspar-biotite orthogneiss in the upper 10.5 m then medium to dark grey quartz-biotite schist to 58.0 m. This hole had multiple 1.52 m intervals with 10-35% quartz vein material (one interval with 60% quartz vein) but the quartz vein was generally featureless or weakly chlorite altered. This hole returned elevated gold concentrations over a large interval (0.31 g/t Au over 38.1 m) including two 1.52 m intervals with >0.8 g/t Au and one 1.52 m interval with 1.26 g/t Au.

### **SAMPLING PROCEDURES**

For each 1.52 metre interval (5 feet), the RAB drill produces approximately 15-25 kilograms of typically dry rock chips (chips measure up to 5 mm diameter) collected from the cyclone and homogenized using a riffle splitter. A 2-4 kg representative sample for analysis was collected from each 1.52 m interval. Samples were submitted to SGS Canada Inc.'s laboratory facility in Vancouver, an ISO 17025 certified facility.

Upon arrival at the laboratory, rock chip samples were weighed and dried. Each sample was then crushed to 75% passing 2 mm, split into a 250 gram (g) sample that was pulverized to 85% passing 75 microns (SGS PRP89). A 0.25 g (Inductively Coupled Plasma - ICP) and 30 g (fire assay- FA) subsample was obtained from the resulting material for analysis. Samples were analysed by aqua regia digestion and inductively coupled plasma with optical emission spectroscopy (ICP-OES) analysis for 34-elements (SGS GE ICP14B). Gold was analysed by fire assay and atomic absorption spectroscopy (SGS GE FAA313). Assay certificates of analysis, laboratory certification and analytical method summaries are presented in Appendix 2.

## **QUALITY ASSURANCE/QUALITY CONTROL**

For Quality Assurance-Quality Control (QA-QC) purposes, blanks (CDN-BL-10, purchased from CDN Resource Laboratories) were inserted on every sample identification number ending in 20, 50 and 80; while a gold standard (CDN-GS-5R, purchased from CDN Resource Laboratories) was inserted on every sample identification number that ended in 30, 60 and 90. The values from these blanks were used to check for contamination between samples, and gold standards were used to check the consistency of the analytical procedures used by SGS Canada Inc. Erroneous QA-QC results were investigated and appropriate re-analysis undertaken when necessary. Internal SGS Canada Inc. blanks, duplicates, standards and spikes were also used to confirm the accuracy of the analytical methods and instruments.

Two charts below summarize the results from the QA-QC sampling. QA-QC samples passed without any significant concerns. No blank samples returned a result above detection (Figure 9). All the gold standards returned gold values within 1 standard deviation from the expected value (Figure 10). As a result no QA-QC failures were reported.

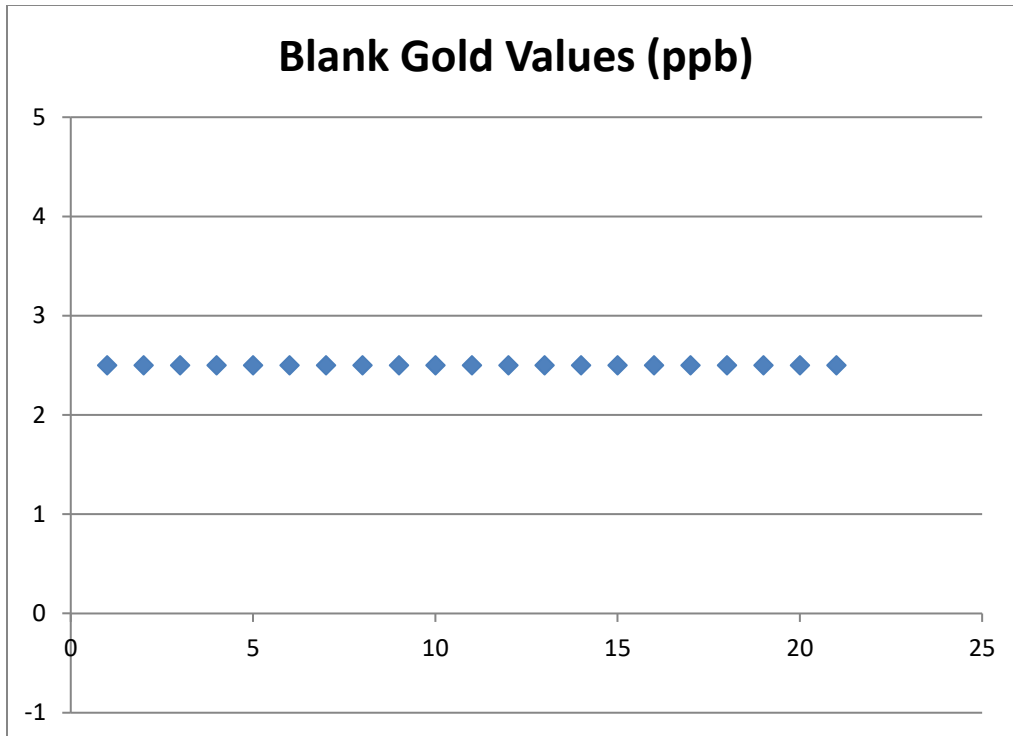


Figure 9: Blank Gold Values from the 2016 Drilling Program

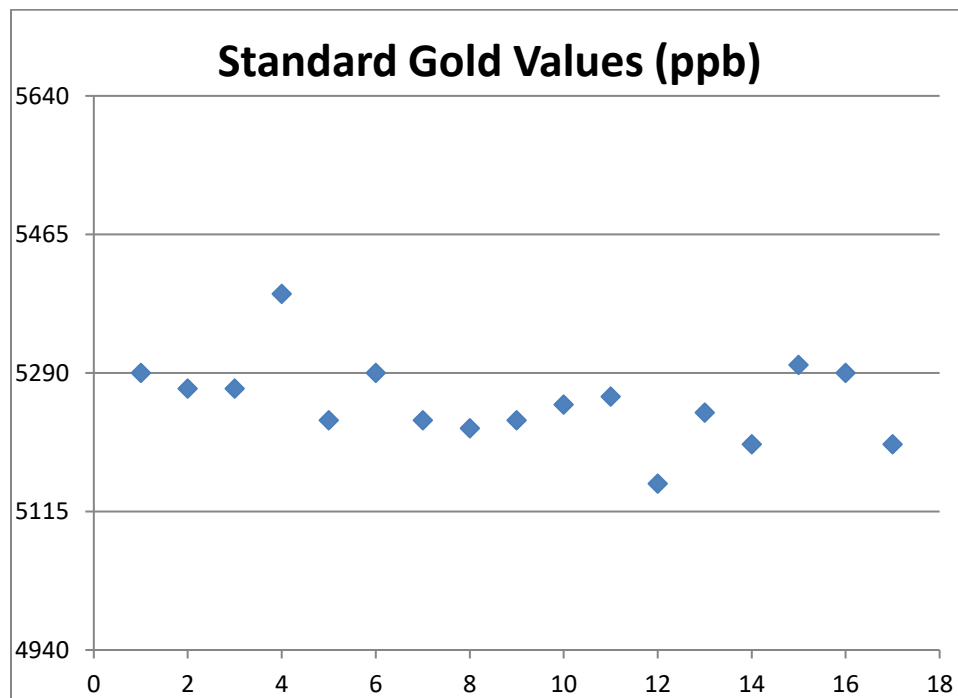


Figure 10: Gold Standard Value from the 2016 Drilling Program, plotted against Standard Deviations

## DISCUSSIONS AND CONCLUSIONS

The 2016 exploration program included prospecting the previously excavated Hudbay Zone trenches and the Southeast zone soil anomaly, conducting a ground based magnetic survey and drill testing soil and trench anomalies within the Hudbay Zone with a RAB drill.

The prospecting resulted in the collection of nine rock samples and twelve structural measurements. The prospecting helped define that the foliation in the Hudbay Zone is generally east-west striking with a gentle, undulating dip to the south. No outcrop was found in the Southeast zone but test pits dug at anomalous soil sites revealed metasedimentary rocks and quartz vein fragments.

The 58.5 line km ground based magnetic survey over the Hudbay Zone provided better definition of the underlying rock magnetic properties as well as recognition of E-W to NW-SE faulting.

The 12 RAB drill holes (923.5 m) tested rock and soil anomalies at the Hudbay Zone and returned 581 rock samples representing 5 foot intervals (~1.52m). All drill holes were drilled to the north at -70° dip to test east-west striking foliation, dipping gently south (<10°) and predominately coincident cm-scale quartz veins.

Drills holes RO16-15 and RO16-16, located in the northern portion of the Hudbay anomaly returned the most encouraging results. RO16-15 intersected 0.59 g/t Au over 24.38 m, including 2.50 g/t Au over 1.52 m. RO16-16 intersected 0.31 g/t Au over 38.1 m, including 1.26 g/t Au over 1.5 m.

## RECOMMENDATIONS

The following recommendations can be made for further work on the Rosebute property:

1. The main Hudbay soil anomaly was not fully tested during the 2016 RAB drill program and the following areas should be considered for further evaluation:
  - RO16-15 and RO16-16 are situated in the center of the northern soil anomaly which extends a further 200 m to the north and south. These two drill holes intersected the highest-grade intervals from the 2016 program and rock results up to 4.56 g/t Au in Geoprobe trench 13-08 (located 208 m north of RO16-15) could be a continuation of this mineralization.
  - A gold-in-soil anomaly extends west-northwestwards from RO16-12 for an additional 200 metres and this area is undrilled.
  - The Hudbay anomaly is open to the southwest with no geochemical or geophysical survey coverage. Soil sampling should be conducted to evaluate this area and if anomalous results are returned, geophysical surveys should be considered. Geoprobe trenching in advance of drilling is an effective strategy to outline drill targets.
2. The Southeast Zone measures 850 metres north-south, is up to 150 m wide and was not extensively evaluated in 2016. The Geoprobe rig should be used to create 4-5, east-west lines along the trend of the Zone to confirm the calibre of the multi-element soil anomaly and define drill targets.
3. RO12-01 was drilled in the Norwest Zone and returned 1.0 g/t Au over 22.6 metres, starting a depth of 23 m down hole. This drill hole is centrally located within a soil anomaly that measures 350 m north-south and 230 metres east-west. The soil anomaly is open to the south where there is no sampling in Rosebute Creek. Drill testing the intercept further to the south is warranted.

## REFERENCES

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- Hulstein, R., 2003. Report on the 2003 Geochemical and Geological Work on the LJS Property, Dawson Mining District, Yukon, Assessment Report 094441

## STATEMENT OF QUALIFICATIONS

I, Bruce G. Kienlen, P.Geol, of 4763 Cove Cliff Road, North Vancouver, British Columbia, hereby certify that:

I am a graduate of the University of Alberta having obtained a Bachelor of Science degree in geology in 1996.

I am a registered member in good standing of the Association of Professional Engineers and Geoscientists of Alberta since 1996.

I am employed as a Senior Geologist with Canterra Minerals Corporation. Suite 1020-625 Howe Street, Vancouver, British Columbia, Canada, V6C 2T6.

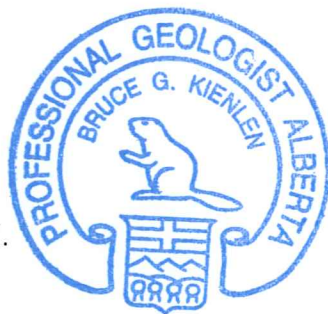
I have practiced my profession continuously since graduation in 1996.

I am an author of this report.

I assisted in the prospecting and logged the drill chips reported herein.

Dated at Vancouver, BC, this 21<sup>st</sup> day of February, 2017.

  
Bruce G. Kienlen, P. Geol.



## STATEMENT OF QUALIFICATIONS

I, David Gale, PGeo, MSc, of 3358 Passaglia Place, Coquitlam, British Columbia, hereby certify that:

I am a graduate of the Memorial University of Newfoundland having obtained the degree of Bachelor of Science in Geology in 1994 and am a graduate of Queen's University in Kingston having obtained a Master's of Science degree in Geology in 1997.

I am a registered member of the Association of Professional Engineers and Geoscientists of British Columbia (#27366).

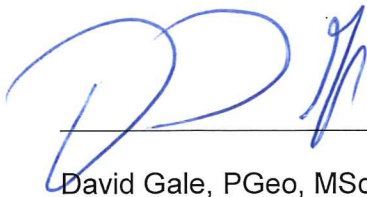
I have been continuously employed in the mineral exploration industry in Canada since 1994.

I am currently employed as a Senior Geologist, by Independence Gold Corp. Suite 1020-625 Howe Street, Vancouver, British Columbia, Canada, V6C 2T6.

I am an author of the report entitled "2016 Exploration Program on the Rosebute Project, Yukon"

I helped to manage, log rock chips and reviewed the geological work on site reported herein.

Dated this 21<sup>st</sup> day of February, 2017.



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David Gale, PGeo, MSc

## STATEMENT OF QUALIFICATIONS

I, Kendra A. Johnston, PGeo, BSc, MBA of Suite 206-1550 Barclay Street, Vancouver, British Columbia, hereby certify that:

I am a graduate of the University of Victoria, British Columbia having obtained the degree of Bachelor of Science in Earth and Ocean Science and Geography, 2005 and Smith School of Business at Queen's University having obtained the degree of Masters in Business Administration.

I am a registered member of the Association of Professional Engineers and Geoscientists of British Columbia (#37719).

I have been continuously employed in the mineral exploration industry in Canada since 2005.

I am currently employed as Manager, Corporate Development, by Independence Gold Corp. Suite 1020-625 Howe Street, Vancouver, British Columbia, Canada, V6C 2T6.

I am an author of the report entitled "2016 Exploration Program on the Rosebute Project, Yukon" dated February 21, 2017.

I helped to manage and reviewed the geological work reported herein.

Dated this 21<sup>st</sup> day of February, 2017.



Kendra A. Johnston, PGeo, MBA, BSc,

## STATEMENT OF EXPENDITURES

|                               | <u>Quantity</u> | <u>Rate</u>    | <u>Cost</u>  |                                     |
|-------------------------------|-----------------|----------------|--------------|-------------------------------------|
| Soil/Rock Sample Analysis     | 581             | \$26.50        | \$15,396.50  |                                     |
| Sample Shipping               | 2               | \$250.00       | \$500.00     |                                     |
| Senior Geologist day(s)       | 36              | \$500.00       | \$18,000.00  |                                     |
| Camp support staff day(s)     | 36              | \$500.00       | \$18,000.00  |                                     |
| Padbuilder/technician days    | 15              | \$0.00         | \$0.00       |                                     |
| Driller day(s)                | 30              | \$0.00         | \$0.00       |                                     |
| Pilot day(s)                  | 18              | \$0.00         | \$0.00       |                                     |
| Planning and reporting day(s) | 12              | \$500.00       | \$6,000.00   |                                     |
| Camp Costs (per man day)      | 135             | \$225.00       | \$30,375.00  |                                     |
| Fixed Wing Flight(s)          | 6               | \$3,500.00     | \$21,000.00  |                                     |
| Helicopter Hour(s)            | 43              | \$1,650.00     | \$70,950.00  |                                     |
| Helicopter Fuel (drums)       | 21              | \$350.00       | \$7,350.00   |                                     |
| Drilling Contract             | 15              | \$6,300.00     | \$94,500.00  |                                     |
| Geophysical Contract          | 3               | \$3,345.00     | \$10,035.00  |                                     |
|                               |                 | Subtotal:      | \$292,106.50 |                                     |
|                               |                 | Supervision:   | 12%          | \$35,052.78                         |
|                               |                 | Total:         |              | \$327,159.28                        |
|                               |                 | Claims Worked: | 23           | <b>\$14,224.32</b> per claim worked |
|                               |                 | Claims         |              |                                     |
|                               |                 | Grouped:       | 694          | <b>\$471.41</b> per claim grouped   |

Date(s) Worked: June 3 - 4 and 27; July 31 - Aug 2; Aug 14 - Aug 28, 2016

Work Completed by: Independence Gold Corp., Ground Truth Exploration

## APPENDIX 1 DRILL LOGS

### Legend

|          |                         |       |                                                                                 |
|----------|-------------------------|-------|---------------------------------------------------------------------------------|
| CAS      | Casing                  | ppm   | parts per million                                                               |
| QBS      | Quartz Biotite Schist   | Ox    | Oxidation 1-5 with 1: very weak, 2: Weak, 3: Moderate, 4: Strong and 5: Intense |
| QMS      | Quartz Muscovite Schist | Qtz   | Quartz                                                                          |
| CS       | Chlorite Schist         | sx    | Sulphides                                                                       |
| QTZT     | Quartzite               | cm    | Centimeter                                                                      |
| GR       | Granite                 | mm    | Millimeter                                                                      |
| ARG      | Argillite               | py    | Pyrite                                                                          |
| VN       | Vein                    | po    | Pyrrhotite                                                                      |
| From, To | measured in metres      | cpy   | Chalcopyrite                                                                    |
| ppb      | parts per billion       | aspy  | Arsenopyrite                                                                    |
| -1       | Below Detection Limit   | LB    | Logged By                                                                       |
| Qtz Vn   | Quartz Vein (pct)       | dk gy | Dark Grey                                                                       |
| Lt bn    | Light Brown             | gn    | green                                                                           |
| or       | orange                  | wt    | white                                                                           |
| str      | Strong                  | Diss  | Disseminated                                                                    |
| med      | Medium                  | wk    | Weak                                                                            |
| tr       | Trace                   |       |                                                                                 |

## Drill Hole RO16-05

| From (ft) | To (ft) | Colour        | SampleID  | Lith Code | Description                                                                                                                                                                                                                                                        | Ox Int | Qtz Vn % | Cal Vn % | Chl Int | Ser Int | Carb Int | PY % | PO % |
|-----------|---------|---------------|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|---------|---------|----------|------|------|
| 0         | 10      |               |           | OB        |                                                                                                                                                                                                                                                                    |        |          |          |         |         |          |      |      |
| 10        | 15      | Reddish Brown | D00017844 | OGN       | Variably coloured chips generally reddish to orange to dirty tan. Chips of salmon pink feldspars, white quartz vein or specks of black-dark green mineral (?) and common reddish margins (hematite or potassic alteration?) and yellow blotchy sericite; trace     | 3      | 5        |          |         | 3       | 3        | 0.1  |      |
| 15        | 20      | Light Brown   | D00017845 | OGN       | Biotite rich clay altered chips make up majority with ~30% salmon pink to red feldspar crystals; chips are very small.                                                                                                                                             | 3      | 5        |          |         |         |          |      |      |
| 20        | 25      | Brown         | D00017846 | OGN       | As above, rare chip with predominantly muscovite; trace well oxidized orange quartz vein, non magnetic.                                                                                                                                                            | 3      | 3        |          |         |         |          |      |      |
| 25        | 30      | Brown         | D00017847 | OGN       | As above except 35% pink feldspar crystals and 10-15% probably creamy quartz (not quartz vein); clay alteration still common +/- biotite rich chips and on all chips except white quartz vein; rare rusty fracture surfaces with possible oxidated pyrite;         | 3      | 3        |          |         |         |          |      |      |
| 30        | 35      | Light Brown   | D00017848 | OGN       | As above but biotite-rich chips less common; majority light translucent--orange/tan with biotite flecks, pink feldspar ~20% quartz vein generally white with trace pyrite very small blebs partially oxidized; rare rusty streaks in gneiss that may be ??? pyrite | 3      | 25       |          |         |         |          | 0.1  |      |
| 35        | 40      | Brown         | D00017849 | OGN       | As above, less quartz vein; oxidation may be stronger, limonite more intense--deeper brown; non-magnetic.                                                                                                                                                          | 4      | 3        |          |         |         |          |      |      |
| 40        | 45      | Orange Brown  | D00017851 | OGN       | 45% salmon pink to orange feldspars + 10% deep earthy red feldspar (?); oxidation in other chips as intense as previous interval; quartz vein rare; non magnetic; no sulphides seen.                                                                               | 4      | 0.1      |          |         |         |          |      |      |
| 45        | 50      | Orange Brown  | D00017852 | OGN       | 50% Pink orange feldspar, 20% biotite rich chips; common hematite alteration along chip edges; ~30% biotite poor chips; no pyrite seen.                                                                                                                            | 3      | 2        |          |         |         |          |      |      |
| 50        | 55      | Orange Brown  | D00017853 | OGN       | As above; non magnetic                                                                                                                                                                                                                                             | 3      | 5        |          |         |         |          |      |      |
| 55        | 60      | Orange Brown  | D00017854 | OGN       | As above; 40% pink-orange feldspar. Even mix biotite poor/biotite rich chips; non magnetic.                                                                                                                                                                        | 3      | 2        |          |         |         |          |      |      |

## Drill Hole RO16-06

|   |    |     |           |     |                                                                                                                                                                                                                                                               |   |    |  |  |  |   |  |  |
|---|----|-----|-----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|--|--|--|---|--|--|
| 0 | 5  |     |           | OB  |                                                                                                                                                                                                                                                               |   |    |  |  |  |   |  |  |
| 5 | 10 | Tan | D00017857 | OGN | Weakly foliated orangey-tan feldspar + quartz--called orthogneiss based on hand samples in field; unit has variable constituent ratios with feldspars commonly salmon pink to orange, quartz orange-creamy white, biotite between 5-30%+ in a feldspar matrix | 3 | 20 |  |  |  | 3 |  |  |

| From<br>(ft) | To<br>(ft) | Colour      | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                      | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|-------------|-----------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 10           | 15         | Tan         | D00017858 | OGN          | 30% pink-orange and light pink feldspars; 20% biotite-rich (+50%) chips with clay alteration; oxidation strong on biotite-rich and biotite-poor chips (20%); feldspars show clay alteration on surfaces; quartz vein is white to cream (quartz vein?) with no vi | 3         | 30          |             |            |            | 3           |         |         |
| 15           | 20         | Tan         | D00017859 | OGN          | As above; several white quartz chips have feldspar-pink colouration that appears to be gradational but maybe actual feldspar crystals on quartz. Biotite poor and rich chips most abundant in interval; quartz vein shows no sulphides but some rusty stains.    | 3         | 5           |             |            |            | 3           |         |         |
| 20           | 25         | Pink        | D00017861 | OGN          | 75% salmon pink to orange feldspars, 10% strongly oxidized to clay, the rest weak to moderately oxidation altered, 1% red colouration on feldspar (hematite?).                                                                                                   | 3         | 2           |             |            |            | 3           |         |         |
| 25           | 30         | Pink        | D00017862 | OGN          | As above, ~80% feldspars slightly less strongly oxidized chips.                                                                                                                                                                                                  | 3         | 0.1         |             |            |            | 3           |         |         |
| 30           | 35         | Pink        | D00017863 | OGN          | As above; 30% white quartz vein, no sulphides seen; predominantly pink feldspars, moderate to strongly oxidized with some chips intensely clay altered.                                                                                                          | 3         | 30          |             |            |            | 3           |         |         |
| 35           | 40         | Pink        | D00017864 | OGN          | As above; red hematite alteration on ~25% of chips; non-magnetic.                                                                                                                                                                                                | 3         | 15          |             |            |            | 3           |         |         |
| 40           | 45         | Orange-Pink | D00017865 | OGN          | As above but 30% biotite poor chips; 20% white quartz vein; oxidation as above but biotite chips show more clay alteration than coarser feldspars (typical of this rock unit).                                                                                   | 3         | 20          |             |            |            | 2           |         |         |
| 45           | 50         | Tan         | D00017866 | OGN          | Predominantly biotite-poor chips, moderate to strong clay oxidation; trace quartz vein.                                                                                                                                                                          | 4         | 0.1         |             |            |            |             |         |         |
| 50           | 55         | Tan         | D00017867 | OGN          | As above; ~60% biotite poor chips; oxidation seems more extensive, possibly due to biotite-poor chips abundance; feldspar chips show blebby but pervasive clay alteration.                                                                                       | 4         | 2           |             |            |            | 2           |         |         |
| 55           | 60         | Orange-Tan  | D00017868 | OGN          | As above. ~50% biotite-poor chips.                                                                                                                                                                                                                               | 4         | 2           |             |            |            | 2           |         |         |
| 60           | 65         | Orange-Tan  | D00017869 | OGN          | As above; 60% biotite-poor chips strongly clay altered, 10% biotite rich chips; 10% hematized chips.                                                                                                                                                             | 4         | 2           |             |            |            | 2           |         |         |
| 65           | 70         | Orange-Tan  | D00017870 | OGN          | As above also ~10% hematite chips                                                                                                                                                                                                                                | 4         | 2           |             |            |            | 2           |         |         |
| 70           | 75         | Orange-Tan  | D00017872 | OGN          | As above; 15% hematite chips, 50% biotite-poor chips                                                                                                                                                                                                             | 4         | 2           |             |            |            | 2           |         |         |
| 75           | 80         | Orange-Tan  | D00017873 | OGN          | As above but 60% feldspars, 20% biotite-rich chips, 10% hematite chips                                                                                                                                                                                           | 3         | 5           |             |            |            | 2           |         |         |
| 80           | 85         | Orange-Tan  | D00017874 | OGN          | As above; possible trace oxidation pyrite on quartz vein chip                                                                                                                                                                                                    | 3         | 3           |             |            |            | 3           | 0.1     |         |
| 85           | 90         | Orange-Tan  | D00017875 | OGN          | As above; no sulphides seen                                                                                                                                                                                                                                      | 3         | 2           |             |            |            | 3           |         |         |

| From<br>(ft) | To<br>(ft) | Colour     | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 90           | 95         | Orange-Tan | D00017876 | OGN          | As above; 25% white quartz vein, still 60% feldspar                                                                                                                                                                        | 3         | 25          |             |            |            | 3           |         |         |
| 95           | 100        | Orange-Tan | D00017877 | OGN          | As above; rare large chip of green chlorite with flat surface, possible veinlet.                                                                                                                                           | 2         | 6           |             |            |            | 3           |         |         |
| 100          | 105        | Orange-Tan | D00017878 | OGN          | As above. Bit more mix biotite-rich, biotite-poor pink feldspars and quartz vein; hematite alteration still ~5-10% still no sulphides visible. Oxidation weak to moderate and more visible on biotite-rich and poor chips. | 2         | 10          |             |            |            | 3           |         |         |
| 105          | 110        | Orange-Tan | D00017879 | OGN          | As above; 50% feldspar; 15% dark grey biotite-clay chips (scratches easily).                                                                                                                                               | 3         | 2           |             |            |            |             |         |         |
| 110          | 115        | Orange-Tan | D00017881 | OGN          | As above, predominantly biotite-poor to biotite-rich chips; selective hematite alteration on <5% of chips.                                                                                                                 | 2         | 4           |             |            |            |             |         |         |
| 115          | 120        | Orange-Tan | D00017882 | OGN          | Almost all biotite-poor chips with ~20% biotite-rich chips                                                                                                                                                                 | 2         | 1           |             |            |            |             |         |         |
| 120          | 125        | Orange-Tan | D00017883 | OGN          | As above, 5% chlorite chips; one quartz vein chip has 5% oxidation partially, pyrite; feldspars a bit more common ~25%                                                                                                     | 2         | 5           |             |            |            | 0.1         |         |         |
| 125          | 130        | Light Tan  | D00017884 | OGN          | Predominantly cream to dirty quartz (70%) with 2-15% specks and flakes of biotite.                                                                                                                                         | 1         | 2           |             |            |            |             |         |         |
| 130          | 135        | Light Tan  | D00017885 | OGN          | Similar to above but ~40% cream quartz; feldspars range from faint pink to light salmon pink.                                                                                                                              | 1         | 3           |             |            |            |             |         |         |
| 135          | 140        | Pink-Tan   | D00017886 | OGN          | Predominantly light pink feldspars with dusting of black (biotite?) plus biotite-poor chips.                                                                                                                               | 1         | 1           |             |            |            |             |         |         |
| 140          | 145        | Pink-Tan   | D00017887 | OGN          | Back to more typical OGN seen in this hole with ~50% pink feldspars and biotite-poor to less common biotite-rich chips; oxidation less.                                                                                    | 1         | 1           |             |            |            |             |         |         |
| 145          | 150        | Grey-Tan   | D00017888 | OGN          | Biotite-rich to very rich chips more abundant cream coloured feldspars/quartz more abundant. Chlorite chips ~5% and moderately magnetic.                                                                                   | 2         | 3           |             |            |            |             |         |         |
| 150          | 155        | Tan        | D00017889 | OGN          | Cream coloured quartz and pale pink feldspar chips more common.                                                                                                                                                            | 1         | 5           |             |            |            |             |         |         |
| 155          | 160        | Tan        | D00017891 | OGN          | As above.                                                                                                                                                                                                                  | 1         | 15          |             |            |            |             |         |         |
| 160          | 165        | Grey-Tan   | D00017892 | OGN          | Dirty looking biotite-rich chips most common; medium pink feldspar also more common. Dark grey chips (not chlorite, must be biotite) are ~15% of chips and moderate to strongly magnetic.                                  | 1         | 2           |             |            |            |             |         |         |
| 165          | 170        | Orange     | D00017893 | OGN          | As above; dark grey chips less common but biotite-rich to biotite-poor chips are moderate to strongly magnetic; slight increase in oxidation/clay alteration.                                                              | 2         | 2           |             |            |            |             |         |         |
| 170          | 175        | Orange-Tan | D00017894 | OGN          | As above but not magnetic; quartz vein increases, no sulphides seen in white quartz vein; biotite-poor chips and tan coloured chips most common.                                                                           | 3         | 20          |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour       | SampleID  | Lith<br>Code | Description                                                                                                                               | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|--------------|-----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 175          | 180        | Red-Tan      | D00017895 | OGN          | As above, feldspars more pink to red colour, all chips appear more pink to red; only a few chips magnetic; still moderately clay altered. | 3         |             |             |            |            |             |         |         |
| 180          | 185        | Orange-Tan   | D00017896 | OGN          | As above, red colour not as common, chips most commonly biotite-poor; non-magnetic                                                        | 3         | 5           |             |            |            |             |         |         |
| 185          | 190        | Red Brown    | D00017897 | OGN          | As above, biotite-rich chips and feldspar crystals most common; Red colour returns, most noticeably in feldspars; non-magnetic.           | 3         | 3           |             |            |            |             |         |         |
| 190          | 195        | Red Brown    | D00017898 | OGN          | As above, predominantly biotite-rich chips then reddish feldspars. Non-magnetic.                                                          | 3         | 2           |             |            |            |             |         |         |
| 195          | 200        | Red Brown    | D00017899 | OGN          | As above; increase quartz vein, white , no visible sulphides.                                                                             | 3         | 15          |             |            |            |             |         |         |
| 200          | 205        | Red Brown    | D00017900 | OGN          | As above; less quartz vein.                                                                                                               | 3         | 2           |             |            |            |             |         |         |
| 205          | 210        | Red Brown    | D00017901 | OGN          | As above.                                                                                                                                 | 3         |             |             |            |            |             |         |         |
| 210          | 215        | Red Brown    | D00017902 | OGN          | As above.                                                                                                                                 | 3         |             |             |            |            |             |         |         |
| 215          | 220        | Red Brown    | D00017903 | OGN          | As above.                                                                                                                                 | 3         | 1           |             |            |            |             |         |         |
| 220          | 225        | Red Brown    | D00017904 | OGN          | As above, slightly greater % biotite in biotite-rich chips which are predominant; less oxidation/clay alteration; non-magnetic.           | 2         | 1           |             |            |            |             |         |         |
| 225          | 230        | Red Brown    | D00017905 | OGN          | As above except biotite percentage returns to previous levels in biotite-rich chips (15-30%).                                             | 3         | 2           |             |            |            |             |         |         |
| 230          | 235        | Pink Brown   | D00017906 | OGN          | As above; red colour fades a bit; quartz vein increases, still no sulphides.                                                              | 3         | 5           |             |            |            |             |         |         |
| 235          | 240        | Orange Brown | D00017907 | OGN          | As above, feldspar mix of dark pink to pale orange.                                                                                       | 3         | 1           |             |            |            |             |         |         |
| 240          | 245        | Red Brown    | D00017908 | OGN          | As above, slightly darker.                                                                                                                | 2         | 0.5         |             |            |            |             |         |         |
| 245          | 250        | Red Brown    | D00017909 | OGN          | As above; slightly darker again, more biotite-rich chips than pink to reddish feldspar.                                                   | 3         | 0.5         |             |            |            |             |         |         |

### Drill Hole RO16-07

|    |    |     |           |    |                                                                                                                                                                           |   |    |  |  |  |  |  |  |
|----|----|-----|-----------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|--|--|--|--|--|--|
| 0  | 10 |     |           | OB |                                                                                                                                                                           |   |    |  |  |  |  |  |  |
| 10 | 15 | Tan | D00017910 | QV | Predominantly quartz vein, with tan clay alteration coating (from feldspar most likely); 25% salmon-pink to orange feldspars with some clay alteration; no sulphides seen | 4 | 70 |  |  |  |  |  |  |

| From<br>(ft) | To<br>(ft) | Colour        | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                      | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|---------------|-----------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 15           | 20         | Pink          | D00017912 | OGN          | Predominantly pink feldspar crystals and tan to pink chips, with no to low biotite (biotite-poor) mix of feldspar and quartz matrix; traces of muscovite on some chips; foliation is moderate, defined by mm scale quartz bands in chips (greyish orange colour) | 3         | 3           |             |            |            |             |         |         |
| 20           | 25         | Pink          | D00017913 | OGN          | As above; pinkish hue more common +/- chips                                                                                                                                                                                                                      | 2         | 3           |             |            |            |             |         |         |
| 25           | 30         | Orange<br>Tan | D00017914 | OGN          | As above; pinkish hue fades somewhat biotite-poor chips most common; hematite alteration present on rare chips.                                                                                                                                                  | 3         |             |             |            |            |             |         |         |
| 30           | 35         | Orange<br>Tan | D00017915 | OGN          | As above                                                                                                                                                                                                                                                         | 3         |             |             |            |            |             |         |         |
| 35           | 40         | Tan           | D00017916 | OGN          | Oxidation slightly more intense, clay covered chips more common, feldspar dark pink to orange.                                                                                                                                                                   | 4         | 5           |             |            |            |             |         |         |
| 40           | 45         | Dark Tan      | D00017917 | OGN          | Mixed light pink to dark pink feldspar with biotite-poor to biotite-rich to very rich chips plus quartz vein often with tan clay; non-magnetic; no sulphides                                                                                                     | 3         | 15          |             |            |            |             |         |         |
| 45           | 50         | Orange<br>Tan | D00017918 | OGN          | As above; dark pink feldspars more common; several larger than typical quartz vein chips, one with possible tiny speck of pyrite plus very thin rusty fracture fill                                                                                              | 3         | 30          |             |            |            |             | 0.1     |         |
| 50           | 55         | Tan           | D00017919 | OGN          | Chips almost all coated with clay oxidation/alteration including quartz-rich or quartz vein chips; majority of chips are biotite-poor orthogneiss: no sulphides                                                                                                  | 4         | 20          |             |            |            |             |         |         |
| 55           | 60         | Orange<br>Tan | D00017921 | OGN          | Slightly less clay oxidation/alteration; biotite-poor chips most common                                                                                                                                                                                          | 3         | 10          |             |            |            |             |         |         |
| 60           | 65         | Tan           | D00017922 | OGN          | As above                                                                                                                                                                                                                                                         | 4         | 5           |             |            |            |             |         |         |
| 65           | 70         | Tan           | D00017923 | OGN          | As above; trace rust oxidation on surfaces                                                                                                                                                                                                                       | 4         | 5           |             |            |            |             |         |         |
| 70           | 75         | Brown         | D00017924 | OGN          | Biotite-rich chips more common; oxidation/alteration slightly less (could be due to biotite content).                                                                                                                                                            | 3         | 2           |             |            |            |             |         |         |
| 75           | 80         | Brown         | D00017925 | OGN          | As above; non-magnetic                                                                                                                                                                                                                                           | 3         | 1           |             |            |            |             |         |         |
| 80           | 85         | Pink<br>Brown | D00017926 | OGN          | As above; biotite-rich chips most abundant; dark pink feldspars more common ~20%                                                                                                                                                                                 | 2         | 1           |             |            |            |             |         |         |
| 85           | 90         | Pink<br>Brown | D00017927 | OGN          | As above                                                                                                                                                                                                                                                         | 2         | 1           |             |            |            |             |         |         |
| 90           | 95         | Pink<br>Brown | D00017928 | OGN          | As above; dark pink feldspar ~30%; dark grey biotite - very rich chips ~5%; non magnetic.                                                                                                                                                                        | 2         |             |             |            |            |             |         |         |
| 95           | 100        | Pink<br>Brown | D00017929 | OGN          | As above; some feldspars darker pink/red                                                                                                                                                                                                                         | 2         |             |             |            |            |             |         |         |
| 100          | 105        | Brown         | D00017931 | OGN          | As above; biotite-rich and very rich ~60%; salmon pink to orange to reddish feldspars ~35%                                                                                                                                                                       |           |             |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour         | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|----------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 105          | 110        | Red Dark Brown | D00017932 | OGN          | As above; biotite very rich ~30% (biotite very rich >30% biotite)                                                                                                                                                                                               | 2         | 0.1         |             |            |            |             |         |         |
| 110          | 115        | Orange Tan     | D00017933 | OGN          | As above; biotite rich chips have reddish feldspar matrix generally non-magnetic                                                                                                                                                                                | 1         |             |             |            |            |             |         |         |
| 115          | 120        | Orange Tan     | D00017934 | OGN          | Biotite-poor chips most common                                                                                                                                                                                                                                  | 2         | 0.5         |             |            |            |             |         |         |
| 120          | 125        | Pink Brown     | D00017935 | OGN          | As above                                                                                                                                                                                                                                                        | 2         | 0.1         |             |            |            |             |         |         |
| 125          | 130        | Pink Brown     | D00017936 | OGN          | Biotite-rich chips more common @ 60% and pink feldspars 30%                                                                                                                                                                                                     | 2         | 5           |             |            |            |             |         |         |
| 130          | 135        | Brown          | D00017937 | OGN          | Biotite very rich 40%; pink feldspars 30%                                                                                                                                                                                                                       | 1         | 0.5         |             |            |            |             |         |         |
| 135          | 140        | Brown          | D00017938 | OGN          | Even mix biotite-poor and biotite-rich chips; <25% feldspar                                                                                                                                                                                                     | 1         | 2           |             |            |            |             |         |         |
| 140          | 145        | Brown          | D00017939 | OGN          | Biotite-rich to very rich more common ~60%                                                                                                                                                                                                                      | 1         | 0.5         |             |            |            |             |         |         |
| 145          | 150        | Brown          | D00017940 | OGN          | As above; feldspar still 25%                                                                                                                                                                                                                                    | 1         | 0.5         |             |            |            |             |         |         |
| 150          | 155        | Brown          | D00017942 | OGN          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |
| 155          | 160        | Brown          | D00017943 | OGN          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |
| 160          | 165        | Brown          | D00017944 | OGN          | As above; possible iron staining on feldspar chips                                                                                                                                                                                                              | 1         |             |             |            |            |             |         |         |
| 165          | 170        | Brown          | D00017945 | OGN          | As above; feldspar fragments deeper red colour                                                                                                                                                                                                                  | 1         |             |             |            |            |             |         |         |
| 170          | 175        | Brown          | D00017946 | OGN          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |
| 175          | 180        | Brown          | D00017947 | OGN          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |
| 180          | 185        | Brown          | D00017948 | OGN          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |
| 185          | 190        |                | D00017949 | OGN          | As above                                                                                                                                                                                                                                                        |           | 1           |             |            |            |             |         |         |
| 190          | 195        | Brown          | D00017951 | OGN          | As above; still biotite-rich most common with ~25% biotite very rich chips, 30% salmon pink to orange feldspar with <5% deep pink/red feldspar, no sulphides; trace white quartz vein; very weak oxidation/clay alteration selective on chips: foliation seen a | 1         | 0.1         |             |            |            |             |         |         |
| 195          | 200        | Orange Brown   | D00017952 | OGN          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |

### Drill Hole RO16-08

|   |    |          |           |      |                                                                                                                                                                                                                            |  |     |  |     |  |  |  |  |
|---|----|----------|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|-----|--|--|--|--|
| 0 | 5  | Tan      | D00017953 | QTZT | Predominantly tan coloured dirty quartzite grades from dark tan with black specks to clean buff colour; rare pieces of pale pink feldspar. Not sure where bedrock intersected; no sulphides seen; trace white quartz vein. |  | 0.1 |  |     |  |  |  |  |
| 5 | 10 | Dark Tan | D00017954 | QTZT | Mix of dirty massive quartzite to QBS with <30% weakly foliated feldspathic chips with bitotie marking foliation; quartzite has rare pieces with chlorite alteration; no sulphides seen, non-magnetic.                     |  |     |  | 0.1 |  |  |  |  |

| From<br>(ft) | To<br>(ft) | Colour     | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                             | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 10           | 15         | Dark Grey  | D00017955 | BS           | Predominantly black well foliated chips with tan clay alteration on surface and scratches (<6 hardness) easily leaving a grey-brown powder; other chips salmon pink feldspars, one with tiny dark brown mineral 90° cleavage and elongate (pyroxene).   |           | 0.1         |             |            |            |             |         |         |
| 15           | 20         | Orange Tan | D00017956 | QTZT         | Dirty quartzite with 15-30% biotite as fine grained; weakly foliated, non-magnetic; trace pink feldspar crystals; white quartz vein. No sulphides.                                                                                                      |           | 5           |             |            |            |             |         |         |
| 20           | 25         | Brown      | D00017957 | QTZT         | As above but 25% pink feldspar crystals, occasionally attached to quartzite chips (veinlets?); rare chip in quartzite is magnetic.                                                                                                                      |           | 5           |             |            |            |             |         |         |
| 25           | 30         | Brown      | D00017958 | QTZT         | As above, chips are darker--more biotite, some could be schistose (QBS) feldspar chips still 25%; non-magnetic.                                                                                                                                         |           |             |             |            |            |             |         |         |
| 30           | 35         | Pink Brown | D00017959 | QTZT         | Generally as above; some chips show pinkish colouration which could be alteration or there is feldspar in unit; also some traces of tan clay alteration---perhaps quartz-feldspathic; trace quartz vein shows rusty surface possible relic pyrite.      | 0.1       | 0.1         |             |            |            |             |         |         |
| 35           | 40         | Brown      | D00017961 | QTZT         | As above, dirty biotite-rich quartzite with biotite up to 30% as fine crystals marking weak to moderate foliation. Non-magnetic. White quartz vein <1% and is clean, no sulphides; pink feldspar ~20-25%.                                               |           | 1           |             |            |            |             |         |         |
| 40           | 45         | Brown      | D00017962 | QTZT         | As above; some highly oxidized fracture surfaces with rusty blebs, possible relic pyrite                                                                                                                                                                |           |             |             |            |            |             | 0.1     |         |
| 45           | 50         | Brown      | D00017963 | QTZT         | As above.                                                                                                                                                                                                                                               |           |             |             |            |            |             |         |         |
| 50           | 55         | Dark Grey  | D00017964 | QBS          | Dark grey biotite-rich chips, quartz matrix (dirty translucent cream colour); about half chips strongly magnetic; may not be quite schistose.                                                                                                           | 0.1       | 2           |             |            |            |             |         |         |
| 55           | 60         | Dark Grey  | D00017965 | QBS          | 75% QBS as above; 10% pink feldspars; 15% tan biotite-poor quartzite.                                                                                                                                                                                   |           | 2           |             |            |            |             |         |         |
| 60           | 65         | Brown      | D00017966 | QTZT         | Dirty quartzite, biotite-rich predominantly similar to previous quartzite; <10% biotite-poor; 15% pink feldspar chips; slight oxidation on some chips as rusty surface. White quartz vein is <1% and pure white (tiny) <10% QBS as above; non-magnetic. | 1         | 1           |             |            |            |             |         |         |
| 65           | 70         | Brown Grey | D00017967 | QTZT         | As above; a bit more grey looking; non-magnetic; <10% pink feldspar.                                                                                                                                                                                    |           |             |             |            |            |             |         |         |
| 70           | 75         | Pink Brown | D00017968 | QTZT         | Predominantly quartzite as above (55%); 25% pink feldspars plus 15% pink feldspar with minor biotite, 5% QBS; non-magnetic; white quartz vein has no sulphides.                                                                                         |           | 3           |             |            |            |             |         |         |
| 75           | 80         | Grey       | D00017969 | QTZT         | Mixed interval dirty quartzite, 15% QBS, 20% pink feldspar +/- biotite and 5% quartz muscovite schist (QMS) plus white quartz vein; non-magnetic; no sulphides seen.                                                                                    |           | 10          |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour     | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                         | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------|-----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 80           | 85         | Tan        | D00017970 | QTZT         | Similar to above, dirty quartzite most abundant (50%), QMS-MS (20%); feldspar +/- biotite (15%), 5% dark grey biotite-rich quartzite (?) which is moderate to strongly magnetic; no sulphides seen.                                 |           | 10          |             |            |            |             |         |         |
| 85           | 90         | Dark Grey  | D00017972 | QBS          | Predominantly QBS with ~40% dirty biotite-rich to biotite-poor quartzite with minor muscovite; pink feldspar <5%; QBS and quartzite are moderately magnetic with rare strong magnetic QBS.                                          |           | 1           |             |            |            |             |         |         |
| 90           | 95         | Brown      | D00017973 | QTZT         | Dirty biotite-rich quartzite predominantly 15% pink feldspar chips plus rare moderate to strong foliation or banded quartz feldspar +/- biotite; non-magnetic.                                                                      |           | 1           |             |            |            |             |         |         |
| 95           | 100        | Pink Brown | D00017974 | QTZT         | 55% dirty biotite-rich quartzite as above with 45% salmon pink feldspar with oxidized fracture surfaces (rusty biotite and tan clay) on some chips; 1% white quartz vein sometimes with pink feldspar attached; no sulphides.       |           | 1           |             |            |            |             |         |         |
| 100          | 105        | Pink Brown | D00017975 | OGN          | Salmon pink feldspar chip and some feldspar and tan quartz and biotite; latter is very similar to previous quartzite although quartzite showed no feldspar; non-magnetic; moderate foliation defined by banding and biotite fabric. |           | 2           |             |            |            |             |         |         |
| 105          | 110        | Pink Brown | D00017976 | OGN          | As above.                                                                                                                                                                                                                           |           | 0.1         |             |            |            |             |         |         |
| 110          | 115        | Pink Brown | D00017977 | OGN          | As above; some dark green biotite-rich chips.                                                                                                                                                                                       |           | 1           |             |            |            |             |         |         |
| 115          | 120        | Pink Brown | D00017978 | OGN          | As above, little variation so far in this unit; non-magnetic; no sulphides.                                                                                                                                                         |           | 2           |             |            |            |             |         |         |
| 120          | 125        | Pink Brown | D00017979 | OGN          | As above.                                                                                                                                                                                                                           |           | 2           |             |            |            |             |         |         |
| 125          | 130        | Pink Brown | D00017981 | OGN          | As above; trace clay alteration on feldspars (oxidation).                                                                                                                                                                           | 1         | 0.1         |             |            |            |             |         |         |
| 130          | 135        | Pink Brown | D00017982 | OGN          | As above; white quartz no sulphides.                                                                                                                                                                                                |           | 1           |             |            |            |             |         |         |
| 135          | 140        | Pink Brown | D00017983 | OGN          | As above; slight decrease to 15% feldspar only chips.                                                                                                                                                                               | 1         | 3           |             |            |            |             |         |         |
| 140          | 145        | Pink Brown | D00017984 | OGN          | As above, back to abundant, perhaps more feldspar chips ~40% plus mixed feldspar-quartz-biotite chips, less than 10% of chips have no feldspars, non-magnetic.                                                                      | 1         |             |             |            |            |             |         |         |
| 145          | 150        | Brown Pink | D00017985 | OGN          | As above; more average feldspar chip abundance at 35-40%; non-magnetic, no sulphides.                                                                                                                                               |           | 1           |             |            |            |             |         |         |
| 150          | 155        | Pink Brown | D00017986 | OGN          | As above.                                                                                                                                                                                                                           |           |             |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour        | SampleID  | Lith<br>Code | Description                                                              | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|---------------|-----------|--------------|--------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 155          | 160        | Pink<br>Brown | D00017987 | OGN          | As above.                                                                |           | 1           |             |            |            |             |         |         |
| 160          | 165        | Pink<br>Brown | D00017988 | OGN          | As above.                                                                |           |             |             |            |            |             |         |         |
| 165          | 170        | Pink<br>Brown | D00017989 | OGN          | As above.                                                                |           | 1           |             |            |            |             |         |         |
| 170          | 175        | Pink<br>Brown | D00017991 | OGN          | As above; slightly lighter/paler pink feldspars.                         |           | 1           |             |            |            |             |         |         |
| 175          | 180        | Pink<br>Brown | D00017992 | OGN          | As above; slightly darker, increase in biotite-rich chips; non-magnetic. |           | 0.5         |             |            |            |             |         |         |
| 180          | 185        | Pink<br>Brown | D00017993 | OGN          | As above.                                                                |           |             |             |            |            |             |         |         |
| 185          | 190        | Pink<br>Brown | D00017994 | OGN          | As above.                                                                |           |             |             |            |            |             |         |         |
| 190          | 195        | Pink<br>Brown | D00017995 | OGN          | As above.                                                                |           | 5           |             |            |            |             |         |         |
| 195          | 200        | Pink<br>Brown | D00017996 | OGN          | As above.                                                                |           | 2           |             |            |            |             |         |         |
| 200          | 205        | Pink<br>Brown | D00017997 | OGN          | As above.                                                                |           | 3           |             |            |            |             |         |         |
| 205          | 210        | Pink<br>Brown | D00017998 | OGN          | As above.                                                                |           | 0.5         |             |            |            |             |         |         |
| 210          | 215        | Pink<br>Brown | D00017999 | OGN          | As above.                                                                |           |             |             |            |            |             |         |         |
| 215          | 220        | Pink<br>Brown | D00018000 | OGN          | As above; slightly darker, increase in biotite-rich; still non-magnetic. |           | 0.5         |             |            |            |             |         |         |
| 220          | 225        | Pink<br>Brown | D00018001 | OGN          | As above.                                                                |           | 1           |             |            |            |             |         |         |
| 225          | 230        | Pink<br>Brown | D00018002 | OGN          | As above; slightly lighter.                                              |           | 3           |             |            |            |             |         |         |
| 230          | 235        | Pink<br>Brown | D00018003 | OGN          | As above.                                                                |           | 0.5         |             |            |            |             |         |         |
| 235          | 240        | Pink<br>Brown | D00018004 | OGN          | As above; slightly darker; increase biotite-rich.                        |           | 0.1         |             |            |            |             |         |         |
| 240          | 245        | Pink<br>Brown | D00018005 | OGN          |                                                                          |           |             |             |            |            |             |         |         |
| 245          | 250        | Pink<br>Brown | D00018006 | OGN          |                                                                          |           | 0.1         |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour | SampleID | Lith<br>Code | Description | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|--------|----------|--------------|-------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
|--------------|------------|--------|----------|--------------|-------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|

## Drill Hole RO16-09

|    |    |            |           |      |                                                                                                                                                                                                                                                                 |   |      |  |  |  |  |     |  |
|----|----|------------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|--|--|-----|--|
| 0  | 20 |            |           | OB   | **Check this depth--seems deep here                                                                                                                                                                                                                             |   |      |  |  |  |  |     |  |
| 20 | 25 | Dark Tan   | D00018009 | WAC  | Chips are generally quartz-feldspar-biotite (fine) with weak alignment of biotite grains and a crude bonding of quartz feldspar; quartz is tan, semi-translucent, feldspar is pink (orthoclase?) 15% pink feldspar chips with or without fube biotite: could be |   | 0.75 |  |  |  |  |     |  |
| 25 | 30 | Tan        | D00018010 | WAC  | Reduction in feldspar component to ~15% otherwise as above; quartz vein as cream with bands of fine biotite on larger chips 10% biotite rich chips weakly magnetic; no sulphides                                                                                | 1 | 15   |  |  |  |  |     |  |
| 30 | 35 | Tan        | D00018012 | WAC  | As above; 1% white quartz vein                                                                                                                                                                                                                                  |   | 1    |  |  |  |  |     |  |
| 35 | 40 | Brown Grey | D00018013 | QBMS | Mixed suite of MS, BS, QTZT with muscovite +/- biotite plus dark chips with a rough texture, reddish mineral, translucent (possible gt?)--these are strongly magnetic, typically ellipsoid and hard (hornfels?). Quartz vein is orange coloured (oxidized) wit  | 3 | 8    |  |  |  |  | 0.1 |  |
| 40 | 45 | Tan        | D00018014 | QTZT | Predominantly quartzite +/- biotite (biotite poor, <15%), large biotite richer chips show bending (gneissic); 10% greywacke as above; 10% dark green chips, larger ones appear as above possibly hornfels chips (possibly garnets, red biotite, better seen in  |   | 3    |  |  |  |  |     |  |
| 45 | 50 | Pink Tan   | D00018015 | WAC  | Mixed quartzite as above and feldspar +/- biotite (45%) and 5% clay alteration; no sulphides, non-magnetic.                                                                                                                                                     | 1 | 5    |  |  |  |  |     |  |
| 50 | 55 | Tan        | D00018016 | QTZT | As 40-45' interval; quartz vein is white, no visible sulphides                                                                                                                                                                                                  |   | 8    |  |  |  |  |     |  |
| 55 | 60 | Tan        | D00018017 | QTZT | As above, slight increase in biotite content.                                                                                                                                                                                                                   |   | 5    |  |  |  |  |     |  |
| 60 | 65 |            | D00018018 | QTZT | As above; slightly less bitoite; quartz vein white to cream coloured, no visible sulphides                                                                                                                                                                      |   | 15   |  |  |  |  |     |  |
| 65 | 70 | Tan Brown  | D00018019 | WAC  | Mixed quartzite with feldspar +/- quartz and biotite feldspar generally pale pink; 12% dark grey biotite very rich chips, non-magnetic, schistose?                                                                                                              |   | 1    |  |  |  |  |     |  |
| 70 | 75 | Tan Brown  | D00018021 | QBS  | Mixed unit 50% biotite rich to biotite very rich schistose chips with quartzite and greywacke as above; trace very magnetic biotite rich (or hornfels?) chips; muscovite <5%; creamy to white quartz vein; no sulphides.                                        |   | 2    |  |  |  |  |     |  |
| 75 | 80 | Tan        | D00018022 | QBMS | Muscovite content higher, rare biotite very rich; quartz vein is white.                                                                                                                                                                                         |   | 1    |  |  |  |  |     |  |
| 80 | 85 | Light Tan  | D00018023 | QTZT | Predominantly clean creamy quartzite with <20% biotite poor/biotite rich/muscovite bearing chips; up to 15% white quartz vein.                                                                                                                                  |   | 15   |  |  |  |  |     |  |
| 85 | 90 | Pink Tan   | D00018024 | WAC  | Change to dirty quartzite to feldspathic quartz - biotite +/- muscovite; trace pyrite on rare oxidized chips along with rusty (possible) pyrite relics                                                                                                          | 1 | 0.5  |  |  |  |  | 0.1 |  |

| From<br>(ft) | To<br>(ft) | Colour          | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                          | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|-----------------|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 90           | 95         | Pink<br>Brown   | D00018025 | WAC          | As above; slightly increased oxidation weak to moderate; trace very fine disseminated pyrite plus some rusty spacs; quartz vein white, no sulphides seen.                                                            | 2         | 3           |             |            |            |             | 0.1     |         |
| 95           | 100        | Orange<br>Brown | D00018026 | WAC          | As above; moderate - selectively strong oxidation. 0.5% pyrite seen in variety of chips and rusty specs; 12% dark biotite (veyr rich) chips, all non-magnetic. Hard to distinguish rusty quartz vein from quartzite. | 3         | 2           |             |            |            |             | 0.1     |         |
| 100          | 105        | Black           | D00018027 | QBS          | Black-dark grey aphanit to less phanitic schistose to semi-schistose with trace finely disseminated pyrite, <10% dirty quartzite also with trace fine disseminated pyrite; non-magnetic.                             |           |             |             |            |            |             | 0.1     |         |
| 105          | 110        | Black           | D00018028 | QBS          | As above, slightly more semi-schistose and ~5% strongly magnetic; 10% moderate to strong oxidized feldspars with clay alteration; pyrite dissminated (fine) in black chips particularly aphanitic (black quartzite)  | 0.1       |             |             |            |            |             | 0.1     |         |
| 110          | 115        | Tan             | D00018029 | WAC          | Mixed quartzite, greywacke, QBS as previous intervals; 1/4 chips moderate to strongly oxidized.                                                                                                                      | 0.1       |             |             |            |            |             | 0.1     |         |
| 115          | 120        | Black           | D00018031 | QBS          | As interval 105-110' but with white quartz vein.                                                                                                                                                                     |           | 3           |             |            |            |             | 0.1     |         |
| 120          | 125        | Tan             | D00018032 | WAC          | Mix greywacke-quartzite with biotite-poor +/- biotite-rich and muscovite; no oxidation; no sulphides                                                                                                                 |           | 3           |             |            |            |             |         |         |
| 125          | 130        | Brown           | D00018033 | WAC          | Possibly more biotite-poor to biotite-rich quartzite than quartz-feldspar-biotite chips; biotite abundance higher hence darker chips.                                                                                |           | 1           |             |            |            |             |         |         |
| 130          | 135        | Black<br>Brown  | D00018034 | QBS          | Black QBS to tan biotite-rich quartzite.                                                                                                                                                                             |           |             |             |            |            |             |         |         |
| 135          | 140        | Black<br>Tan    | D00018035 | QBS          | As above; 0.5% disseminated, sometimes tarnished pyrite.                                                                                                                                                             |           | 2           |             |            |            |             | 0.5     |         |
| 140          | 145        | Brown           | D00018036 | WAC          | Mixed with quartz-feldspar-biotite chips most common +/- muscovite; biotite-rich generally; trace disseminated fine pyrite.                                                                                          |           | 2           |             |            |            |             | 0.1     |         |
| 145          | 150        | Tan             | D00018037 | WAC          | As above; less biotite.                                                                                                                                                                                              |           | 1           |             |            |            |             | 0.1     |         |
| 150          | 155        | Brown           | D00018038 | WAC          | As above; darker, more biotite.                                                                                                                                                                                      |           |             |             |            |            |             |         |         |
| 155          | 160        | Brown           | D00018039 | WAC          | As above; 40% QBS, black, non-magnetic, trace clay alteration on lighter chips.                                                                                                                                      |           | 1           |             |            |            |             |         |         |
| 160          | 165        | Orange<br>Tan   | D00018040 | WAC          | As above, less biotite-rich chips; 20% of chips have moderate to strong oxidation, no sulphides                                                                                                                      | 0.1       | 1           |             |            |            |             |         |         |
| 165          | 170        | Orange<br>Tan   | D00018042 | WAC          | As above                                                                                                                                                                                                             | 0.1       | 0.5         |             |            |            |             |         |         |
| 170          | 175        | Brown           | D00018043 | WAC          | As above, slightly more biotite-rich.                                                                                                                                                                                |           |             |             |            |            |             |         |         |
| 175          | 180        | Orange<br>Brown | D00018044 | WAC          | As above, 10% pink feldspar chips.                                                                                                                                                                                   |           |             |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour        | SampleID  | Lith<br>Code | Description                                                                                                                                                                               | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|---------------|-----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 180          | 185        | Brown         | D00018045 | QTZT         | Dirty biotite-rich quartzite with very low feldspar                                                                                                                                       |           | 1           |             |            |            |             |         |         |
| 185          | 190        | Brown         | D00018046 | WAC          | As above; ~10% chips moderately oxidized                                                                                                                                                  | 0.1       | 2           |             |            |            |             | 0.1     |         |
| 190          | 195        | White<br>Tan  | D00018047 | WAC          | 30% moderate to strong oxidized chips with 0.5% fine disseminated pyrite;<br>quartz vein, white, no sulphides seen                                                                        | 3         | 15          |             |            |            |             | 0.5     |         |
| 195          | 200        | Dark<br>Brown | D00018048 | WAC          | No oxidation; 40-45% black QBS and greywacke; some chips of either<br>lithology have up to 5% dissminated or blebby pyrite--acutally these chips<br>strongly magnetic so probably PO      |           | 2           |             |            |            |             | 0.1     | 1       |
| 200          | 205        | Dark<br>Brown | D00018049 | WAC          | As above but no Po, trace pyrite as fine dissminated                                                                                                                                      |           |             |             |            |            |             | 0.1     |         |
| 205          | 210        | Dark<br>Brown | D00018051 | WAC          | As above; 5% pink feldspar chips                                                                                                                                                          |           |             |             |            |            |             | 0.1     |         |
| 210          | 215        | Orange<br>Tan | D00018052 | WAC          | Lighter, lower biotite, 30% feldspar chips, trace pyrit dissminatedI white<br>quartz vein barren;                                                                                         |           | 20          |             |            |            |             | 0.1     |         |
| 215          | 220        | Brown         | D00018053 | WAC          | Biotite richer quartz-feldspar-biotite semischist.                                                                                                                                        |           |             |             |            |            |             |         |         |
| 220          | 225        | Brown         | D00018054 | WAC          | As above                                                                                                                                                                                  |           |             |             |            |            |             |         |         |
| 225          | 230        | Black         | D00018055 | WAC          | As above; more biotite-rich chips common                                                                                                                                                  |           | 0.1         |             |            |            |             |         |         |
| 230          | 235        | Brown         | D00018056 | WAC          | As above; slightly less biotite-rich chips                                                                                                                                                |           | 0.1         |             |            |            |             |         |         |
| 235          | 240        | Pink<br>Brown | D00018057 | WAC          | As above; pink feldspar increase                                                                                                                                                          |           |             |             |            |            |             |         |         |
| 240          | 245        | Pink<br>Brown | D00018058 | WAC          | As above.                                                                                                                                                                                 |           | 0.1         |             |            |            |             |         |         |
| 245          | 250        | Black         | D00018059 | QFBS         | Quartz-feldspar-biotite schist, black with ~10% pale pink feldspars; trace fine<br>pyrite along foliation.                                                                                |           | 1           |             |            |            |             | 0.1     |         |
| 250          | 255        | Dark<br>Brown | D00018061 | QFBS         | Increase of greywacke to 25%; trace clay alteration.                                                                                                                                      |           | 0.5         |             |            |            |             |         |         |
| 255          | 260        | Light Tan     | D00018062 | QV           | Creamy white quartz veinwith dark specks (biotite?) alternatively, could be<br>predominantly a clean quartzite; trace pyrite seen as small blebs, 40% of<br>chips biotite-rich greywacke. |           | 60          |             |            |            |             | 0.1     |         |
| 260          | 265        | Brown         | D00018063 | WAC          | As previous intervals quartz-feldspar-bitoite-rich chips with <20% pink<br>feldspar chips.                                                                                                |           |             |             |            |            |             |         |         |
| 265          | 270        | Brown         | D00018064 | WAC          | As above, slightly lighter                                                                                                                                                                |           |             |             |            |            |             |         |         |
| 270          | 275        | Brown         | D00018065 | WAC          | As above                                                                                                                                                                                  |           |             |             |            |            |             |         |         |
| 275          | 280        | Pink Tan      | D00018066 | WAC          | As above, lighter biotite-poor chips more common                                                                                                                                          |           | 0.1         |             |            |            |             |         |         |
| 280          | 285        | Pink Tan      | D00018067 | WAC          | As above, weak to moderate foliation, trace banding.                                                                                                                                      |           | 1           |             |            |            |             |         |         |
| 285          | 290        | Pink Tan      | D00018068 | WAC          | As above.                                                                                                                                                                                 |           | 2           |             |            |            |             |         |         |

| From (ft) | To (ft) | Colour       | SampleID  | Lith Code | Description                                                                                                                          | Ox Int | Qtz Vn % | Cal Vn % | Chl Int | Ser Int | Carb Int | PY % | PO % |
|-----------|---------|--------------|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|---------|---------|----------|------|------|
| 290       | 295     | Tan          | D00018069 | QTZT      | Low feldspar, dirty biotite-rich quartzite                                                                                           |        | 0.5      |          |         |         |          |      |      |
| 295       | 300     | Pink Brown   | D00018070 | WAC       | Feldspars abundant ~40%, pale pink; mixed quartz-feldspar-biotite +/- muscovite                                                      |        |          |          |         |         |          |      |      |
| 300       | 305     | Pink Brown   | D00018072 | WAC       | As above but ~15% moderately oxidized chips.                                                                                         | 0.1    | 0.5      |          |         |         |          |      |      |
| 305       | 310     | Pink Brown   | D00018073 | WAC       | As above but no oxidation                                                                                                            |        | 0.1      |          |         |         |          |      |      |
| 310       | 315     | Orange Brown | D00018074 | WAC       | 20% white quartz vein and 15% creamy quartz (quartzite?). 10% feldspar chips (pale pink); 20% black QBS. 35% biotite-poor greywacke. |        | 20       |          |         |         |          |      |      |
| 315       | 320     | Orange Brown | D00018075 | WAC       | Abundant biotite-rich to QBS with predominantly quartz-feldspar-biotite chips                                                        |        | 1.5      |          |         |         |          |      |      |
| 320       | 325     | Orange Black | D00018076 | WAC       | As above                                                                                                                             |        | 1        |          |         |         |          |      |      |
| 325       | 330     |              | D00018077 | QFBS      | Biotite-rich schistose chips; <10% pale pink feldspars                                                                               |        |          |          |         |         |          |      |      |

### Drill Hole RO16-10

|    |    |        |           |     |                                                                                                                                                                                                                                                                 |   |     |  |  |  |  |  |  |
|----|----|--------|-----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|--|--|--|--|--|--|
| 0  | 20 |        |           | OB  |                                                                                                                                                                                                                                                                 |   |     |  |  |  |  |  |  |
| 20 | 25 | Orange | D00018078 | OGN | Predominantly salmon pink feldspar pure 3-8% biotite generally marking weak foliation, quartz mm bands also mark foliation; approximately 25% metasediment chips biotite rich quartzites to greywacke (quartz-feldspar-biotite). trace oxidation as clay altera | 1 | 0.5 |  |  |  |  |  |  |
| 25 | 30 | Orange | D00018079 | OGN | As above, clay alteration (oxidation) increasing on select chips, also minor rusty oxidation on surfaces. No sulphides seen, no metasediments.                                                                                                                  | 2 |     |  |  |  |  |  |  |
| 30 | 35 | Orange | D00018081 | OGN | As above, slightly reddish colour trace hematite, 30% biotite rich chips; <10% strongly oxidized/clay altered chips.                                                                                                                                            | 2 | 0.1 |  |  |  |  |  |  |
| 35 | 40 | Orange | D00018082 | OGN | As above, oxidation increasing as more common clay alteration, select pervasive rusty fracture surfaces rare; relic pyrite in strongly oxidized chips maybe; 10% dark grey biotite very rich chips; quartz vein as white barren chips.                          | 3 | 2   |  |  |  |  |  |  |
| 40 | 45 | Orange | D00018083 | OGN | As above, quartz vein yellowish alteration/oxidation; slightly less biotite-rich                                                                                                                                                                                | 3 | 1   |  |  |  |  |  |  |
| 45 | 50 | Orange | D00018084 | OGN | As above; increased oxidation as clay alteration                                                                                                                                                                                                                | 4 | 0.1 |  |  |  |  |  |  |
| 50 | 55 | Orange | D00018085 | OGN | As above; decreased oxidation, strong on select chips.                                                                                                                                                                                                          | 3 |     |  |  |  |  |  |  |

| From<br>(ft) | To<br>(ft) | Colour         | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|----------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 55           | 60         | Orange         | D00018086 | OGN          | As above; pervasive orange colour, as above, seems like an oxidation, is absent on biotite very-rich chips (dark grey), 5%, and absent on quartz vein (white), 3%, no sulphides seen; clay not as common; difficult to determine if colouration is masking quar | 3         | 3           |             |            |            |             |         |         |
| 60           | 65         | Orange         | D00018087 | OGN          | As above, no white quartz vein seen; orange colour still pervasive, clay along select surfaces and a harder orange crust. Orange colour +/- chip, seems to be feldspar.                                                                                         | 3         |             |             |            |            |             |         |         |
| 65           | 70         | Orange         | D00018088 | OGN          | As above.                                                                                                                                                                                                                                                       | 3         |             |             |            |            |             |         |         |
| 70           | 75         | Orange         | D00018089 | OGN          | As above; rusty surfaces along some chips                                                                                                                                                                                                                       | 3         | 1           |             |            |            |             |         |         |
| 75           | 80         | Orange         | D00018091 | OGN          | As above; no discernable quartz veins.                                                                                                                                                                                                                          | 3         |             |             |            |            |             |         |         |
| 80           | 85         | Orange         | D00018092 | OGN          | As above; slightly less pervasive orange colour.                                                                                                                                                                                                                | 2         | 4           |             |            |            |             |         |         |
| 85           | 90         | Orange<br>Grey | D00018093 | WAC          | Mixed 15% of above OGN and metasediments; biotite-rich well foliated (maybe) schistose, muscovite and orange-tan quartz and feldspar (in RO16-09 this was called greywacke, wacky, a quartz-feldspar-biotite +/- muscovite, with a gneissic to semi-schistose t | 1         | 1           |             |            |            |             |         |         |
| 90           | 95         | Grey           | D00018094 | WAC          | Predominantly biotite-rich greywacke as above. No sulphides; 2% white quartz vein.                                                                                                                                                                              | 2         | 2           |             |            |            |             |         |         |
| 95           | 100        | Orange<br>Grey | D00018095 | WAC          | Mixed lithology greywacke as above with 35% pink feldspar and feldspar, quartz, biotite chips; moderately oxidized throughout 1% white quartz vein                                                                                                              | 3         | 1           |             |            |            |             |         |         |
| 100          | 105        | Tan Grey       | D00018096 | WAC          | As above but ~15% orthogneiss; predominantly biotite-rich semi-schistose to gneissic quartz-feldspar-biotite +/- muscovite                                                                                                                                      | 2         | 1           |             |            |            |             |         |         |
| 105          | 110        | Tan Grey       | D00018097 | WAC          | As above, all greywacke                                                                                                                                                                                                                                         | 2         |             |             |            |            |             |         |         |
| 110          | 115        | Tan Grey       | D00018098 | WAC          | As above                                                                                                                                                                                                                                                        | 2         |             |             |            |            |             |         |         |
| 115          | 120        | Tan Grey       | D00018099 | WAC          | As above                                                                                                                                                                                                                                                        | 2         | 1           |             |            |            |             |         |         |
| 120          | 125        | Tan Grey       | D00018100 | WAC          | As above                                                                                                                                                                                                                                                        | 1         |             |             |            |            |             |         |         |
| 125          | 130        | Tan Grey       | D00018101 | WAC          | As above; increased oxidation as clay alteration                                                                                                                                                                                                                | 2         |             |             |            |            |             |         |         |
| 130          | 135        | White<br>Grey  | D00018102 | WAC          | Mixed greywacke with intensely orange feldspars, 10%, 35% dark to medium grey, crystalline strongly magnetic chips, ~10% cream to white quartz vein (?), no sulphides, minor rusty/oxidized surfaces.                                                           | 1         | 10          |             |            |            |             |         |         |
| 135          | 140        | Grey           | D00018103 | WAC          | Back to predominantly greywacke with 5% pink feldspar chips 3% white quartz vein; greywacke has abundant biotite-rich chips; non-magnetic.                                                                                                                      |           | 3           |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour      | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                        | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|-------------|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 140          | 145        | Tan         | D00018104 | WAC          | Predominantly lighter coloured, biotite-poor, greywacke with trace to 0.5% blebby pyrite in cream to tan quartz (?) and muscovite (QMS) and fine dissmination in biotite-poor chips.                                                               |           | 2           |             |            |            |             | 0.5     |         |
| 145          | 150        | Tan Grey    | D00018105 | WAC          | As above with predominantly very light very low biotite-quartzite, tan coloured, plus cream to white translucent quartz with disseminated chlorite +/- biotite (~15-20%) both of these have fine disseminated to fine blebby pyrite                |           | 2           |             |            |            |             | 0.5     |         |
| 150          | 155        | Light Grey  | D00018106 | WAC          | Mixed but predominantly chlorite quartz +/- biotite, feldspar still common but lower abundance; some chips very magnetic; overall weak to moderately magnetic. Some chips have up to 2% fine pyrite, generally 0.5%; this includes feldspar chips. | 1         | 1           |             |            |            |             | 0.5     |         |
| 155          | 160        | Light Grey  | D00018107 | WAC          | As above, more of a mixed lithology; pyrite still 0.5% as fine dissemination and fine blebs, generally moderately magnetic; oxidation fractures white quartz vein, no sulphides.                                                                   | 1         | 1           |             |            |            |             | 0.5     |         |
| 160          | 165        | Tan Grey    | D00018108 | WAC          | As above; oxidized chips ~15% and oxidized fractures                                                                                                                                                                                               | 3         | 1           |             |            |            |             | 0.1     |         |
| 165          | 170        | Tan Grey    | D00018109 | WAC          | As above                                                                                                                                                                                                                                           | 3         |             |             |            |            |             | 0.1     |         |
| 170          | 175        | Tan         | D00018110 | WAC          | More of a uniform dirty quartzite to quartz-feldspar-biotite +/- muscovite; biotite-poor                                                                                                                                                           | 1         | 2           |             |            |            |             |         |         |
| 175          | 180        | Orange Grey | D00018112 | OGN          | Increased feldspar chips and feldspar-quartz-biotite chips                                                                                                                                                                                         | 1         | 5           |             |            |            |             |         |         |
| 180          | 185        | Orange Grey | D00018113 | OGN          | As above                                                                                                                                                                                                                                           |           | 0.5         |             |            |            |             |         |         |
| 185          | 190        | Pink Tan    | D00018114 | OGN          | As above increased light pink feldspar; biotite-poor as before                                                                                                                                                                                     |           | 8           |             |            |            |             |         |         |
| 190          | 195        | Pink Tan    | D00018115 | OGN          | As above; less pink feldspar                                                                                                                                                                                                                       |           | 1           |             |            |            |             |         |         |
| 195          | 200        | Pink Grey   | D00018116 | OGN          | As above; 30% biotite-rich chips; non-magnetic                                                                                                                                                                                                     |           | 0.5         |             |            |            |             |         |         |
| 200          | 205        | Pink Tan    | D00018117 | OGN          | As above; trace biotite-rich chips; non-magnetic                                                                                                                                                                                                   |           |             |             |            |            |             |         |         |
| 205          | 210        | Pink Tan    | D00018118 | OGN          | As above                                                                                                                                                                                                                                           |           | 8           |             |            |            |             |         |         |
| 210          | 215        | Pink Tan    | D00018119 | OGN          | As above                                                                                                                                                                                                                                           |           | 2           |             |            |            |             |         |         |
| 215          | 220        | Pink Tan    | D00018121 | OGN          | Less than 25% feldspar (still orthogneiss?)                                                                                                                                                                                                        |           | 1           |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour     | SampleID  | Lith<br>Code | Description                                          | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------|-----------|--------------|------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 220          | 225        | Pink Tan   | D00018122 | OGN          | As above. Still orthogneiss                          |           | 1           |             |            |            |             |         |         |
| 225          | 230        |            | D00018123 | OGN          | A bit more oxidized, quartz vein as white and creamy | 1         | 5           |             |            |            |             |         |         |
| 230          | 235        | Pink Grey  | D00018124 | OGN          | Darker biotite-rich chips predominant                | 1         | 1           |             |            |            |             |         |         |
| 235          | 240        | Tan        | D00018125 | OGN          | <15% feldspar                                        |           | 0.5         |             |            |            |             |         |         |
| 240          | 245        | Pink Grey  | D00018126 | OGN          | Darker biotite-rich light pink feldspar again        |           | 0.5         |             |            |            |             |         |         |
| 245          | 250        | Pink Grey  | D00018127 | OGN          | Pinker feldspar                                      |           | 0.5         |             |            |            |             |         |         |
| 250          | 255        | Pink Grey  | D00018128 | OGN          | As above                                             |           | 1           |             |            |            |             |         |         |
| 255          | 260        | Pink Grey  | D00018129 | OGN          | Darker, more biotite-rich chips                      |           | 1           |             |            |            |             |         |         |
| 260          | 265        | Orange Tan | D00018131 | OGN          | Lighter, weakly oxidized                             |           | 0.5         |             |            |            |             |         |         |
| 265          | 270        | Tan        | D00018132 | OGN          | Feldspar creamy colour                               |           | 1           |             |            |            |             |         |         |
| 270          | 275        | Pink Tan   | D00018133 | OGN          | Regular salmon pink feldspar                         |           | 0.1         |             |            |            |             |         |         |
| 275          | 280        | Pink Tan   | D00018134 | OGN          | As above                                             |           |             |             |            |            |             |         |         |
| 280          | 285        | Pink Grey  | D00018135 | OGN          | As above, darker, more biotite-rich chips            |           | 0.1         |             |            |            |             |         |         |
| 285          | 290        | Pink Grey  | D00018136 | OGN          | As above                                             |           | 1           |             |            |            |             |         |         |
| 290          | 295        | Pink Grey  | D00018137 | OGN          | As above                                             |           |             |             |            |            |             |         |         |
| 295          | 300        | Pink Grey  | D00018138 | OGN          | As above                                             |           | 0.5         |             |            |            |             |         |         |
| 300          | 305        | Pink Grey  | D00018139 | OGN          | As above                                             |           | 0.5         |             |            |            |             |         |         |
| 305          | 310        | Pink Tan   | D00018140 | OGN          | As above; slightly lighter                           |           | 0.1         |             |            |            |             |         |         |
| 310          | 315        | Pink Tan   | D00018142 | OGN          | As above                                             |           | 0.1         |             |            |            |             |         |         |
| 315          | 320        | Pink Tan   | D00018143 | OGN          | As above                                             |           | 0.1         |             |            |            |             |         |         |

| From (ft) | To (ft) | Colour    | SampleID  | Lith Code | Description                                 | Ox Int | Qtz Vn % | Cal Vn % | Chl Int | Ser Int | Carb Int | PY % | PO % |
|-----------|---------|-----------|-----------|-----------|---------------------------------------------|--------|----------|----------|---------|---------|----------|------|------|
| 320       | 325     | Pink Tan  | D00018144 | OGN       | As above                                    |        | 0.1      |          |         |         |          |      |      |
| 325       | 330     | Pink Grey | D00018145 | OGN       | As above; slightly darker more biotite rich |        | 0.1      |          |         |         |          |      |      |

### Drill Hole RO16-11

|    |    |                |           |     |                                                                                                                                                                                                |  |     |  |  |  |  |     |  |
|----|----|----------------|-----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|--|--|--|-----|--|
| 0  | 20 |                |           | OB  |                                                                                                                                                                                                |  |     |  |  |  |  |     |  |
| 20 | 25 | Pink           | D00018146 | OGN | Pale pink to salmon pink feldspar chips with feldspar-quartz-biotite chips weakly to moderately foliated as evidenced by weakly aligned biotite and <u>banding between feldspar and quartz</u> |  | 0.1 |  |  |  |  |     |  |
| 25 | 30 | Tan            | D00018147 | OGN | Generally paler feldspar to pinkish cream, difficult to distinguish feldspar and quartz                                                                                                        |  | 0.5 |  |  |  |  |     |  |
| 30 | 35 | Pink Tan       | D00018148 | OGN | Deeper pink feldspars, most abundant mineral; biotite-richer chips give a darker colour                                                                                                        |  |     |  |  |  |  |     |  |
| 35 | 40 | Pink Tan       | D00018149 | OGN | As above                                                                                                                                                                                       |  |     |  |  |  |  |     |  |
| 40 | 45 | Dark Pink      | D00018151 | OGN | Deeper pink almost reddish feldspars most abundant                                                                                                                                             |  |     |  |  |  |  |     |  |
| 45 | 50 | Dark Pink      | D00018152 | OGN | As above                                                                                                                                                                                       |  | 1   |  |  |  |  |     |  |
| 50 | 55 | Dark Pink      | D00018153 | OGN | As above                                                                                                                                                                                       |  | 3   |  |  |  |  |     |  |
| 55 | 60 | Dark Grey      | D00018154 | QBS | Dark grey to black biotite-rich, tan translucent quartz matrix; non-magnetic                                                                                                                   |  | 0.1 |  |  |  |  |     |  |
| 60 | 65 | Pink Dark Grey | D00018155 | OGN | 40% QBS above; 60% orthogneiss as above; deep pink feldspars; trace pyrite in tan biotite-poor quartz.                                                                                         |  | 0.1 |  |  |  |  | 0.1 |  |
| 65 | 70 | Pink           | D00018156 | OGN | As above; <10% QBS; 30% pale pink cream feldspars; mostly biotite-poor chips                                                                                                                   |  | 5   |  |  |  |  |     |  |
| 70 | 75 | Tan            | D00018157 | OGN | Very pale pink to tan feldspars with dirty biotite-poor and biotite-rich chips; <u>2% white to pale tan quartz vein</u>                                                                        |  | 2   |  |  |  |  |     |  |
| 75 | 80 | Pink Tan       | D00018158 | OGN | As above but pink-salmon pink feldspar colour returning; mostly biotite-poor chips.                                                                                                            |  |     |  |  |  |  |     |  |
| 80 | 85 | Pink           | D00018159 | OGN | Predominantly pink feldspars with white quartz chips, very low biotite                                                                                                                         |  | 0.1 |  |  |  |  |     |  |
| 85 | 90 | Pink Tan       | D00018161 | OGN | Back to lighter pale pink feldspars and low biotite chips although ~15% biotite-rich                                                                                                           |  | 0.1 |  |  |  |  |     |  |
| 90 | 95 | Tan            | D00018162 | OGN | As above but more tan coloured feldspar                                                                                                                                                        |  | 0.1 |  |  |  |  |     |  |

| From<br>(ft) | To<br>(ft) | Colour       | SampleID  | Lith<br>Code | Description                                                                                                                                                                    | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|--------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 95           | 100        | Orange       | D00018163 | OGN          | Back to orange-pink feldspars                                                                                                                                                  |           | 1           |             |            |            |             |         |         |
| 100          | 105        | Orange       | D00018164 | OGN          | As above                                                                                                                                                                       |           |             |             |            |            |             |         |         |
| 105          | 110        | Tan          | D00018165 | OGN          | Slightly lighter pale pink to tan feldspars                                                                                                                                    |           | 0.5         |             |            |            |             |         |         |
| 110          | 115        | Tan          | D00018166 | OGN          | As above                                                                                                                                                                       |           | 2           |             |            |            |             |         |         |
| 115          | 120        | Tan          | D00018167 | OGN          | As above; recognizable feldspar rare                                                                                                                                           |           | 0.1         |             |            |            |             |         |         |
| 120          | 125        | Pink<br>Grey | D00018168 | WAC          | Mixed orthogneiss and metasedimentary chips; biotite-rich quartzite to quartz feldspathic-biotite-rich                                                                         |           |             |             |            |            |             |         |         |
| 125          | 130        | Tan Grey     | D00018169 | WAC          | As above without orthogneiss/feldspar chips                                                                                                                                    |           |             |             |            |            |             |         |         |
| 130          | 135        | Tan Grey     | D00018170 | WAC          | Rare feldspar chips; 1% white quartz vein                                                                                                                                      |           | 1           |             |            |            |             |         |         |
| 135          | 140        | Green<br>Tan | D00018172 | WAC          | Slightly chloritic quartz-biotite- +/- feldspar. Biotite varies <5% to 30%; non-magnetic hematite along rare fractures                                                         |           |             |             |            |            |             |         |         |
| 140          | 145        | Green<br>Tan | D00018173 | WAC          | Chlorite more abundant but still minor component, biotite-poor and very rich chips; trace pyrite in greywacke chips; hematite on fractures, moderately to strongly magnetic.   |           | 1           |             |            |            |             | 0.1     |         |
| 145          | 150        | Tan          | D00018174 | WAC          | As above, slightly less magnetic - weak to moderate; cream coloured quartz (quartz vein?) 10%, generally biotite-very poor to very rich chips; no chlorite                     |           | 10          |             |            |            |             | 0.1     |         |
| 150          | 155        | Brown        | D00018175 | WAC          | As above, slightly darker more abundant biotite-rich chips (weak foliation) and more common (<20%) feldspar bonded with quartz (moderate); less common magnetic chips          |           |             |             |            |            |             |         |         |
| 155          | 160        | Tan          | D00018176 | WAC          | Mixed bag of chips, some oxidized, 10% white quartz vein, grey quartzite with trace pyrite; muscovite schist.                                                                  |           | 10          |             |            |            |             | 0.1     |         |
| 160          | 165        | Tan          | D00018177 | WAC          | As above but strongly magnetic blebby pyrite on rare chip                                                                                                                      |           | 2           |             |            |            |             | 0.1     |         |
| 165          | 170        | Tan Grey     | D00018178 | WAC          | Light to dark greyish tan quartz with chlorite and biotite; strongly magnetic (po or pyrite in trace amounts, very fine)                                                       |           |             |             |            |            |             | 0.1     |         |
| 170          | 175        | Tan Grey     | D00018179 | WAC          | Mix bag of colours---clean quartzite, bitoite-poor to biotite-rich, oxidized chips <5%, chloritic quartz +/- biotite; traces pyrite +/-; very weakly magnetic to not magnetic. | 0.1       | 5           |             |            |            |             | 0.1     |         |
| 175          | 180        | Tan Grey     | D00018181 | WAC          | As above (could have called it a quartzite but too biotite-rich); non-magnetic                                                                                                 |           | 2           |             |            |            |             |         |         |
| 180          | 185        | Grey         | D00018182 | WAC          | A bit more feldspar present; foliation moderate; more biotite-rich chips                                                                                                       |           | 0.1         |             |            |            |             |         |         |
| 185          | 190        | Pink<br>Grey | D00018183 | OGN          | ~30% greywacke with salmon pink feldspar rich orthogneiss (background chips with low to no feldspar undistinguishable between greywacke and orthogneiss.                       |           |             |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour      | SampleID  | Lith<br>Code | Description                                                                                                                                                                                 | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|-------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 190          | 195        | Pink Grey   | D00018184 | OGN          | Pink feldspars common (30%), not seeing many quartz-feldspar chips typical of orthogneiss. Lots of dark biotite-rich with tan translucent quartz (?) but too much feldspar to be greywacke. |           | 1           |             |            |            |             |         |         |
| 195          | 200        | Pink Grey   | D00018185 | OGN          | More typical feldspar-rich, biotite-rich quartz bearing foliated orthogneiss                                                                                                                |           |             |             |            |            |             |         |         |
| 200          | 205        | Pink Grey   | D00018186 | OGN          | Darker, more biotite-rich chips                                                                                                                                                             |           |             |             |            |            |             |         |         |
| 205          | 210        | Pink Grey   | D00018187 | OGN          | As above                                                                                                                                                                                    |           | 0.5         |             |            |            |             |         |         |
| 210          | 215        | Orange Grey | D00018188 | OGN          | As above but pale feldspar (pinkish orange), more predominant chip (trace biotite common)                                                                                                   |           | 0.1         |             |            |            |             |         |         |
| 215          | 220        | Orange Grey | D00018189 | OGN          | As above                                                                                                                                                                                    |           |             |             |            |            |             |         |         |
| 220          | 225        | Tan         | D00018191 | OGN          | As above, more tan coloured feldspars                                                                                                                                                       |           | 0.1         |             |            |            |             |         |         |
| 225          | 230        | Pink Grey   | D00018192 | OGN          | Pink colour returning, slight oxidation evident on 15-20% of chips; biotite-rich chips most abundant                                                                                        | 2         | 1           |             |            |            |             |         |         |
| 230          | 235        | Pink Grey   | D00018193 | OGN          | As above                                                                                                                                                                                    |           | 0.1         |             |            |            |             |         |         |
| 235          | 240        | Orange Grey | D00018194 | OGN          | Orangey colour throughout chips suggest very weak oxidation, no sulphides. Biotite-rich chips still most abundant.                                                                          | 1         |             |             |            |            |             |         |         |
| 240          | 245        | Orange Grey | D00018195 | OGN          | Stronger orange colour but no clay alteration; orange feldspar more abundant, could be masking quartz vein but seems throughout chip; 0.5% white quartz vein.                               |           | 0.5         |             |            |            |             |         |         |
| 245          | 250        | Pink Grey   | D00018196 | OGN          | Pale pink to salmon pink feldspar with predominantly biotite-rich chips strongly foliated                                                                                                   |           |             |             |            |            |             |         |         |

### Drill Hole RO16-12

|    |    |           |           |     |                                                                                                                                                                                                                                                   |  |     |  |  |  |  |  |  |
|----|----|-----------|-----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|--|--|--|--|--|
| 0  | 5  |           |           | OB  |                                                                                                                                                                                                                                                   |  |     |  |  |  |  |  |  |
| 5  | 10 | Pink      | D00018197 | OGN | Salmon pink to slightly reddish feldspar with disseminated biotite defining a weak foliation and white translucent quartz bands defining a stronger foliation probably semi-schistose (gneissic). Chips are larger in this first run as per usual |  |     |  |  |  |  |  |  |
| 10 | 15 | Pink Tan  | D00018198 | OGN | As above, much smaller chips; feldspar chips pink to salmon pink, other chips feldspar-quartz-biotite are orangey-tan colour                                                                                                                      |  | 0.1 |  |  |  |  |  |  |
| 15 | 20 | Pink Tan  | D00018199 | OGN | As above                                                                                                                                                                                                                                          |  | 0.5 |  |  |  |  |  |  |
| 20 | 25 | Pink Grey | D00018200 | OGN | Slightly darker, more biotite-rich chips; quartz vein is white sometimes with pink feldspar on two sides; no sulphides                                                                                                                            |  | 10  |  |  |  |  |  |  |

| From<br>(ft) | To<br>(ft) | Colour         | SampleID  | Lith<br>Code | Description                                                                                                                                                                          | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|----------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 25           | 30         | Pink Tan       | D00018201 | OGN          | Less pink feldspar chips; some chips have chlorite disseminated throughout (+/0)                                                                                                     |           |             |             |            |            |             |         |         |
| 30           | 35         | Pink           | D00018202 | OGN          | Very pink with abundant feldspars frequently with fine trace to 5% biotite; biotite-rich (25%)                                                                                       |           | 0.1         |             |            |            |             |         |         |
| 35           | 40         | Pink           | D00018203 | OGN          | As above                                                                                                                                                                             |           | 0.1         |             |            |            |             |         |         |
| 40           | 45         | Pink           | D00018204 | OGN          | As above; trace red feldspar?                                                                                                                                                        |           | 0.1         |             |            |            |             |         |         |
| 45           | 50         | Pink           | D00018205 | OGN          | As above                                                                                                                                                                             |           | 0.1         |             |            |            |             |         |         |
| 50           | 55         | Pink<br>Orange | D00018206 | OGN          | As above, slightly lighter, less biotite-rich chips, up to 10% white quartz vein; possible trace relic pyrite (euhedral)                                                             |           | 10          |             |            |            |             | 0.1     |         |
| 55           | 60         | Tan            | D00018207 | OGN          | Pale pink to salmon pink feldspar up to 12% white quartz vein; 5% very dark biotite-(very) rich chips                                                                                |           | 12          |             |            |            |             |         |         |
| 60           | 65         | Tan            | D00018208 | OGN          | As above with weak oxidation and clay alteration                                                                                                                                     | 2         | 7           |             |            |            |             |         |         |
| 65           | 70         | Tan            | D00018209 | OGN          | Predominantly tan colour, <25% pink feldspar chips; mostly biotite-poor chips                                                                                                        |           | 4           |             |            |            |             |         |         |
| 70           | 75         | Tan            | D00018210 | OGN          | Mixed orangey tan to pink feldspars and 10% dark biotite-rich chips; hematite on rare chip surfaces                                                                                  | 1         | 5           |             |            |            |             |         |         |
| 75           | 80         | Tan            | D00018212 | OGN          | As above; slightly more dark chips                                                                                                                                                   |           | 3           |             |            |            |             |         |         |
| 80           | 85         |                | D00018213 | OGN          | Fewer biotite-rich chips, <5%; 15% white quartz vein but no sulphides                                                                                                                |           | 15          |             |            |            |             |         |         |
| 85           | 90         | Tan            | D00018214 | OGN          | Mostly light biotite-poor chips + 3% white quartz vein                                                                                                                               |           | 3           |             |            |            |             |         |         |
| 90           | 95         | Orange<br>Grey | D00018215 | OGN          | 35% dark grey biotite-rich chips (non-magnetic) otherwise as above                                                                                                                   |           | 1           |             |            |            |             |         |         |
| 95           | 100        | Light Tan      | D00018216 | OGN          | Very light coloured, no pink, all variable creamy tan feldspars with quartz very low biotite                                                                                         |           | 3           |             |            |            |             |         |         |
| 100          | 105        | Tan            | D00018217 | OGN          | About 15% pale pink feldspar otherwise as above; 10% dark biotite-rich chips                                                                                                         |           | 1           |             |            |            |             |         |         |
| 105          | 110        | Tan            | D00018218 | OGN          | Predominantly biotite-rich dirty looking chips, orangey-tan matrix                                                                                                                   |           | 2           |             |            |            |             |         |         |
| 110          | 115        | Tan            | D00018219 | OGN          | As above; very fine trace pyrite                                                                                                                                                     |           | 1           |             |            |            |             | 0.1     |         |
| 115          | 120        | Tan            | D00018221 | OGN          | As above; minor chlorite, more biotite-poor chips; no pyrite seen                                                                                                                    |           | 2           |             |            |            |             |         |         |
| 120          | 125        | Tan            | D00018222 | OGN          | As above                                                                                                                                                                             |           | 3           |             |            |            |             |         |         |
| 125          | 130        | Tan            | D00018223 | OGN          | No chlorite seen                                                                                                                                                                     |           | 5           |             |            |            |             |         |         |
| 130          | 135        | Tan            | D00018224 | OGN          | Variable biotite-poor to biotite-rich; white quartz vein, no sulphides                                                                                                               |           | 10          |             |            |            |             |         |         |
| 135          | 140        | Tan            | D00018225 | OGN          | Slight oxidation, particularly on select grains, 5% rusty surfaces                                                                                                                   | 2         | 1           |             |            |            |             |         |         |
| 140          | 145        | Tan            | D00018226 | OGN          | Less or no oxidation; slight chlorite                                                                                                                                                | 0.1       | 1           |             |            |            |             |         |         |
| 145          | 150        | Brown          | D00018227 | OGN          | Uniform biotite-rich chips <10% feldspar chips                                                                                                                                       |           |             |             |            |            |             |         |         |
| 150          | 155        | Brown          | D00018228 | OGN          | As above slight increase in pale pink feldspar chips                                                                                                                                 |           | 1           |             |            |            |             |         |         |
| 155          | 160        | Brown          | D00018229 | OGN          | More mixed, pinkish biotite-poor feldspar chips with uniform biotite-rich; possible trace relic pyrite on some chips most noticeable on single large chip of feldspar-quartz-biotite |           | 1           |             |            |            |             | 0.1     |         |

| From<br>(ft) | To<br>(ft) | Colour        | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|---------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 160          | 165        | Tan Grey      | D00018231 | OGN          | 25% biotite-rich chips; trace pyrite along foliation, perhaps up to 1% in one chip also as dissemination; non-magnetic.                                                                                                                                         |           | 1           |             |            |            |             | 0.1     |         |
| 165          | 170        | Tan           | D00018232 | OGN          | Mixed from light to dark chips, trace possible relic pyrite; 5% white quartz vein                                                                                                                                                                               |           | 5           |             |            |            |             | 0.1     |         |
| 170          | 175        | Black Tan     | D00018233 | OGN          | 20% dark fine biotite-rich chips, with trace pyrite as oxidized dissemination; orange-tan biotite poor chips seem slightly oxidized with minor clay and rusty surface; 15% white quartz vein; no sulphides                                                      |           | 15          |             |            |            |             | 0.1     |         |
| 175          | 180        | Black         | D00018234 | QBS          | Well foliated QBS, moderately magnetic; no sulphides; quartz vein as white to creamy with trace fine pyrite.                                                                                                                                                    |           | 10          |             |            |            |             | 0.1     |         |
| 180          | 185        | Black Orange  | D00018235 | QBS          | 60% QBS as above; 40% orthogneiss biotite-poor to biotite-rich, orange feldspars                                                                                                                                                                                |           | 1           |             |            |            |             |         |         |
| 185          | 190        |               | D00018236 | OGN          | Mixed 5% QBS above, 15% quartz-biotite chips, 15% orange feldspar chips; 15% tan quartz? and muscovite schist (~10%); 20% white to light creamy quartz vein; 15% light to white feldspar quartz with chlorite chips; trace pyrite (not in quartz vein)          |           |             |             |            |            |             | 0.1     |         |
| 190          | 195        | Grey          | D00018237 | WAC          | Platey schistose bitoite-rich chips (biotite 15-40%) predominantly with 5% pale feldspars. 5% white quartz vein                                                                                                                                                 |           | 5           |             |            |            |             |         |         |
| 195          | 200        | Pink Grey     | D00018238 | OGN          | 65% pink-orange feldspars, 30% schistose biotite-rich chips; 5% white quartz vein                                                                                                                                                                               |           | 5           |             |            |            |             |         |         |
| 200          | 205        | Grey          | D00018239 | WAC          | Mixed lithology of chips with 60% dark grey QBS to biotite-rich wacky (doesn't look schistose); 30% biotite-poor quartz +/- feldspar and feldspar with biotite-poor and feldspar chips; 5-8% white quartz veins; pyrite is in trace amount in all lithologies.  |           | 8           |             |            |            |             | 0.5     |         |
| 205          | 210        | Grey          | D00018240 | QBS          | interval dominated by greenish beige schistose rock comprised of bt & feldspar +/- quartz; rocks are wkly to mod foliated; also see ~7% k-spar chips, blocky xtals 2-4mm in size; QV are massive & white; vein material is a mixture of qtz & calcite: no visib |           | 2           | 2           |            |            | 2           |         |         |
| 210          | 215        |               | D00018242 | QBS          | As above; only 3-4 kspar chips; py occurs in the schistose chips as fn grd euohedral to subhedral clots 1-2mm in size; HCl effervesces t/o the interval but alteration is weak; rock is foliated;                                                               |           | 2           | 1           |            |            | 2           | 0.5     |         |
| 215          | 220        |               | D00018243 | QBS          | As above; no sx; carb alt'n is variaby patchy to pervasive;                                                                                                                                                                                                     |           | 8           | 2           |            |            | 2           |         |         |
| 220          | 225        |               | D00018244 | QBS          | as above; no sx; v wk pervasive carb alt'n; 5-10% pink feldspar xtals; majority of interval is comprised of greyish-white schistose chips; qtz is massive, milky-white w/ no sx;                                                                                |           | 8           |             |            |            | 1           |         |         |
| 225          | 230        | Greyish White | D00018245 | QBS          | interval dominated by wkly schistose bt & feldspar & qtz rich chips with 10-15% pink k-spar chips; qtz is massive; no sx;                                                                                                                                       |           | 4           |             |            |            | 1           |         |         |
| 230          | 235        |               | D00018246 | QBS          | as above                                                                                                                                                                                                                                                        |           | 3           |             |            |            | 2           |         |         |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                 | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 235          | 240        | Greyish<br>White | D00018247 | QBS          | k-feldspar is increasing to 12-15% of interval; interval still dominated by greyish-white schistose chips; possibly a sedimentary protolith (?) Increase in potassic chips, could be related to dykes of orthogneiss intruding QBS ?? No sx |           | 1           |             |            |            | 2           |         |         |
| 240          | 245        | Greyish<br>White | D00018248 | QBS          | as above; 5-10% pink k-spar chips mixed with dominately bt-feld-qtz chips with plag feld chips                                                                                                                                              |           | 3           |             |            |            | 2           |         |         |
| 245          | 250        |                  | D00018249 | QBS          | As above                                                                                                                                                                                                                                    |           |             |             |            |            | 2           |         |         |
| 250          | 255        | Pinkish<br>Grey  | D00018251 | OGN          | Orthogneiss: increasing in pink feldspars to 35-40% of interval; majority of other chips are comprised of bt, feld & straw yellow flecks (sericite?)                                                                                        |           | 0.5         |             |            |            | 2           |         |         |
| 255          | 260        | Pinkish<br>Grey  | D00018252 | OGN          | as above; no sx                                                                                                                                                                                                                             |           | 0.5         |             |            |            | 2           |         |         |
| 260          | 265        | Greyish<br>Green | D00018253 | QBS          | pink feldspar drops off to essentially absent; interval mostly feldspar with flecks of black bt t/o; pervassive wk carb alt'n                                                                                                               |           | 1           |             |            |            | 2           |         |         |
| 265          | 270        | Whitish<br>Grey  | D00018254 | QBS          | As above; subtle increase in pink feldspar content                                                                                                                                                                                          |           | 7           |             |            |            | 2           |         |         |
| 270          | 275        | Greyish<br>White | D00018255 | QBS          | as above; not as much bt in chips; mostly feldspar with flecks of bt; minor k-spar chips (~3-4%) & majority of feld appears to be plag; rock is not as schistose as QBS @ 205-215'                                                          |           | 2           |             |            |            | 2           |         |         |
| 275          | 280        | Dark<br>Grey     | D00018256 | QBS          | Bt % increasing in majority of chips; also see increase in k-spar chips to ~12% of interval                                                                                                                                                 |           | 3           |             |            |            | 2           |         |         |
| 280          | 285        | Pinkish<br>Grey  | D00018257 | OGN          | k-spar increasing to 30-40% of interval along with bt-rich plag feld bearing chips                                                                                                                                                          |           | 0.5         |             |            |            | 2           |         |         |
| 285          | 290        | Pinkish<br>Grey  | D00018258 | OGN          | k-feldspar increasing to 55-60%; other chips are bt and plag feld rich chips;                                                                                                                                                               |           | 0.5         |             |            |            |             | 0.3     |         |
| 290          | 295        | Pinkish<br>Grey  | D00018259 | OGN          | As above                                                                                                                                                                                                                                    |           | 2           |             |            |            | 2           |         |         |
| 295          | 300        | Pinkish<br>Grey  | D00018261 | OGN          | Varying amounts of pink, brownish-white (plag) & blackish-white chips (bt & feld;                                                                                                                                                           |           | 2           |             |            |            |             | 0.5     |         |
| 300          | 305        | Pinkish<br>Grey  | D00018262 | OGN          | as above                                                                                                                                                                                                                                    |           | 1           |             |            |            | 1           |         |         |
| 305          | 310        | Pinkish<br>Grey  | D00018263 | OGN          | As above; k-spar decreasing to ~30-35%                                                                                                                                                                                                      |           | 1           |             |            |            | 1           |         |         |
| 310          | 315        | Pinkish<br>Grey  | D00018264 | OGN          | as above                                                                                                                                                                                                                                    |           | 0.5         |             |            |            | 1           |         |         |
| 315          | 320        | Pinkish<br>Grey  | D00018265 | OGN          | as above                                                                                                                                                                                                                                    |           | 2           |             |            |            | 2           |         |         |
| 320          | 325        |                  | D00018266 | OGN          | as above                                                                                                                                                                                                                                    |           | 10          |             |            |            | 2           |         |         |

| From (ft) | To (ft) | Colour | SampleID  | Lith Code | Description                                                                                                                                                                                                | Ox Int | Qtz Vn % | Cal Vn % | Chl Int | Ser Int | Carb Int | PY % | PO % |
|-----------|---------|--------|-----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|---------|---------|----------|------|------|
| 325       | 330     |        | D00018267 | OGN       | chips are either pink-feldspar (~35-40%) or black-grey bt & plag feld bearing; there are also yellow orange flecks t/o the bt & feld bearing chips, possibly sericite? No sulfide visible in any chips EOH |        | 2        |          |         |         |          |      |      |

### Drill Hole RO16-13

|    |    |               |           |     |                                                                                                                                                                                                                                                |  |     |  |  |  |  |  |  |
|----|----|---------------|-----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|--|--|--|--|--|
| 5  | 10 | Orange Tan    | D00018268 | OGN | predominately salmon pink to orange feldspar xtals in fine matrix of similar feldspar & qtz minerals; 15-30% fine black to dk brown biotite showing weak foliation; minor smokey qtz banding; white qtz vning (1 piece >6mm); no sulfides seen |  | 8   |  |  |  |  |  |  |
| 10 | 15 | Orange Tan    | D00018269 | OGN | as above; generally smaller chips <4mm;                                                                                                                                                                                                        |  | 2   |  |  |  |  |  |  |
| 15 | 20 | Greyish Brown | D00018270 | OGN | as above with 25% of chips with fine biotite to 40->50% (bt-rich)                                                                                                                                                                              |  | 2   |  |  |  |  |  |  |
| 20 | 25 | Orange Tan    | D00018272 | OGN | as above except no bt-rich chips and generally <15% biotite (bt-poor); minor hematite alteration;                                                                                                                                              |  | 0.2 |  |  |  |  |  |  |
| 25 | 30 | Orange Tan    | D00018273 | OGN | as above; mix of bt-poor to less common bt-rich chips; minor hematite alt; foliation moderate with chips generally flat broken along foliation                                                                                                 |  | 2   |  |  |  |  |  |  |
| 30 | 35 | Orange Tan    | D00018274 | OGN | as above; generally bt-poor; no hematite alt seen; foliation less evident; no qtz vn'ing                                                                                                                                                       |  |     |  |  |  |  |  |  |
| 35 | 40 | Orange Tan    | D00018275 | OGN | as above; mixed bt-poor to bt-rich; <2% clear qtz vn'ing;                                                                                                                                                                                      |  | 2   |  |  |  |  |  |  |
| 40 | 45 | Orange Tan    | D00018276 | OGN | as above; no qtz vn'ing                                                                                                                                                                                                                        |  |     |  |  |  |  |  |  |
| 45 | 50 | Orange Tan    | D00018277 | OGN | as above; rare hematite along obvious fractures;                                                                                                                                                                                               |  | 2   |  |  |  |  |  |  |
| 50 | 55 | Orange Tan    | D00018278 | OGN | as above; 25% bt-rich chips;                                                                                                                                                                                                                   |  | 0.5 |  |  |  |  |  |  |
| 55 | 60 | Orange        | D00018279 | OGN | predominately salmon pink to orange feldspar-rich chips and bt-poor; no qtz vn'ing; hematite on fractures; still no sulfides seen;                                                                                                             |  |     |  |  |  |  |  |  |
| 60 | 65 | Greyish Brown | D00018281 | OGN | more similar to <55' intervals - mixed bt-poor to rich                                                                                                                                                                                         |  | 1   |  |  |  |  |  |  |
| 65 | 70 | Orange Tan    | D00018282 | OGN | as above; predominately bt-poor to <35% bt; no qtz vn'ing; minor hematite along fractures                                                                                                                                                      |  |     |  |  |  |  |  |  |
| 70 | 75 | Orange Tan    | D00018283 | OGN | as above; <2% clear to white qtz vn'ing                                                                                                                                                                                                        |  | 2   |  |  |  |  |  |  |
| 75 | 80 | Orange Tan    | D00018284 | OGN | as above;                                                                                                                                                                                                                                      |  | 1   |  |  |  |  |  |  |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                           | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 80           | 85         | Orange<br>Tan    | D00018285 | OGN          | as above; predominately bt-poor chips; v wk foliation                                                                                                                                                 |           | 0.5         |             |            |            |             |         |         |
| 85           | 90         | Orange<br>Tan    | D00018286 | OGN          | as above; back to mixed bt-poor to mod bt chips; foliation moderate; trace v<br>fn reddish mineral on feldspar xtals (hematite); bt-rich chips show orangy<br>intermittent crust (limonite?)          |           | 1           |             |            |            |             |         |         |
| 90           | 95         | Orange<br>Tan    | D00018287 | OGN          | as above; predominately bt-poor chips; v wk foliation                                                                                                                                                 |           | 0.5         |             |            |            |             |         |         |
| 95           | 100        | Orange<br>Tan    | D00018288 | OGN          | as above except hematite (?) alt on ~20% of chips and darkish orange<br>feldspars make up ~25% with a slightly rusty-orange (?) appearance;                                                           |           | 0.1         |             |            |            |             |         |         |
| 100          | 105        | Pinkish<br>Tan   | D00018289 | OGN          | as above but almost no orange feldspars, instead pinkish feldspar in typical<br>feldspar-qtz matrix; hematite alt still common; chips are bt-poor;                                                    |           |             |             |            |            |             |         |         |
| 105          | 110        | Pinkish<br>Tan   | D00018291 | OGN          | as above; possible trace silver metallic sulfide or oxide on feldspar chip;<br>reddish (hematite?) appears to be more common on some chips and more<br>translucent (like a garnet?), throughout chip; |           |             |             |            |            |             |         |         |
| 110          | 115        | Pinkish<br>Tan   | D00018292 | OGN          | as above; generally bt-poor w/ 10% bt-rich chips;                                                                                                                                                     |           |             |             |            |            |             |         |         |
| 115          | 120        | Pinkish<br>Tan   | D00018293 | OGN          | as above; less bt-rich chips; hematite (?) alt still present; ~8% white qtz vn'ing<br>(?); no sulfides seen                                                                                           |           | 8           |             |            |            |             |         |         |
| 120          | 125        | Tan              | D00018294 | OGN          | generally lighter coloured feldspars, creamy, with 30-35% white qtz vn'ing??                                                                                                                          |           | 30          |             |            |            |             |         |         |
| 125          | 130        | Orange<br>Tan    | D00018295 | OGN          | as previous <120', orangy feldspars, reddish hematite (?) again common on<br>50% of grains - not just along fractures                                                                                 |           | 4           |             |            |            |             |         |         |
| 130          | 135        | Orange<br>Tan    | D00018296 | OGN          | as above except bt content higher ~35%; foliation moderate with mm scale<br>banding rarely present; reddish hematite alt still common                                                                 |           | 2           |             |            |            |             |         |         |
| 135          | 140        | Orange<br>Tan    | D00018297 | OGN          | as above                                                                                                                                                                                              |           | 1.5         |             |            |            |             |         |         |
| 140          | 145        | Orange<br>Tan    | D00018298 | OGN          | as above; hematite rare;                                                                                                                                                                              |           | 0.2         |             |            |            |             |         |         |
| 145          | 150        | Orange<br>Tan    | D00018299 | OGN          | as above but almost no hematite; ~20% biotite schist chips                                                                                                                                            |           |             |             |            |            |             |         |         |
| 150          | 155        | Orange<br>Tan    | D00018300 | OGN          | as above except generally moderate bt to bt-poor chips; reddish hematite alt<br>seen along fractures;                                                                                                 |           |             |             |            |            |             |         |         |
| 155          | 160        | Orange<br>Tan    | D00018301 | OGN          | as above but more mixed bt-poor to bt-rich chips; rusty orange oxidation<br>(limonite?) common on <30% of chips                                                                                       |           |             |             |            |            |             |         |         |
| 160          | 165        | Greyish<br>Brown | D00018302 | BS           | predominately biotite schist with 35% OGN (bt-poor to bt-rich)                                                                                                                                        |           |             |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 165          | 170        | Orange<br>Tan    | D00018303 | OGN          | as above 160' interval; mixed bt-poor to bt-rich chips; orangy alteration of feldspars                                                                                                                                                                          |           | 1.5         |             |            |            |             |         |         |
| 170          | 175        | Orange<br>Tan    | D00018304 | OGN          | as above                                                                                                                                                                                                                                                        |           | 1           |             |            |            |             |         |         |
| 175          | 180        | Orange<br>Tan    | D00018305 | OGN          | as above                                                                                                                                                                                                                                                        |           | 0.2         |             |            |            |             |         |         |
| 180          | 185        | Greyish<br>Brown | D00018306 | OGN          | mixed bt-rich OGN to biotite schist                                                                                                                                                                                                                             |           | 0.5         |             |            |            |             |         |         |
| 185          | 190        | Greyish<br>Brown | D00018307 | OGN          | as above but less biotite schist (<10%)                                                                                                                                                                                                                         |           |             |             |            |            |             |         |         |
| 190          | 195        | Greyish<br>Brown | D00018308 | OGN          | as above with 20% bt-poor chips                                                                                                                                                                                                                                 |           |             |             |            |            |             |         |         |
| 195          | 200        | Greyish<br>Brown | D00018309 | OGN          | as above but 45% bt-poor chips; traces hematite alteration particularly along fractures; also epidote seen with hematite on fracture surfaces; minor chlorite seen on whitish chips, (not qtz vn) likely feldspar - seems to have cleavage:                     |           |             |             |            |            |             |         |         |
| 200          | 205        | Greyish<br>Brown | D00018310 | OGN          | as above but 30% bt-poor chips; rare larger chips show rapid gradational change between biotite content                                                                                                                                                         |           |             |             |            |            |             |         |         |
| 205          | 210        | Greyish<br>Brown | D00018312 | OGN          | as above but <20% bt-poor to pure salmon coloured feldspar chips; some bt-rich chips are nearly biotite schist;                                                                                                                                                 |           |             |             |            |            |             |         |         |
| 210          | 215        | Grey             | D00018313 | OGN          | predominately bt-rich with almost no pure feldspar chips; most chips are black fn biotite in clear qtz matrix with minor feldspar but 30% have salmon-orange feldspar & qtz matrix; trace qtz vn'ing                                                            |           | 0.5         |             |            |            |             |         |         |
| 215          | 220        | Greyish<br>Brown | D00018314 | OGN          | more typical salmon feldspar and qtz matrix and bt-poor to bt-rich                                                                                                                                                                                              |           | 0.2         |             |            |            |             |         |         |
| 220          | 225        | Grey             | D00018315 | OGN          | predominately bt-rich to biotite schist with 40% OGN as above                                                                                                                                                                                                   |           | 0.5         |             |            |            |             |         |         |
| 225          | 230        | Greyish<br>Brown | D00018316 | OGN          | as above but mostly bt-rich with 20% bt-poor pale feldspar-qtz matrix chips                                                                                                                                                                                     |           |             |             |            |            |             |         |         |
| 230          | 235        | Greyish<br>Brown | D00018317 | OGN          | as above mixed bt-rich to bt-poor and variable salmon orange feldspar content; minor rusty orange alteration on salmon feldspar chips; white to clear qtz vn'ing up to 0.5%; still no sulfides seen                                                             |           | 0.5         |             |            |            |             |         |         |
| 235          | 240        | Light Tan        | D00018318 | OGN          | predominarely creamy white to pale orange feldspars with minor biotite and trace chlorite along with ~25-30% bt-mod to rich chips as previous;                                                                                                                  |           |             |             | 1          |            |             |         |         |
| 240          | 245        | Greyish<br>Brown | D00018319 | OGN          | Mixed bt-poor to bt-rich chips varying from white to orange matrix and pure salmon feldspars; most chips are flat suggesting mod to strong foliation; rusty orange oxidation on some feldspar rich chips; trace pyrite seen on one chips (white feld-qtz matrix |           |             |             |            |            |             | 0.1     |         |

| From<br>(ft) | To<br>(ft) | Colour | SampleID  | Lith<br>Code | Description                                                                                                 | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|--------|-----------|--------------|-------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 245          | 250        | Grey   | D00018321 | OGN          | as above but less orangy colour; trace chips with fn euhedral to anhedral py sometimes highly tarnished EOH |           |             |             |            |            |             | 0.1     |         |

### Drill Hole RO16-14

|    |    |               |           |     |                                                                                                                                                                                                                                                                 |  |     |  |  |  |  |     |  |
|----|----|---------------|-----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|--|--|--|-----|--|
| 5  | 10 | Orange<br>Tan | D00018322 | OGN | fine biotite bearing weakly to moderately foliated with generally fine grained matrix of salmon to creamy white feldspar and white qtz; chips show gradational matrix colour variation from translucent white to salmon; 20% pinkish orange feldspar xtals; chi |  | 15  |  |  |  |  |     |  |
| 10 | 15 | Orange<br>Tan | D00018323 | OGN | as above; qtz vn'ing more abundant (25%) as pure white chips, one large chip shows irregular undulating contact; pinkish orange feldspars slightly more common (25%); trace hematite alteration;                                                                |  | 25  |  |  |  |  |     |  |
| 15 | 20 | Orange<br>Tan | D00018324 | OGN | as above; more uniform mix of bt-poor to bt-rich chips with rare biotite schist chips; less common pink feldspar xtals; less common white qtz vn'ing; chip shapes more variable;                                                                                |  | 10  |  |  |  |  |     |  |
| 20 | 25 | Orange<br>Tan | D00018325 | OGN | predominately bt-poor salmon coloured feldspar-rich chips with common rusty orange oxidation (?) on some chips (not ubiquitous); weak hematite alteration on rare chips; 15-20% pure white qtz chips; no sulfides seen                                          |  | 18  |  |  |  |  |     |  |
| 25 | 30 | Orange<br>Tan | D00018326 | OGN | as above except slightly more fine bt throughout and slight increase in weak hematite alteration                                                                                                                                                                |  | 20  |  |  |  |  |     |  |
| 30 | 35 | Orange<br>Tan | D00018327 | OGN | as above; chips show mod foliation evidenced by micro banding between qtz and feldspars; biotite content continues to slightly increase to 15-25% within chips; weak hematite alteration on ~25% of chips; rusty orange oxidation (?);                          |  | 2   |  |  |  |  |     |  |
| 35 | 40 | Orange<br>Tan | D00018328 | OGN | as above; slight increase in salmon feldspar xtals some with minor fine biotite; rusty orange oxidation (?) more common and seems to be confined to feldspars;                                                                                                  |  | 5   |  |  |  |  |     |  |
| 40 | 45 | Orange<br>Tan | D00018329 | OGN | as above but hematite alteration on 35% of chips as faint pink colouration and typical blotches; banding foliation is less evident and biotite content is lower; rare pure salmon feldspar xtals; rusty orange alt less common; possible very fine pyrite but c |  | 2   |  |  |  |  | 0.1 |  |
| 45 | 50 | Orange<br>Tan | D00018331 | OGN | as above; biotite content increases again to 15-30%; hematite alt similar to previous interval but slightly more common, 45% of chips; rusty orange alt on feldspars similar to previous int; again poss v fn py but could be alt'd biotite;                    |  | 1   |  |  |  |  | 0.1 |  |
| 50 | 55 | Orange<br>Tan | D00018332 | OGN | as above; hematite alt as previous but slightly more common, 60% of chips; clear-white qtz vn'ing continues to diminish;                                                                                                                                        |  | 0.5 |  |  |  |  | 0.1 |  |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                   | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 55           | 60         | Orange<br>Tan    | D00018333 | OGN          | as above; very fine biotite shows variable alteration that could be 'py' above; hematite alt diminishing;                                                                                     |           | 0.2         |             |            |            |             |         |         |
| 60           | 65         | Orange<br>Tan    | D00018334 | OGN          | as above; hematite alt diminishing to rare slight pink colouration and fn blotches; salmon feldspar with minor biotite again more common; general decrease in biotite content;                |           | 0.1         |             |            |            |             |         |         |
| 65           | 70         | Greyish<br>Brown | D00018335 | OGN          | as above along with 35% biotite schist chips; moderate foliation;                                                                                                                             |           | 0.2         |             |            |            |             |         |         |
| 70           | 75         | Greyish<br>Brown | D00018336 | OGN          | as above but biotite schist decreases to ~10% of chips and 10% bt-rich OGN remainder is bt-poor salmon feldspar rich; clear-white qtz vn'ing increases slightly to 1.5%                       |           | 1.5         |             |            |            |             |         |         |
| 75           | 80         | Tan              | D00018337 | OGN          | predominately bt-poor feldspar rich chips, hematite alt decreased to rare as has rusty orange feldspar alt;                                                                                   |           | 0.1         |             |            |            |             |         |         |
| 80           | 85         | Orange<br>Tan    | D00018338 | OGN          | as above with common salmon feldspar xtals with minor fn biotite; fol wk to mod evidenced by mm banding; hematite alt picks up again mostly as fracture coating and minor blotches;           |           | 0.1         |             |            |            |             |         |         |
| 85           | 90         | Greyish<br>Brown | D00018339 | OGN          | as above but with more mixed mod to bt-rich chips; hematite alt minor mostly as fracture coating;                                                                                             |           | 0.1         |             |            |            |             |         |         |
| 90           | 95         | Orange<br>Tan    | D00018340 | OGN          | predominately salmon feldspar with minor biotite                                                                                                                                              |           | 0.1         |             |            |            |             |         |         |
| 95           | 100        | Orange<br>Tan    | D00018342 | OGN          | typical bt-poor to moderate OGN with pale feldspars and qtz matrix; weak foliation marked by biotite and rare mm/micro banding; minor hematite alt; slight increase in clear-white qtz vn'ing |           | 0.5         |             |            |            |             |         |         |
| 100          | 105        | Orange<br>Tan    | D00018343 | OGN          | as above with generally bt-poor chips and salmon feldspars more common;                                                                                                                       |           | 0.1         |             |            |            |             |         |         |
| 105          | 110        | Tan              | D00018344 | OGN          | bt-poor with almost no salmon feldspar xtals; very homogenous with rare biotite schist or bt-rich chip;                                                                                       |           | 0.1         |             |            |            |             |         |         |
| 110          | 115        | Orange<br>Tan    | D00018345 | OGN          | as 100-105' int with 10% bt-rich chips; slight hematite alteration as fine blotches or streaks poss along foliation; minor rusty orange alt on feldspars;                                     |           | 0.1         |             |            |            |             |         |         |
| 115          | 120        | Orange<br>Tan    | D00018346 | OGN          | as above but less hematite and orange feld alt; slight increase in bt;                                                                                                                        |           | 0.1         |             |            |            |             |         |         |
| 120          | 125        | Orange<br>Tan    | D00018347 | OGN          | as above with more orangy-pink colour either from salmon feldspar more common or weak pervasive hematite alt; almost no orangy feldspar alt;                                                  |           | 0.1         |             |            |            |             |         |         |
| 125          | 130        | Orange<br>Tan    | D00018348 | OGN          | as above, quite homogeneous                                                                                                                                                                   |           | 0.1         |             |            |            |             |         |         |
| 130          | 135        | Tan              | D00018349 | OGN          | as above but less colour, very bt-poor                                                                                                                                                        |           | 0.1         |             |            |            |             |         |         |
| 135          | 140        | Tan              | D00018351 | OGN          | as above, slightly more biotite (still bt-poor)                                                                                                                                               |           | 0.1         |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                               | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 140          | 145        | Tan              | D00018352 | OGN          | as above, continuing to become more biotite rich, now bt-poor to moderate with minor bt-rich                                                                                                                                              |           | 0.1         |             |            |            |             |         |         |
| 145          | 150        | Tan              | D00018353 | OGN          | as above; minor rusty oxidation on fractures                                                                                                                                                                                              |           | 0.1         |             |            |            |             |         |         |
| 150          | 155        | Greyish<br>Brown | D00018354 | OGN          | as above but no rusty oxidation; very minor hematite on fractures and orange alt of feldspars                                                                                                                                             |           |             |             |            |            |             |         |         |
| 155          | 160        | Greyish<br>Brown | D00018355 | OGN          | predominately bt-moderate to bt-rich chips; foliation a bit more developed, moderate; moderate hematite alt on fractures;                                                                                                                 |           |             |             |            |            |             |         |         |
| 160          | 165        | Grey             | D00018356 | OGN          | predominately bt-rich chips with minor biotite schist; trace oxidized pyrite (one euhedral xtal probable, others v fn masses); possible trace epidote? (translucent greenish yellow to colourless, stubby xtals with good crystal faces): |           | 0.1         |             |            |            |             | 0.1     |         |
| 165          | 170        | Orange<br>Tan    | D00018357 | OGN          | back to mixed bt-poor to bt-rich chips with orangy colour; weak fol defined by biotite alignment and micro banding;                                                                                                                       |           | 0.1         |             |            |            |             |         |         |
| 170          | 175        | Orange<br>Tan    | D00018358 | OGN          | as above;                                                                                                                                                                                                                                 |           | 0.1         |             |            |            |             |         |         |
| 175          | 180        | Greyish<br>Brown | D00018359 | OGN          | as above; slightly less orange colouration                                                                                                                                                                                                |           | 0.1         |             |            |            |             |         |         |
| 180          | 185        | Greyish<br>Brown | D00018361 | OGN          | as above; hematite alteration along rare fractures; trace chlorite as flecks                                                                                                                                                              |           | 0.1         |             | 1          |            |             |         |         |
| 185          | 190        | Orange<br>Tan    | D00018362 | OGN          | as above; slightly more orangy colour; 10% biotite schist                                                                                                                                                                                 |           |             |             |            |            |             |         |         |
| 190          | 195        | Orange<br>Tan    | D00018363 | OGN          | as above but slightly less biotite content in most chips, still ~10% biotite schist; 4% white qtz chips;                                                                                                                                  |           | 4           |             |            |            |             |         |         |
| 195          | 200        | Grey             | D00018364 | OGN          | predominately bt-rich OGN to biotite schist chips; 0.5% white qtz chips;                                                                                                                                                                  |           | 0.5         |             |            |            |             |         |         |
| 200          | 205        | Orange<br>Tan    | D00018365 | OGN          | 10% of above bt-rich/BS with 40% orange feldspar xtals with very minor or no biotite and trace poss muscovite; 50% pale to creamy bt-poor feldspar/qtz chips; no qtz vn chips                                                             |           |             |             |            |            |             |         |         |
| 205          | 210        | Orange<br>Tan    | D00018366 | OGN          | as above; orange feldspars often have a dark rusty oxudation as patchy to tiny blebs; trace fine pyrite on pale to creamy bt-poor to bt-rich chips; 0.5% white qtz chips                                                                  |           | 0.5         |             |            |            |             | 0.1     |         |
| 210          | 215        | Orange<br>Tan    | D00018367 | OGN          | as above but almost no dark rusty oxidation and no py seen;                                                                                                                                                                               |           | 0.1         |             |            |            |             |         |         |
| 215          | 220        | Greyish<br>Brown | D00018368 | OGN          | predominately bt-rich OGN chips                                                                                                                                                                                                           |           | 0.1         |             |            |            |             |         |         |
| 220          | 225        | Orange<br>Tan    | D00018369 | OGN          | 15% of above interval with pale creamy to slightly salmony feldspar-rich bt-poor chips; trace hematite alteration                                                                                                                         |           | 0.1         |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour            | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                        | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|-------------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 225          | 230        | Greyish<br>Brown  | D00018370 | OGN          | mix of bt-poor to bt-rich chips; common weak chloritic alteration seen on pale bt-poor chips as flecks possibly replacing                                                                                          |           | 0.1         |             | 2          |            |             |         |         |
| 230          | 235        | Greyish<br>Brown  | D00018372 | OGN          | as above but more bt-rich chips and consequently less chl alt visible;                                                                                                                                             |           |             |             | 1          |            |             |         |         |
| 235          | 240        | Greyish<br>Brown  | D00018373 | OGN          | predminately bt-poor to mod with 15% bt-rich chips; no chl alt; hematite alteration along rare fractures; overall matrix colour mixed between salmon orange (50% of bt-poor chips) to pale orangy white;           |           |             |             |            |            |             |         |         |
| 240          | 245        | Greyish<br>Brown  | D00018374 | OGN          | as above, slightly more salmon orange feldspar xtals;                                                                                                                                                              |           |             |             |            |            |             |         |         |
| 245          | 250        |                   | D00018375 | OGN          | as above but 40% bt-rich chips; trace chl alt                                                                                                                                                                      |           |             |             | 1          |            |             |         |         |
| 250          | 255        | Greyish<br>Brown  | D00018376 | OGN          | as above; ~2% white qtz vn'ing;                                                                                                                                                                                    |           | 2           |             |            |            |             |         |         |
| 255          | 260        | Grey              | D00018377 | OGN          | predominately bt-mod to bt-rich chips, less orangy colour in matrix; hematite alt along rare fractures; traces of rusty material possibly from biotite, no trace of sulfide;                                       |           |             |             |            |            |             |         |         |
| 260          | 265        | Greyish<br>Brown  | D00018378 | OGN          | back to more even mix of bt-poor to bt-rich chips (bt-poor chip matrix are pale salmon orange colour);                                                                                                             |           |             |             |            |            |             |         |         |
| 265          | 270        | Greyish<br>Brown  | D00018379 | OGN          | as above; slight increase in bt-rich chips                                                                                                                                                                         |           |             |             |            |            |             |         |         |
| 270          | 275        | Greyish<br>Brown  | D00018381 | OGN          | as above but very weak chl alt; hematite alt common throughout along fractures and as tiny patchy alt; trace fine anhedral py (?); clean white qtz vn chips;                                                       |           | 2           |             | 1          |            |             | 0.1     |         |
| 275          | 280        | Greyish<br>Brown  | D00018382 | OGN          | as above with increased bt-rich to biotite schist chips; slight decrease in chl alt; slight increase in orangy rust alt;                                                                                           |           | 1           |             | 1          |            |             |         |         |
| 280          | 285        | Orange<br>Tan     | D00018383 | OGN          | reduction in Bt-rich chips to rare; chl alt very weak but pervasive; orangy alt decreased and almost no rusty oxidation; hematite alt rare but seen as tiny patches and along fractures; 2% clean white qtz chips; |           | 2           |             |            |            |             |         |         |
| 285          | 290        | Greyish<br>Brown  | D00018384 | OGN          | back to mix of bt-poor to predominately bt-moderate to bt-rich chips; rusty oxidation to orangy rust alt still present but chl alt reduced to rare                                                                 |           | 1           |             |            |            |             |         |         |
| 290          | 295        | Orange<br>Tan     | D00018385 | OGN          | as above with more even mix of bt-poor to bt-rich chips; chl alt slightly more common on select chips; trace fn anhedral py in chips of bt-poor pale white matrix with chl alt;                                    |           | 1           |             | 1          |            |             | 0.1     |         |
| 295          | 300        | Greyish<br>Orange | D00018386 | OGN          | as above; rusty orange alt more intense but selective (probably along feldspar rich bands); chl alt chips less common; hematite alt rare;                                                                          |           | 0.5         |             | 1          |            |             |         |         |
| 300          | 305        | Tan               | D00018387 | OGN          | predominately bt-poor chips; orangy feldspar alt less common; weak chl alt seen on select chips; trace anhedral py;                                                                                                |           | 0.5         |             | 1          |            |             | 0.1     |         |

| From (ft) | To (ft) | Colour        | SampleID  | Lith Code | Description                                                                                                                                                                                                       | Ox Int | Qtz Vn % | Cal Vn % | Chl Int | Ser Int | Carb Int | PY % | PO % |
|-----------|---------|---------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|---------|---------|----------|------|------|
| 305       | 310     | Greyish Brown | D00018388 | OGN       | as above; py also seen as very fine partially euhedral xtals, overall content may approach 0.5% at best; grey qtz content in matrix predominate in 20% of chips; rusty orange alt common on 15% of chips;         |        |          |          | 1       |         |          | 0.5  |      |
| 310       | 315     | Greyish Brown | D00018389 | OGN       | as above, slight increase in bt-mod to bt-rich chips                                                                                                                                                              |        | 2        |          | 1       |         |          | 0.5  |      |
| 315       | 320     | Greyish Brown | D00018391 | OGN       | as above, still slightly increased bt-rich chips; rare mm accumulations of anhedral py; salmon orange feldspar xtals make up ~10%; chl alt less common, almost absent                                             |        |          |          | 1       |         |          | 0.5  |      |
| 320       | 325     | Greyish Brown | D00018392 | OGN       | predominately bt-moderate to bt-rich chips; chl alt is very faint to rare patchy flecks/bands; no py seen; patchy rusty orange oxidation seen on 15% of chips including along rare fractures; trace hematite alt; |        |          |          | 1       |         |          |      |      |
| 325       | 330     | Greyish Brown | D00018393 | OGN       | as above; very dirty sample with organics, possibly dropped - large organic material put in next chip slot; EOH                                                                                                   |        |          |          | 1       |         |          |      |      |

### Drill Hole RO16-15

|    |    |               |           |     |                                                                                                                                                                                                                                                                 |  |   |  |   |  |  |  |  |
|----|----|---------------|-----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|--|---|--|--|--|--|
| 0  | 5  |               |           | OB  | Overburden                                                                                                                                                                                                                                                      |  |   |  |   |  |  |  |  |
| 5  | 10 | Greyish Brown | D00018394 | OGN | mixed suite of chips containing fine grained feldspar (pale creamy white to orangy coloured), qtz (grey translucent) as matrix with varying content of biotite from biotite poor (<15%) to bt-rich (>30%) coarser salmon orange feldspars with or without minor |  | 2 |  |   |  |  |  |  |
| 10 | 15 | Greyish Brown | D00018395 | OGN | as above but predominately bt-mod to bt-rich chips that show a very weak chl alteration of biotite xtals; pervasive weak rusty orange (limonite? - not from sulfide but biotite) alteration with 15% chip edges showing strong limonite? alteration: 3% white f |  |   |  |   |  |  |  |  |
| 15 | 20 | Greyish Brown | D00018396 | OGN | as above but skewed to bt-poor chips (salmon orange to pale orange colour) and higher content of feldspar; the biotite in these chips are commonly partially to completely altered to chlorite;                                                                 |  |   |  | 1 |  |  |  |  |
| 20 | 25 | Orange Tan    | D00018397 | OGN | as above but ~65% bt-poor feldspar chips as above                                                                                                                                                                                                               |  |   |  | 1 |  |  |  |  |
| 25 | 30 | Greyish Brown | D00018398 | OGN | predominately bt-mod to bt-rich chips; orangy limonite? alt patchy to prevasively in 40% of chips; traces of hematite alteration;                                                                                                                               |  |   |  |   |  |  |  |  |
| 30 | 35 | Greyish Brown | D00018399 | OGN | more even mix of bt-mod to rich and salmon feldspar xtals with minor biotite; weak limonite? alt, mostly patchy; trace hematite alt; micron prismatic calcite crystals forming on chip surfaces                                                                 |  |   |  |   |  |  |  |  |
| 40 | 45 | Greyish Brown | D00018401 | OGN | as 30-35' interval; with very weak selective chlorite alt;                                                                                                                                                                                                      |  |   |  | 1 |  |  |  |  |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 45           | 50         | Greyish<br>Brown | D00018402 | OGN          | as above but salmon coloured feldspars subordinate to pale creamy feldspar; slightly more hematite alt; patchy limonite alt on 15% of chipstrace translucent white qtz chips                                                                                    |           | 0.1         |             | 1          |            |             |         |         |
| 50           | 55         | Greyish<br>Brown | D00018403 | OGN          | near schistose texture with grey qtz making up more of the matrix than feldspar; minor small muscovite xtals along strong foliation; limonite alt slightly more common and rarely pervasive on chips; micron prismatic calcite crystals forming on chip surface |           |             |             |            |            |             |         |         |
| 55           | 60         | Greyish<br>Brown | D00018404 | OGN          | as above but slightly less strong foliation, not as schistose-like; bit more biotite content, still qtz rich matrix but 15% feldspar xtals (pale orange to creamy); rare disseminated chl                                                                       |           |             |             | 1          |            |             |         |         |
| 60           | 65         | Greyish<br>Brown | D00018405 | OGN          | as above; limonite alt occasionally grading to very rusty (no evidence of sulfides);                                                                                                                                                                            |           |             |             | 1          |            |             |         |         |
| 65           | 70         | Greyish<br>Brown | D00018406 | OGN          | as above; trace pyrite (partially oxidized micro euhedral xtals); feldspars most commonly creamy white with slight orange hue; chl very rare                                                                                                                    |           |             |             |            |            |             | 0.1     |         |
| 70           | 75         | Greyish<br>Brown | D00018407 | OGN          | as above but weak chl alt patchy to pervasive in 25% of chips; trace oxidized euhedral pyrite; salmon feldspars more common; 5% white qtz chips                                                                                                                 |           | 5           |             | 1          |            |             | 0.1     |         |
| 75           | 80         | Orange<br>Tan    | D00018408 | OGN          | predominately bt-poor feldspar rich chips, 60% salmon orange; biotite content mostly chl altered;                                                                                                                                                               |           |             |             | 1          |            |             |         |         |
| 85           | 90         | Greyish<br>Brown | D00018410 | OGN          | mix of bt-poor to bt-rich chips; mod to str limonite alt or staining on 45% of chips; weak hematite alt on rare chips;                                                                                                                                          |           | 0.5         |             |            |            |             |         |         |
| 90           | 95         | Orange<br>Tan    | D00018412 | OGN          | predominately very bt-poor salmon feldspar and/or white qtz rich chips; maybe 10% white qtz chips are vn material;                                                                                                                                              |           | 10          |             |            |            |             |         |         |
| 95           | 100        | Greyish<br>Brown | D00018413 | OGN          | predominately bt-mod to bt-rich chips; 25% of chips have mod limonite alt with rare str rusty alt; 6% fairly clean white qtz chips;                                                                                                                             |           | 6           |             |            |            |             |         |         |
| 100          | 105        | Greyish<br>Brown | D00018414 | OGN          | as above but less limonite alt; slightly more grey qtz rich matrix;                                                                                                                                                                                             |           | 5           |             |            |            |             |         |         |
| 105          | 110        | Greyish<br>Brown | D00018415 | OGN          | as above but biotite content diminished (bt-poor to mod); qtz still more common as matrix material but feldspar is present; rare mod to str chl altered chips; weak sporadic limonite alt and patchy str rust; 15% pure white qtz chips;                        |           | 15          |             |            |            |             |         |         |
| 110          | 115        | Greyish<br>Brown | D00018416 | OGN          | biotite content increases in ~30% of chips to bt-mod to bt-rich; qtz is almost dominate enough to classify as QBS; relatively pure clean white qtz chips again very common;                                                                                     |           | 10          |             |            |            |             |         |         |
| 115          | 120        | Greyish<br>Brown | D00018417 | OGN          | predominately bt-poor chips; feldspar content increases; limonite alt or staining pervasive on about 40% of chips, occasionally very strongly;                                                                                                                  |           | 6           |             |            |            |             |         |         |

| From<br>(ft) | To<br>(ft) | Colour           | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 120          | 125        | Greyish<br>Brown | D00018418 | OGN          | as above; mod to str limonite alt or staining increases to about 60% of chips; 20% clean white qtz chips; trace fn anhedral pyrite (one chip of quartzite has 15% fine masses of pyrite);                                                                       |           | 20          |             |            |            |             | 0.1     |         |
| 130          | 135        | Greyish<br>Brown | D00018421 | OGN          | as above with slightly more limonite alteration; increased bt-mod to bt-rich chips but less chlorite alteration; trace pyrite, anhedral and euhedral, sometimes with str oxidation;                                                                             |           | 0.1         |             | 1          |            |             | 0.1     |         |
| 135          | 140        | Tan              | D00018422 | OGN          | predominately bt-poor chips with pale orange feldspar and qtz matrix (qtz seems more common but discoloured - no crystals seen); biotite mostly altered to chl except in 10% bt-rich chips where chl alt is minimal to absent; 15% white pure qtz;              |           | 15          |             | 1          |            |             |         |         |
| 140          | 145        | Tan              | D00018423 | OGN          | as above but lower bt content, almost absent, and therefore chl almost absent; trace generally euhedral pyrite commonly rusting to limonite; rare chips have a strong dusting of rusty limonite possibly after pyrite; white qtz chips make up 20% and sometime |           | 20          |             |            |            |             | 0.1     |         |
| 145          | 150        | Greyish<br>Brown | D00018424 | OGN          | increase in bt-mod to bt-rich chips mixed with previous intervals very low bt qtz-feldspar rich chips; pyrite content seems lower but rare chips have higher percentage including one 2mm chip that appears to be nearly all small pyrite xtals 60% oxidized; w |           | 5           |             |            |            |             | 0.1     |         |
| 150          | 155        | Greyish<br>Brown | D00018425 | OGN          | bt-rich chip content much higher, ~60%, with selective rare mod to str chl alt and rare chips with coarse accumulations of generally euhedral, strongly oxidized pyrite; ~25% v bt-poor chips as per previous interval (with trace py); 15% white qtz chips as  |           | 15          |             |            |            |             | 1       |         |
| 155          | 160        | Greyish<br>Brown | D00018426 | OGN          | generally more even mix of bt-rich to bt-poor chips; trace pyrite; chl It is weak and selective; limonite alt and staining is stronger than previous interval; white qtz makes up 25% of chips still with the sugary texture and quite pure, no sulfides;       |           | 25          |             | 0.1        |            |             | 0.1     |         |
| 160          | 165        | Greyish<br>Brown | D00018427 | OGN          | as above but no py seen and no chl alt; limonite alt and staining decreased; qtz chips more abundant but no pyrite                                                                                                                                              |           | 30          |             |            |            |             |         |         |
| 165          | 170        | Light<br>Orange  | D00018428 | OGN          | 90% pale salmon orange feldspar-qtz chips with very low biotite content altering to chl; feldspar xtal faces can be seen uncommonly, generally fine grained matrix with slight sugary texture; white qtz chips nearly absent; 10% of previous interval          |           | 0.1         |             |            |            |             |         |         |
| 170          | 175        | Greyish<br>Brown | D00018429 | OGN          | back to typical mix of bt-poor to bt-mod chips with feldspar-qtz matrix and pale salmon colour; no to very weak chl alt; rare chip with rusty limonite after fn euhedral pyrite; 10% bt-rich or biotite schist chips; no white qtz;                             |           |             |             |            |            |             | 0.1     |         |
| 175          | 180        | Greyish<br>Brown | D00018431 | OGN          | as above but high content of bt-rich chips; trace of very fine pyrite, often oxidized seen in all chips; trace white qtz chips;                                                                                                                                 |           | 0.1         |             |            |            |             | 0.1     |         |

| From<br>(ft) | To<br>(ft) | Colour            | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                     | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|-------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 180          | 185        | Greyish<br>Orange | D00018432 | OGN          | as above but more salmon orange colour to matrix; some chips show mm banding of v pale orange to slightly darker orange; just trace white qtz chips; very fine and delicate radiating calcite crystals on chips |           | 0.1         |             |            |            |             |         |         |
| 185          | 190        | Greyish<br>Orange | D00018433 | OGN          | as above                                                                                                                                                                                                        |           | 0.1         |             |            |            |             |         |         |
| 190          | 195        | Tan               | D00018434 | OGN          | as above with less bt-rich chips (predominately bt-poor to bt-mod chips); weak chl alteration on select grains; trace hematite;                                                                                 |           | 0.1         |             |            |            |             |         |         |
| 195          | 200        | Greyish<br>Orange | D00018435 | OGN          | predominately bt-rich chips with 25% bt-poor to bt-mod or salmon orange feldspar xtals; weak pervasive limonite alteration with fractures thinning coated with rusty limonite; rare white qtz chips             |           | 0.1         |             |            |            |             |         |         |
| 200          | 205        | Greyish<br>Orange | D00018436 | OGN          | as above but 35% bt-poor salmon coloured chips; white qtz to 2%                                                                                                                                                 |           | 2           |             |            |            |             |         |         |
| 205          | 210        | Greyish<br>Brown  | D00018437 | OGN          | as above but salmon colour replaced by a pale orange to tan; even mix of bt-poor to bt-rich chips; limonite alt still present but less pervasive; weak patchy chl alt; 35% white qtz;                           |           | 35          |             |            |            |             |         |         |
| 210          | 215        | Greyish<br>Orange | D00018438 | OGN          | as above but less bt-rich chips and more salmon orange colour throughout; chips show a stronger foliation as chips are flakier with possible fine muscovite; pure white qtz down to about 15%;                  |           | 15          |             |            |            |             |         |         |
| 215          | 220        | Greyish<br>Orange | D00018439 | OGN          | as above but again less bt-rich chips (now <10%); rusty limonite(?) staining on 10% of chips with rare rusty limonite; very fine white calcite xtals form on chips as they dry; almost no white qtz chips;      |           | 0.1         |             |            |            |             |         |         |
| 220          | 225        | Greyish<br>Orange | D00018440 | OGN          | as above, slightly more orange coloured matrix                                                                                                                                                                  |           | 0.1         |             |            |            |             |         |         |
| 225          | 230        | Orange            | D00018442 | OGN          | as above but salmon colour is quite intense; bt-poor chips predominate with 20% bt-rich to biotite schist chips, often platy; hematite on select chips; white qtz chips rare                                    |           | 0.1         |             |            |            |             |         |         |
| 230          | 235        | Orange            | D00018443 | OGN          | as above, bt-mod to bt-rich chips make up ~15%; orange limonite staining on ~30% of chips; 1% pure white qtz chips;                                                                                             |           | 1           |             |            |            |             |         |         |
| 235          | 240        | Orange            | D00018444 | OGN          | almost all salmon orange chips with very low bt content; rusty orange staining on 25% of chips; 3% pure white qtz chips;                                                                                        |           | 3           |             |            |            |             |         |         |
| 240          | 245        | Orange            | D00018445 | OGN          | as above but slightly less rusty staining                                                                                                                                                                       |           | 3           |             |            |            |             |         |         |
| 245          | 250        | Orange            | D00018446 | OGN          | as above with 10% bt-mod to bt-rich chips; trace euhedral pyrite; slightly less pure white qtz chips; EOH                                                                                                       |           | 1           |             |            |            |             | 0.1     |         |

### Drill Hole RO16-16

|   |   |  |  |    |            |  |  |  |  |  |  |  |  |
|---|---|--|--|----|------------|--|--|--|--|--|--|--|--|
| 0 | 5 |  |  | OB | Overburden |  |  |  |  |  |  |  |  |
|---|---|--|--|----|------------|--|--|--|--|--|--|--|--|

| From<br>(ft) | To<br>(ft) | Colour         | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                  | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|----------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 5            | 10         | Light Grey     | D00018447 | OGN          | Interval comprised of 0.5-1 cm chips (large) and fairly blocky in appearance. Foliation is not obviously developed. Rock is fn to med grd and seems to exhibit an intrusive texture. Xtls are sub-mm in size and are comprised of quartz, plag feld and bio  |           | 1           |             |            |            | 4           | 0.1     |         |
| 10           | 15         | Light Grey     | D00018448 | OGN          | As above but chips are 1-3 mm in size. Rock appears to be an intrusive based on texture and consists of qtz, plag feld, biotite, +/- K-spar. No obvious foliation developed but not a lot of "foliation-forming" minerals. Rare grains appear to have fn gr  |           | 10          |             | 1          |            | 3           |         |         |
| 15           | 20         | Light Grey     | D00018449 | OGN          | Grey ish brown rock that almost exhibits a pinkish colouration. Rock is comprised of qtz, plag feldspar with minor K-spar, chlorite and biotite. Rock does not appear to be foliated. Qtz veins are massive, white and featureless. Rare qtz chips contain   |           | 35          |             | 1          |            | 3           | 0.1     |         |
| 20           | 25         | Orangish White | D00018451 | OGN          | Rock is orange white and comprised of a mixture of qtz vein and orthogneiss. The orthogneiss is variable white to orange brown in colour, +/- green from randomly disseminated chlorite. Rare chips contain biotite; mainly rock is qtz, two feldspars and c | 3         | 30          |             | 3          |            | 1           | 6       |         |
| 25           | 30         | Orangish Grey  | D00018452 | OGN          | As Above.                                                                                                                                                                                                                                                    | 2         | 25          |             | 2          |            | 1           | 0.5     |         |
| 30           | 35         | Grey           | D00018453 | OGN          | Interval still dominated by OGN but 30-35% of interval is comprised of dark grey, almost mottled chips consisting of feldspar, qtz and biotite, +/- chlorite. The darker, almost schistose chips are foliated. Rare pink chips appear to be K-spar. Modest % | 1         | 15          |             | 1          |            | 1           | 0.5     |         |
| 35           | 40         | Grey           | D00018454 | QBS          | Chips comprise a mixture of QBS and OGN, 60-40%. QBS chips are foliated and comprised of qtz, feldspar and biotite, +/- chlorite. Subtle limonite alt'n developed on QBS chips. Qtz vn is massive and featureless. Carbonate alt'n is pervasively developed  | 2         | 10          |             |            |            | 3           | 0.1     |         |
| 40           | 45         | Dark Grey      | D00018455 | QBS          | As above but slightly more schistose chips. Minor dark reddish brown to black limonite developed on qtz vns and QGN chips. Rock is moderately foliated.                                                                                                      | 2         | 5           |             | 1          |            | 3           | 0.3     |         |
| 45           | 50         | Dark Grey      | D00018456 | QBS          | As above. Rock is foliated and consists of 60-70% QBS, mixed with qtz vein and OGN. No pink K-spar chips within interval. Very minor pyrite within QBS and not in the qtz vns.                                                                               | 2         | 15          |             |            |            | 3           | 0.3     |         |
| 50           | 55         | Dark Grey      | D00018457 | QBS          | As above except contains small percentage of QGN. Rare pink K-spar grains also present. Irregular chips of QBC contains anhedral pyrite xtls that are variable oxidized. Pyrite is sub-mm in size.                                                           | 2         | 5           |             | 1          |            | 2           | 0.3     |         |
| 55           | 60         | Dark Grey      | D00018458 | QBS          | As above. Interval is 80-90% and is mixed with pinkish white K-spar and plag feldspar.                                                                                                                                                                       | 1         | 3           |             | 1          |            | 2           | 0.1     |         |

| From (ft) | To (ft) | Colour       | SampleID  | Lith Code | Description                                                                                                                                                                                                                                     | Ox Int | Qtz Vn % | Cal Vn % | Chl Int | Ser Int | Carb Int | PY % | PO % |
|-----------|---------|--------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|---------|---------|----------|------|------|
| 60        | 65      | Dark Grey    | D00018459 | QBS       | As Above.                                                                                                                                                                                                                                       | 1      | 3        |          | 1       |         | 2        | 0.3  |      |
| 65        | 70      | Dark Grey    | D00018461 | QBS       | As above. Pyrite is rare and does not occur in the qtz vn, only in the schist.                                                                                                                                                                  | 1      | 4        |          | 1       |         | 3        | 0.3  |      |
| 70        | 75      | Dark Grey    | D00018462 | QBS       | As above. 80% QBS with chips consisting of biotite, feldspar and qtz. Also see chips of skokey grey, creme, to pink; appear to be various feldspars. No pyrite in this interval.                                                                | 1      | 3        |          | 1       |         | 3        |      |      |
| 75        | 80      | Grey         | D00018463 | OGN       | Increase to greater than 50% milky white (plag feldspar) and pink (K-spar) chips with minor QBS. Qtz chips are white and featureless.                                                                                                           | 1      | 25       |          | 3       |         | 3        |      |      |
| 80        | 85      | Grey         | D00018464 | OGN       | Chips mainly comprised of plag feldspar with amorphous flecks of green chlorite, some are a combination of feldspar, biotite and chlorite and some qtz vein. For some of the chips difficult to discern between grey-white feldspar and qtz vn. |        | 5        |          | 3       |         | 3        |      |      |
| 85        | 90      | Grey         | D00018465 | OGN       | As above.                                                                                                                                                                                                                                       |        | 15       |          | 3       |         | 3        |      |      |
| 90        | 95      | Grey         | D00018466 | QBS       | Subtle swing back to an interval dominated by quartz biotite schist; 55-60% QBS. 25% Qtz vn with remainder of chips mostly plag feldspar. QBS chips are weakly to moderately foliated.                                                          | 1      | 25       |          | 2       |         | 2        | 0.2  |      |
| 95        | 100     | Dark Grey    | D00018467 | QBS       | As above                                                                                                                                                                                                                                        |        | 35       |          | 2       |         | 2        |      |      |
| 100       | 105     | Grey         | D00018468 | QBS       | Well foliated schistose rock. Chips mostly biotite, qtz and feldspar.                                                                                                                                                                           |        | 30       |          | 2       |         | 4        | 0.1  |      |
| 105       | 110     | Dark Grey    | D00018469 | QBS       | Interval dominated by biotite bearing schistose chips. Chips are well foliated. Very weak oxidation of some biotite.                                                                                                                            |        | 7        |          | 3       |         | 1        |      |      |
| 110       | 115     | Dark Grey    | D00018470 | QBS       | As above.                                                                                                                                                                                                                                       |        | 5        |          | 3       |         | 2        |      |      |
| 115       | 120     |              | D00018472 | QBS       | As above. 5-10% of chips comprised of plag feldspar with little to no biotite.                                                                                                                                                                  |        | 3        |          | 1       |         | 1        |      |      |
| 120       | 125     | Dark Grey    | D00018473 | QBS       | As above                                                                                                                                                                                                                                        |        | 7        |          |         |         | 1        |      |      |
| 125       | 130     | Dark Grey    | D00018474 | QBS       | As above                                                                                                                                                                                                                                        |        | 2        |          |         |         | 1        |      |      |
| 130       | 135     | Grey         | D00018475 | QBS       | Mixture of QBS, Qtz vein and possible plagioclase feldspar. Schist comprises 60-65% of interval, qtz vein comprises 35% of interval with feldspar possibly 5%. Select chips adopt a pinkish hue. No sx                                          |        | 35       |          |         |         | 2        |      |      |
| 135       | 140     | Grey         | D00018476 | QBS       | As above                                                                                                                                                                                                                                        |        | 5        |          |         |         | 3        |      |      |
| 140       | 145     | Grey         | D00018477 | QBS       | As above                                                                                                                                                                                                                                        |        |          |          |         |         | 1        |      |      |
| 145       | 150     | Whitish Grey | D00018478 | QV        | Quartz Vein with minor (35-40%) QBS. Vn material is white, massive and featureless. Flecks of chlorite typically occur within the qtz vn material.                                                                                              |        | 60       |          | 2       |         | 1        |      |      |

| From<br>(ft) | To<br>(ft) | Colour        | SampleID  | Lith<br>Code | Description                                                                                                                                                                                                                                                  | Ox<br>Int | Qtz<br>Vn % | Cal<br>Vn % | Chl<br>Int | Ser<br>Int | Carb<br>Int | PY<br>% | PO<br>% |
|--------------|------------|---------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|------------|------------|-------------|---------|---------|
| 150          | 155        | Dark Grey     | D00018479 | QBS          | Chips dominated by biotite, feldspar and qtz. Minor qtz vn and plagioclase feldspar.                                                                                                                                                                         |           | 5           |             |            |            | 2           |         |         |
| 155          | 160        | Dark Grey     | D00018481 | QBS          | As above                                                                                                                                                                                                                                                     |           | 7           |             |            |            | 1           |         |         |
| 160          | 165        | Dark Grey     | D00018482 | QBS          | As above                                                                                                                                                                                                                                                     |           | 5           |             |            |            | 1           |         |         |
| 165          | 170        | White to Grey | D00018483 | QBS          | Interval is dominated by schist but also contains significant population of feldspar chips; mainly plagioclase but also K-spar (these chips exhibit a subtle to moderately developed pink colour. Qtz vn chips are typically white, massive and featureless. |           | 4           |             |            |            | 2           |         |         |
| 170          | 175        | Dark Grey     | D00018484 | QBS          | More typical schistose layer with minor qtz vn material, also with minor plagioclase or K-spar.                                                                                                                                                              |           | 5           |             |            |            | 2           |         |         |
| 175          | 180        | Dark Grey     | D00018485 | QBS          | As above.                                                                                                                                                                                                                                                    |           | 7           |             |            |            | 2           |         |         |
| 180          | 185        | Dark Grey     | D00018486 | QBS          | As above                                                                                                                                                                                                                                                     |           | 10          |             |            |            | 2           |         |         |
| 185          | 190        | Dark Grey     | D00018487 | QBS          | As above EOH                                                                                                                                                                                                                                                 |           | 3           |             |            |            | 2           |         |         |

**APPENDIX 2**  
**LABORATORY ASSAY CERTIFICATES,**  
**CERTIFICATION AND ANALYTICAL**  
**METHOD SUMMARIES**

See Data Folder for assay certificates  
Certification and Analytical Method Summaries

## **APPENDIX 3**

### **GEOPHYSICAL IMAGES AND DATA**

Processing report  
for  
Ground Truth Exploration

### **Rosebute area magnetic survey**

The area was surveyed by the Ground Truth Exploration between July 31st and August 2nd, 2016.

Approximately 58.5 line km of data was acquired.

Nominal line spacing was 50 m.

IGRF values for the survey area were calculated based on the date of acquisition and Z-coordinate derived from the GPS altitude.

Digital elevation model (DEM) was created from the GPS altitude.

Final TMI grid was produced from diurnal-corrected and IGRF-reduced data.

5m grid cell size was used.

Geosoft Oasis Montaj and custom auxiliary software were used for the data processing.

George Lev, geophysicist

GJL Consulting glev.gjlc@gmail.com

August 5th, 2016

### **Appendix:**

#### **Database Channels:**

|         |                                                                                 |
|---------|---------------------------------------------------------------------------------|
| X       | - Easting, NAD 83, zone UTM 7N                                                  |
| Y       | - Northing, NAD 83, zone UTM 7N                                                 |
| Z       | - GPS altitude (raw)                                                            |
| mag_raw | - input TMI data                                                                |
| sq      | - reading quality indicator                                                     |
| diur    | - diurnal variation                                                             |
| mag_fin | - final magnetic field value prior to de-corrugation - best used for line data. |
| DEM     | - Digital Elevation Model                                                       |
| IGRF    | - International Geomagnetic Reference Field                                     |
| lon     | - Longitude, WGS84                                                              |
| lat1    | - Latitude, WGS84                                                               |
| date    | - data acquisition date                                                         |
| Ltime1  | - data acquisition time (local, PDT)                                            |

#### **List of attachments:**

- |                        |                                 |
|------------------------|---------------------------------|
| 1 - RB2_fin_160805.gdb | - Geosoft database              |
| 2 - RB2_DEM.grd        | - Digital Elevation model grid. |
| 3 - RB2_MagFIN.grd     | - Final TMI grid                |

See Data Folder for  
Geophysical geodatabase