**MURLAND MINING Pvt Ltd**

# EXPLORATION REPORT ON THE

# SHANGWE RANCH EASTERN

# BLOCK

**AUGUST 2014**

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## 1. EXECUTIVE SUMMARY

Shangwe Ranch is located by way of a dirt road some 25km northwest of Chegutu town, which is about 100km west of Harare. There is a variety of activities ongoing in the ranch, that is cattle rearing, crop farming, gold mining and processing. The mining that is taking place in the ranch is mainly small scale, and several shafts have been opened up haphazardly. Some shafts are however not operational because of flooding. The gold that is being mined is processed at the ranch. There are two stamp mills, a bore mill and some agitation tanks. The ranch is connected to the national power grid. There is a dam on the ranch that supplies water to the plant and some staff quarters that house the farm and plant workers. There is also a backup generator for the plant in case of load shedding.

Exploration has been done in the block. This entails Geophysics, soil geochemistry and currently trenching is ongoing. The trenching is following up on soil geochem anomalies that were identified. Mineralization is essentially of reef type hosted mainly in meta-basaltic rocks. Mineralization is also found in felsic schists and felsitic rocks. Some mineralization is associated with Banded Iron formations. A significant amount of prospective ground lies outside the demarcated concession area provided for investigation and there will be need to open up more ground for that exercise.

It is proposed that phase 2 exploration be carried out (diamond drilling and Resource Estimation). The estimated cost for this phase of exploration stands at ±$1,150, 000us.

An inferred resource of 122 583 ounces of insitu gold has been estimated from the sampling of opened up reefs. The gold assay values range from 1.13g/t to 21.74g/t averaging 3.4g/t. The tonnages were estimated down to 100m and the strike extends to an average 300m on each individual mine. However, most of the shafts in the area have been developed down to 60m and they are still virgin. There are surrounding mines that go down to 200m on the same reefs. These inferred ounces could go up after a comprehensive evaluation since some targets were not included in the estimation.

From the mining currently ongoing in the blocks, a total of 100 tones of ore are being realized on a monthly basis producing about half a kg of gold every month. Dump treatment is also producing about a kg of gold every month.

## 2. INTRODUCTION AND SCOPE

### 2.1 Project Outline

This report details the exploration work that was carried out in the Shangwe Ranch's eastern block situated in Chegutu District, western Zimbabwe between October 2011 and November 2013. It marks the successful completion of the several phases of detailed exploration programs. The work included ground magnetic surveys, induced polarization surveys and lithological mapping and soil geochemistry. For the soil geochem samples, certified reference materials, duplicates and blank samples were added to the sample stream for analysis at the Lab. However, no duplicate samples were included with the rock chip samples.

The primary goal for this exploration was to:

1. Mapping lineaments and curvelinears that reflect fracturing, fulting, folding and shearing.
2. Mapping on plan manetic variations within the host rock using the total field magnetic intensities.
3. Follow up ground magnetics with IPand RSIP to see the extends of the possible ore bodies with depth.
4. Lithological and structural mapping of the area to understand the controls on mineralisation and produce the detailed geological map of the area. This would guide further exploration work.
5. Concurrently collect soil samples, and submit them for assaying by low gold level detection (ppb) analysis by aqua regia digestion and delineate anomalous zones, which would lead to the budgeting and planning for further work such as trenching and drilling.

### 2.2 Project Description and Location

Shangwe Ranch is situated in Chegutu, a small town 100km west of Harare. The project area can be accessed by driving northwest from Chegutu along the Chakari strip tarred road for 2km then turning right into the Bayhorse/Pitana road. Shangwe Ranch is 21km down this road. The image below shows the location of the Shangwe ranch project area in relation to Chegutu town:

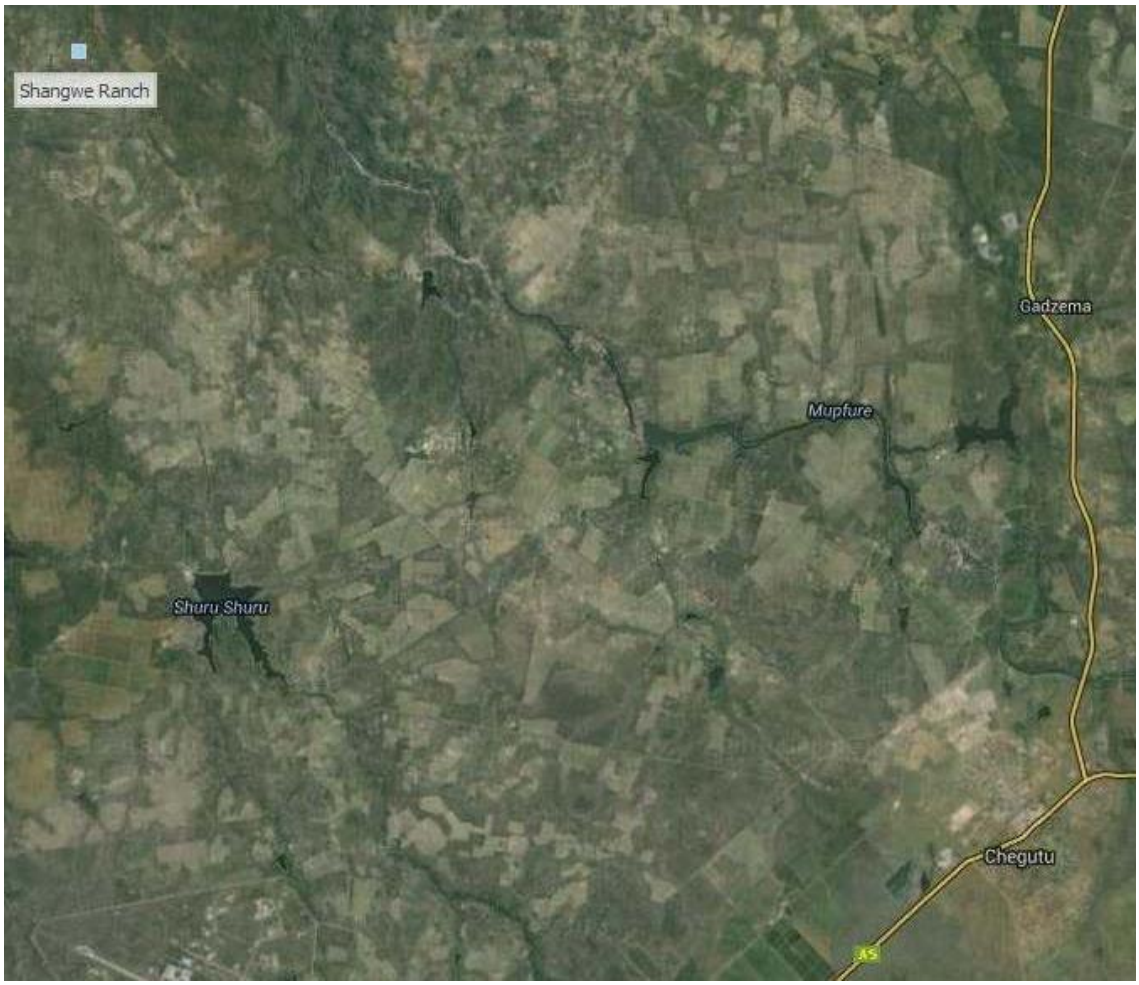



*Fig 1: Shangwe Ranch location in relation to chegutu*

*Fig 2: Plant area with two stamp mills, CIP plant and a ball mill*

**2.3 Access & Infrastructure**

**2.3.1 Roads**

Access to the blocks is gained by using the Harare - Bulawayo highway, turning right at the first and only Chegutu robots. One drives along this road until they cross the railway line, and after about 0.3km past the railway line then turn right again and drive for 2km and turn right into the Bayhorse road. This dirt road leads to Shangwe ranch which is 23km from this turn off. The Bayhorse road used to be paved for most of the road but due to lack of repair the road is now derelict with massive pot holes and

**2.3.2 Railway Lines**

There is no railway line passing directly through the Shangwe Ranch. The nearest one available is in Chegutu. The railway line is fairly well-serviced and frequently used and hence can be relied upon for ore or any other transportation needs.

**2.3.3 Electricity**

The area is on the national power grid. The plant and housing are thus connected to this grid. The plant has a standby generator in case of power outages.

*Fig 3: A power line that passes through the blocks*

**2.3.4 Water**

Water supply is ubiquitous at the ranch. There is the perennial Mupfure River on the eastern margins of the farm and the Shangwe River to the west. There is also a reasonably big dam (Shuru shuru dam) near the centre of the farm. The farmer has sunk a borehole for portable water.

**2.4 Topography and Climate**

The area in which the ranch lies is fairly rugged. The eastern boundary is cut by several elongate hills. However, middle part of the farm is fairly flat and this is where most of the shafts and plant are situated as well as some fields for crop farming. The highest point is about 1135m, which occurs in the east near Mupfure River whilst the lowest is about 1034m.

*Fig 4: The rugged eastern part of the block*

The climate is generally mild-hot but tends to be hottest around October just before the onset of the rainy season. The area receives high rainfall and it falls in the agro-region 2. Rainy season is from late October to early April. Winters are from May to July.

**2.5 Drainage**

The main drainage system in the vicinity of the blocks is dominated by the northerly flowing Mupfure River occurring in the eastern boundary of the blocks and is approximately 4 km east of plant. Several seasonal tributaries to this river drain through the blocks. Mupfure River and its tributaries all provide potential sources of water should large scale operations take place in the area.

**3.0 GEOLOGICAL SETTING**

**3.1 Regional Geology**

The area is part of the large anticline known as the Kadoma Anticline which plunges to the northeast. The basement complex forms most of the oldest rocks in this area and these have been subdivided into four series – the lower greenstone, sedimentary, upper greenstone and the deweras series. The Shangwe granite forms the core of a large complex anticline of which these rocks have been folded into.

*Greenstone series*

The greenstone is divided into two, the upper and lower greenstone series. The lower greenstones are the oldest rocks in the area and they form a semicircle round the Shangwe granite.

The lower greenstone series is made up of greenstone (basalt), greenstone schist, epidiorite and hornblende schist.

The greenstone is a heavy, massive, dark green, black or dark grey rock in which crystal structure is rarely seen. The basalt weathers into rounded to sub angular boulders similar to that of dolerite and is well jointed. Greenstone schist is a basalt that is sheared and it breaks into flat, tabular slabs or irregular fragments. Epidiorite is a massive black to dark green rock in which black crystals of hornblende can be seen. This hornblende changes to hornblende schist when strongly sheared. The minerals found in these schists vary significantly but talc, muscovite, graphite, biotite and chlorite are some of the more common constituents of these rocks.

The upper greenstone series differ slightly from the rocks of the lower series. The rocks will have undergone less intense metamorphism and they are typically dark coloured, aphanitic, massive and amygdaloidal. Epidotization is fairly common and some rocks have been converted to chlorite schists in which some amygdales can be distinguished.

*Sedimentary series*

This series is sandwiched between the upper and lower greenstone series. It consists of various highly metamorphosed sediments interbedded with banded ironstones and acid lavas. The sediments found in the area are conglomerates composed of angular fragments, folded and sheared and the pebbles are so crushed that they are often difficult to recognize. Arkoses, greywackes, siltstones and grits are all abundant in this area. The siltstones are sometimes so fine you hardly identify individual grains in hand specimen. Some siltstones pass into mica schists which are highly sheared, composed of sericite or chlorite and are light coloured, pale red when weathered.

*Banded ironstones*

Banded ironstone is a quartzite rock rich in iron. The iron occurs as bands alternating between rich and poor zones of iron oxides. These rocks usually form ridges on top of hills as they are resistant to weathering. Oxidation and hydration gives it a reddish brown colour. Some of the banded ironstones are folded, brecciated and faulted.

*Interbedded acid lavas*

These are pophyritic igneous rocks that are usually found interbedded among the various sediments and might be regarded as sills or lavas. The lavas are pophyritic, with quartz or feldspar phenocrysts set in a microcrystalline groundmass. The angular fragments porphyries are flow brecciated and this is quite evident in weathered surfaces or river beds where the rock has been polished.

*Quartz porphyry*

The felsites and porphyries occur as sill like bodies in the lower greenstone and sedimentary series. These rocks are light to dark grey and are sometimes greenish grey. In some instances, the rock is so fine grained you barely see any crystals in hand specimen. The rock is generally massive and well jointed. In some places, it is sheared and develops a weak schistose cleavage. In isolated places, the rock has been strongly sheared it forms a light coloured schist or is strongly banded.

*Serpentinite*

This is a metamorphic rock resulting from the alteration of ultra basic rocks, and consists of microscopic laths of antigorite and chrysotile. In some places, it is green or black but may have a variety of colours. In general, they are elongated bodies with their long axis parallel to the general strike of the country rock. This unit is dominant in the eastern margins of the project area.

*Granites*

There are three types of granites in the whole area. The Shangwe, the adella and the biri granites make up the three types in the whole area. The Shangwe granite makes up the core of the anticline as the oldest rocks. This granite is gneissic, grey to dark grey and is composed of feldspar, quartz and other various minor dark minerals.

The biri granite is medium grained, consisting of cloudy feldspar, quartz and biotite. It is mostly devoid of the gneissic structure that is apparent in the Shangwe granite. This granite contains numerous inclusions of older rocks such as banded ironstones, serpentinite and amphiboles and it extends into Zvimba and Chinhoyi area.

The Adella granite occurs in two separate masses near the centre of the regional map. It is younger than the Shangwe granite but probably older than the Biri granite. It is very different from the other two granites and may have been as a result of metamorphism of the sediments in this area. In the field, it frequently resembles a metamorphosed grit.

The granites occupy the central southern and southeastern tip of the ranch.

*The Deweras series*

These are divided into two groups: the upper and lower groups. The lower group is made up of amygdaloidal greenstones which are massive, very fine grained rocks varying in colour from pale greenish grey to black, devoid of any visible crystals. Generally, the lavas lie unconformably on very steeply dipping sedimentary schists. The upper group consists of conglomerates and arkoses.

*The Lomagundi system*

These rock types lie unconformably on the Deweras and older rocks. The Lomagundi system has been subdivided into two – the argillaceous series and the arenaceous series. The arenaceous series is composed of chiefly of quartzites, and some dolomites, grits arkoses and conglomerates. The quartzites are resistant to weathering and form ridges, whilst the other rocks form in valleys.

The argillaceous series is composed chiefly of slates. It forms the hangingwall rock of the arenaceous rocks. The argillaceous series forms flat rolling country with low hillocks or humps elongated parallel to strike. In some areas, quartzites are abundant in the upper slates of the argillaceous series but they differ considerably from the quartzites of the arenaceous series. These rock units are chiefly located to the west of the project area.

**3.2 Local geology**

There are several rock types that occur within the mapped area. These are felsites, basalts, quartz bodies, granites, serpentinites, felsic schists, Banded Iron Formations and siltstones. There is a small band of conglomerate near the mid northern boundary.

*Basalt*

The basalt is the major rock unit in the mapped area. It occurs from the north to the south of the area. It is however dissected by other minor rock units that occur in the area. It strikes north-northwest, and dips northeast at an average of 60 degrees. It is fine grained, dark green to grey and sometimes black in colour in some areas. On weathering, it forms angular to subangular boulders. Sometimes these boulders form ridges that are usually parallel to regional strike as illustrated in the figure below.

The unit is often truncated by intense shear zones which sometimes host mineralized quartz veins and stringers.Thus the basalt hosts most of the gold carrying reefs in the area, which occur as quartz bands.

*Fig 5: Weathered basalt showing angular to subangular boulders*

*Felsite*

The felsite occurs abundantly in the south eastern corner of the block. It also outcrops in the northwestern corner of the map, and it is along the same strike as the one in the south east.It strikes North West, and dips at an average of 63 degrees. The rock occurs as a hill in the south east and a ridge in the northwest, and it weathers as flaky blocks. There are other isolated small outcrops east of these major ones but they do not make any physical features.

It is medium grained, light grey in colour and it has quartz and feldspar as major mineral constituents that are visible in hand specimen. It is usually sheared near the footwall contact with basalt. This rock type is host to gold reefs. However, the reefs usually occur near the contact with basalt.


*Fig 6: Felsite from K shaft*

Banded ironstones

These are also known as banded iron formations (BIFs). It occurs as narrow bands of alternating jaspillite and hematite. However, the jaspillite is sometimes cherty. The jaspillite/cherty bands are mostly thicker than the hematite bands. The BIF is found to the north of the block and it occurs as elongate, linear bodies. It is highly resistant to weathering and it occurs as ridges and sometimes caps the top of most hills on the east margins of the block.

Serpentinite

These ultramafics define the hills in the eastern boundary of the blocks and they are bound by the Mupfure River to the east. The rock unit is grey to dark grey, medium to coarse grained rock. It has a lot of cavities, generally oxidized and is hard. It has a peculiar oolitic structure in isolated places.

*Fig 7: Serpentine with cavities present*

Granite

The Shangwe granite occurs to the southeast and south western corners of the mapped area. The southeastern granite is capped by a basalt and is in contact with the felsite to the west. The south western granite has a lit-par-lit contact with the basalt

Felsic schist

This appears to be of basaltic protolith. The rocks underwent strong shearing and hydrothermal alteration and transformed into felsic schist. The rock is white to cream in colour and sometimes has a slaty cleavage. Some gold reefs are hosted in this unit. The felsic schist occurs at the contact between a felsite and basalt, or where there has been intense shearing of the basalt leading to the development of strong cleavage which is a characteristic of this rock.

Sediments

The sediments that occur in this area are mostly siltstones and an isolated occurrence of conglomerate. The siltstone is fine-medium grained, grey to dark grey in colour. The unit generally has a cherty appearance and exhibit a conchoidal fracturing.

*Fig 9: Conglomerate with angular fragments of quartz, felsite*

## 4.0 PREVIOUS WORK DONE

The field work was carried out from October 2011 to November 2013. This work was carried out one year apart. First to be done was ground magnetic surveys in 2011, followed by Induced Polarization surveys in 2012 and then soil geochemistry and lithological mapping in 2013.

### 4.1 Ground magnetics

The magnetic survey was conducted using a roving GSM 19W overhausser magnetometer and a GSM19T proton procession magnetometer as the base for monitoring change of earth`s field. The magnetics picked three shears, the main shear striking NW SE and a sub parallel sher to the north as well as a north south shear fracture tht is discordant in strike. The main shear may be related to the Pitana shear, which has a mine opened up to the south of the Murland blocks.

### 4.2 Induced polarisation survey

An IRIS system was used for the survey. Gradient array survey along a line sampling frequency was set at 25m spacing using a 50m potential electrode dipole spacing to achieve good spatial resolution and depth.The target is characterized by a fairly resistive ground up to 3900Ohm m. The more resistive ground is on the north east of the survey area with a NE SW to N S trend. Two other resistive zones have been identified and generally trend NW SE

### 4.3 Grid Soil geochemical sampling

The main objective of this exercise was to collect soil samples. A grid of 200m by 100m was used to take samples. A 400m by 100m grid was sometimes used in areas where the geology is less likely to give an indication. The sample positions were sited using a hand held GPS. Coordinates were recorded in UTM, Arc1950, Zone 35S, Clarke 1880. Bulk soil samples were collected from the field. These were then dried, sieved to 500 microns, packed in 1kg sample bags and taken to the lab. A total of 436 field samples were collected and analysed by aqua regia digestion (low gold detection level, ppb) Detection limit being 3ppb. A total of 62 QAQC samples are added to the sample batches and analysed together with the field samples. Samples were then subjected to Atomic Adsorption Spectrophotometric (AAS) finish on 50g aliquots.

**5.0 RESULTS**

The table below shows the statistics of samples collected in the field, QAQC samples added and samples delivered to lab and assays received:

| Sample Type | Field Samples | QAQC Samples | Total Samples | Results Received | Comment |
|---|---|---|---|---|---|
| Soil Geochem | 436 | 62 | 498 | 495 | Lost at Lab are 3 QAQC samples |
| Rock Chip | 35 | 7 | 42 | 42 | All results received |
| **Total** | **471** | **69** | **540** | **537** | |

**5.1 QAQC**

The following quality control/Quality assurance system was used to have confidence in and to authenticate the exploration results:

1. All work was done under the direct supervision of a Geologist who has adequate experience in gold exploration;
2. Samples were analysed at an accredited Laboratory-Antech Lab;
3. Internationally Certified Reference materials (CRMs), i.e. certified standards, from Geostats, Australia were used to check on accuracy of results at the rate of ≥5% of routine samples. Although these could be easily identified by their sample size (50g). Their expected grades and grade ranges were not revealed to the Lab. Various CRMs were used as detailed below:

| CRM ID | Source | Used for (sample type) | Expected Au | Standard Deviation | Qty used |
|---|---|---|---|---|---|
| G999-4 | Geostats-Australia | Rock Chip | 3.02g/t | 0.17 | 1 |
| G910-10 | Geostats-Australia | Rock Chip | 0.97g/t | 0.04 | 1 |
| G912-8 | Geostats-Australia | Rock Chip | 0.53g/t | 0.02 | 1 |

| | | | | | |
|---|---|---|---|---|---|
| **Total** | | | | | **3** |
| GLG904_4 | Geostats-Australia | Soil Geochem | 204.8 ppb | 19.73 | 6 |
| GLG305_1 | Geostats-Australia | Soil Geochem | 101.57ppb | 11.70 | 1 |
| GLG307_4 | Geostats-Australia | Soil Geochem | 51.8ppb | 3.88 | 6 |
| GLG902_2 | Geostats-Australia | Soil Geochem | 10.66ppb | 3.05 | 2 |
| GLG904_1 | Geostats-Australia | Soil Geochem | 3.82ppb | 2.25 | 4 |
| **Total** | | | | | **19** |

*NB: ppb stands for concentration in parts per billion.*

4. Duplicate samples were included with the samples to check on precision and bias at a rate of ≥5% of the routine samples and their identity was concealed from the Lab.
5. Barren samples (Blanks) were included with the samples at the rate of ≥5% of the routine samples and their identity was concealed from the Lab.

The controls help authenticate the lab results. An analysis of the results is done using the controls and this whole process is called QAQC.

**Duplicates**

The samples that were sent to the lab had duplicates that were ≥5%. The results from the lab show that there is a 99.5% correlation between the parent samples and the duplicates. This correlation gives credence to the results.

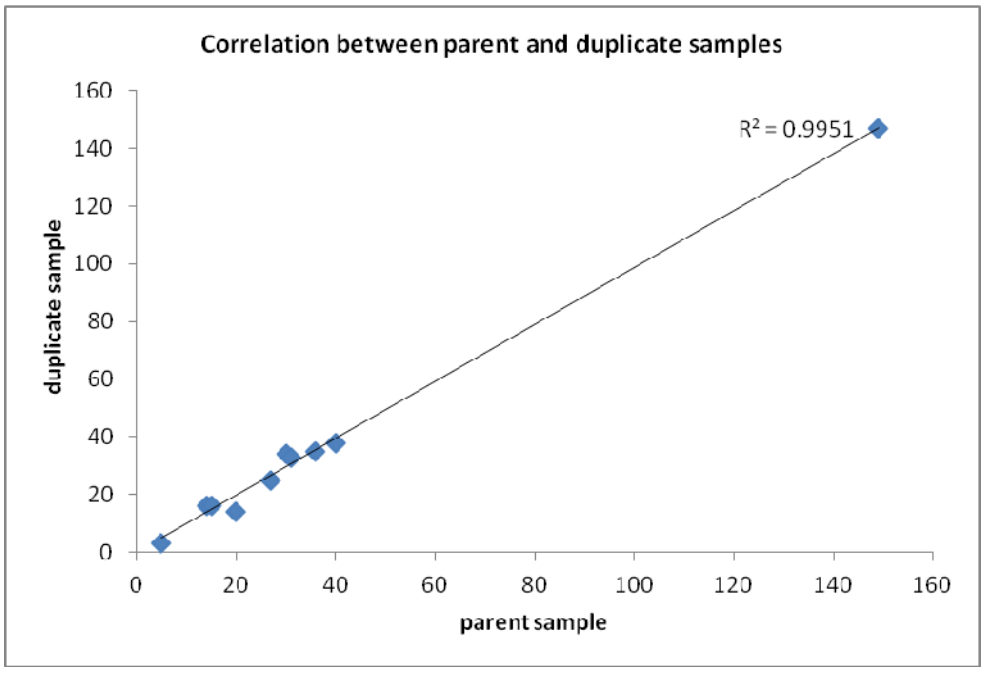
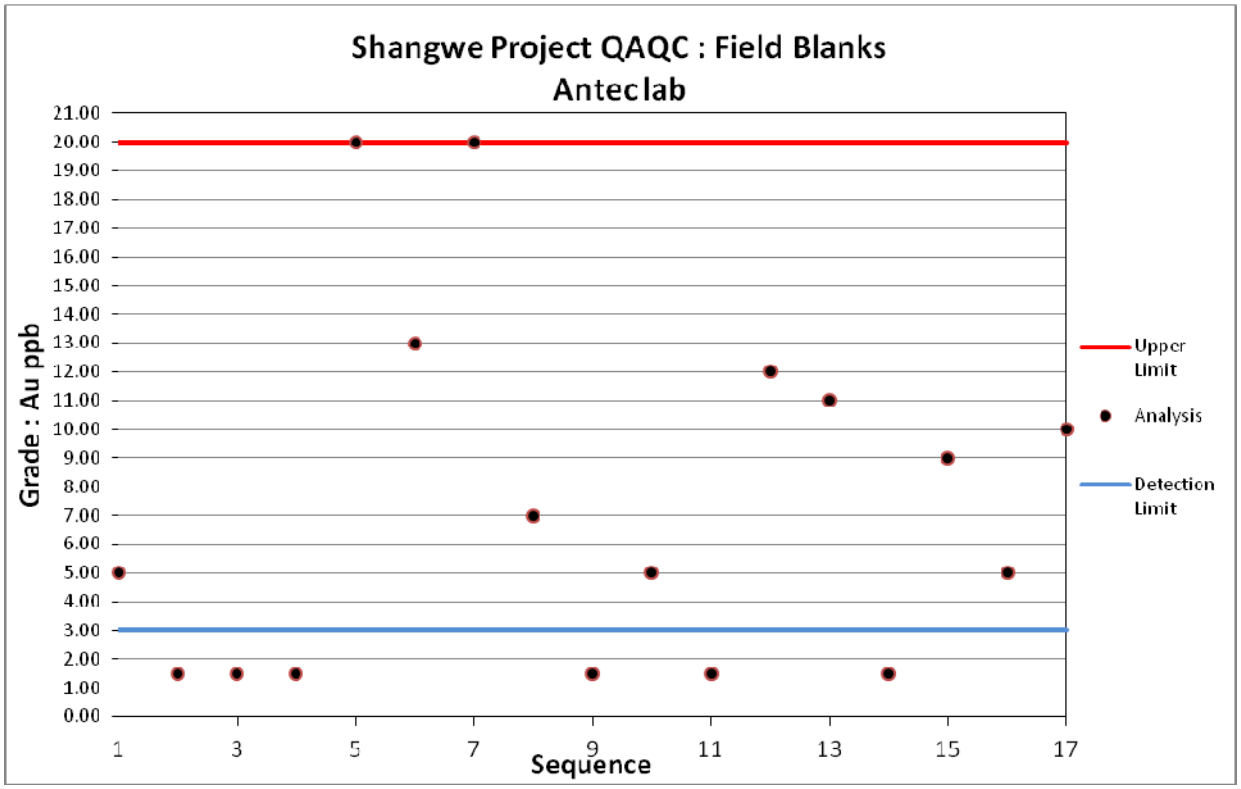



*Fig 10: Correlation between parent and duplicate sample*

**Blank samples**

A total of 20 Blank samples were included with the soil samples, which was 5% of the routine field samples collected and analysed. The Blank samples performed per expectation and grade ranged from <3ppb to 20ppb. The blank sample was sourced from barren granitic soils pre-analysed and gave grades of a maximum 20ppb. The results from blank samples are thus considered satisfactory. The table below shows the graph on Blank analyses:




Results that were <3ppb were taken as half of the detection limit which gives 1.5ppb. This helps separate those at detection limit (3ppb) and those below the detection limit. Individual assays are in captured in the appendices.

One sample was reportedly not located at Lab. This however has no bearing on the acceptability of results. The highest value of 20ppb is below the natural background values found at Shangwe.

Three blank composite samples were pre-assayed before use and gave the following values:

Ranganai: <0.06g/t (used for Rock Chip QAQC).

Gweru 1: 24ppb (used for Soil Geochem samples)

Seke1: 16ppb (used for Soil Geochem samples)

**5.2 Soil Geochemical Anomalies**

The area has several anomalies that are within the proposed concession area as well as outside the concession. The anomalies are ranging from 50ppb to over 3000ppb. Most anomalies are striking northwest - southeast. However some are striking east - west, whilst others are striking north – south.

High grades are concentrated to the mid western and northern parts of the block, with the mid highs in the middle of the block and a few isolated to the east.

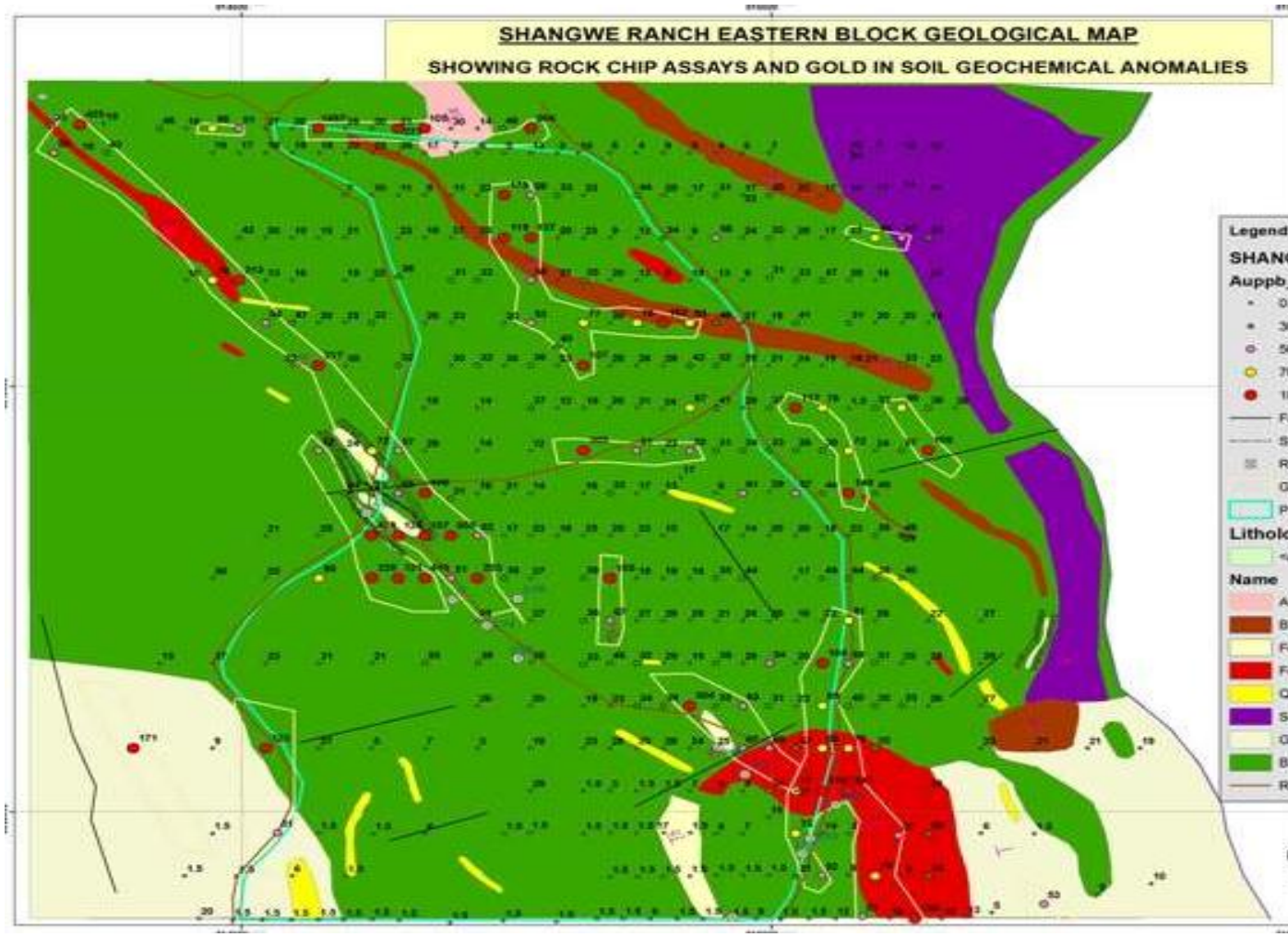



*Fig 11: Geological Map of the Shangwe Ranch Eastern Block showing soil Geochem & rock chip results as well as the outlined anomalies for follow up*

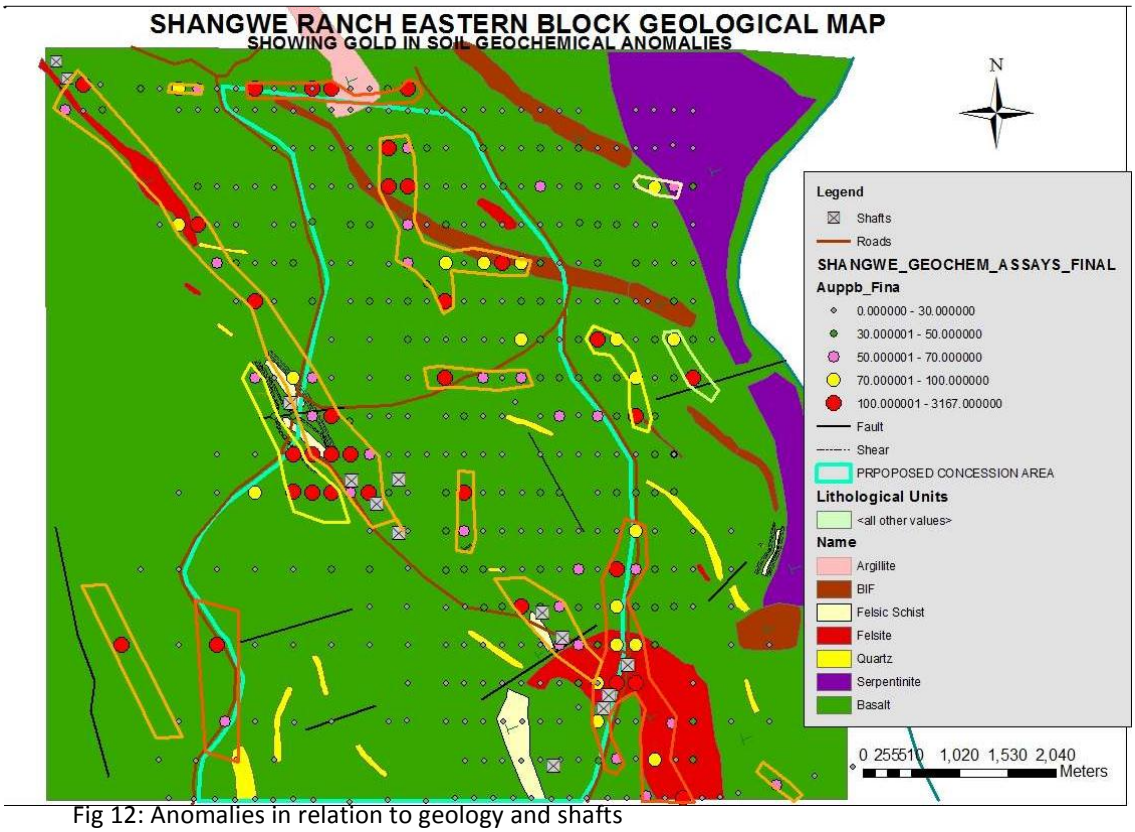


Fig 12: Anomalies in relation to geology and shafts

As clearly shown above, a significant number of these anomalies fall outside the proposed concession area.

## 6.0 DISCUSSION

### 6.1 Geophysics

The target is characterised by a fairly resistive ground up to 3900Ohm m. The more resistive ground (R1) is on the NE of the survey area with a NE SW to N S trend. Intermediate to high resistivities are mapped around R1 giving rise to R2 which is a broad resistive zone associated with the Lulu Shaft. Lulu shaft is possibly lying on a NW SE right stepping fault, which further truncates R1.

Two other resistive zones R3 and R4 have been identified and generally trend NW SE. Fairy Queen shaft lies on an intermediate resistivity feature to the south of the survey grid. The chargeability data shows high chargeabilities associated with the Lulu mineralisation (over R2) and extend to the north and is coincident with R1. The coincident R1 and chargeability is a very prospective zone as high resistivities and high chargeabilities are usually associated with disseminated sulphides.

### 6.2 Soil Geochemistry

The soil geochemistry results show that there are several anomalies within the concession. There is an anomaly in the mid western part of the block. This anomaly is striking northwest – south east. There is a shear zone to the north of this anomaly and it could be controlling mineralization in this zone. There are two main anomalies to the north of the concession. These anomalies strike east – west and north-south respectively. The brittle banded iron formation could be controlling mineralization in this part of the block. However, all the high grade anomalies fall within the basaltic unit.

From the mapping, most of the reefs that are being exploited in this area are basalt hosted. There are isolated cases where the reef occurs within the felsic schist and felsites or at the contact with the basalt. The anomalies have the same strike as the basalt hosted reefs and are quite similar to the Pitana mine in the south. Clearly some promising anomalies fall outside the proposed concession/claims area and this needs to be actively considered.

## 7.0 CONCLUSION AND RECOMMENDATIONS

The area has great potential for reef mineralisation and much lower for oxides. Reefs will mostly be mineable by underground method owing to their narrow width albeit at good grades. Most of the anomalies coincide with and show significant extensions to known reefs that are being mined in the concession. It is recommended that:

1. A trenching exercise be carried out to determine the extent of mineralization of the known mineralisation as well as to investigate new soil geochem anomalies.

2. The known reefs must also be trenched to further firm on their strike extend

3. Diamond drilling to be able to determine resource.

4. Results from the underground reef sampling are considered to be only preliminary/reconnaissance in nature and more sampling is imperative. They indicate presence of economic mineralisation. Most shafts were not safely accessible at the time and these would need to be re-entered and sampled more exhaustively.

5. The proposed concession area should be revised to incorporate the geochem anomalies to the east and west of the proposed boundary.

**Proposed Exploration programme (6 months duration):**

Currently, trenching is ongoing as a follow up to soil geochem anomalies. Diamond drilling needs to be done on the identified reefs as well as on the geophysics targets.

| No. | Area | Unit | Qty | Duration (months) | USD | Comment |
|---|---|---|---|---|---|---|
| 1 | Shaft sinking and head gear | each | 1 | 3 | $ 20,000 | |
| 2 | Geophysics (IP & RSIP) | each | 2 | 0.5 | $ 20,000 | Includes hiring Geophysist |
| 3 | Diamond Drilling | m | 5000 | 3 | $ 850,000 | Diamond drilling (Hired Drill), surveying, assaying & QAQC |
| 4 | Labour/Consultancy | each | 1 | 6 | $ 102,000 | |
| 5 | Project Management | each | 6 | 6 | $ 40,000 | Fuel, PPE, Camp costs, food, Accommodation, tools and equipment etc |
| 6 | Vehicles | each | 2 | | $ 93000 | |
| 7 | Resource Estimation-Independent | each | 1 | 1.5 | $ 25,000 | e.g. SRK Independent resource Estimation |
| | **Total** | | | **6** | **$ 1,150,000** | |

## 8.0 REFERENCES


1. Geological Bulletin No. 34: The geology of the Lower Umfuli Gold belt, Hartley and Lomagundi districts

2. en.m.wikipedia.org/ igneous rocks

3. www.britannica.com

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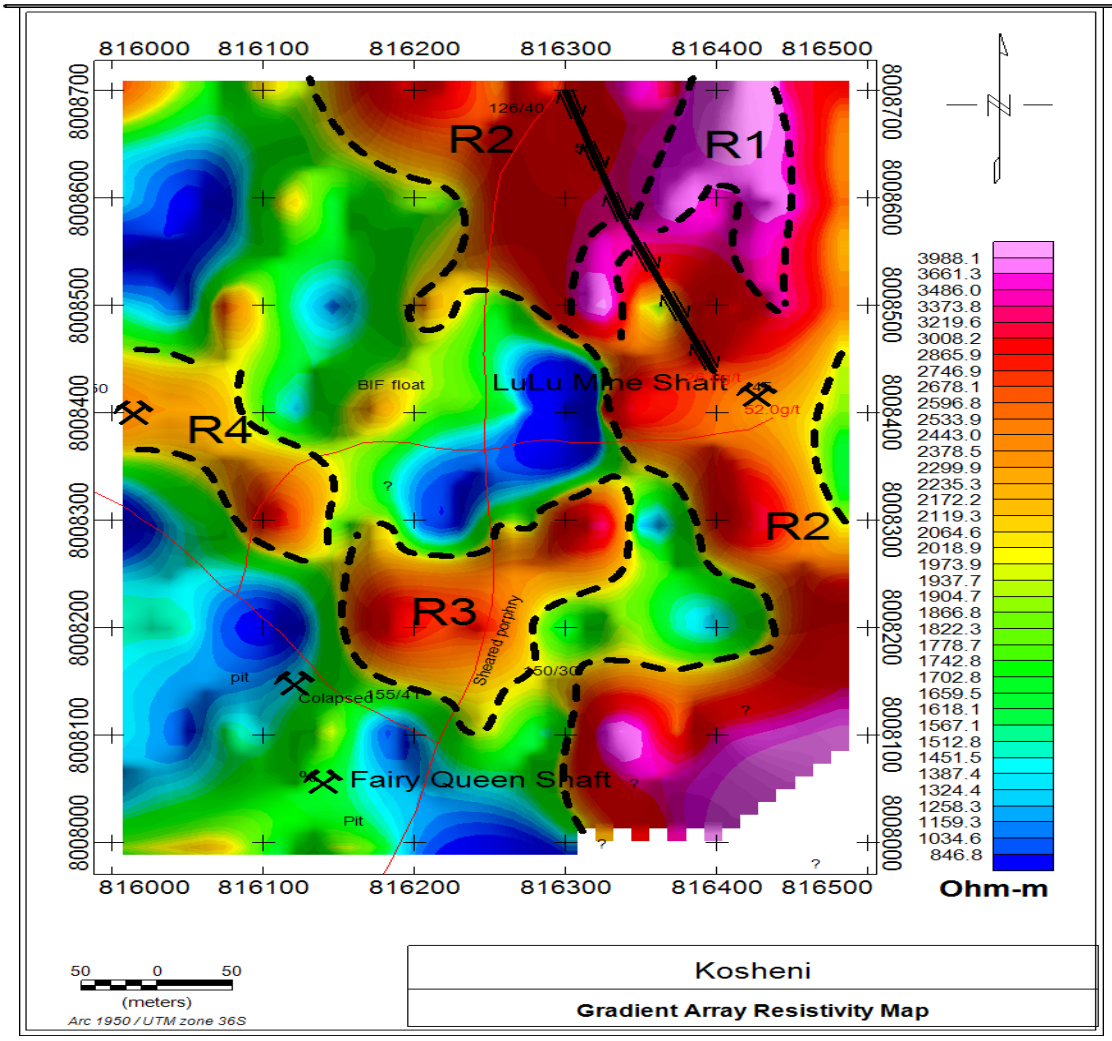
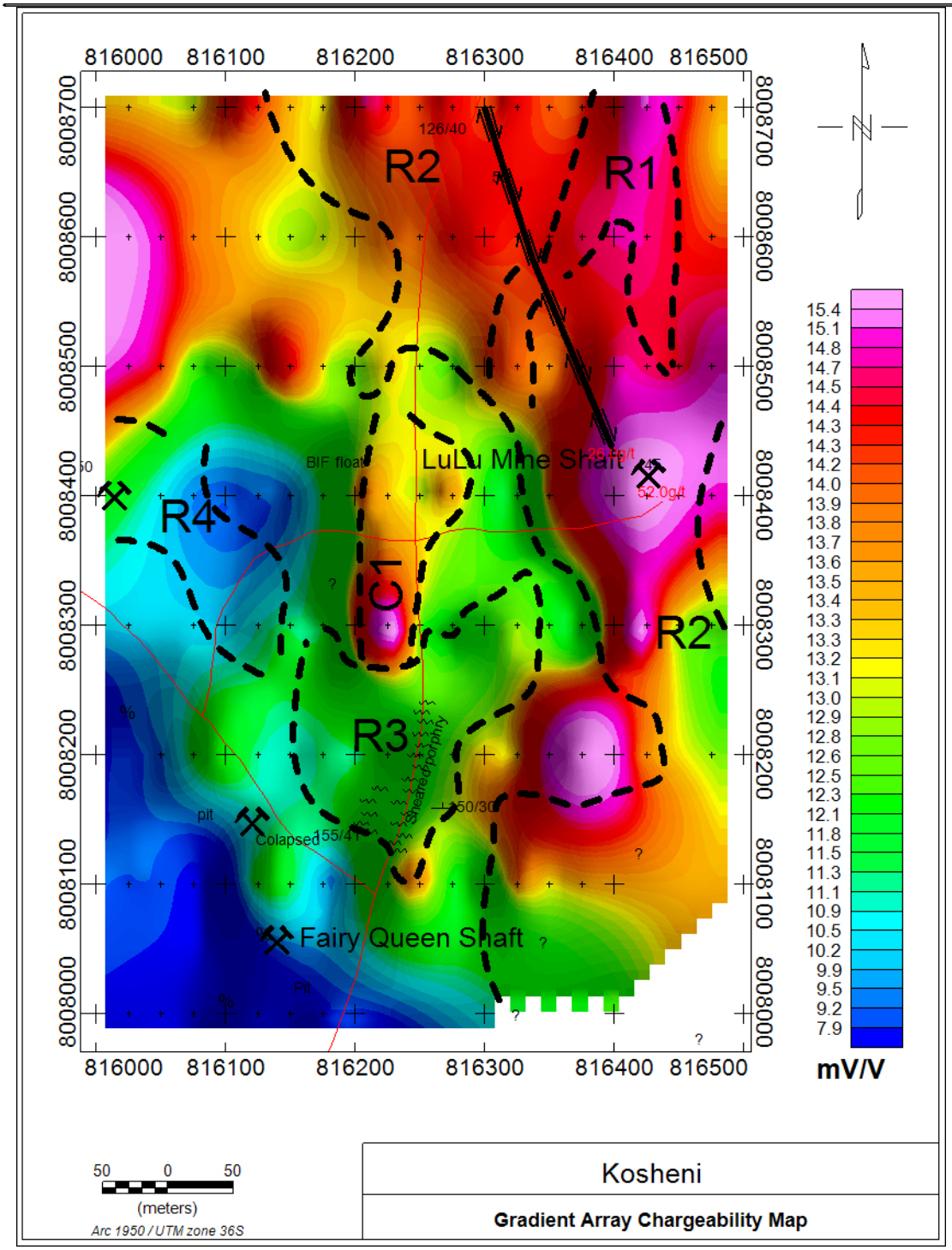
## 9.0 APPENDICES

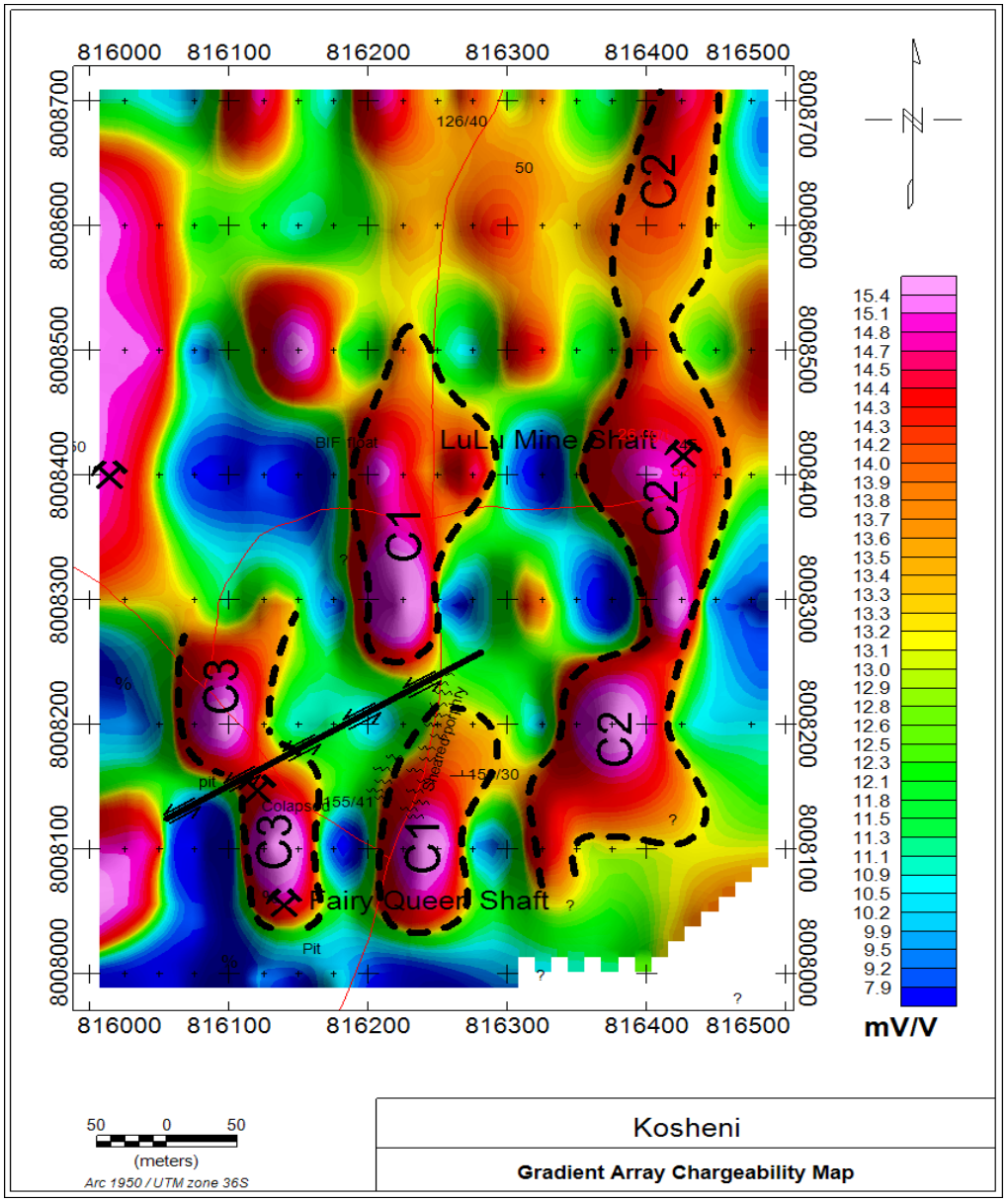
**Geophysics results**



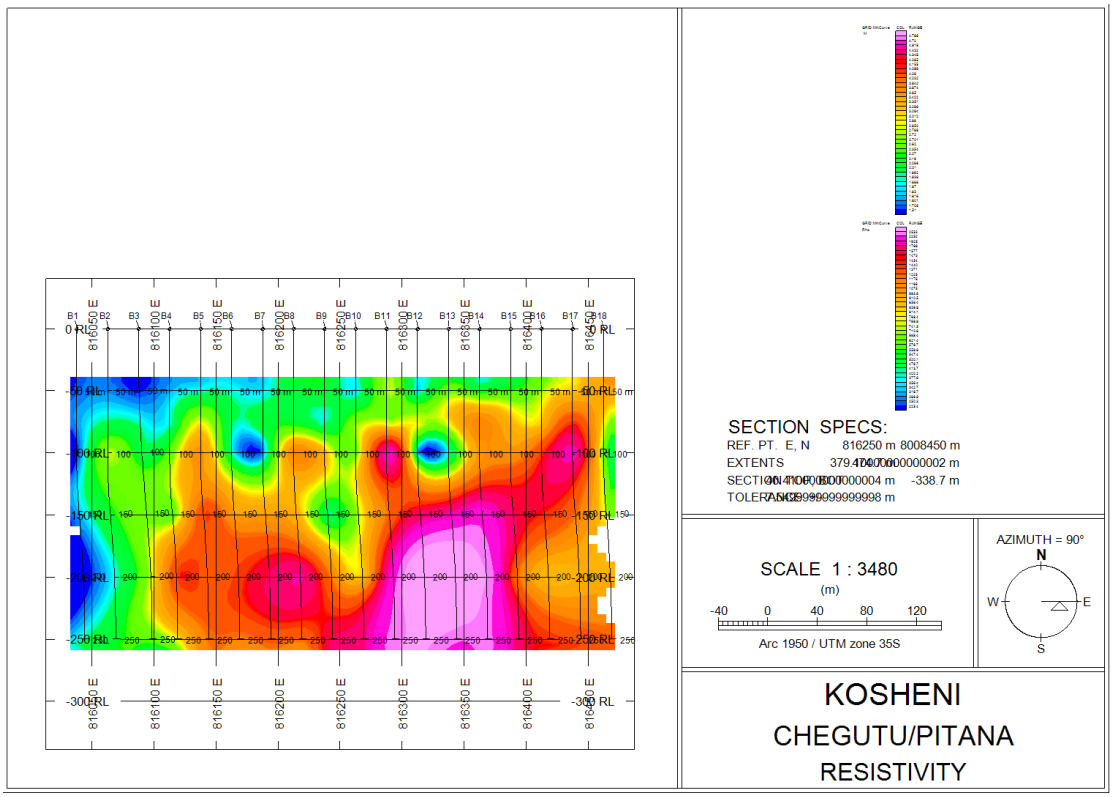

Gradient Array Resistivity Map



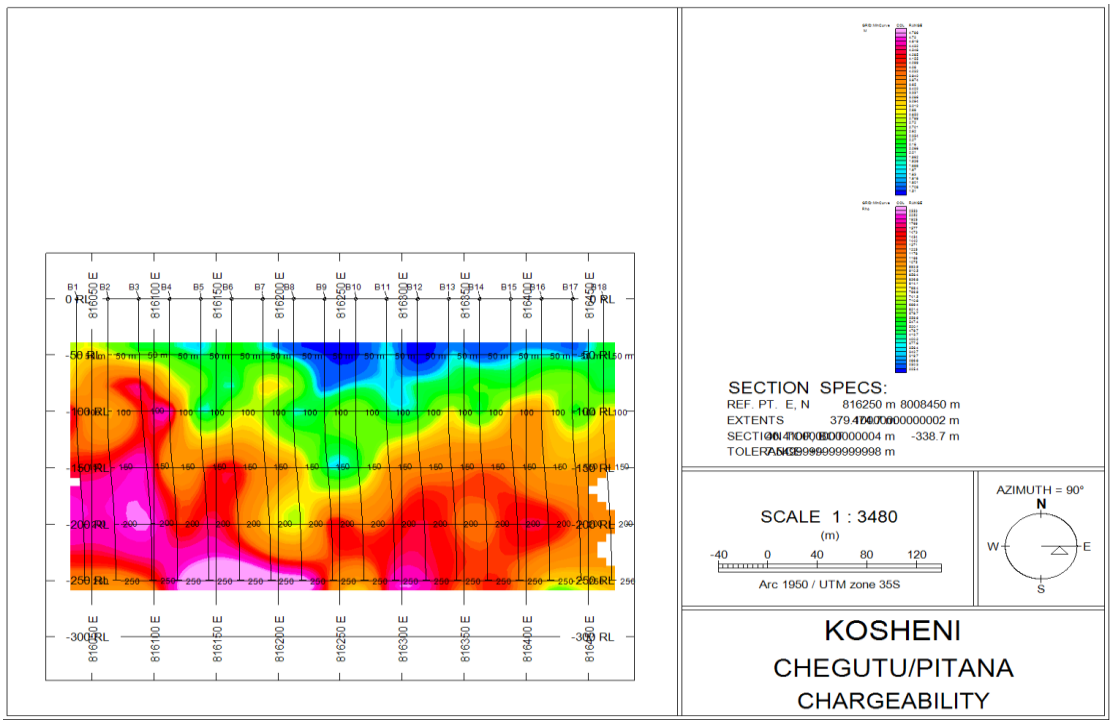

Gradient Array Chargeability Map



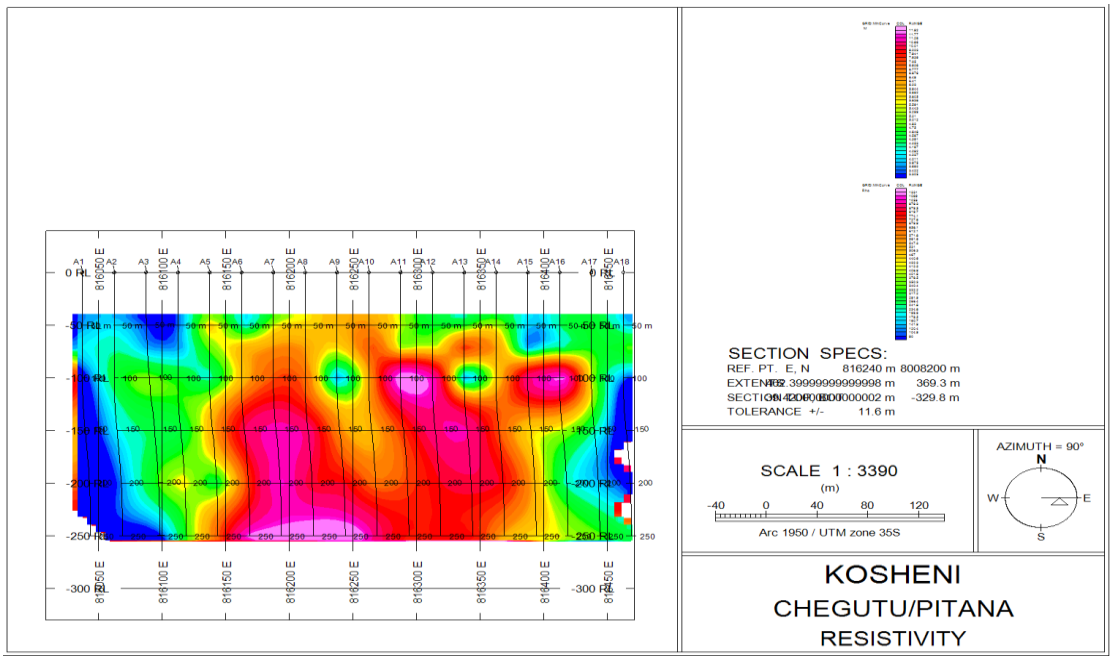

Gradient Array Chargeability Map – AGC Filter



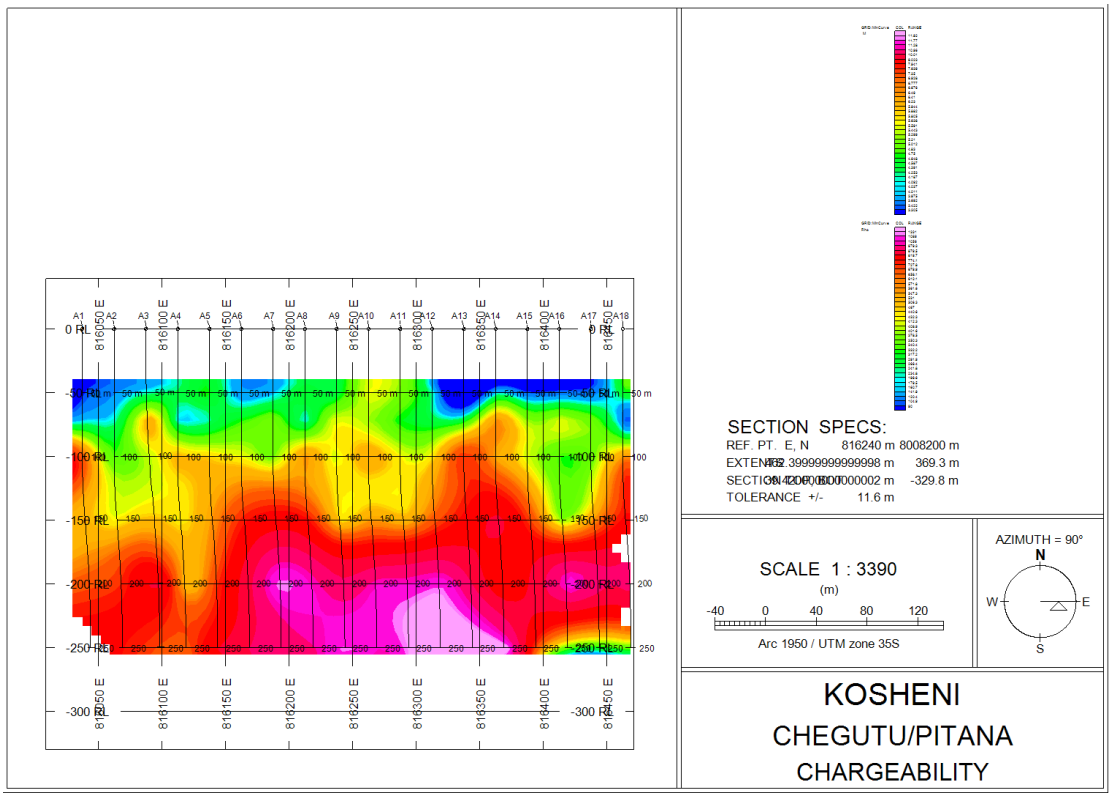

Lulu Shaft Section – Resistivity




Lulu Shaft Section – Chargeability




Section 8008200 – Resistivity




Section 8008200 – Chargeability

**Soil Geochemistry CRM analyses:**

The table below shows the CRMs assay results and indicate satisfactory accuracy on results. There is however one outlier (Sample KGM7L8A) and may be due to a sample mix-up. This is not of any material effect on the overall integrity of the results.

| Sample ID | Auppb | CRM_ID | Expect Auppb | Actual Auppb | Std_Deviation |
|---|---|---|---|---|---|
| KGM1 L18A | 214 | GLG904_4 | 204.8 | 214 | 19.73 |
| KGM2 L13 | 52 | GLG307_4 | 51.8 | 52 | 3.88 |
| KGM3 L20 | 57 | GLG307_4 | 51.8 | 57 | 3.88 |
| KGM6 L2B | 58 | GLG307_4 | 51.8 | 58 | 3.88 |
| KGM7 L8A | 19 | GLG902_2 | 10.66 | **19** | 3.05 |
| KGM8 L10A | 212 | GLG904_4 | 204.8 | 212 | 19.73 |
| KGM9 L15A | 105 | GLG305_1 | 101.57 | 105 | 11.7 |
| KGM10 L4B | 208 | GLG904_4 | 204.8 | 208 | 19.73 |
| KGM10 L20B | <3 | GLG904_1 | 3.82 | <3 | 2.25 |
| KGM11 L19B | 212 | GLG904_4 | 204.8 | 212 | 19.73 |
| KGM12 L23 | 63 | GLG307_4 | 51.8 | 63 | 3.88 |

| | | | | | |
|---|---|---|---|---|---|
| KGM14 L24 | <3 | GLG904_1 | 3.82 | <3 | 2.25 |
| KGM14 L7A | 211 | GLG904_4 | 204.8 | 211 | 19.73 |
| KGM16 L8B | 6 | GLG902_2 | 10.66 | 6 | 3.05 |
| KGM17 L4A | <3 | GLG904_1 | 3.82 | <3 | 2.25 |
| KGM18 L25 | 192 | GLG904_4 | 204.8 | 192 | 19.73 |
| KGM19 L32 | 60 | GLG307_4 | 51.8 | 60 | 3.88 |
| KGM19 L24A | 4 | GLG904_1 | 3.82 | 4 | 2.25 |
| KGM20 L22 | 62 | GLG307_4 | 51.8 | 62 | 3.88 |

**Duplicate Analyses:**

The table below shows the individual duplicate sample assays:

| Original Sample ID | Duplicate Sample Id | Duplicate Auppb | Original Auppb |
|---|---|---|---|
| KGM1L18 | KGM11L32 | Lost at Lab | 51 |
| KGM2L12 | KGML18A | 33 | 31 |
| KGM3L18 | KGM4 L18A | 33 | 30 |
| KGM5L4 | KGM10L4A | 3 | 5 |
| KGM6L2 | KGM9 L2A | 20 | 20 |
| KGM7L8 | KGM13 L32 | 24 | 26 |
| KGM8L8 | KGM2 L8C | 22 | 21 |
| KGM9L15 | KGM9 L25 | 38 | 18 |
| GM10L20 | KGM10 L20A | 14 | 20 |
| GM11L19 | KGM11 L19A | 147 | 149 |
| KGM13L2 | KGM10 L2A | 16 | 14 |
| KGM14L6 | KGM14 L15A | 35 | 36 |
| KGM15L7 | KGM14 L7B | 38 | 40 |
| KGM16L7 | KGM16 L8A | 25 | 27 |
| KGM17L4 | KGM17 L11A | 16 | 15 |
| KGM18L1 | KGM18 L24 | 7 | 7 |
| KGM19L1 | KGM19 L1A | 24 | 19 |
| KGM19L24 | KGM1 L34 | 9 | 10 |
| KGM20L17 | KGM20 L20 | 18 | 19 |
| KGM20L15 | KGM20 L19C | 46 | 46 |

**Blank sample Analyses:**

| No. | Blank Sample ID | Au (ppb) | Value used (ppb) |
|---|---|---|---|
| 1 | KGM4 L5B | Lost at Lab | |
| 2 | KGM1 L23 | 5 | 5 |
| 3 | KGM2 L16A | <3 | 1.5 |
| 4 | KGM4 L18B | <3 | 1.5 |
| 5 | KGM3 L23A | <3 | 1.5 |
| 6 | KGM5 L8A | 20 | 20 |

| | | | |
|---|---|---|---|
| 7 | KGM6 L6B | 13 | 13 |
| 8 | KGM7 L12A | 20 | 20 |
| 9 | KGM9 L20B | 7 | 7 |
| 10 | KGM10 L4A | <3 | 1.5 |
| 11 | KGM10 L25 | 5 | 5 |
| 12 | KGM12 L23 | <3 | 1.5 |
| 13 | KGM13 L6A | 12 | 12 |
| 14 | KGM14 L10A | 11 | 11 |
| 15 | KGM15 L11A | <3 | 1.5 |
| 16 | KGM16 L11A | 9 | 9 |
| 17 | KGM17 L8A | 5 | 5 |
| 18 | KGM18 L26 | 10 | 10 |
| 19 | KGM19 L31 | 6 | 6 |
| 20 | KGM19 L28A | 10 | 10 |
| Total/Ave | | | **3.63** |

NB <3ppb taken as 1.5ppb, ie half of detection limit

**Soil Geochemistry results**

| Sample ID | E_UTM | N_UTM | Elevation (m) | Auppb_Final | Auppb Original | Depth (m) | Soil Type | Soil colour |
|---|---|---|---|---|---|---|---|---|
| KGM1 L1A | 813844.00 | 8007506.00 | 1096 | 20 | 20 | 0.45 | Loam | Brown |
| KGM1 L1 | 813972.00 | 8007501.00 | 1110 | 2 | <3 | 0.30 | Clay | Grey |
| KGM1 L2 | 814083.00 | 8007500.00 | 1139 | 2 | <3 | 0.40 | Gravel | Red |
| KGM1 L3 | 814192.00 | 8007499.00 | 1132 | 2 | <3 | 0.40 | Gravel | Red |
| KGM1 L4 | 814294.00 | 8007501.00 | 1119 | 2 | <3 | 0.30 | Loam | Grey |
| KGM1 L5 | 814390.00 | 8007499.00 | 1110 | 2 | <3 | 0.50 | Gravel | Red |
| KGM1 L6 | 814496.00 | 8007503.00 | 1124 | 2 | <3 | 0.40 | Loam | Grey |
| KGM1 L7 | 814599.00 | 8007498.00 | 1107 | 2 | <3 | 0.30 | Clay | Grey |
| KGM1 L8 | 815345.00 | 8007507.00 | 1095 | 2 | <3 | 0.40 | Gravel | White |
| KGM1 L9 | 815444.00 | 8007508.00 | 1090 | 2 | <3 | 0.35 | Gravel | White |
| KGMI1L10 | 815546.00 | 8007506.00 | 1081 | 6 | 6 | 0.35 | Gravel | White |
| KGM1 L11 | 815649.00 | 8007507.00 | 1078 | 2 | <3 | 0.40 | Gravel | White |
| KGM1 L12 | 815745.00 | 8007507.00 | 1079 | 2 | <3 | 0.42 | Gravel | White |
| KGMI1L13 | 815851.00 | 8007504.00 | 1079 | 2 | <3 | 0.40 | Gravel | White |
| KGM1 L14 | 815945.00 | 8007507.00 | 1082 | 8 | 8 | 0.35 | Gravel | White |
| KGM1 L15 | 816037.00 | 8007505.00 | 1096 | 2 | <3 | 0.40 | Gravel | White |
| KGM1L16 | 816145.00 | 8007507.00 | 1090 | 2 | <3 | 0.30 | Gravel | White |
| KGM1 L17 | 816245.00 | 8007507.00 | 1094 | 12 | 12 | 0.40 | Loam | Grey |
| KGM1L18 | 816347.00 | 8007517.00 | 1071 | 51 | 51 | 0.40 | Gravel | red |
| KGM1L19 | 816449.00 | 8007508.00 | 1087 | 16 | 16 | 0.50 | Gravel | red |
| KGM1 L20 | 816545.00 | 8007507.00 | 1096 | 150 | 150 | 0.42 | Loam | Grey |
| KGM1L21 | 816645.00 | 8007507.00 | 1088 | 15 | 15 | 0.30 | Loam | Grey |
| KGM1 L22 | 816737.00 | 8007514.00 | 1076 | 13 | 13 | 0.35 | Loam | Grey |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KGM1 L23 | 816835.00 | 8007535.00 | 1045 | 5 | 5 | 0.35 | Gravel | red |
| KGM1 L24 | 817032.00 | 8007576.00 | 1034 | 53 | 53 | 0.34 | Gravel | White |
| KGM1L25 | 817233.00 | 8007621.00 | 1034 | 5 | 5 | 0.35 | Loam | Grey |
| KGM1L26 | 817436.00 | 8007671.00 | 1043 | 10 | 10 | 0.40 | Loam | Grey |
| KGM1 L27 | 815192.00 | 8007492.00 | 1094 | 2 | <3 | 0.40 | Gravel | Brown |
| KGM1L28 | 814992.00 | 8007496.00 | 1098 | 2 | <3 | 0.35 | Gravel | Brown |
| KGM1 L29 | 814791.00 | 8007488.00 | 1099 | 2 | <3 | 0.40 | Loam | Brown |
| KGM2L1 | 813790.00 | 8007707.00 | 1100 | 2 | <3 | 0.38 | Loam | Brown |
| KGM2 L2 | 813985.00 | 8007704.00 | 1103 | 2 | <3 | 0.35 | Loam | Grey |
| KGM2 L3 | 814195.00 | 8007707.00 | 1069 | 6 | 6 | 0.40 | Loam | Grey |
| KGM2 L4 | 814398.00 | 8007706.00 | 1100 | 2 | <3 | 0.36 | Gravel | Grey |
| KGM2 L5 | 815396.00 | 8007702.00 | 1091 | 2 | <3 | 0.35 | Clay | Black |
| KGM2 L6 | 815498.00 | 8007703.00 | 1084 | 2 | <3 | 0.40 | Gravel | red |
| KGM2 L7 | 815594.00 | 8007703.00 | 1079 | 2 | <3 | 0.35 | Gravel | red |
| KGM2 L8 | 815695.00 | 8007705.00 | 1069 | 2 | <3 | 0.40 | Clay | Black |
| KGM2 L9 | 815796.00 | 8007710.00 | 1076 | 2 | <3 | 0.35 | Gravel | White |
| KGM2 L10 | 815897.00 | 8007709.00 | 1083 | 2 | <3 | 0.35 | Gravel | White |
| KGM2 L11 | 815994.00 | 8007710.00 | 1076 | 2 | <3 | 0.40 | Gravel | White |
| KGM2 L12 | 816097.00 | 8007705.00 | 1075 | 31 | 31 | 0.36 | Gravel | red |
| KGM2 L13 | 816194.00 | 8007711.00 | 1077 | 52 | 52 | 0.38 | Loam | Grey |
| KGM2 L14 | 816294.00 | 8007711.00 | 1072 | 9 | 9 | 0.40 | Loam | Grey |
| KGM2 L15 | 816395.00 | 8007708.00 | 1064 | 79 | 79 | 0.40 | Loam | Grey |
| KGM2 L16 | 816503.00 | 8007706.00 | 1045 | 8 | 8 | 0.35 | Gravel | Grey |
| KGM2 L17 | 816595.00 | 8007707.00 | 1080 | 33 | 33 | 0.34 | Loam | Grey |
| KGM3 L1 | 813894.00 | 8007907.00 | 1098 | 2 | <3 | 0.40 | Sand | White |
| KGM3 L2 | 814139.00 | 8007910.00 | 1090 | 51 | 51 | 0.40 | Sand | White |
| KGM3 L3 | 814296.00 | 8007910.00 | 1093 | 2 | <3 | 0.40 | Sand | White |
| KGM3 L4 | 814502.00 | 8007905.00 | 1089 | 2 | <3 | 0.30 | Loam | Grey |
| KGM3 L5 | 814695.00 | 8007906.00 | 1080 | 4 | 4 | 0.35 | Gravel | Pink |
| KGM3 L6 | 814995.00 | 8007907.00 | 1081 | 2 | <3 | 0.35 | Gravel | red |
| KGM3 L7 | 815093.00 | 8007912.00 | 1083 | 2 | <3 | 0.40 | Gravel | red |
| KGM3 L8 | 815296.00 | 8007907.00 | 1082 | 2 | <3 | 0.35 | Gravel | Black |
| KGM3 L9 | 815396.00 | 8007909.00 | 1082 | 2 | <3 | 0.30 | Gravel | Black |
| KGM3 L10 | 815493.00 | 8007910.00 | 1079 | 2 | <3 | 0.40 | Gravel | Black |
| KGM3 L11 | 815598.00 | 8007910.00 | 1072 | 17 | 17 | 0.40 | Gravel | Grey |
| KGM3 L12 | 815697.00 | 8007910.00 | 1066 | 2 | <3 | 0.42 | Sand | White |
| KGM3 L13 | 815796.00 | 8007906.00 | 1063 | 6 | 6 | 0.40 | Loam | Black |
| KGM3 L14 | 815894.00 | 8007906.00 | 1069 | 7 | 7 | 0.40 | Loam | Grey |
| KGM3 L15 | 815993.00 | 8007984.00 | 1063 | 10 | 10 | 0.32 | Gravel | Red |
| KGM3 L16 | 816095.00 | 8007907.00 | 1067 | 73 | 73 | 0.30 | Gravel | Red |
| KGM3 L17 | 816197.00 | 8007909.00 | 1066 | 14 | 14 | 0.35 | Gravel | Grey |
| KGM3 L18 | 816295.00 | 8007907.00 | 1072 | 3 | 3 | 0.40 | Sand | White |
| KGM3 L20 | 816482.00 | 8007897.00 | 1057 | 57 | 57 | 0.40 | Sand | White |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KGM3 L21 | 816595.00 | 8007907.00 | 1071 | 38 | 38 | 0.30 | Sand | White |
| KGM3 L22 | 816795.00 | 8007908.00 | 1038 | 6 | 6 | 0.40 | Sandy-loam | Whitish-grey |
| KGM3 L23 | 816995.00 | 8007906.00 | 1042 | 2 | <3 | 0.35 | Gravel | Brown |
| KGM4L1 | 815095.00 | 8008107.00 | 1088 | 29 | 29 | 0.35 | Gravel | Red |
| KGM4L2 | 815295.00 | 8008107.00 | 1092 | 2 | <3 | 0.40 | Gravel | Grey |
| KGM4L3 | 815395.00 | 8008107.00 | 1093 | 3 | 3 | 0.30 | Loam | Red |
| KGM4L4 | 815495.00 | 8008107.00 | 1092 | 2 | <3 | 0.30 | Gravel | Red |
| KGM4L5 | 815595.00 | 8008107.00 | 1093 | 2 | <3 | 0.35 | Gravel | White |
| KGM4L6 | 815695.00 | 8008107.00 | 1093 | 7 | 7 | 0.30 | Clay | White |
| KGM4L7 | 815795.00 | 8008107.00 | 1092 | 5 | 5 | 0.40 | Clay | Black |
| KGM4L8 | 815895.00 | 8008107.00 | 1093 | 4 | 4 | 0.50 | Clay | Black |
| KGM4L9 | 815995.00 | 8008107.00 | 1093 | 34 | 34 | 0.35 | Loam | Grey |
| KGM4L10 | 816095.00 | 8008107.00 | 1092 | 17 | 17 | 0.40 | Gravel | Red |
| KGM4 L11 | 816195.00 | 8008107.00 | 1087 | 3167 | 3167 | 0.35 | Loam | Red |
| KGM4 L12 | 816295.00 | 8008107.00 | 1085 | 241 | 241 | 0.33 | Loam | Brown |
| KGM4 L13 | 816095.00 | 8008107.00 | 1092 | 71 | 71 | 0.30 | Loam | Brown |
| KGM4 L15 | 816595.00 | 8008107.00 | 1091 | 10 | 10 | 0.34 | Gravel | Red |
| KGM5 L1 | 813895.00 | 8008307.00 | 1091 | 9 | 9 | 0.35 | Loam | Grey |
| KGM5 L2 | 814095.00 | 8008307.00 | 1090 | 123 | 123 | 0.33 | Loam | Brown |
| KGM5 L3 | 814295.00 | 8008307.00 | 1092 | 27 | 27 | 0.34 | Gravel | Brown |
| KGM5 L4 | 814495.00 | 8008307.00 | 1092 | 5 | 5 | 0.38 | Loam | Brown |
| KGM5 L5 | 814695.00 | 8008307.00 | 1095 | 7 | 7 | 0.40 | Gravel | Brown |
| KGM5 L6 | 814895.00 | 8008307.00 | 1094 | 3 | 3 | 0.38 | Gravel | Brown |
| KGM5 L7 | 815095.00 | 8008307.00 | 1095 | 18 | 18 | 0.36 | Gravel | Red |
| KGM5 L8 | 815295.00 | 8008307.00 | 1096 | 23 | 23 | 0.33 | Gravel | Brown |
| KGM5 L9 | 815395.00 | 8008307.00 | 1099 | 28 | 28 | 0.35 | Loam | Brown |
| KGM5 L10 | 815495.00 | 8008307.00 | 1106 | 25 | 25 | 0.37 | Gravel | Red |
| KGM5 L11 | 815595.00 | 8008307.00 | 1121 | 26 | 26 | 0.34 | Loam | Brown |
| KGM5 L12 | 815695.00 | 8008307.00 | 1108 | 24 | 24 | 0.31 | Loam | Brown |
| KGM5 L13 | 815795.00 | 8008307.00 | 1097 | 25 | 25 | 0.34 | gravel | Brown |
| KGM5 L14 | 815895.00 | 8008307.00 | 1096 | 67 | 67 | 0.32 | Clay | Black |
| KGM5 L15 | 815995.00 | 8008307.00 | 1096 | 60 | 60 | 0.33 | Clay | Brown |
| KGM5 L16 | 816095.00 | 8008307.00 | 1097 | 43 | 43 | 0.45 | Loam | Grey |
| KGM5 L17 | 816195.00 | 8008307.00 | 1102 | 85 | 85 | 0.34 | Gravel | Grey |
| KGM5 L18 | 816295.00 | 8008307.00 | 1103 | 79 | 79 | 0.33 | Loam | Brown |
| KGM5 L19 | 816395.00 | 8008307.00 | 1108 | 35 | 35 | 0.36 | Gravel | Brown |
| KGM5 L20 | 816495.00 | 8009307.00 | 1103 | 29 | 29 | 0.35 | Gravel | Brown |
| KGM5 L21 | 813595.00 | 8008307.00 | 1109 | 171 | 171 | 0.39 | Loam | Brown |
| KGM5 L22 | 816795.00 | 8008307.00 | 1100 | 25 | 25 | 0.37 | Gravel | Brown |
| KGM5 L23 | 816995.00 | 8008307.00 | 1103 | 21 | 21 | 0.40 | Gravel | Brown |
| KGM5 L24 | 817195.00 | 8008307.00 | 1121 | 21 | 21 | 0.35 | Gravel | Brown |
| KGM5 L25 | 817395.00 | 8008307.00 | 1120 | 19 | 19 | 0.40 | Gravel | Grey |
| KGM6 L01 | 814895.00 | 8008508.00 | 1071 | 26 | 26 | 0.40 | Gravel | Red |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KGM6 L02 | 815094.00 | 8008507.00 | 1068 | 20 | 20 | 0.40 | Gravel | Red |
| KGM6 L03 | 815295.00 | 8008506.00 | 1076 | 19 | 19 | 0.35 | Gravel | Red |
| KGM6 L04 | 815397.00 | 8008507.00 | 1078 | 23 | 23 | 0.35 | Gravel | Red |
| KGM6 L05 | 815496.00 | 8008506.00 | 1074 | 34 | 34 | 0.35 | Gravel | Red |
| KGM6 L06 | 815595.00 | 8008507.00 | 1071 | 39 | 39 | 0.35 | Gravel | Red |
| KGM6 L07 | 815695.00 | 8008507.00 | 1064 | 304 | 304 | 0.42 | Gravel | Red |
| KGM6 L08 | 815795.00 | 8008507.00 | 1057 | 35 | 35 | 0.40 | Loam | Brown |
| KGM6 L09 | 815896.00 | 8008507.00 | 1053 | 65 | 65 | 0.37 | Loam | Grey |
| KGM6 L10 | 815994.00 | 8008506.00 | 1063 | 31 | 31 | 0.36 | Gravel | Grey |
| KGM6 L11 | 816095.00 | 8008507.00 | 1072 | 22 | 22 | 0.42 | Gravel | Red |
| KGM6 L12 | 816195.00 | 8008507.00 | 1072 | 89 | 89 | 0.40 | Gravel | Red |
| KGM6 L13 | 816295.00 | 8008507.00 | 1073 | 40 | 40 | 0.40 | Gravel | Red |
| KGM6 L14 | 816395.00 | 8008506.00 | 1077 | 35 | 35 | 0.39 | Gravel | Red |
| KGM6 L15 | 816496.00 | 8008508.00 | 1081 | 33 | 33 | 0.38 | Gravel | Red |
| KGM6 L16 | 816595.00 | 8008507.00 | 1071 | 26 | 26 | 0.40 | Gravel | Red |
| KGM6 L17 | 816795.00 | 8008508.00 | 1033 | 27 | 27 | 0.40 | Loam | Brown |
| KGM7 L01 | 813695.00 | 8008706.00 | 1108 | 15 | 15 | 0.40 | Gravel | Brown |
| KGM7 L02 | 813895.00 | 8008707.00 | 1101 | 27 | 27 | 0.34 | Gravel | Red |
| KGM7 L03 | 814095.00 | 8008706.00 | 1093 | 23 | 23 | 0.36 | Gravel | Red |
| KGM7 L04 | 814296.00 | 8008707.00 | 1094 | 21 | 21 | 0.39 | Gravel | Red |
| KGM7 L05 | 814497.00 | 8008707.00 | 1079 | 21 | 21 | 0.40 | Gravel | Red |
| KGM7 L06 | 814695.00 | 8008707.00 | 1075 | 35 | 35 | 0.40 | Gravel | Brown |
| KGM7 L07 | 814896.00 | 8008707.00 | 1069 | 38 | 38 | 0.40 | Gravel | Brown |
| KGM7 L08 | 815097.00 | 8008711.00 | 1060 | 26 | 26 | 0.33 | Gravel | Black |
| KGM7 L09 | 815295.00 | 8008700.00 | 1060 | 33 | 33 | 0.40 | Loam | Black |
| KGM7 L10 | 815394.00 | 8008707.00 | 1064 | 46 | 46 | 0.40 | Gravel | Brown |
| KGM7 L11 | 815495.00 | 8008707.00 | 1062 | 32 | 32 | 0.40 | Gravel | Brown |
| KGM7 L12 | 815596.00 | 8008707.00 | 1067 | 29 | 29 | 0.40 | Gravel | Brown |
| KGM7 L13 | 815696.00 | 8008707.00 | 1069 | 19 | 19 | 0.40 | Gravel | Brown |
| KGM7 L14 | 815795.00 | 8008707.00 | 1057 | 39 | 39 | 0.40 | Gravel | Red |
| KGM7 L15 | 815896.00 | 8008706.00 | 1050 | 28 | 28 | 0.40 | Gravel | Black |
| KGM7 L16 | 815996.00 | 8008707.00 | 1060 | 54 | 54 | 0.30 | Gravel | Brown |
| KGM7 L17 | 816095.00 | 8008706.00 | 1063 | 20 | 20 | 0.38 | Gravel | Brown |
| KGM7 L18 | 816195.00 | 8008707.00 | 1070 | 194 | 194 | 0.40 | Gravel | Red |
| KGM7 L19 | 816294.00 | 8008706.00 | 1061 | 69 | 69 | 0.30 | Gravel | Red |
| KGM7 L20 | 816395.00 | 8008707.00 | 1091 | 31 | 31 | 0.35 | Gravel | Red |
| KGM7 L21 | 816495.00 | 8008707.00 | 1064 | 25 | 25 | 0.35 | Gravel | Brown |
| KGM7 L22 | 816595.00 | 8008707.00 | 1055 | 25 | 25 | 0.40 | Gravel | Brown |
| KGM7 L23 | 816795.00 | 8008707.00 | 1033 | 20 | 20 | 0.40 | Gravel | Brown |
| KGM8 L1 | 814895.00 | 8008907.00 | 1109 | 25 | 25 | 0.32 | Loam | Brown |
| KGM8 L2 | 815095.00 | 8008907.00 | 1094 | 27 | 27 | 0.39 | Loam | Grey |
| KGM8 L3 | 815295.00 | 8008907.00 | 1093 | 38 | 38 | 0.35 | Clay | Brown |
| KGM8 L4 | 815395.00 | 8008907.00 | 1092 | 67 | 67 | 0.36 | Clay | Brown |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KGM8 L5 | 815495.00 | 8008907.00 | 1094 | 27 | 27 | 0.34 | Loam | Brown |
| KGM8 L6 | 815595.00 | 8008907.00 | 1096 | 20 | 20 | 0.33 | Gravel | Grey |
| KGM8 L7 | 815695.00 | 8008907.00 | 1098 | 25 | 25 | 0.36 | Gravel | Brown |
| KGM8 L8 | 815795.00 | 8008907.00 | 1096 | 21 | 21 | 0.32 | Gravel | Brown |
| KGM8 L9 | 815895.00 | 8008907.00 | 1088 | 24 | 24 | 0.33 | Gravel | Brown |
| KGM8 L10 | 815995.00 | 8008907.00 | 1086 | 20 | 20 | 0.34 | Gravel | Brown |
| KGM8 L11 | 816095.00 | 8008907.00 | 1083 | 16 | 16 | 0.35 | Gravel | Brown |
| KGM8 L12 | 816195.00 | 8008907.00 | 1077 | 23 | 23 | 0.33 | Gravel | Grey |
| KGM8 L13 | 816295.00 | 8008907.00 | 1082 | 81 | 81 | 0.36 | Loam | Red |
| KGM8 L14 | 816395.00 | 8008907.00 | 1081 | 26 | 26 | 0.34 | Gravel | Brown |
| KGM8 L15 | 816595.00 | 8008907.00 | 1080 | 22 | 22 | 0.35 | Gravel | Red |
| KGM8 L16 | 816795.00 | 8008907.00 | 1079 | 27 | 27 | 0.30 | Gravel | Brown |
| KGM9L1 | 813895.00 | 8009106.00 | 1094 | 30 | 30 | 0.40 | Loam | Red |
| KGM9L2 | 814095.00 | 8009107.00 | 1096 | 25 | 25 | 0.40 | Gravel | Red |
| KGM9L3 | 814296.00 | 8009106.00 | 1097 | 90 | 90 | 0.39 | Gravel | Brown |
| KGM9L4 | 814496.00 | 8009108.00 | 1090 | 228 | 228 | 0.40 | Gravel | Brown |
| KGM9L5 | 814595.00 | 8009107.00 | 1082 | 121 | 121 | 0.40 | Gravel | Brown |
| KGM9L6 | 814696.00 | 8009107.00 | 1083 | 410 | 410 | 0.40 | Gravel | Grey |
| KGM9 L7 | 814795.00 | 8009107.00 | 1070 | 51 | 51 | 0.40 | Gravel | Red |
| KGM9 L8 | 814894.00 | 8009107.00 | 1077 | 253 | 253 | 0.40 | Gravel | Brown |
| KGM9 L9 | 814995.00 | 8009106.00 | 1076 | 36 | 36 | 0.40 | Gravel | Brown |
| KGM9 L10 | 815095.00 | 8009106.00 | 1063 | 27 | 27 | 0.35 | Loam | Black |
| KGM9 L11 | 815295.00 | 8009107.00 | 1068 | 39 | 39 | 0.40 | Clay-loam | Brown |
| KGM9 L12 | 815395.00 | 8009106.00 | 1070 | 105 | 105 | 0.40 | Gravel | Brown |
| KGM9 L13 | 815495.00 | 8009107.00 | 1078 | 19 | 19 | 0.40 | Gravel | Brown |
| KGM9 L14 | 815595.00 | 8009107.00 | 1071 | 19 | 19 | 0.40 | Gravel | Brown |
| KGM9 L15 | 815696.00 | 8009107.00 | 1074 | 18 | 18 | 0.40 | Gravel | Red |
| KGM9 L16 | 815795.00 | 8009107.00 | 1067 | 35 | 35 | 0.40 | Gravel | Brown |
| KGM9 L17 | 815895.00 | 8009107.00 | 1048 | 44 | 44 | 0.40 | Gravel | Brown |
| KGM9 L19 | 816095.00 | 8009107.00 | 1066 | 17 | 17 | 0.40 | Gravel | Brown |
| KGM9 L20 | 816195.00 | 8009107.00 | 1057 | 49 | 49 | 0.40 | Gravel | Red |
| KGM9 L21 | 816295.00 | 8009107.00 | 1033 | 44 | 44 | 0.40 | Gravel | Red |
| KGM9 L22 | 816395.00 | 8009107.00 | 1029 | 38 | 38 | 0.40 | Loam | Black |
| KGM9 L23 | 816495.00 | 8009108.00 | 1026 | 40 | 40 | 0.40 | Gravel | Black |
| KGM10 L2 | 814095.00 | 8009305.00 | 1091 | 21 | 21 | 0.31 | Gravel | Red |
| KGM10 L3 | 814295.00 | 8009307.00 | 1119 | 25 | 25 | 0.35 | Loam | Red |
| KGM10 L4 | 814495.00 | 8009307.00 | 1113 | 478 | 478 | 0.32 | Gravel | Red |
| KGM10 L5 | 814595.00 | 8009307.00 | 1096 | 128 | 128 | 0.34 | Gravel | Red |
| KGM10 L6 | 814695.00 | 8009307.00 | 1086 | 157 | 157 | 0.33 | Clay | Brown |
| KGM10 L7 | 814795.00 | 8009307.00 | 1087 | 655 | 655 | 0.32 | Gravel | Red |
| KGM10 L8 | 814895.00 | 8009307.00 | 1088 | 62 | 62 | 0.34 | Gravel | Red |
| KGM10 L9 | 814995.00 | 8009307.00 | 1087 | 17 | 17 | 0.35 | Loam | Brown |
| KGM10 L10 | 815095.00 | 8009307.00 | 1087 | 23 | 23 | 0.34 | Gravel | Brown |

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|---|---|---|---|---|---|---|---|---|
| KGM10 L11 | 815195.00 | 8009307.00 | 1087 | 18 | 18 | 0.36 | Gravel | Brown |
| KGM10 L12 | 815295.00 | 8009307.00 | 1084 | 25 | 25 | 0.35 | Gravel | Red |
| KGM10 L13 | 815395.00 | 8009307.00 | 1080 | 25 | 25 | 0.33 | Gravel | Brown |
| KGM10 L14 | 815495.00 | 8009307.00 | 1078 | 22 | 22 | 0.33 | Gravel | Brown |
| KGM10 L15 | 815595.00 | 8009307.00 | 1043 | 15 | 15 | 0.36 | Gravel | Brown |
| KGM10 L17 | 815795.00 | 8009307.00 | 1079 | 17 | 17 | 0.33 | Gravel | Brown |
| KGM10 L18 | 815895.00 | 8009307.00 | 1065 | 14 | 14 | 0.35 | Gravel | Brown |
| KGM10 L19 | 815995.00 | 8009307.00 | 1071 | 20 | 20 | 0.36 | Gravel | Brown |
| KGM10 L20 | 816095.00 | 8009307.00 | 1077 | 20 | 20 | 0.35 | Gravel | Brown |
| KGM10 L21 | 816195.00 | 8009307.00 | 1075 | 18 | 18 | 0.40 | Clay | Black |
| KGM10 L22 | 816295.00 | 8009307.00 | 1074 | 23 | 23 | 0.38 | Gravel | Red |
| KGM10 L23 | 816395.00 | 8009307.00 | 1073 | 39 | 39 | 0.35 | Gravel | Brown |
| KGM10 L24 | 816495.00 | 8009307.00 | 1073 | 49 | 49 | 0.30 | Gravel | Brown |
| KGM11 L1 | 814395.00 | 8009507.00 | 1108 | 44 | 44 | 0.35 | Loam | Red |
| KGM11 L2 | 814495.00 | 8009507.00 | 1114 | 31 | 31 | 0.33 | Loam | Red |
| KGM11 L3 | 814595.00 | 8009507.00 | 1113 | 55 | 55 | 0.36 | Loam | Brown |
| KGM11 L4 | 814695.00 | 8009507.00 | 1116 | 118 | 118 | 0.35 | Loam | Brown |
| KGM11 L5 | 814792.00 | 8009479.00 | 1085 | 31 | 31 | 0.34 | Gravel | Red |
| KGM11 L6 | 814895.00 | 8009507.00 | 1113 | 16 | 16 | 0.33 | Gravel | Brown |
| KGM11 L7 | 814995.00 | 8009507.00 | 1111 | 21 | 21 | 0.34 | Gravel | Red |
| KGM11 L8 | 815095.00 | 8009507.00 | 1107 | 14 | 14 | 0.33 | Gravel | Brown |
| KGM11 L9 | 815295.00 | 8009507.00 | 1108 | 16 | 16 | 0.34 | Gravel | Brown |
| KGM11 L10 | 815395.00 | 8009507.00 | 1108 | 33 | 33 | 0.33 | Gravel | Red |
| KGM11 L11 | 815495.00 | 8009507.00 | 1108 | 17 | 17 | 0.36 | Clay | Brown |
| KGM11 L12 | 815595.00 | 8009507.00 | 1107 | 13 | 13 | 0.37 | Gravel | Brown |
| KGM11 L13 | 815663.00 | 8009581.00 | 1064 | 17 | 17 | 0.32 | Gravel | Brown |
| KGM11 L14 | 815795.00 | 8009507.00 | 1107 | 6 | 6 | 0.34 | Gravel | Brown |
| KGM11 L15 | 815895.00 | 8009507.00 | 1117 | 61 | 61 | 0.36 | Gravel | Brown |
| KGM11 L16 | 815996.00 | 8009514.00 | 1053 | 29 | 29 | 0.35 | Gravel | Brown |
| KGM11 L17 | 816095.00 | 8009507.00 | 1117 | 57 | 57 | 0.40 | Loam | Brown |
| KGM11 L18 | 816195.00 | 8009507.00 | 1110 | 44 | 44 | 0.38 | Gravel | Brown |
| KGM11 L19 | 816295.00 | 8009507.00 | 1093 | 149 | 149 | 0.39 | Gravel | Brown |
| KGM11 L20 | 816395.00 | 8009507.00 | 1086 | 45 | 45 | 0.33 | Gravel | Brown |
| KGM12 L1 | 814695.00 | 8009707.00 | 1080 | 28 | 28 | 0.35 | Gravel | Red |
| KGM12 L2 | 814895.00 | 8009709.00 | 1076 | 14 | 14 | 0.40 | Gravel | Brown |
| KGM12 L3 | 815095.00 | 8009707.00 | 1064 | 12 | 12 | 0.40 | Gravel | Brown |
| KGM12 L4 | 815294.00 | 8009707.00 | 1058 | 105 | 105 | 0.40 | Loam | Brown |
| KGM12 L5 | 815494.00 | 8009707.00 | 1052 | 61 | 61 | 0.40 | Loam | Grey |
| KGM12 L6 | 815595.00 | 8009706.00 | 1053 | 23 | 23 | 0.40 | Clay-loam | Grey |
| KGM12 L7 | 815695.00 | 8009706.00 | 1049 | 55 | 55 | 0.40 | Clay-loam | Grey |
| KGM12 L8 | 815795.00 | 8009707.00 | 1049 | 31 | 31 | 0.40 | Loam | Brown |
| KGM12 L9 | 815895.00 | 8009707.00 | 1052 | 34 | 34 | 0.38 | Gravel | Brown |
| KGM12 L10 | 815995.00 | 8009708.00 | 1057 | 33 | 33 | 0.38 | Gravel | Brown |

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|---|---|---|---|---|---|---|---|---|
| KGM12 L11 | 816095.00 | 8009707.00 | 1055 | 38 | 38 | 0.40 | Gravel | Brown |
| KGM12 L12 | 816195.00 | 8009707.00 | 1077 | 39 | 39 | 0.35 | Gravel | Brown |
| KGM12 L13 | 816295.00 | 8009706.00 | 1094 | 72 | 72 | 0.37 | Gravel | Brown |
| KGM12 L14 | 816395.00 | 8009707.00 | 1096 | 24 | 24 | 0.40 | Gravel | Dark-Brown |
| KGM12 L15 | 816495.00 | 8009706.00 | 1104 | 37 | 37 | 0.36 | Gravel | Red |
| KGM12 L16 | 816595.00 | 8009707.00 | 1088 | 108 | 108 | 0.30 | Gravel | Brown |
| KGM12 L17 | 814295.00 | 8009707.00 | 1080 | 52 | 52 | 0.40 | Loam | Brown |
| KGM12 L18 | 814395.00 | 8009707.00 | 1080 | 24 | 24 | 0.40 | Gravel | White |
| KGM12 L19 | 814497.00 | 8009706.00 | 1087 | 72 | 72 | 0.40 | Loam | Brown |
| KGM12 L20 | 814595.00 | 8009707.00 | 1082 | 57 | 57 | 0.40 | Gravel | Brown |
| KGM13 L1 | 814694.00 | 8009907.00 | 1088 | 18 | 18 | 0.35 | Gravel | Brown |
| KGM13 L2 | 814895.00 | 8009908.00 | 1078 | 14 | 14 | 0.35 | Gravel | Brown |
| KGM13 L3 | 815095.00 | 8009906.00 | 1068 | 37 | 37 | 0.40 | Gravel | Brown |
| KGM13 L4 | 815196.00 | 8009907.00 | 1061 | 12 | 12 | 0.40 | Gravel | Brown |
| KGM13 L5 | 815297.00 | 8009907.00 | 1071 | 19 | 19 | 0.39 | Gravel | Brown |
| KGM13 L6 | 815392.00 | 8009908.00 | 1079 | 26 | 26 | 0.40 | Gravel | Brown |
| KGM13 L7 | 815497.00 | 8009907.00 | 1077 | 21 | 21 | 0.40 | Gravel | Brown |
| KGM13 L8 | 815592.00 | 8009902.00 | 1077 | 24 | 24 | 0.35 | Gravel | Brown |
| KGM13 L9 | 815695.00 | 8009907.00 | 1074 | 87 | 87 | 0.34 | Gravel | Brown |
| KGM13 L10 | 815796.00 | 8009906.00 | 1062 | 41 | 41 | 0.40 | Loam | Brown |
| KGM13 L11 | 815896.00 | 8009907.00 | 1072 | 29 | 29 | 0.35 | Gravel | Brown |
| KGM13 L12 | 815995.00 | 8009907.00 | 1089 | 37 | 37 | 0.35 | Gravel | Brown |
| KGM13 L13 | 816094.00 | 8009907.00 | 1104 | 112 | 112 | 0.38 | Gravel | Brown |
| KGM13 L14 | 816195.00 | 8009907.00 | 1130 | 78 | 78 | 0.37 | Gravel | Brown |
| KGM13 L15 | 816295.00 | 8009906.00 | 1136 | 2 | <3 | 0.30 | Gravel | Brown |
| KGM13 L16 | 816395.00 | 8009908.00 | 1106 | 33 | 33 | 0.30 | Gravel | Brown |
| KGM13 L17 | 816495.00 | 8009908.00 | 1076 | 99 | 99 | 0.33 | Gravel | Brown |
| KGM13 L18 | 816595.00 | 8009905.00 | 1056 | 36 | 36 | 0.40 | Gravel | Brown |
| KGM13 L19 | 816695.00 | 8009907.00 | 1082 | 28 | 28 | 0.40 | Gravel | Brown |
| KGM14 L1 | 814397.00 | 8010107.00 | 1080 | 30 | 30 | 0.40 | Gravel | Brown |
| KGM14 L2 | 814595.00 | 8010107.00 | 1086 | 32 | 32 | 0.40 | Loam | Brown |
| KGM14 L3 | 814794.00 | 8010108.00 | 1078 | 30 | 30 | 0.40 | Loam | Red |
| KGM14 L4 | 814895.00 | 8010107.00 | 1072 | 32 | 32 | 0.40 | Gravel | Brown |
| KGM14 L5 | 814995.00 | 8010107.00 | 1073 | 30 | 30 | 0.40 | Loam | Brown |
| KGM14 L6 | 815095.00 | 8010107.00 | 1077 | 36 | 36 | 0.30 | Loam | Brown |
| KGM14 L7 | 815195.00 | 8010107.00 | 1094 | 23 | 23 | 0.30 | Gravel | Brown |
| KGM14 L8 | 815294.00 | 8010107.00 | 1098 | 107 | 107 | 0.35 | Gravel | Brown |
| KGM14 L9 | 815395.00 | 8010107.00 | 1103 | 28 | 28 | 0.34 | Gravel | Brown |
| KGM14 L10 | 815495.00 | 8010107.00 | 1119 | 28 | 28 | 0.30 | Gravel | Brown |
| KGM14 L11 | 815595.00 | 8010107.00 | 1124 | 29 | 29 | 0.35 | Gravel | Brown |
| KGM14 L12 | 815695.00 | 8010107.00 | 1122 | 42 | 42 | 0.39 | Gravel | Brown |
| KGM14 L13 | 815794.00 | 8010107.00 | 1108 | 32 | 32 | 0.40 | Gravel | Brown |
| KGM14 L14 | 815894.00 | 8010108.00 | 1090 | 29 | 29 | 0.40 | Gravel | Brown |

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|---|---|---|---|---|---|---|---|---|
| KGM14 L15 | 815994.00 | 8010107.00 | 1087 | 21 | 21 | 0.34 | Gravel | Brown |
| KGM14 L16 | 816095.00 | 8010107.00 | 1106 | 24 | 24 | 0.30 | Gravel | Brown |
| KGM14 L17 | 816194.00 | 8010107.00 | 1123 | 19 | 19 | 0.30 | Gravel | Dark-Brown |
| KGM14 L18 | 816295.00 | 8010108.00 | 1114 | 16 | 16 | 0.37 | Gravel | Brown |
| KGM14 L19 | 816356.00 | 8010106.00 | 1123 | 21 | 21 | 0.35 | Gravel | Grey |
| KGM14 L20 | 816496.00 | 8010106.00 | 1089 | 33 | 33 | 0.40 | Gravel | Brown |
| KGM14 L21 | 816595.00 | 8010107.00 | 1056 | 22 | 22 | 0.40 | Gravel | Brown |
| KGM14 L22 | 814195.00 | 8010107.00 | 1073 | 22 | 22 | 0.40 | Loam | Brown |
| KGM14 L23 | 814295.00 | 8010107.00 | 1079 | 217 | 217 | 0.35 | Gravel | Brown |
| KGM15 L1 | 814495.00 | 8010307.00 | 1089 | 32 | 32 | 0.33 | Gravel | Brown |
| KGM15 L2 | 814695.00 | 8010307.00 | 1090 | 20 | 20 | 0.38 | Gravel | Red |
| KGM15 L3 | 814795.00 | 8010307.00 | 1091 | 23 | 23 | 0.37 | Gravel | Red |
| KGM15 L4 | 814995.00 | 8010305.00 | 1092 | 30 | 30 | 0.35 | Clay | Brown |
| KGM15 L6 | 815095.00 | 8010307.00 | 1097 | 53 | 53 | 0.34 | Gravel | Brown |
| KGM15 L7 | 815195.00 | 8010195.00 | 1095 | 40 | 40 | 0.33 | Loam | Brown |
| KGM15 L8 | 815295.00 | 8010307.00 | 1093 | 77 | 77 | 0.35 | Gravel | Brown |
| KGM15 L9 | 815395.00 | 8010307.00 | 1091 | 30 | 30 | 0.33 | Gravel | Brown |
| KGM15 L10 | 815497.00 | 8010307.00 | 1090 | 78 | 78 | 0.36 | Gravel | Brown |
| KGM15 L11 | 815595.00 | 8010307.00 | 1089 | 162 | 162 | 0.33 | Gravel | Brown |
| KGM15 L12 | 815695.00 | 8010307.00 | 1091 | 93 | 93 | 0.34 | Gravel | Brown |
| KGM15 L13 | 815795.00 | 8010307.00 | 1091 | 46 | 46 | 0.35 | Clay | Grey |
| KGM15 L14 | 815895.00 | 8010307.00 | 1095 | 27 | 27 | 0.39 | Gravel | Grey |
| KGM15 L15 | 815995.00 | 8010307.00 | 1084 | 18 | 18 | 0.31 | Gravel | Brown |
| KGM15 L16 | 816095.00 | 8010307.00 | 1073 | 41 | 41 | 0.33 | Gravel | Red |
| KGM15 L18 | 816295.00 | 8010307.00 | 1073 | 31 | 31 | 0.35 | Gravel | Brown |
| KGM15 L19 | 816395.00 | 8010307.00 | 1084 | 20 | 20 | 0.33 | Gravel | Brown |
| KGM15 L20 | 816495.00 | 8010307.00 | 1084 | 25 | 25 | 0.30 | Gravel | Brown |
| KGM15 L21 | 816595.00 | 8010307.00 | 1084 | 18 | 18 | 0.31 | Gravel | Brown |
| KGM15 L22 | 814095.00 | 8010307.00 | 1088 | 54 | 54 | 0.36 | Gravel | Brown |
| KGM15 L23 | 814195.00 | 8010307.00 | 1086 | 47 | 47 | 0.38 | Loam | Brown |
| KGM15 L24 | 814295.00 | 8010307.00 | 1084 | 20 | 20 | 0.35 | Loam | Brown |
| KGM15 L25 | 814395.00 | 8010307.00 | 1096 | 25 | 25 | 0.37 | Loam | Brown |
| KGM16 L1 | 814495.00 | 8010507.00 | 1086 | 22 | 22 | 0.34 | Loam | Brown |
| KGM16 L2 | 814598.00 | 8010525.00 | 1093 | 36 | 36 | 0.35 | Loam | Red |
| KGM16 L3 | 814795.00 | 8010507.00 | 1093 | 31 | 31 | 0.37 | Loam | Red |
| KGM16 L4 | 814895.00 | 8010507.00 | 1094 | 33 | 33 | 0.36 | Gravel | Brown |
| KGM16 L5 | 815095.00 | 8010507.00 | 1102 | 58 | 58 | 0.33 | Gravel | Brown |
| KGM16 L7 | 815195.00 | 8010507.00 | 1111 | 27 | 27 | 0.35 | Loam | Brown |
| KGM16 L8 | 815295.00 | 8010507.00 | 1108 | 35 | 35 | 0.32 | Gravel | Brown |
| KGM16 L9 | 815395.00 | 8010507.00 | 1102 | 20 | 20 | 0.36 | Gravel | Brown |
| KGM16 L10 | 815495.00 | 8010507.00 | 1098 | 13 | 13 | 0.38 | Gravel | Brown |
| KGM16 L11 | 815595.00 | 8010507.00 | 1093 | 6 | 6 | 0.35 | Gravel | Brown |
| KGM16 L12 | 815695.00 | 8010507.00 | 1096 | 10 | 10 | 0.32 | Loam | Brown |

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|---|---|---|---|---|---|---|---|---|
| KGM16 L13 | 815795.00 | 8010507.00 | 1098 | 13 | 13 | 0.34 | Loam | Brown |
| KGM16 L14 | 815895.00 | 8010507.00 | 1107 | 9 | 9 | 0.34 | Gravel | Brown |
| KGM16 L15 | 815997.00 | 8010520.00 | 1081 | 31 | 31 | 0.35 | Gravel | Brown |
| KGM16 L16 | 816095.00 | 8010507.00 | 1087 | 33 | 33 | 0.34 | Gravel | Brown |
| KGM16 L17 | 816195.00 | 8010507.00 | 1081 | 47 | 47 | 0.33 | Clay | Brown |
| KGM16 L18 | 816295.00 | 8010507.00 | 1079 | 25 | 25 | 0.36 | Gravel | Red |
| KGM16 L19 | 816395.00 | 8010507.00 | 1078 | 16 | 16 | 0.34 | Gravel | Brown |
| KGM16 L20 | 816595.00 | 8010507.00 | 1079 | 24 | 24 | 0.37 | Gravel | Brown |
| KGM16 L21 | 813995.00 | 8010507.00 | 1088 | 213 | 213 | 0.36 | Gravel | Brown |
| KGM16 L22 | 814095.00 | 8010507.00 | 1097 | 13 | 13 | 0.38 | Clay | Brown |
| KGM16 L23 | 814195.00 | 8010507.00 | 1094 | 16 | 16 | 0.35 | Gravel | Red |
| KGM16 L25 | 814395.00 | 8010507.00 | 1090 | 19 | 19 | 0.36 | Gravel | Brown |
| KGM16 L26 | 813895.00 | 8010507.00 | 1068 | 76 | 76 | 0.34 | Gravel | Grey |
| KGM16 L27 | 813795.00 | 8010507.00 | 1076 | 10 | 10 | 0.36 | Gravel | Grey |
| KGM17 L1 | 813995.00 | 8010707.00 | 1059 | 42 | 42 | 0.40 | Loam | Grey |
| KGM17 L2 | 814095.00 | 8010707.00 | 1064 | 20 | 20 | 0.40 | Loam | Brown |
| KGM17 L3 | 814195.00 | 8010706.00 | 1069 | 15 | 15 | 0.40 | Gravel | Brown |
| KGM17 L4 | 814295.00 | 8010707.00 | 1073 | 15 | 15 | 0.40 | Gravel | Dark-Brown |
| KGM17 L5 | 814395.00 | 8010706.00 | 1081 | 21 | 21 | 0.40 | Loam | Brown |
| KGM17 L6 | 814595.00 | 8010707.00 | 1087 | 23 | 23 | 0.40 | Loam | Brown |
| KGM17 L7 | 814695.00 | 8010708.00 | 1092 | 16 | 16 | 0.40 | Gravel | Brown |
| KGM17 L8 | 814795.00 | 8010708.00 | 1103 | 27 | 27 | 0.35 | Gravel | Brown |
| KGM17 L9 | 814895.00 | 8010708.00 | 1128 | 20 | 20 | 0.35 | Loam | Brown |
| KGM17 L10 | 814995.00 | 8010707.00 | 1143 | 119 | 119 | 0.30 | Gravel | Red |
| KGM17 L11 | 815095.00 | 8010707.00 | 1128 | 137 | 137 | 0.20 | Gravel | Red |
| KGM17 L12 | 815197.00 | 8010707.00 | 1110 | 20 | 20 | 0.40 | Gravel | Brown |
| KGM17 L13 | 815295.00 | 8010707.00 | 1093 | 23 | 23 | 0.35 | Gravel | Grey |
| KGM17 L14 | 815395.00 | 8010707.00 | 1086 | 9 | 9 | 0.30 | Gravel | Grey |
| KGM17 L15 | 815495.00 | 8010707.00 | 1075 | 12 | 12 | 0.30 | Gravel | Grey |
| KGM17 L16 | 815596.00 | 8010707.00 | 1071 | 34 | 34 | 0.40 | Gravel | Grey |
| KGM17 L17 | 815695.00 | 8010707.00 | 1063 | 6 | 6 | 0.40 | Gravel | Grey |
| KGM17 L18 | 815795.00 | 8010707.00 | 1070 | 58 | 58 | 0.40 | Gravel | Brown |
| KGM17 L19 | 815895.00 | 8010707.00 | 1087 | 24 | 24 | 0.35 | Gravel | Brown |
| KGM17 L20 | 815995.00 | 8010707.00 | 1101 | 33 | 33 | 0.35 | Gravel | Brown |
| KGM17 L21 | 816095.00 | 8010707.00 | 1110 | 28 | 28 | 0.36 | Gravel | Brown |
| KGM17 L22 | 816195.00 | 8010707.00 | 1102 | 17 | 17 | 0.40 | Gravel | Brown |
| KGM17 L23 | 816295.00 | 8010707.00 | 1096 | 17 | 17 | 0.38 | Gravel | Brown |
| KGM17 L24 | 816395.00 | 8010706.00 | 1095 | 86 | 86 | 0.40 | Gravel | Brown |
| KGM17 L25 | 816495.00 | 8010707.00 | 1094 | 67 | 67 | 0.40 | Gravel | Brown |
| KGM17 L26 | 816595.00 | 8010707.00 | 1059 | 33 | 33 | 0.40 | Gravel | Brown |
| KGM18 L1 | 814395.00 | 8010907.00 | 1091 | 7 | 7 | 0.34 | Gravel | Brown |
| KGM18 L2 | 814495.00 | 8010907.00 | 1094 | 10 | 10 | 0.32 | Gravel | Brown |
| KGM18 L3 | 814595.00 | 8010907.00 | 1102 | 11 | 11 | 0.35 | Gravel | Brown |

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|---|---|---|---|---|---|---|---|---|
| KGM18 L4 | 814695.00 | 8010907.00 | 1137 | 9 | 9 | 0.36 | Gravel | Brown |
| KGM18 L5 | 814795.00 | 8010907.00 | 1103 | 11 | 11 | 0.37 | Loam | Brown |
| KGM18 L6 | 814895.00 | 8010907.00 | 1091 | 23 | 23 | 0.35 | Gravel | Brown |
| KGM18 L7 | 814995.00 | 8010907.00 | 1099 | 175 | 175 | 0.38 | Gravel | Brown |
| KGM18 L8 | 815095.00 | 8010907.00 | 1094 | 58 | 58 | 0.40 | Gravel | Brown |
| KGM18 L9 | 815195.00 | 8010907.00 | 1090 | 33 | 33 | 0.37 | Gravel | Brown |
| KGM18 L10 | 815295.00 | 8010907.00 | 1109 | 23 | 23 | 0.35 | Loam | Brown |
| KGM18 L11 | 815895.00 | 8010907.00 | 1112 | 23 | 23 | 0.34 | Gravel | White |
| KGM18 L12 | 815495.00 | 8010907.00 | 1100 | 44 | 44 | 0.37 | Clay | Brown |
| KGM18 L13 | 815595.00 | 8010907.00 | 1087 | 25 | 25 | 0.35 | Gravel | Brown |
| KGM18 L14 | 815695.00 | 8010907.00 | 1095 | 17 | 17 | 0.33 | Clay | Brown |
| KGM18 L15 | 815795.00 | 8010907.00 | 1109 | 31 | 31 | 0.35 | Loam | Grey |
| KGM18 L16 | 815895.00 | 8010907.00 | 1108 | 17 | 17 | 0.36 | Loam | Brown |
| KGM18 L17 | 815995.00 | 8010907.00 | 1114 | 35 | 35 | 0.33 | Gravel | Brown |
| KGM18 L18 | 816095.00 | 8010907.00 | 1088 | 22 | 22 | 0.32 | Gravel | Red |
| KGM18 L19 | 816195.00 | 8010907.00 | 1093 | 17 | 17 | 0.40 | Clay | Brown |
| KGM18 L20 | 816295.00 | 8010907.00 | 1087 | 16 | 16 | 0.35 | Loam | Red |
| KGM18 L21 | 816395.00 | 8010907.00 | 1090 | 17 | 17 | 0.39 | Clay | Brown |
| KGM18 L22 | 816492.00 | 8010924.00 | 1052 | 14 | 14 | 0.31 | Gravel | Brown |
| KGM18 L23 | 816595.00 | 8010907.00 | 1084 | 11 | 11 | 0.35 | Gravel | Brown |
| KGM19 L1 | 813894.00 | 8011107.00 | 1067 | 19 | 19 | 0.40 | Clay-loam | Brown |
| KGM19 L2 | 813995.00 | 8011107.00 | 1077 | 17 | 17 | 0.36 | Gravel | Brown |
| KGM19 L3 | 814095.00 | 8011107.00 | 1075 | 18 | 18 | 0.35 | Gravel | Brown |
| KGM19 L4 | 814195.00 | 8011107.00 | 1080 | 19 | 19 | 0.35 | Gravel | Brown |
| KGM19 L5 | 814296.00 | 8011107.00 | 1089 | 18 | 18 | 0.40 | Gravel | Brown |
| KGM19 L6 | 814396.00 | 8011107.00 | 1089 | 22 | 22 | 0.30 | Gravel | Brown |
| KGM19 L7 | 814496.00 | 8011105.00 | 1089 | 23 | 23 | 0.30 | Gravel | Brown |
| KGM19 L8 | 814595.00 | 8011107.00 | 1096 | 26 | 26 | 0.38 | Gravel | Brown |
| KGM19 L9 | 814695.00 | 8011107.00 | 1079 | 17 | 17 | 0.38 | Gravel | Brown |
| KGM19 L10 | 814795.00 | 8011107.00 | 1079 | 7 | 7 | 0.40 | Loam | Grey |
| KGM19 L11 | 814894.00 | 8011107.00 | 1097 | 6 | 6 | 0.35 | Gravel | White |
| KGM19 L12 | 814995.00 | 8011106.00 | 1097 | 5 | 5 | 0.35 | Gravel | White |
| KGM19 L13 | 815095.00 | 8011106.00 | 1074 | 13 | 13 | 0.30 | Gravel | White |
| KGM19 L14 | 815195.00 | 8011106.00 | 1068 | 3 | 3 | 0.35 | Gravel | White |
| KGM19 L15 | 815274.00 | 8011106.00 | 1061 | 10 | 10 | 0.40 | Clay-loam | White |
| KGM19 L16 | 815395.00 | 8011107.00 | 1070 | 6 | 6 | 0.35 | Gravel | White |
| KGM19 L17 | 815494.00 | 8011107.00 | 1076 | 4 | 4 | 0.40 | Gravel | Brown |
| KGM19 L18 | 815595.00 | 8011106.00 | 1082 | 9 | 9 | 0.40 | Gravel | Brown |
| KGM19 L19 | 815695.00 | 8011107.00 | 1079 | 8 | 8 | 0.40 | Gravel | Brown |
| KGM19 L20 | 815795.00 | 8011107.00 | 1079 | 4 | 4 | 0.35 | Gravel | White |
| KGM19 L21 | 815893.00 | 8011106.00 | 1063 | 6 | 6 | 0.30 | Gravel | Brown |
| KGM19 L22 | 815995.00 | 8011106.00 | 1057 | 7 | 7 | 0.40 | Gravel | Brown |
| KGM19 L23 | 816295.00 | 8011108.00 | 1060 | 24 | 24 | 0.35 | Gravel | Grey |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KGM19 L24 | 816293.00 | 8011107.00 | 1053 | 10 | 10 | 0.35 | Gravel | Brown |
| KGM19 L25 | 816392.00 | 8011108.00 | 1052 | 7 | 7 | 0.38 | Gravel | Brown |
| KGM19 L26 | 816495.00 | 8011107.00 | 1043 | 18 | 18 | 0.40 | Gravel | Brown |
| KGM19 L27 | 816594.00 | 8011106.00 | 1140 | 18 | 18 | 0.39 | Gravel | Grey |
| KGM19L28 | 813297.00 | 8011107.00 | 1074 | 58 | 58 | 0.35 | Loam | Brown |
| KGM19L29 | 813395.00 | 8011103.00 | 1071 | 18 | 18 | 0.37 | Gravel | Brown |
| KGM19L30 | 813495.00 | 8011107.00 | 1071 | 43 | 43 | 0.36 | Gravel | Red |
| KGM20 L1 | 813895.00 | 8011220.00 | 1090 | 86 | 86 | 0.32 | Gravel | Red |
| KGM20 L2 | 813995.00 | 8011220.00 | 1089 | 51 | 51 | 0.37 | Loam | Brown |
| KGM20 L3 | 814095.00 | 8011220.00 | 1089 | 27 | 27 | 0.35 | Gravel | Brown |
| KGM20 L4 | 814195.00 | 8011220.00 | 1086 | 20 | 20 | 0.34 | Gravel | Brown |
| KGM20 L5 | 814295.00 | 8011220.00 | 1085 | 1487 | 1487 | 0.36 | Gravel | Brown |
| KGM20 L6 | 814395.00 | 8011220.00 | 1085 | 26 | 26 | 0.33 | Gravel | Brown |
| KGM20 L7 | 814495.00 | 8011220.00 | 1085 | 30 | 30 | 0.33 | Gravel | Brown |
| KGM20 L8 | 814595.00 | 8011220.00 | 1099 | 271 | 271 | 0.35 | Loam | Brown |
| KGM20 L9 | 814695.00 | 8011220.00 | 1098 | 105 | 105 | 0.33 | gravel | Grey |
| KGM20 L10 | 814795.00 | 8011220.00 | 1094 | 30 | 30 | 0.34 | Gravel | Grey |
| KGM20 L11 | 814895.00 | 8011220.00 | 1096 | 14 | 14 | 0.36 | Gravel | Grey |
| KGM20 L12 | 814990.00 | 8011220.00 | 1093 | 46 | 46 | 0.35 | Gravel | Brown |
| KGM20 L13 | 815095.00 | 8011220.00 | 1097 | 284 | 284 | 0.35 | Gravel | Brown |
| KGM20 L14 | 814595.00 | 8011220.00 | 1089 | 21 | 21 | 0.40 | Gravel | Red |
| KGM20 L15 | 813695.00 | 8011220.00 | 1093 | 46 | 46 | 0.38 | Clay | Brown |
| KGM20 L16 | 813795.00 | 8011220.00 | 1094 | 16 | 16 | 0.36 | Gravel | Brown |
| KGM20L17 | 813484.00 | 8011243.00 | 1062 | 19 | 19 | 0.36 | Loam | Red |
| KGM20L18 | 813394.00 | 8011239.00 | 1061 | 425 | 425 | 0.35 | Loam | Red |
| KGM20L19 | 813287.00 | 8011236.00 | 1066 | 35 | 35 | 0.37 | Loam | Brown |

*NB Au Final is simply a conversion of the <3ppb to 1.5ppb (rounded off to 2ppb) while maintaining the Lab result as is in the original assays column. The values at 3ppb and above are taken as is. Assays are in parts per billion by Aqua regia digestion followed by AA finish.*

### 9.5 Rock Chip Assay Results

### 9.5 (a) Field Samples Assay results

| Type | Shaft ID | Sample ID | E_UTM | N_UTM | Grade (g/t) | Comment |
|---|---|---|---|---|---|---|
| underground | | SRU1 | 815860 | 8007676 | 4.90 | 0.09m thick, 60° dip, quartz in basalt |
| underground | | SRU2 | 816124 | 8007975 | 2.57 | 0.12m thick,65° dip, quartz in basalt |
| underground | | SRU3 | 816154 | 8008044 | 0.63 | 0.15m thick, quartz in basalt |
| underground | | SRU4 | 815909 | 8008348 | 0.11 | 0.15m thick, quartz in basalt |
| underground | | SRU5 | 815806 | 8008477 | 1.79 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| underground | | SRU6 | 815051 | 8008892 | 0.09 | 0.2m thick |
| underground | | SRU7 | 815051 | 8009175 | 2.08 | 0.1m thick |
| underground | | SRU8 | 816252 | 8008205 | 0.94 | 0.175m thick, qtz, k-shaft west drive, 30m deep |
| underground | | SRU9 | 816252 | 8008205 | 0.76 | 0.065m thick, k-shaft east drive, 25m deep |
| underground | | SRU10 | 816252 | 8008205 | 0.99 | 0.077m thick, k shaft east drive, 15m deep |
| underground | | SRU11 | 814934 | 8009048 | 3.74 | quartz |
| underground | | SRU12 | 814804 | 8009169 | 0.00 | 0.3m thick, quartz reef |
| underground | | SRU13 | 814480 | 8009577 | 4.32 | 0.27m thick quartz reef, 18m deep |
| underground | | SRU14 | 815048 | 8008895 | 3.17 | 0.13m thick quartz |
| | | | | | | |
| surface | | SRS1 | 814409 | 8007756 | <0.06 | quartz |
| surface | | SRS2 | 814875 | 8007745 | <0.06 | quartz |
| surface | | SRS3 | 817208 | 8008226 | <0.06 | oxidized quartz |
| surface | | SRS4 | 816898 | 8008317 | <0.06 | quartz |
| surface | | SRS5 | 816879 | 8008493 | <0.06 | quartz |
| surface | | SRS6 | 817057 | 8008739 | <0.06 | serpentinite |
| surface | | SRS7 | 815565 | 8008710 | <0.06 | quartz rubble |
| surface | | SRS8 | 816664 | 8008914 | <0.06 | quartz rubble |
| surface | | SRS9 | 816649 | 8009147 | <0.06 | quartz rubble |
| surface | | SRS10 | 816341 | 8009122 | <0.06 | quartz band in basalt |
| surface | | SRS11 | 816623 | 8008522 | <0.06 | oxidized basalt |
| surface | | SRS12 | 816879 | 8008493 | <0.06 | BIF |
| surface | | SRS13 | 816369 | 8010124 | <0.06 | BIF |
| surface | | SRS14 | 816044 | 8010968 | <0.06 | BIF |
| surface | | SRS15 | 816568 | 8010616 | <0.06 | serpentinite |
| surface | | SRS16 | 814003 | 8007762 | <0.06 | quartz |
| surface | | SRS17 | 814577 | 8011124 | <0.06 | quartz |
| surface | | SRS18 | 814806 | 8011194 | <0.06 | quartz |
| surface | | SRS19 | 816095 | 8010907 | 0.21 | quartz |
| surface | | SRS20 | 813324 | 8011238 | <0.06 | quartz |
| surface | | SRS21 | 813812 | 8010788 | <0.06 | gossan |

Assays are in Au g/t Fire Assay on 50g Aliquot. All surface rock chip samples returned negative results. Detection limit on Fire Assay was 0.06g/t.

**9.5 (b) CRMs used with Rock Chip Field samples**

| Sample ID | CRM ID | CRM source | Expected Au (g/t) | Actual Au (g/t) | Expected Au Std |
|---|---|---|---|---|---|

| | | | | | Deviation |
|---|---|---|---|---|---|
| SRU9A | G999-4 | Geostats-Australia | 3.02 | 2.93 | 0.17 |
| SRS4A | G910-10 | Geostats-Australia | 0.97 | 0.95 | 0.04 |
| SRS15A | G912-8 | Geostats-Australia | 0.53 | 0.49 | 0.02 |

As can be seen above, the Antech Lab results for the rock chip samples were very accurate. Recommended limit is ±2 standard deviation.

**9.5 © Blank Samples used with Field Rock Chip Samples**

| SAMPLE ID | Au g/t | Blank upper limit |
|---|---|---|
| SRU8A | 0.21 | 0.20 |
| SRS3A | <0.06 | 0.20 |
| SRS14A | <0.06 | 0.20 |
| RANGANAI 1 | <0.06 | 0.20 |

The above results are acceptable though the first result (outlier) is really marginal above the expected limit of 0.20g/t.