Klohn Crippen Berger

MEMORANDUM

TO:	Guyana Goldfields	**DATE:**	February 3, 2012
FROM:	Claudio Andrade and Keith Mountjoy	**FILE NO:**	ZC1223A01
		LOG NO:	
SUBJECT:	Aurora Project – Static ARD/ML Interpretation		

1. INTRODUCTION

An Acid Rock Drainage and Metal Leaching (ARD/ML) program is currently underway for waste rock for an open pit and underground mine plan at the Aurora Gold Project. This memo provides an interpretation of static data gathered to-date for the purposes of initial materials classification and materials leachate characterization.

2. GEOLOGY

The following is sourced from SRK 2011 and references therein.

2.1 Regional

The Aurora Gold Project is located in the Archean-Proterozoic Guiana Shield in northeast South America. The Guiana Shield is a palaeo-Proterozoic granite-greenstone terrane and is considered to be the extension of the West-African palaeo-Proterozoic Birimian Supergroup terrane. The Guiana Shield is largely composed of the Barama-Mazaruni Supergroup, a metasedimentary/greenstone terrane intercalated with Archean-Proterozoic gneisses that are intruded by Trans-Amazonian granites, as well as mafic and ultramafic rocks.

The Barama-Mazaruni Supergoup formed within a geosynclinal basin locally bordered by an Archean continental foreland. The Trans-Amazonian Orogeny, approximately 2,000 million years ago, resulted in block faulting, crustal shortening, folding, metamorphism and anatexis of the Barama-Mazaruni Supergroup. The regional metamorphic grade of the Barama-Mazaruni Supergroup is generally lower to middle greenschist facies. Near the contact of some of the larger granitic complexes the Barama-Mazaruni Supergroup is metamorphosed to upper greenschist to amphibolite facies. Syn- to late-tectonic calc-alkaline to intermediate intrusive rocks, collectively known as the Trans-Amazonian Granitoids, were emplaced during the Trans-Amazonian Orogeny, between 2,250 and 1,960 million years ago. They range in composition from granite to granodiorite, diorite, and adamellite. Intrusive rocks proximal to the Aurora Gold Project area include the Proterozoic-age Iroma-Ranka, Aurora, and Katruni medium-grained granodiorite and diorite intrusions, and late-stage basic sills and dikes. Figure 2.1 shows the regional geology of Guyana and the Guiana Shield of northeast South America.

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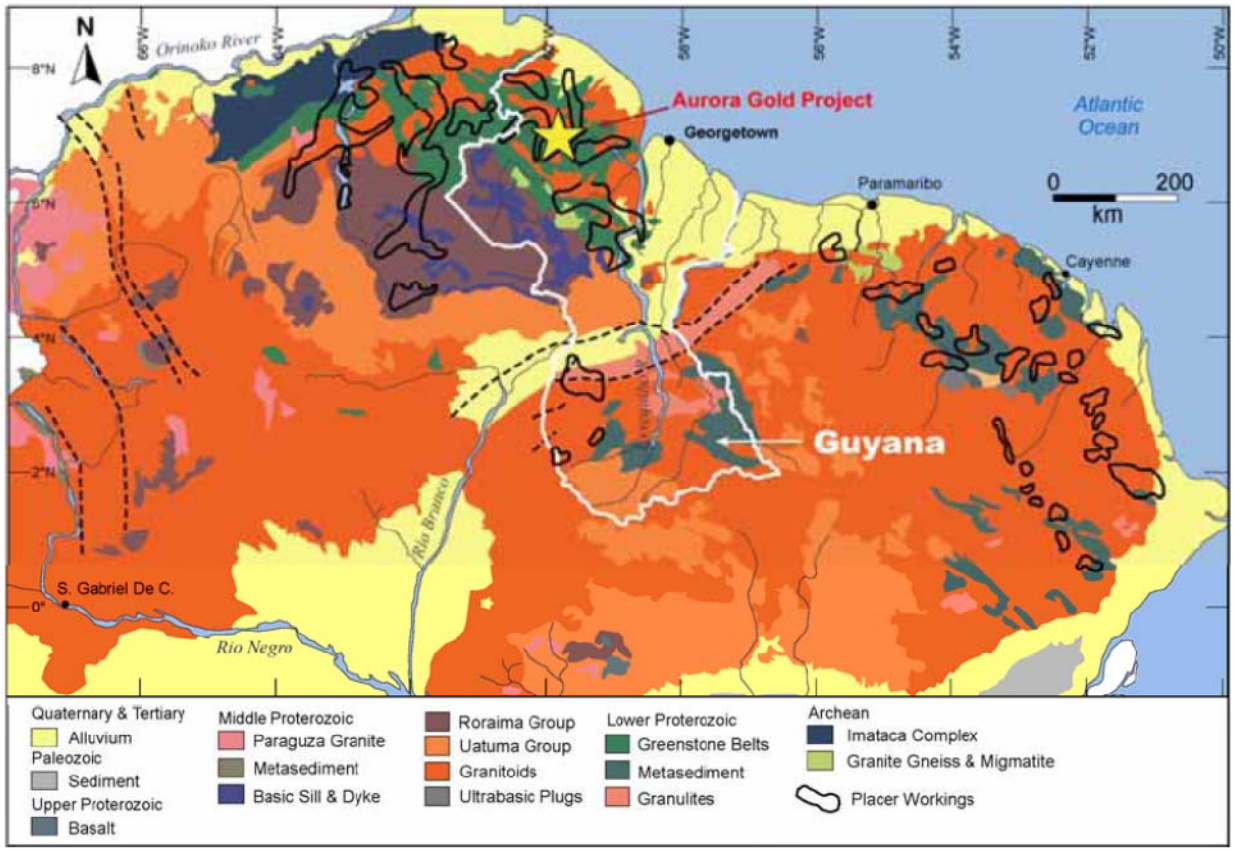


Figure 2.1 Regional Geology (Source SRK, 2011)

2.2 Local

Lithological units in the area include thinly bedded argillite and greywacke, mafic volcanic rock, strongly magnetic mafic volcanic rock, quartz phyric felsic volcaniclastic rock, diorite and gabbro; quartz phyric felsic intrusive rocks, and altered schists. The distribution of lithological units is not well understood largely because of poor outcrop exposures and a well-developed saprolitic profile.

Hydrothermal alteration in the area is spatially related to strain intensity, with the highest strained rocks usually displaying the strongest hydrothermal alteration.

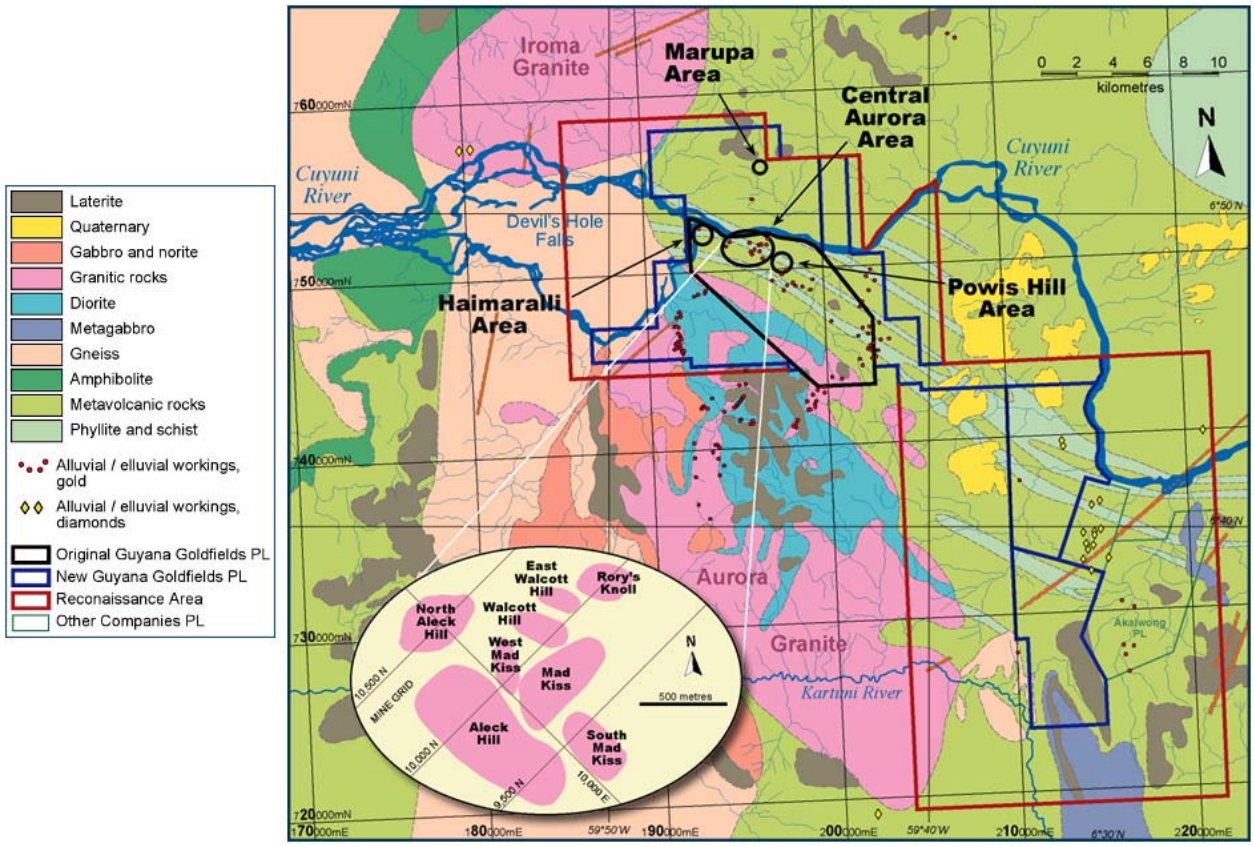


Figure 2.2 Aurora local geology (Source Guyana Goldfields)

2.3 Mineralization

The gold mineralization at the Aurora Gold Project exhibits features analogous to mesothermal or "orogenic" gold deposits typified by Archean deposits of the Abitibi region, Canada. Features characteristic of the gold mineralization at the Aurora Gold Project include:

- A strong spatial association to large-scale shear zones;
- Relative late timing during active compressional deformation;
- A strong spatial association with mafic-intermediate metavolcanic and plutonic lithologies;
- Formed during greenschist metamorphic conditions;
- Association with a propylitic-phyllic alteration assemblages; and
- Is principally hosted in quartz-ankerite-pyrite veining.

3. METHODOLOGY

The following methodology is in accordance with Price (1997), MEND (2009) and INAP (2009).

3.1 Sample Selection

Field investigations (week of June 24 to June 29, 2010), core examinations and sample selections for an industry standard ARD/ML characterization program were based on the understanding of the lithologies types, their distribution throughout the deposit, ore cut-off grades, pit void geometry and geologic / assay data in the diamond drill hole (DDH) database.

In consultation with site geologists, waste cut-off grades for open pit and underground were identified at 0.45 Au gpt and 2.0 Au gpt, respectively. These values were used as upper limits with the assay database to constrain waste samples.

Site geologists supplied the most relevant Whittle pit shell at that time of the site visit (04A with slope set #3), which was used to constrain DDHs intervals in-pit, at pit walls, pit floors and satellite pit samples. At the time, underground development details were not available. Therefore, underground samples were selected in conjunction with site geologists and generally guided by the deeper high-grade DDHs assumed to represent the expected underground ore zones.

Sample selection considered the main lithology/alteration types defined as greater than 2% of total logged lithologies/alterations. These lithologies correspond to 93% of all logged rock types (Table 3.2) and are considered to represent the deposit adequately. The ARD/ML sample selection strategy considered the spatial distribution of these lithologies/alteration types within or immediately adjacent to pit walls and pit floors for all satellite deposits, for in-pit and underground waste rock. Note that the DDH database has combined true lithologies with alterations for a composite naming system (e.g., tonalite and sericite schist).

Additional sampling considerations included age of core (i.e., samples as old as 2005 up to as recent as 2010). Note that, at the time of sample selection, an assay laboratory back log of several months was in effect, therefore the most recent assays available for determining waste and ore were DDHs drilled in Q1-Q2 2010. Table 3.2 and Figure 3.1 to Figure 3.4 summarise the ARD/ML sample set and show the spatial distribution of the sample locations, respectively. Additional sample details are provided in the Appendix.

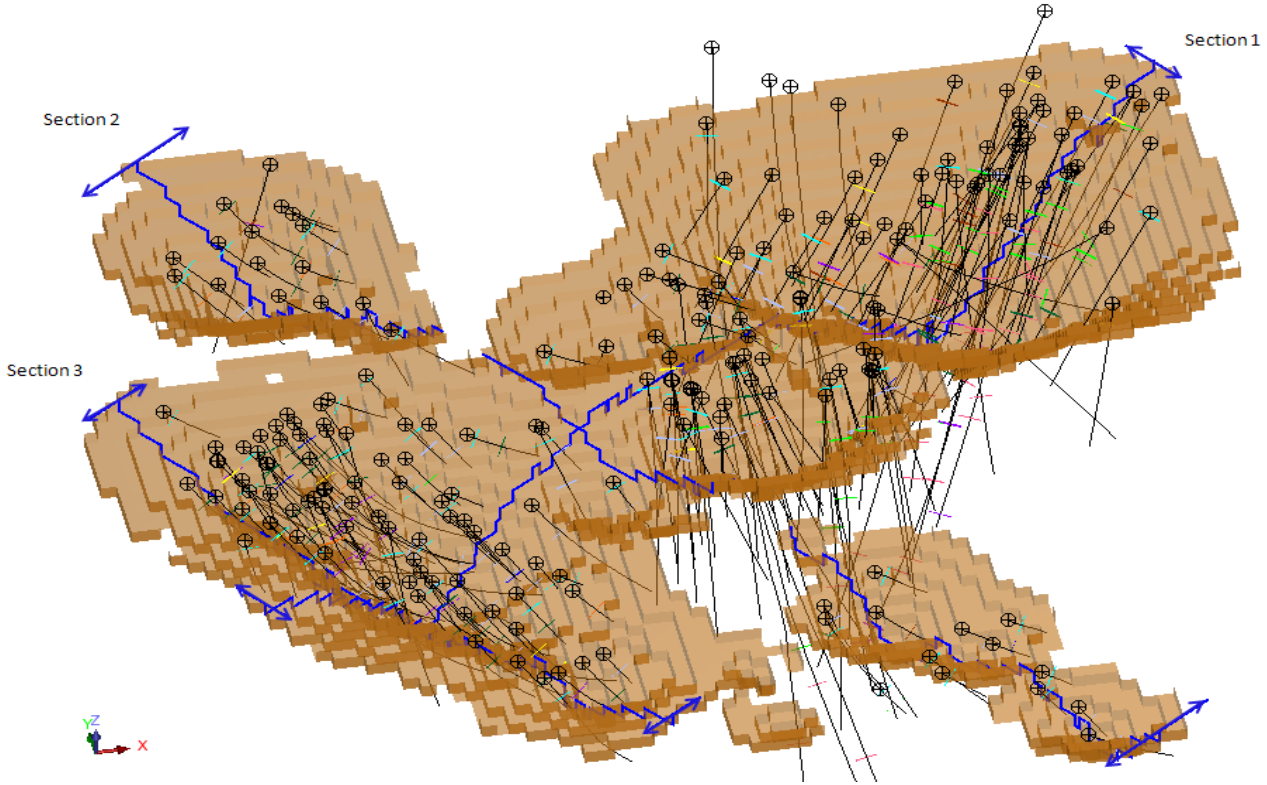
An inspection of core assay reject material (80% passing 10 mesh or 2 mm aperture) storage in Georgetown was carried out. Reject material was found to be dry, well organised, stored in clearly labelled standard sample plastic bags, located within two large enclosed barns, undercover and on shelves off the ground. The compound is secure and monitored by security. The size and condition of the reject material was considered adequate for ARD/ML testing.

Table 3.1 Aurora DDH Lithology Summary as of June, 2010

LITHOLOGY	DDH DATABASE TOTAL LENGTH (m)	PROPORTION (no units)
Andesite Dike	362	0.0020
Andesite Porphyry	939	0.0051
Andesite Porphyry Dike	413	0.0022
Aplite Dike	2	0.0000091
Ash Tuff	4,666	0.025
Chlorite Schist	8,527	0.046
Dacite	205	0.0011
Diorite	4,686	0.025
Diorite Porphyry	35	0.00019
Felsic Tuff	11,512	0.063
Fault Zone	4.9	0.000026
Gabbro	20	0.00011
Granodiorite	828	0.0045
Granitoid	442	0.0024
Microdiorite	864	0.0047
Metasediment	3,594	0.020
Metavolcanic	37,083	0.20
Overburden	93	0.00051
Quartz Diorite	298	0.0016
Quartz Diorite Porphyry	68	0.00037
Quartz Feldspar Porphyry	2,163	0.012
Quartz Porphyry	223	0.0012
Quartz Vein	6,553	0.036
Saprolite	24,642	0.13
Silicified Breccia	211	0.0011
Soil Cover	1,292	0.0070
Sericite Schist	7,293	0.040
Stockworks	542	0.0029
Shear Zone	282	0.0015
Tonalite	12,613	0.069
Tunnel	1.2	0.0000067
Volcanic Breccia	27	0.00015
Volcanic / Volcanic Sediment	53,498	0.29
Total	**183,984**	1.0

Table 3.2 ARD/ML Program Sampling Set Summary

LITHOLOGY	LITHOLOGY CODE	ARD/ML SAMPLING NUMBERS
Ash Tuff	ATf	11
Chlorite Schist	CSCT	22
Diorite	DIO	18
Felsic Tuff	FTf	33
Meta-Volcanic	MVOL	53
Quartz Vein	QV	9
Saprolite	SAP	59
Sericite Schist	SSCT	25
Tonalite	TON	44
Volcanic	VOL	74
Total		**348**



Oblique of Aurora Pit showing drillholes sampled for ARD and section lines

Rock Type Legend		
Colour	Code	Name
	ATf	Ash Tuff
	CSCT	Chlorite Schist
	DIO	Diorite
	FTf	Felsic Tuff
	MVOL	Metavolcanics
	QV	Quartz Vein
	SAP	Saprolite
	SSCT	Sericite Schist
	TON	Tonalite
	VOL	Volcanics/Volcanic Sediments

Figure 3.1 Oblique View of the ARD/ML Sample Spatial Distribution

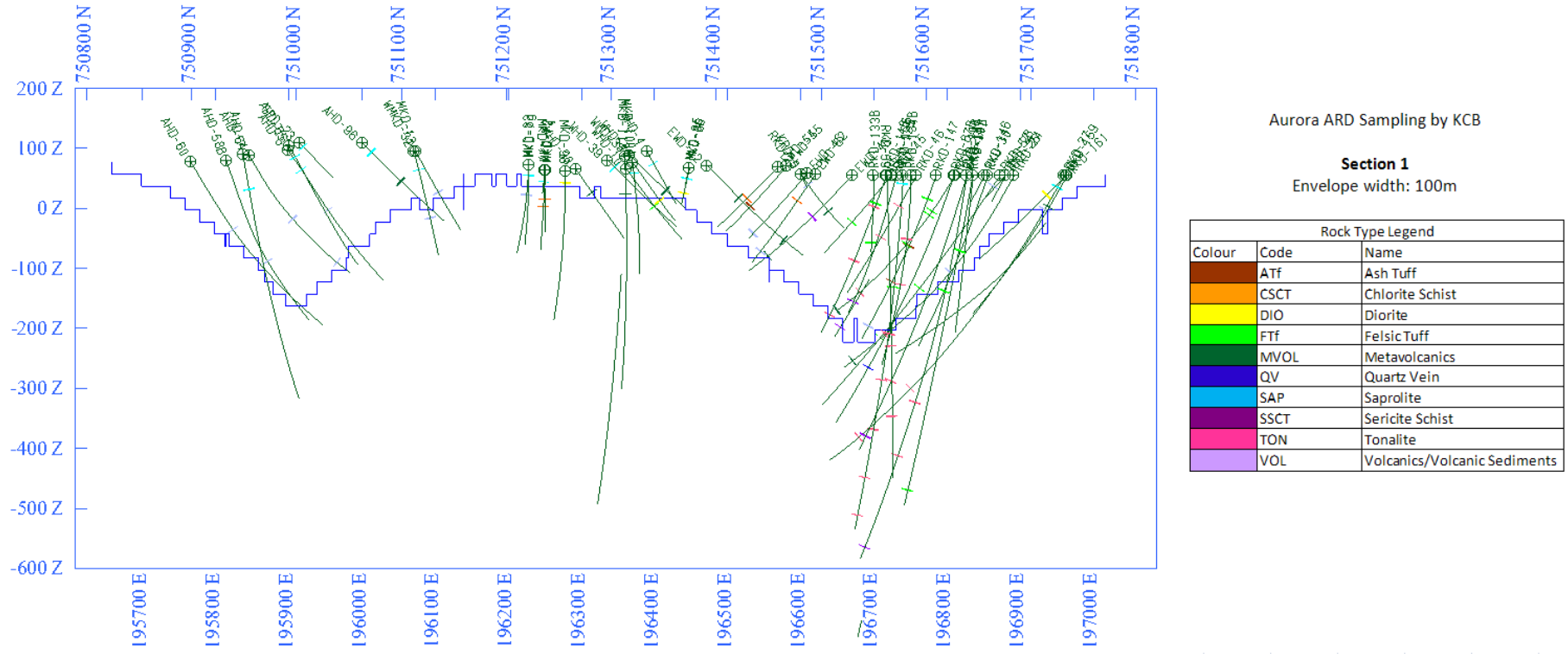
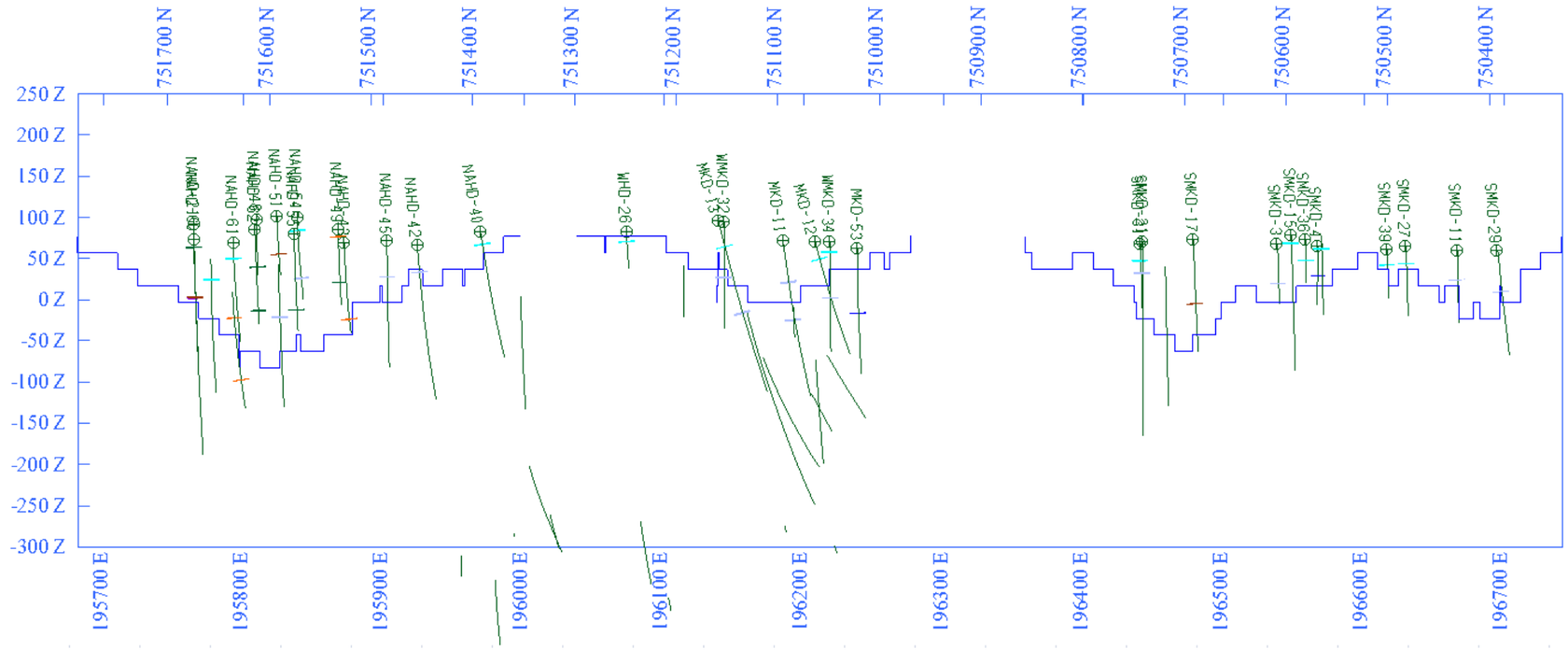


Figure 3.2 Cross Section 1 View of the ARD/ML Sample Spatial Distribution

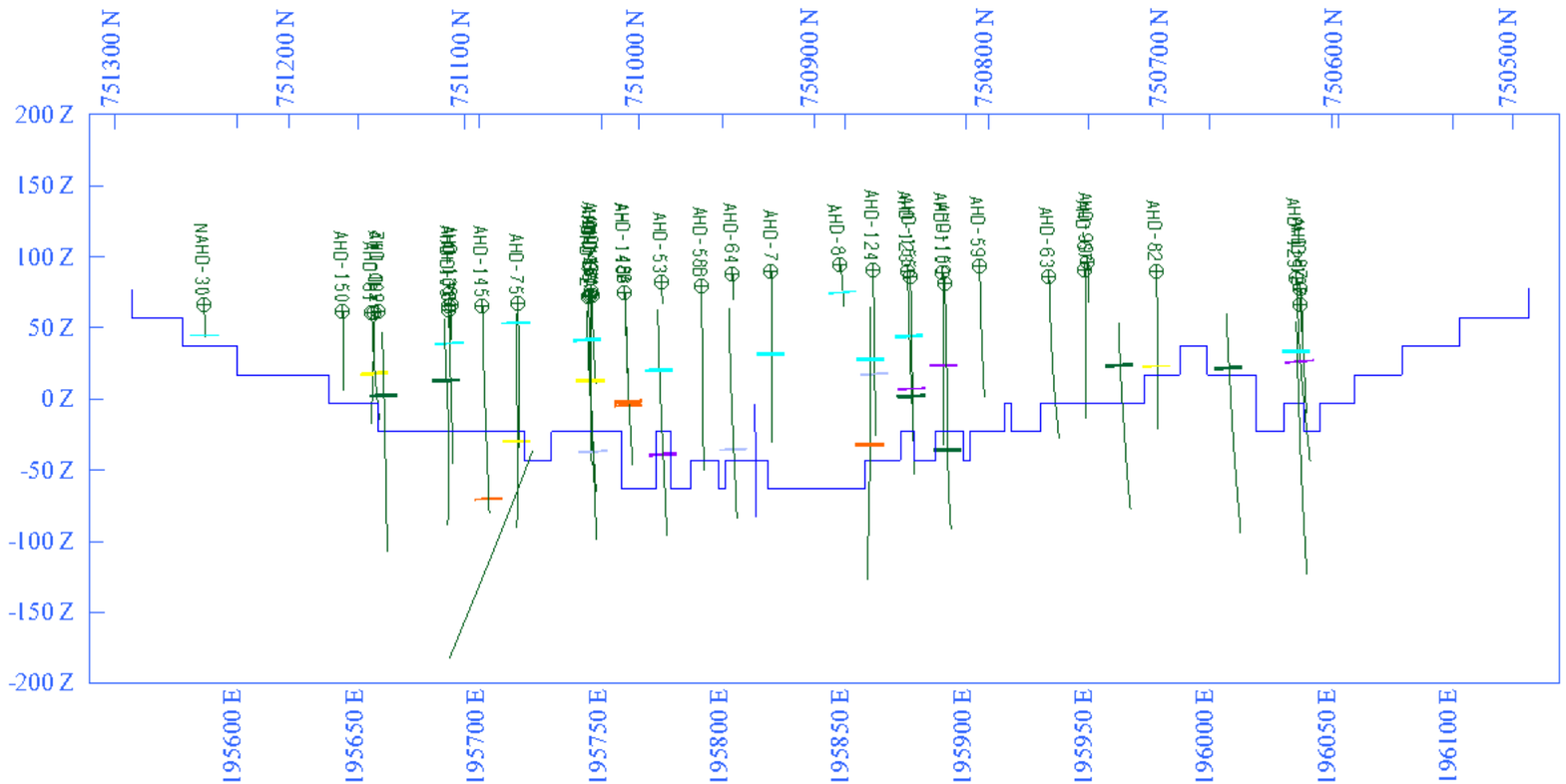


Aurora ARD Sampling by KCB

Section 2
Envelope width: 200m

Rock Type Legend		
Colour	Code	Name
	ATf	Ash Tuff
	CSCT	Chlorite Schist
	DIO	Diorite
	FTf	Felsic Tuff
	MVOL	Metavolcanics
	QV	Quartz Vein
	SAP	Saprolite
	SSCT	Sericite Schist
	TON	Tonalite
	VOL	Volcanics/Volcanic Sediments

Figure 3.3 Cross Section 2 View of the ARD/ML Sample Spatial Distribution



Aurora ARD Sampling by KCB

Section 3
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Rock Type Legend		
Colour	Code	Name
	ATf	Ash Tuff
	CSCT	Chlorite Schist
	DIO	Diorite
	FTf	Felsic Tuff
	MVOL	Metavolcanics
	QV	Quartz Vein
	SAP	Saprolite
	SSCT	Sericite Schist
	TON	Tonalite
	VOL	Volcanics/Volcanic Sediments

Figure 3.4 Cross Section 1 View of the ARD/ML Sample Spatial Distribution

3.2 Analytical Testing

The ARD/ML characterization analytical program consists of static testing and laboratory-scale kinetic testing. Only static test results are discussed in this memo.

Static tests measure the chemical, physical and mineralogical properties of a sample which are used for materials classification. Static test information is also used to select samples for kinetic testing. Briefly, humidity cells are experimental kinetic tests that measure the ongoing of weathering and leaching rates. This data is use to predict estimates of Neutralization Potential (NP) depletion, sulphide depletion and lag times to the on-set of ARD, if there is insufficient Neutralization Potential available until sulphide oxidation is complete. Kinetic testing has recently been initiated and sufficient results are currently not available for an adequate interpretation.

The Aurora Gold Project samples underwent the following static testing:

Static Testing Program

- Recoverable solid-phase multi-element determination by aqua regia digest (HCl, HNO_3) and Inductively Coupled Plasma-Mass Spectrometry (ICP-MS). The Aqua regia digest was chosen to minimise the loss of volatile elements (As, Bi, Hg, Sb, Se and Te) during the digestion procedure;
- Acid base Accounting (ABA) including fizz testing, paste pH, total inorganic carbon (TIC), sulphur speciation (total-sulphur by LECO, HCl-leachable sulphate-sulphur, and HNO_3-leachable (sulphide-) sulphur) and Modified Sobek NP (MS-NP);
- Single Addition Net Acid Generating (NAG) testing and leachate analyses for pH, electrical conductivity, sulphate and a 40 metals suite (Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Cs, Cr, Co, Cu, Fe, La, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, K, Rb, Se, Si, Ag, Na, Sr, S, Te, Tl, Th, Sn, Ti, W, U, V, Zn, Zr) ; and
- MEND Shake Flask Extractions (SFE) with leachate analyses of pH, electrical conductivity hardness and a 41 metals suite (Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Cs, Cr, Co, Cu, Fe, La, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, K, Rb, Se, Si, Ag, Na, Sr, S, Te, Tl, Th, Sn, Ti, W, U, V, Zn, Zr).

Kinetic Testing Program

- Particle size analyses;
- X-Ray Diffraction (XRD) analysis with Rietveld refinement;
- Supplementary SFE and NAG analyses; and
- Humidity Cell testing with leachate analyses.

4. RESULTS AND DISCUSSION

4.1 Solid-Phase Multi-Element Analyses

The purpose of the multi-element analysis is to determine the solid-phase concentrations or "reservoir" of elements that may be of environmental significance (i.e., abnormally high concentrations). In this test, the sample undergoes an *aqua regia* (HNO_3, HCl) digest and the supernatant is analyzed for a suite of elements using ICP-MS. Note that silicates and refractory minerals are only partially dissolved by this acid combination and is considered adequate for environmental investigations (i.e., total elemental liberation under ambient environmental conditions is not expected to occur). The digest thus provides quantitative information on the "environmentally" available quantity of an element in a sample.

An elemental concentration is considered significant if it exceeds available regional lithogeochemistry, average crustal abundance or an appropriate geological analogue for the particular deposit by more than three times (Price 1997). The average crustal abundance of high and low calcium granite has been chosen for comparison to the Aurora deposit due to the quartz-rich, volcanic and tonalitic chemical characteristics of the main lithologies. Note that pervasive sericite, chlorite and carbonate alteration overprinting leads to compositional differences in comparing Aurora Gold Project rock types to "standard" geology types.

Elemental abundance is not necessarily conclusive with regard to environmental availability (i.e., leaching). Elements that form sparingly soluble minerals or are included in them may not leach at concentrations that are strongly elevated and/or above environmental significance (i.e., statutory regulations or guidelines). Conversely, other elements may leach from materials where they are present at relatively low concentrations if their host minerals are soluble resulting in elevated aqueous concentrations.

Table 4.1 Elements Found in Excess of Three Times High Calcium Granite

ELEMENT	3X HIGH CALCIUM GRANITE ABUNDANCE (mg/kg)
Ag	0.15
As	5.7
Co	21
Cr	66
Cu	90
Ni	45
Se	0.15

Notes:
Source: Price (1997)

Figure 4.1 and Figure 4.2 show the DDH database Au and the ARD/ML program Au data, respectively, for all lithologies. In general, statistical summaries are similar for both data sets confirming a waste classification. Figure 4.3 to Figure 4.9 summarise the statistics for the elements of significance. The variation in the suite of significant elements indicates potential releases may occur at neutral pH (i.e., As, Se), acidic pH (i.e., Co, Cu, Ni) and redox dependant (i.e., As, Cr) conditions. However, the initial solubility will be controlled by the mineral host-phase stability and elemental association (i.e., sorbed or incorporated into the mineral structure) at variable pH-redox conditions. Other controls likely to play a role in controlling element availability from source host mineral-phases include secondary mineral precipitation, co-precipitation and sorption. These are key attenuating mechanisms in solid-aqueous systems for the elements described above.

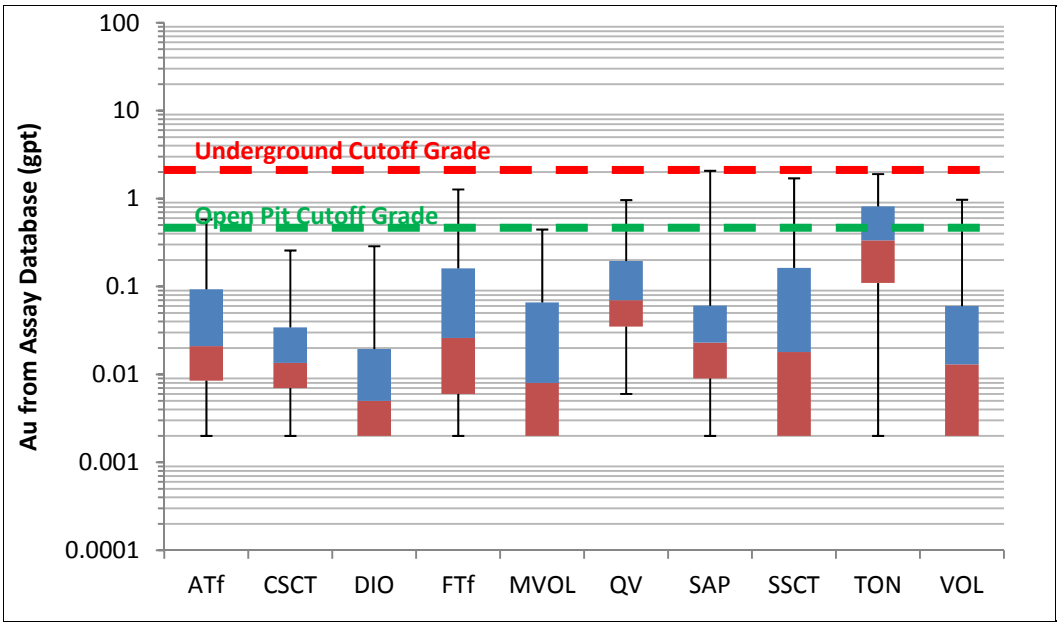

Figure 4.1 Solid-phase Au concentrations from Aurora DDH assay database (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three times high calcium granite Au not available.

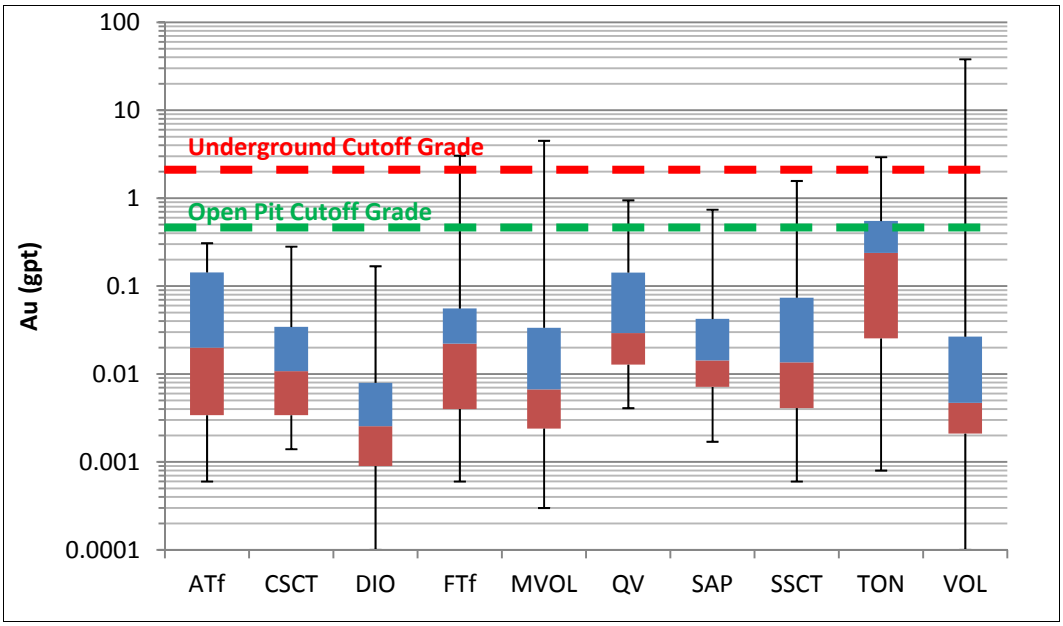

Figure 4.2 **Solids-phase Au concentrations from ARD/ML database (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three times high Calcium granite Au not available.**

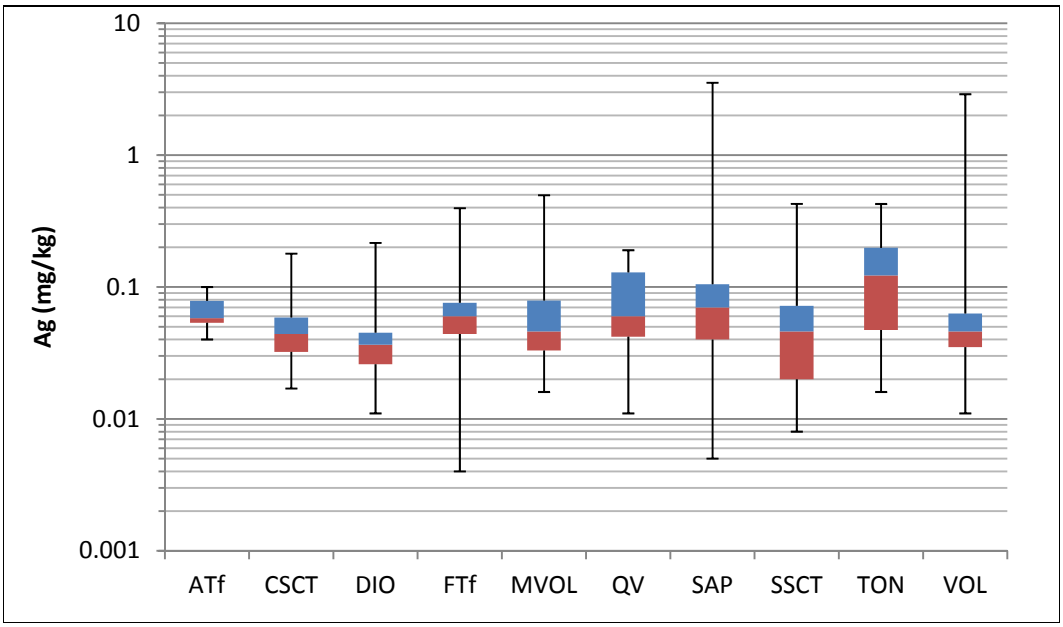

Figure 4.3 **Solid-phase silver (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three times high calcium granite Ag = 0.15 mg/kg.**

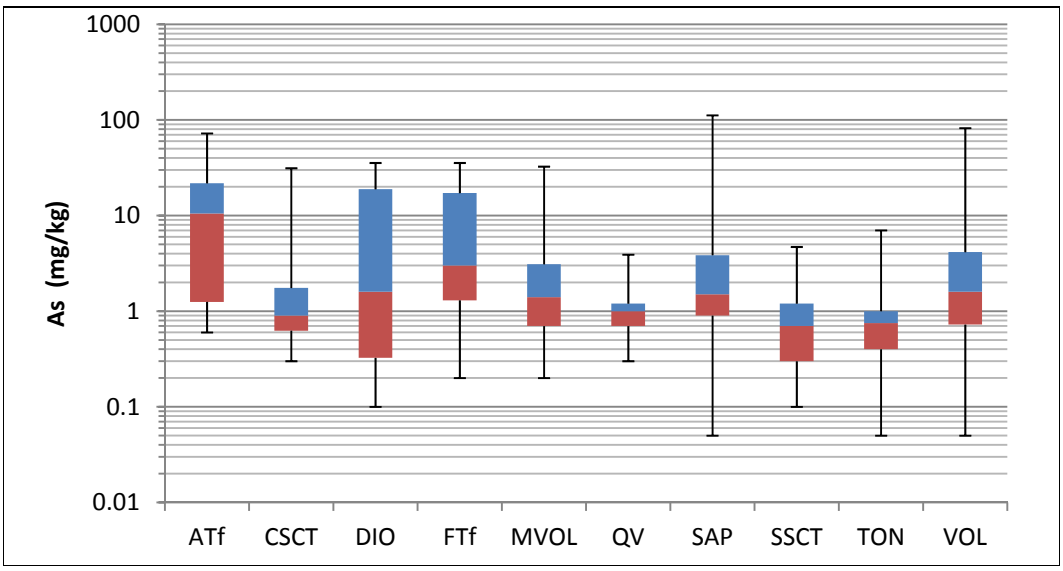

Figure 4.4 **Solid-phase arsenic (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three time high calcium granite As = 5.7 mg/kg.**

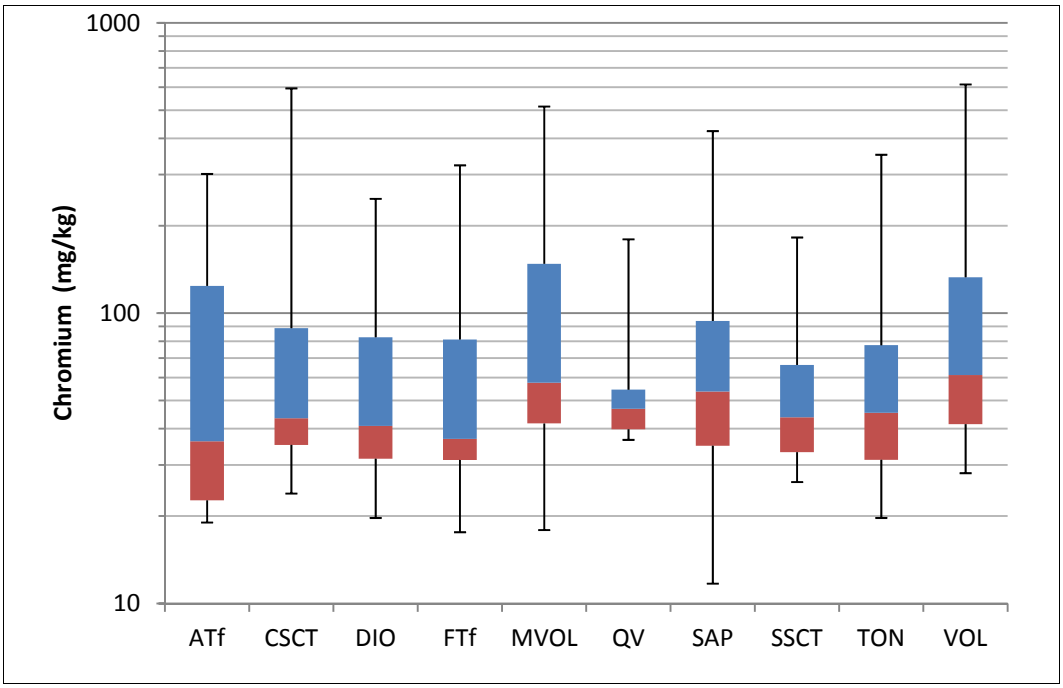

Figure 4.5 **Solid-phase chromium (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three time high calcium granite Cr = 66 mg/kg.**

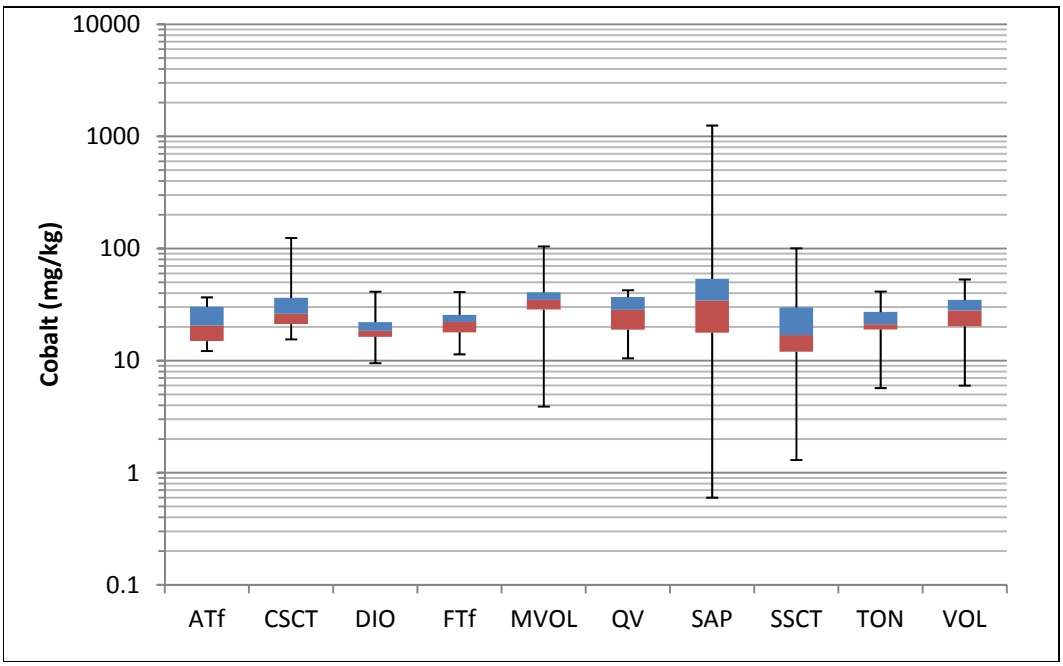

Figure 4.6 **Solid-phase cobalt (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three time high calcium granite Co = 21 mg/kg.**

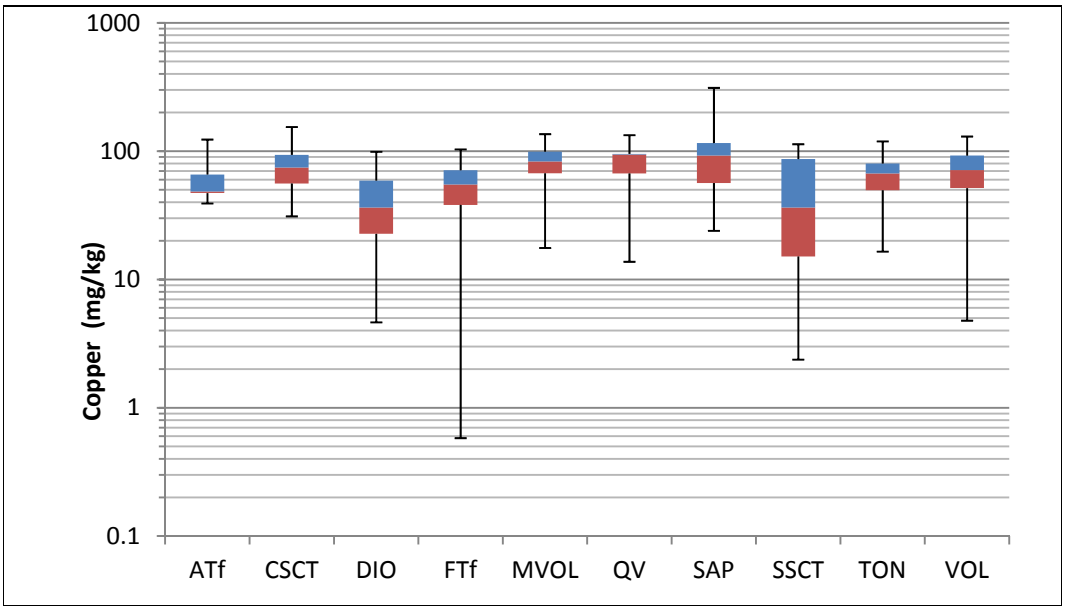

Figure 4.7 **Solid-phase copper (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three time high calcium granite Cu = 90 mg/kg.**

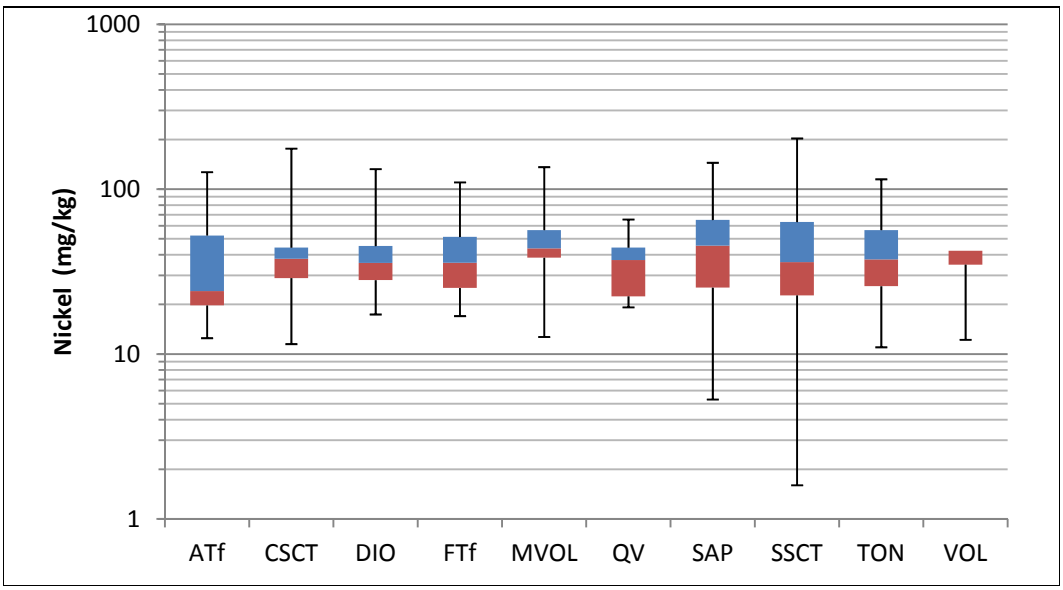

Figure 4.8 **Solid-phase nickel (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three time high calcium granite Ni = 45 mg/kg.**

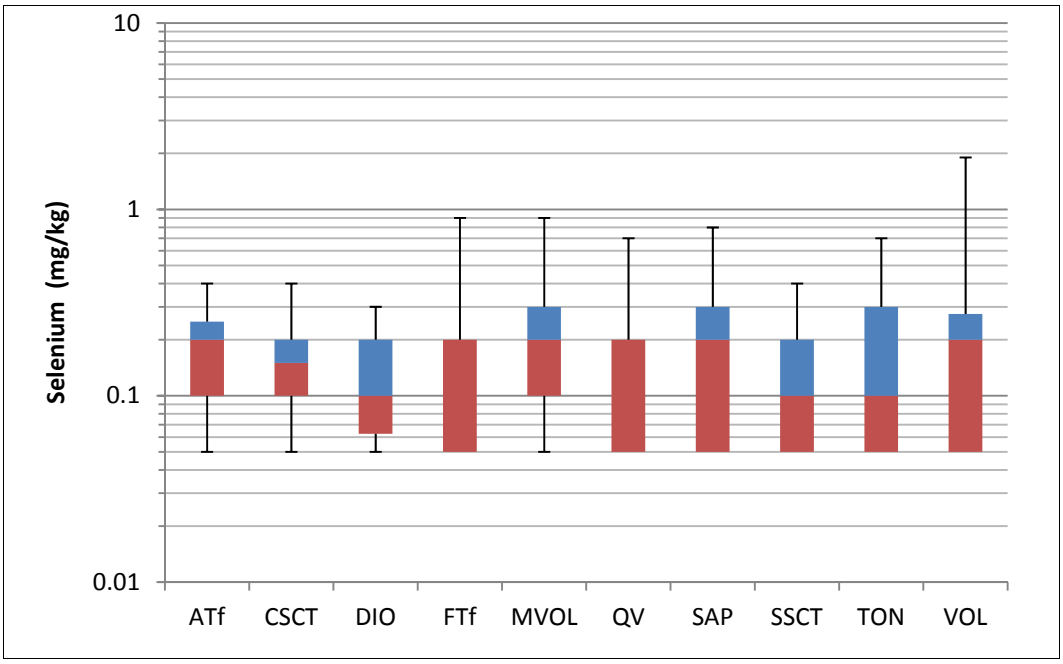

Figure 4.9 **Solid-phase selenium (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum). Three time high calcium granite Se = 0.15 mg/kg.**

4.2 Acid-Base Accounting

Acid-base Accounting (ABA) evaluates the acid generating potential (AP) and neutralizing potential (NP) of solid-phase materials.

Sulphur speciation (sulphide by HNO_3-leaching and sulphate by HCl-leaching) in combination with total sulphur by LECO allow for the determination of the acid producing minerals, the majority originating from the sulphide portion and minor amounts psossibly from the sulphate component if the materials is previously weathered.

The AP is determined from the total-sulphur or sulphide-sulphur content of the sample and can be further defined as the sulphide-based AP (SAP). The calculation assumes that all the sulphide-sulphur measured in the sample occurs as pyrite (FeS_2) and that the pyrite reacts under oxidizing conditions to produce acidity. The SAP is presented as kg $CaCO_3$ eq/tonne (MEND 2009).

The carbonate NP (Inorg-CANP) can be calculated based on the inorganic carbon content of the sample. This test assumes that all carbonate reacts like calcite and is a measure of the maximum theoretical neutralization potential from calcite. The "effective" Carb-NP may be overestimated for some materials because of the presence of ferroan-carbonates (i.e., siderite, ankerite). Ferroan-carbonates have a zero net NP, due to the oxidation of ferrous iron that consumes alkalinity produced during ferroan-carbonate dissolution.

The Total NP is determined by the Modified Sobek (MS) method (Sobek 1978; Coastech 1990), which involves the addition of a known quantity of hydrochloric acid (HCl) to a known mass of sample followed by a back titration with sodium hydroxide (NaOH). The Modified Sobek (bulk) Neutralization Potential (MS-NP) includes all bulk NP sources including short-term "effective" carbonate and long-term silicate buffering (hydrolysis of clays and feldspars). Note that this is an extended digestion (24 hrs) designed to ensure all NP is fully reacted with HCl. The amount of acid consumed by the sample is then calculated as a kg $CaCO_3$ eq/tonne.

The ratio of MS-NP to SAP is referred to as the Sulphide-based Net Potential Ratio (SNPR). The balance between the MS-NP and the SAP is the basis for determining the potential for materials to generate acid or not.

Figure 4.10 to Figure 4.13, summarise the ABA data to-date. Results show that waste rock samples are low in sulphide-sulphur. Conversely, both MS-NP and Inorg-CaNP, are relatively very high (Figure 4.11). However, higher Inorg-CaNP indicates the presence of net neutral carbonates, likely iron or manganese species previously mentioned that do not provide effective NP. The speciation of these carbonates will be confirmed via quantitative mineralogy during the kinetic testing phase of the ARD/ML characterization program. Therefore, the MS-NP is used in the calculation for the classification of samples as an appropriate conservative approach at this time.

Although, the median paste pH for the entire saprolite data set (n = 59) is ~ pH 6.5 (not shown, see the Appendix). A portion of the paste pH's (Figure 4.13) are currently acid generating (pH < 6.0). Note that the deionised water used in the paste pH analyses ranged between pH 5.7 and pH 5.9. Therefore, results for the acidic saprolite samples indicate a small release of previous weathering products that slightly depress the deionised water pH starting point. All other paste pH values are alkaline (Figure 4.12) reflecting the presence of effective carbonate buffering.

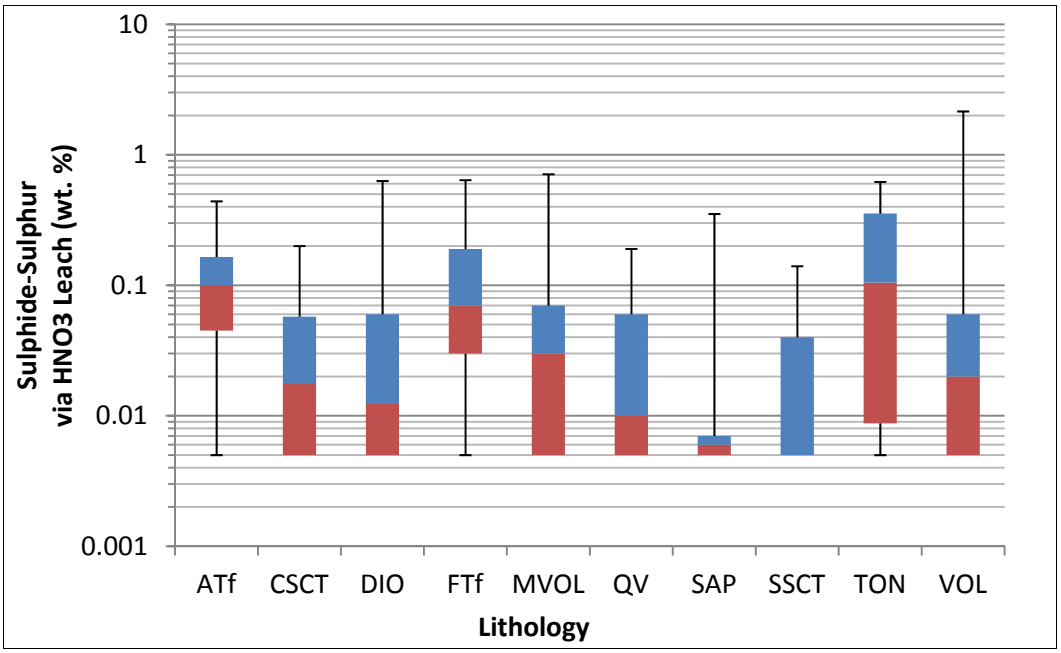

Figure 4.10 Sulphide-sulphur content (upper whisker indicates maximum, upper blue box indicates 3rd quartile, intersection of blue and ochre boxes indicates median, lower ochre box indicates 1st quartile, lower whisker indicates minimum)

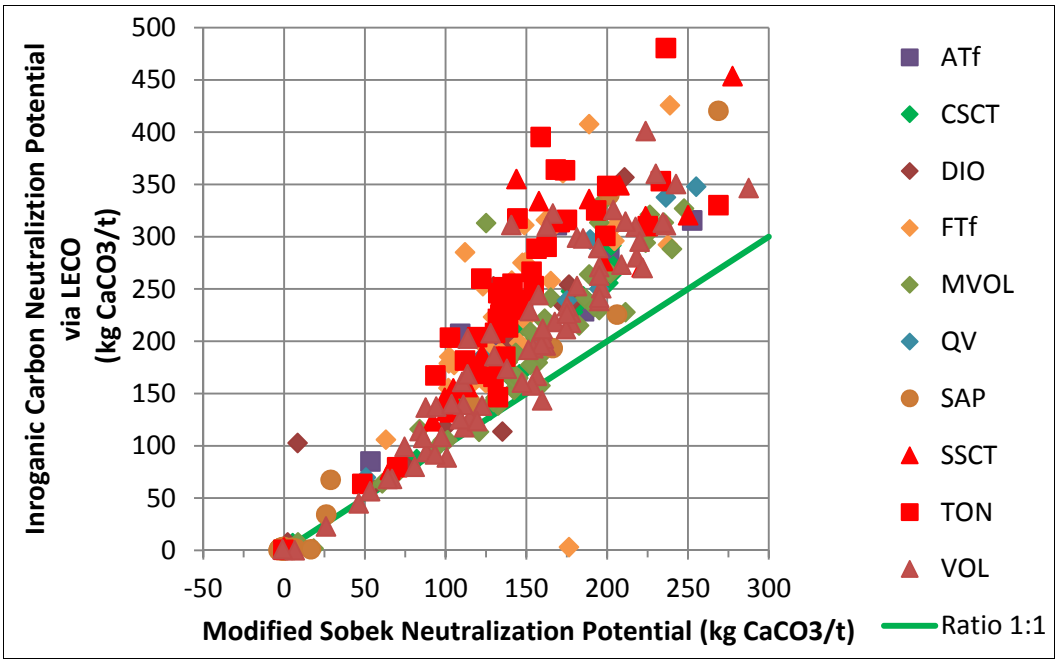

Figure 4.11 Modified-Sobek-Neutralization Potential vs Inorganic Carbon Neutralization Potential

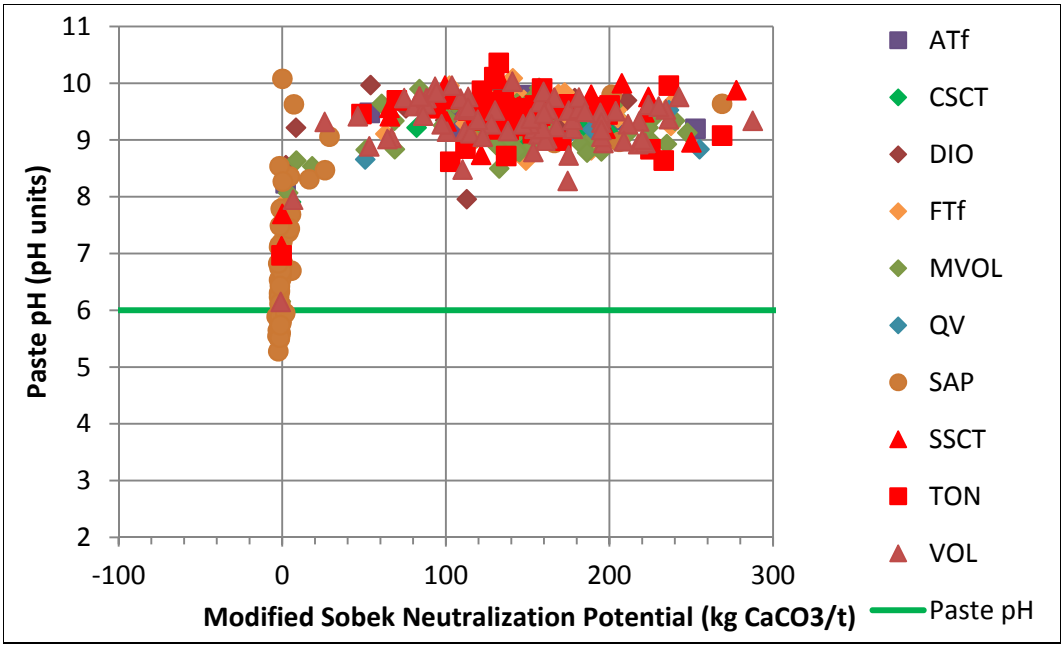

Figure 4.12 Modified-Sobek-Neutralization Potential vs paste pH

Non site-specific screening criteria, based on the Sulphide-sulphur Net Potential Ratio (SNPR) values have been developed to assess the risk for potential acid generation (Table 4.2).

Table 4.2 Acid-base Accounting Screening Criteria

CLASSIFICATION	POTENTIAL FOR ARD	INITIAL SCREENING CRITERIA	COMMENTS
Potentially Net Acid Generating (PAG) or Acid Generating (AG)	Likely	SNPR < 1	Likely ARD generating unless sulphide materials are non-reactive.
Uncertain and requires further characterisation	Uncertain	1 =< SNPR < 2	Possibly ARD generating if NP is insufficiently reactive or is depleted at a faster rate than sulphides.
Not-Potentially Acid Generating (N-PAG)	Low	SNPR >= 2	Not potentially ARD generating unless significant preferential exposure of sulphides along fracture planes, or extremely reactive sulphides in combination with insufficiently reactive NP.

Source: MEND 2009

These criteria are in turn based on the stoichiometry of one to two moles of carbonate required to maintain near neutral conditions during pyrite oxidation as per Equation 4.1 to Equation 4.3.

$$FeS_{2(s)} + 3.75O_{2(g)} + 3.5H_2O_{(l)} \rightarrow Fe(OH)_{3(s)} + 2SO_4^{2-}{}_{(aq)} + 4H^+_{(aq)}$$

Equation 4.1 Pyrite Oxidation by oxygen and water

$$2CaCO_{3(s)} + 4H^+_{(aq)} \rightarrow 2Ca^{2+}_{(aq)} + 2H_2O + 2CO_{2(g)};\ pH < 6.3;\ MS\text{-}NP/SAP = 2$$

Equation 4.2 Calcite dissolution at pH < 6.3

$$2CaCO_{3(s)} + 2H^+_{(aq)} \rightarrow 2Ca^{2+}_{(aq)} + 2HCO_3^-{}_{(aq)};\ pH > 6.3;\ MS\text{-}NP/SAP = 1$$

Equation 4.3 Calcite dissolution at pH > 6.3

The sulphide-sulphur content was used to determine the Sulphide-based Acid Potential (SAP) discussed previously. In order to determine the most conservative approach for a SAP value, a QA/QC mass-balance equation (Morin and Hutt 1997) for sulphur species determined analytically is shown in Equation 4.4.

$$\%S(del_{actual}) = \%S(Total) - \%S(HNO_3\text{-leachable sulphide}) - \%S(HCl\text{-leachable sulphate}) - \%S(BaSO_4)$$

Equation 4.4 $\%S(del_{actual})$

Large negative values of $\%S(del_{actual})$ indicate the sum of sulphur species exceeds the measured total sulphur, primarily due to analytical inaccuracy and detection limits. Large positive values indicate either:

1. Total sulphur was overestimated; or
2. One or more sulphur species were underestimated.

S (del_{actual}) values range from -0.035 to 0.77% for all Aurora samples. Therefore, positive values were added to HNO_3 leachable sulphide as "unaccounted sulphur" for an overall SAP calculation.
Figure 4.13 shows the classification based on the ABA data and indicates, in general, all waste rock samples are N-PAG. The main exception is ~25% of SAP samples, which have slightly acidic paste pH values. In addition, minor amounts of Diorite sample (2%) are classified as PAG. Therefore, the large majority of the geochemical water-rock interactions (i.e., leachate testing) for the expected waste rock lithology samples are expected to operate at near neutral pH conditions.

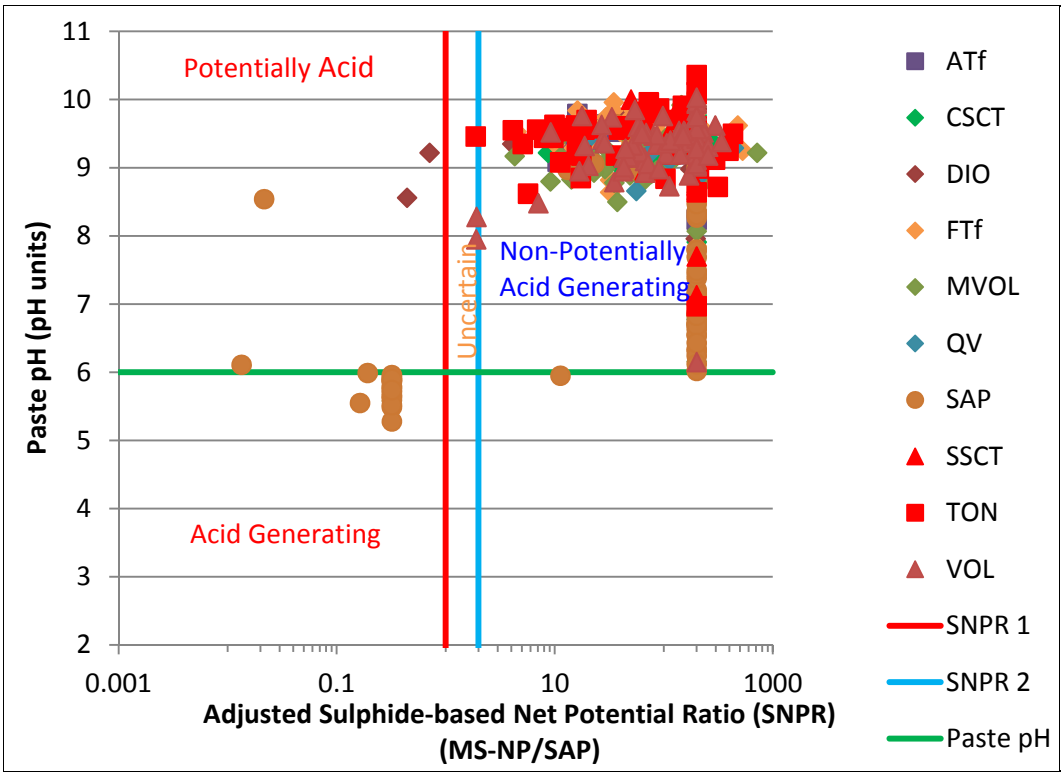

Figure 4.13 Adjusted Sulphide-sulphur based Net Potential Ratio vs paste pH

4.3 Shake Flask Extraction

The Shake Flask Extraction (SFE) test identifies elements released from the samples by water extraction and provides an indication of the immediate solubility. Soluble constituents may include elements in secondary surface coatings and soluble primary minerals. The sample is placed in a flask using 3:1 de-ionized water to solid ratio by weight and shaken for 24 hours end-over-end. The greater volume of water generally ensures that the solubility limits do not inhibit the dissolution of minerals. Gentle agitation keeps the sample particles continuously exposed on all surfaces to the extraction fluid. After agitation, the sample is left to settle and the supernatant from the SFE is filtered and sent for a multi-element analysis by ICP-/MS.

The SFE test provides an indication of the contact leaching potential under short term material agitation This does not specifically relate to field conditions but will provide an indication of the parameters of interest in the field and potential short-term loadings, depending on the condition of the sample (weathered or unweathered). Further laboratory and/or field kinetic testing is required to assess the actual elemental loading rates under site-specific field conditions for accurate water quality predictions.

Selected samples were chosen for SFE testing. Considerations included average and 95th percentile sulphide-sulphur (Section 4.2) as well as solid-phase elemental concentrations (Section 4.1).

Figure 4.14to Figure 4.19 summarises the SFE testing. Entire results can be found in the Appendix. Figure 4.14 results show leachate pHs are alkaline, with the exception of saprolite samples, and consistent with paste pH results discussed in Section 4.2. Figure 4.15 shows that the electrical conductivity, an indication of the soluble ions in solution, is generally low, with the exception of some tonalite and ash tuff samples. Figure 4.16, Figure 4.17 and Figure 4.18 indicate that the majority of the soluble parameters are the major cations (Ca, Mg, Na, K and Si) with minor amounts of sulphate. The very low sulphate release also indicates minimal sulphide oxidation has occurred during the testing procedure and does not correlate with the initial sulphide content. This is consistent with ABA results and near-neutral to alkaline leaching conditions developed during the extraction procedure. Figure 4.19 shows the total contribution from the solid-phase elements of significance discussed in Section 4.1and indicates low releases.

Note that these results cannot be used as a replacement for kinetic loading rates but are merely intended to provide indication of readily water soluble constituents from mineable material.

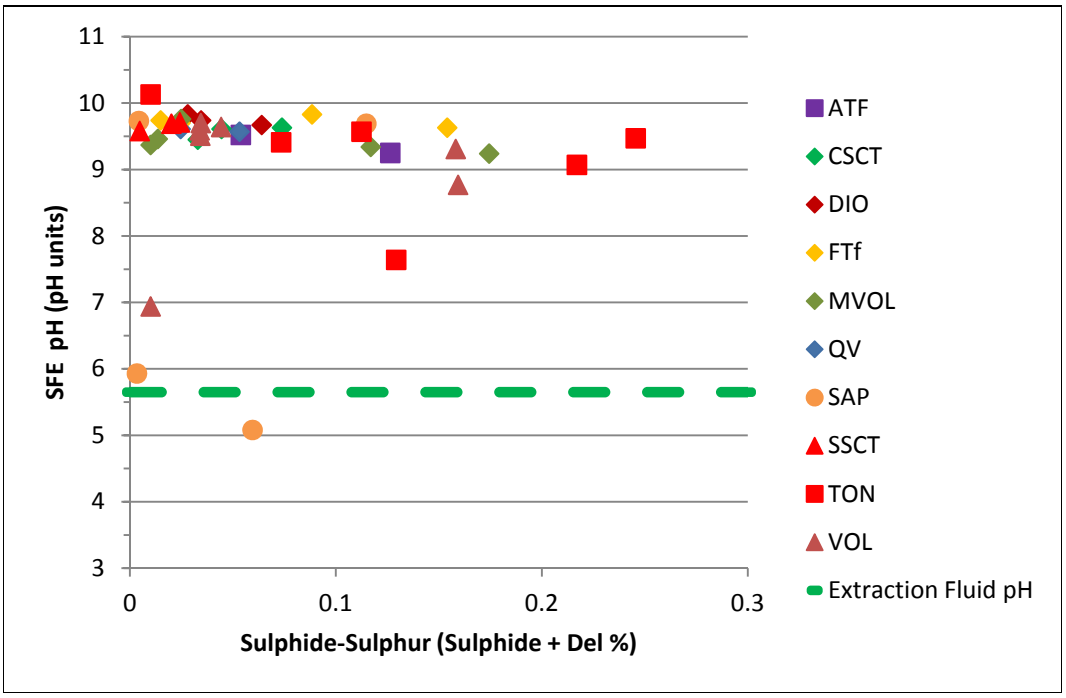

Figure 4.14 SFE leachate pH vs sulphide-sulphur

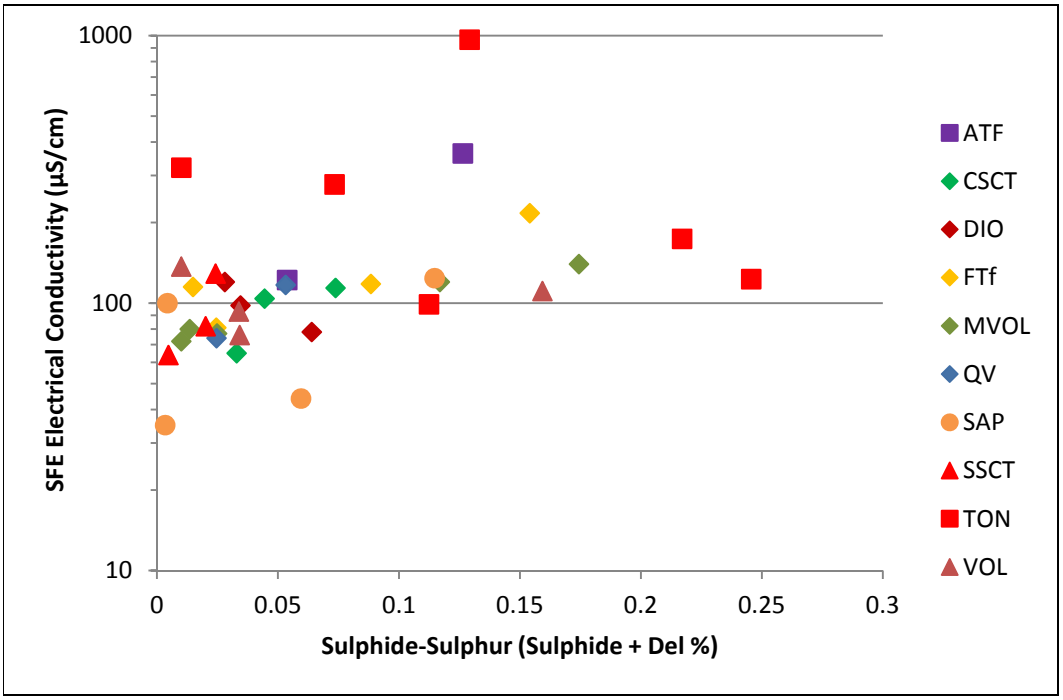

Figure 4.15 SFE leachate electrical conductivity vs sulphide-sulphur.

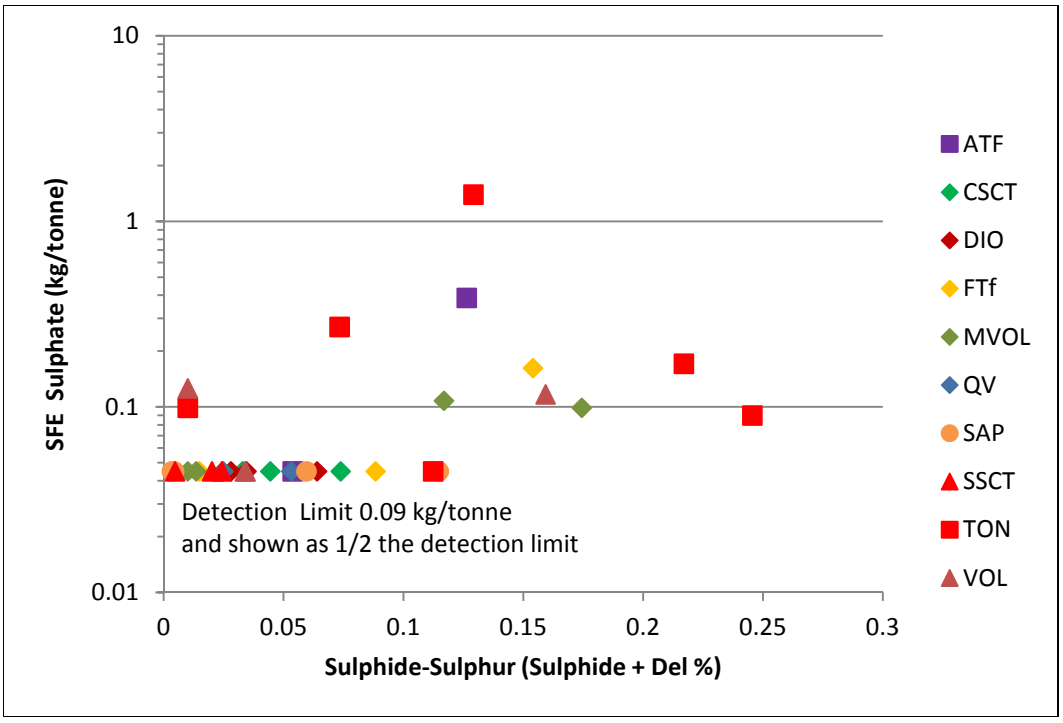

Figure 4.16 SFE leachate sulphate vs sulphide-sulphur.

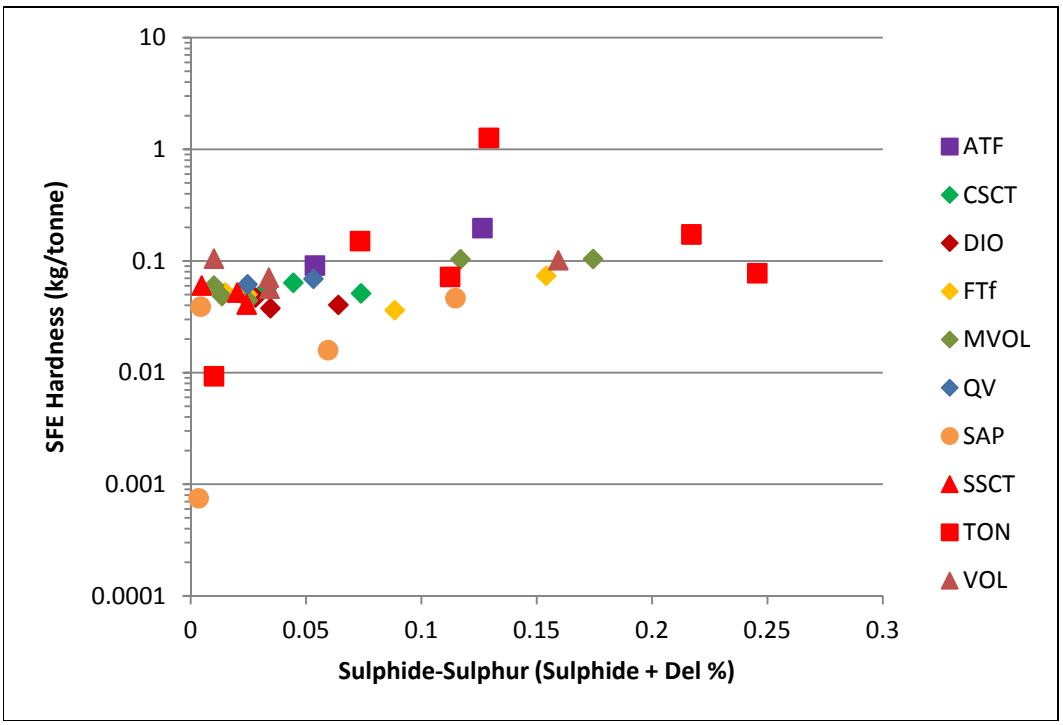

Figure 4.17 SFE leachate hardness vs sulphide-sulphur.

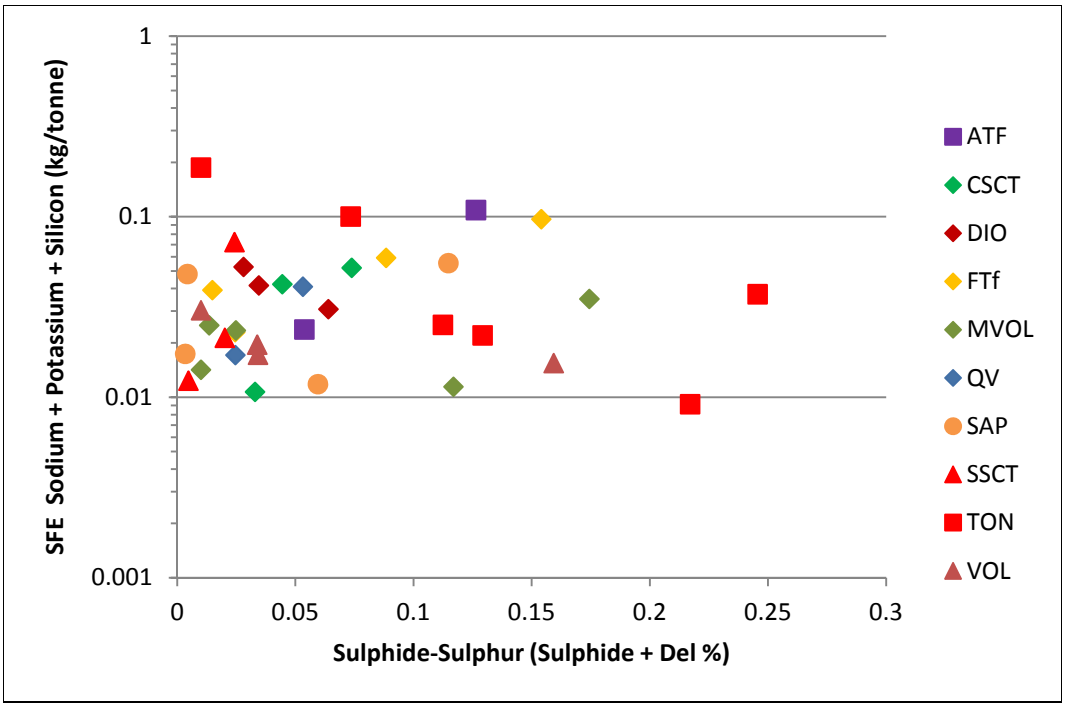

Figure 4.18 SFE leachate sodium + potassium + silicon vs sulphide-sulphur.

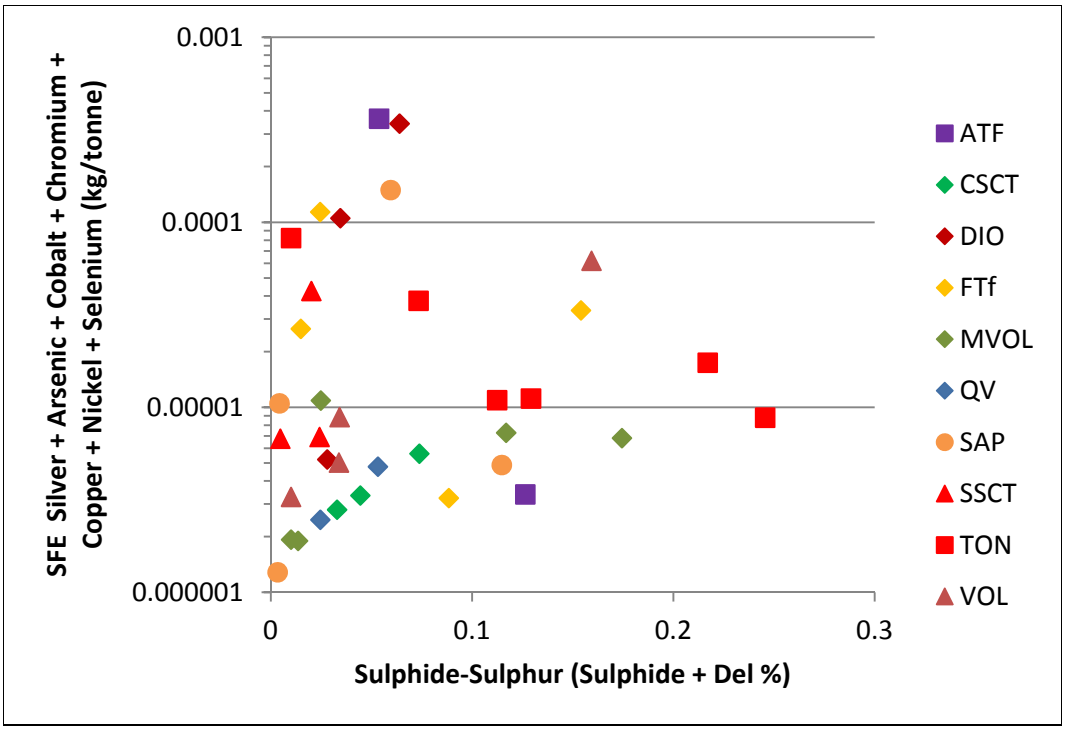

Figure 4.19 SFE leachate silver + arsenic + cobalt + chromium + copper + nickel + selenium vs sulphide-sulphur.

4.4 Net Acid Generating Analyses

The following is summarized from MEND (2009).

The Net Acid Generation (NAG) test uses hydrogen peroxide (H_2O_2), a strong oxidizing agent that rapidly oxidizes sulphide minerals in a hot bath. Equation 4.5 illustrates the oxidation of pyrite by H_2O_2 above approximately pH 3.5.

$$FeS_{2(s)} + 7.5H_2O_{2(aq)} \rightarrow Fe(OH)_{3(s)} + 4H_2O_{(l)} + 2SO_4^{2-}{}_{(aq)} + 4H^+{}_{(aq)}$$

Equation 4.5 Pyrite oxidation by peroxide

The main purposes of the test are to:

1. Assess whether a sample is capable of neutralizing the acid produced by sulphide oxidation or is net acid producing; and

2. Determine laboratory-scale end member pH after all neutralization has been consumed by sulphide oxidation via the addition of hydrogen peroxide.

Note that item two above represents end-member pH values at laboratory conditions and serve as a conservative guide. Expected field pH values will differ as the details of the weathering and acidity buffering processes under site-specific field conditions will be different.

Sample classification based on the final NAG pH is provided below. Note that the N-PAG classification includes materials that are weakly acidic.

- Not Potentially Acid Generating (N-PAG) if NAG pH > 4.5;
- Potentially Acid Generating (PAG) if NAG pH < 4.5; and
- Acid generating (AG) if NAG pH < 4.5 and paste pH is < ~ 6.

The acidity of the NAG liquor indicates the net amount of un-neutralized acidity produced per unit weight of samples. The titration value at pH 4.5 includes acidity due to free acid (H_2SO_4) as well as soluble Fe and Al. The titration value at pH 7 also includes metallic ions that precipitate as hydroxides at pH between 4.5 and 7 and the acidity of hydrogen peroxide. NAG leachate elemental analyses indicate the total release due to mineral oxidation (i.e., minerals with reduced valences) only.

Selected samples were chosen for NAG testing. Considerations included average and 95th percentile sulphide-sulphur (Section 4.2) as well as solid-phase elemental concentrations (Section 4.1).

Results show that NAG pH values range from 3.8 to 11.6, however the large majority are alkaline. Note that the minimum BAG pH was produced from a saprolite sample possible from the release of stored weathering products or remnant sulphides. Note that NAG pHs are generally higher and lower than the SFE pHs due to the heating applied in the NAG testing resulting in a more aggressive water-rock interactions. According to the classification scheme noted above, all samples can be classified as N-PAG with the exception of the one saprolite sample. This is in agreement with ABA results discussed in Section 4.2. In addition, NAG pHs are not correlated with the samples initial solid-phase sulphide due to the low concentrations of sulphide and relatively large NP buffering the small amount of sulphide oxidation reactions. Figure 4.21 indicates illustrate the sulphide oxidation products, as well as the release of previously weathered sulphide to sulphate in saprolite samples. As expected, there is a positive correlation with solid-phase sulphide-sulphur.

Figure 4.22 to Figure 4.25 summarises the NAG testing elemental releases. Entire results can be found in the Appendix. Figure 4.22 shows that the electrical conductivity, an indication of the soluble ions in solution, is generally low. Figure 4.23, Figure 4.24and Figure 4.25 indicate that the majority of the soluble parameters are the major cations (Ca, Mg, Na, K and Si) and sulphate where samples have relatively higher sulphide-sulphur content. Figure 4.25 shows the total contribution from the solid-phase elements of significance discussed in Section 4.1and indicates

low releases. This is consistent with the SFE results, however this analytical procedure is an aggressive test designed to reach end-member sulphide oxidation conditions over a very short period of time. It does not provide the kinetic rates these elements would be released at under field conditions.

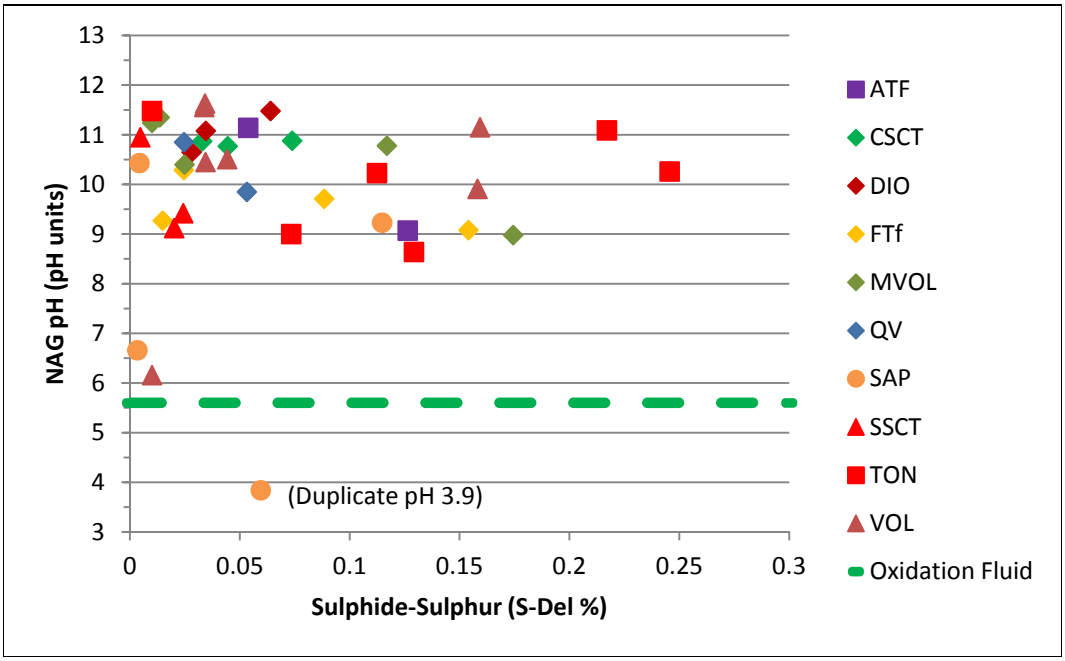

Figure 4.20 NAG leachate pH vs sulphide-sulphur

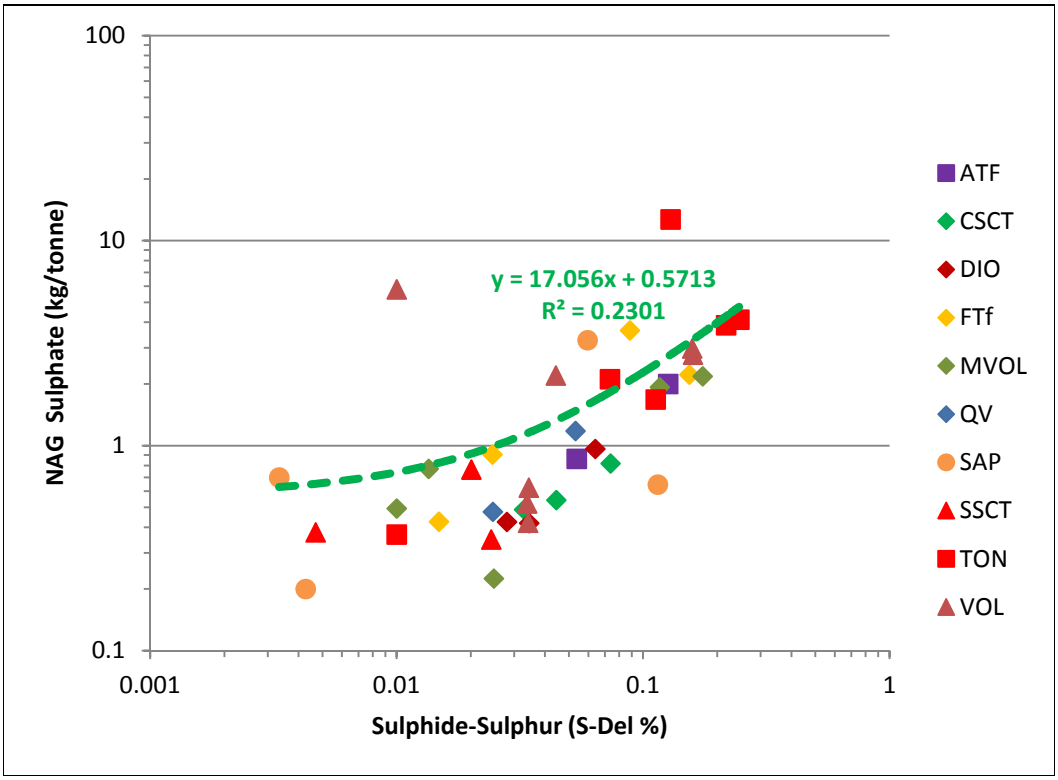

Figure 4.21 NAG leachate sulphate vs sulphide-sulphur

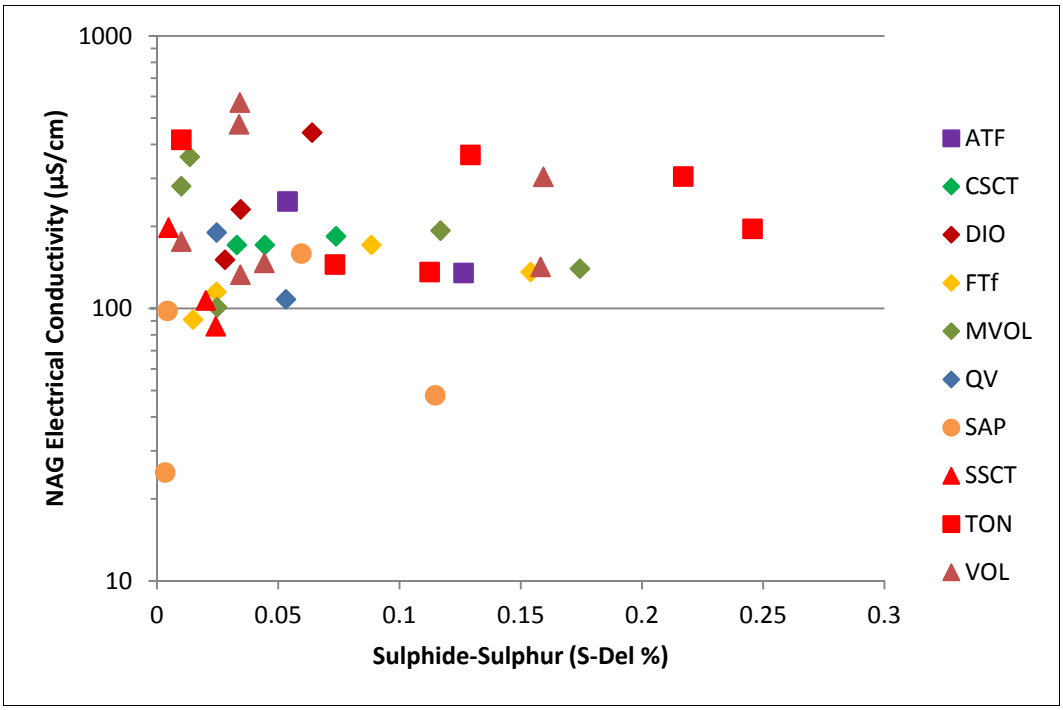

Figure 4.22 NAG leachate electrical conductivity vs sulphide-sulphur

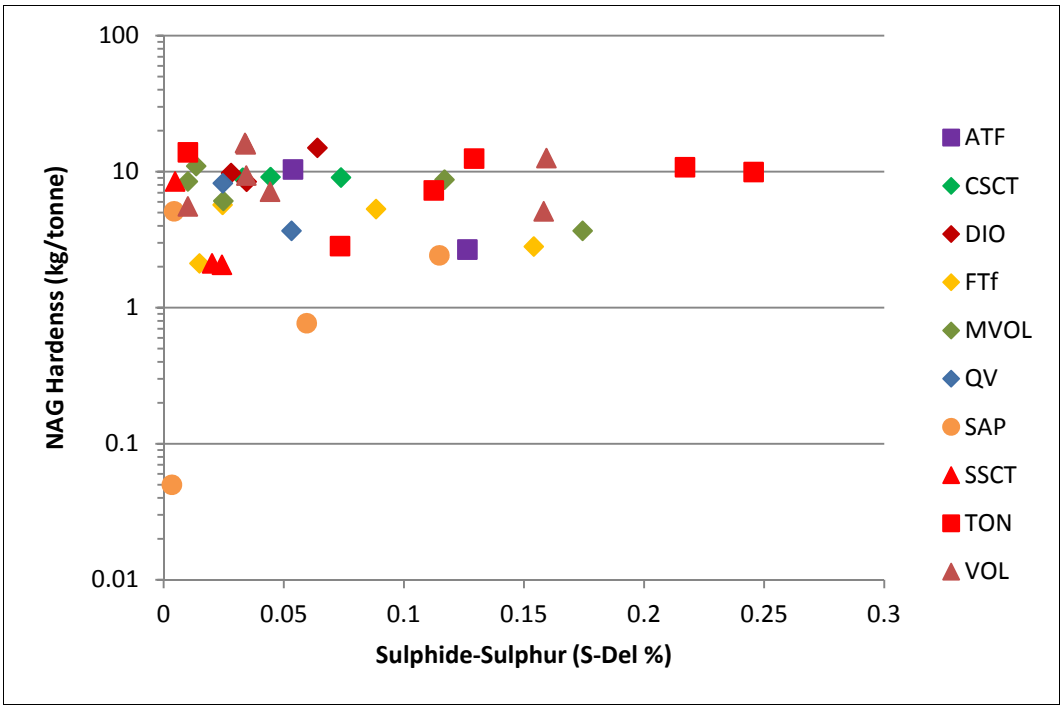

Figure 4.23 NAG leachate hardness vs sulphide-sulphur

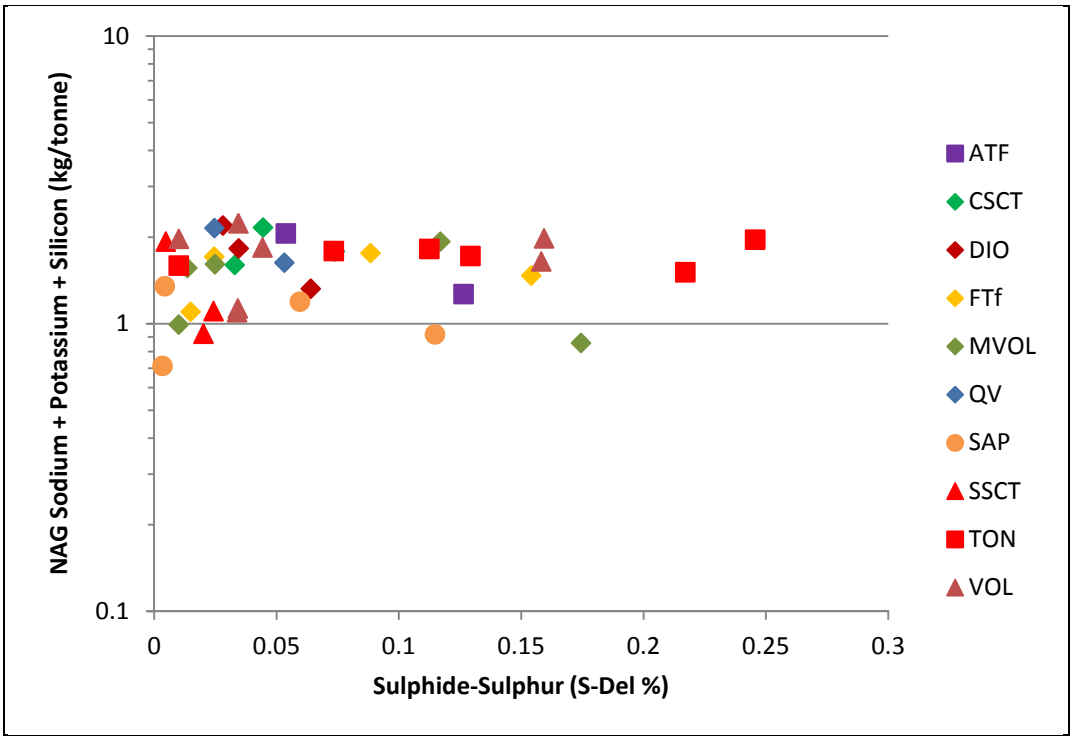

Figure 4.24 NAG leachate sodium + potassium + silicon vs sulphide-sulphur

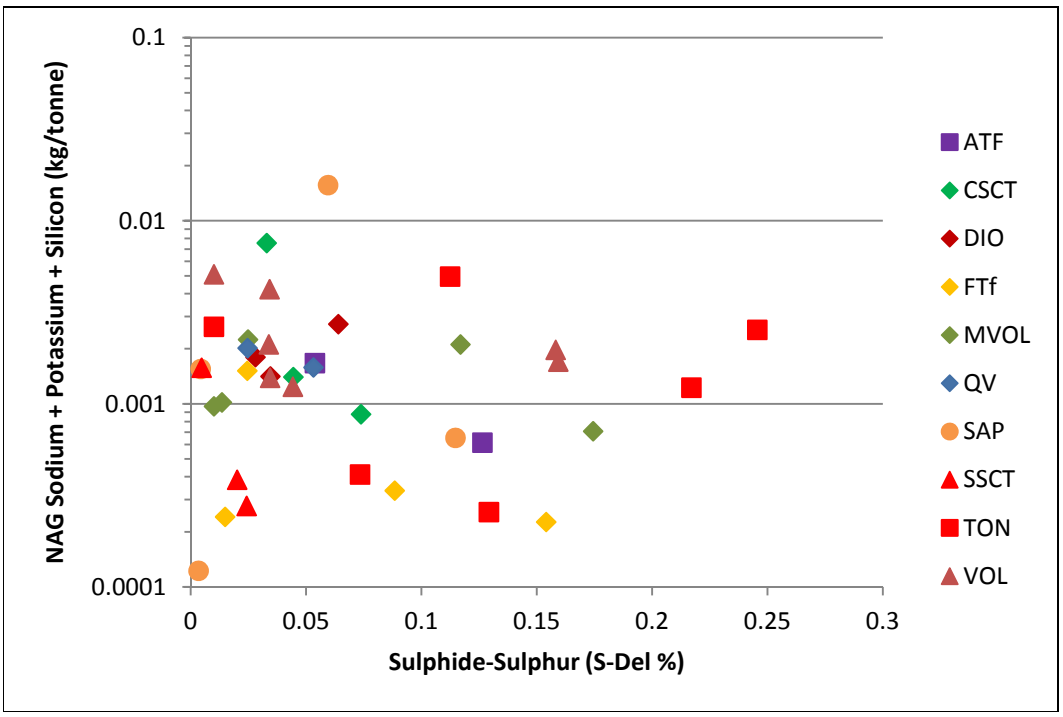

Figure 4.25 NAG leachate silver + arsenic + cobalt + chromium + copper + nickel + selenium vs sulphide-sulphur

5. CONCLUSIONS

- 348 samples were collected spanning the main lithologies/alterations identified in the DDH database. These lithologies include chlorite schist, diorite, felsic tuff, meta-volcanic, quartz vein, saprolite, sericite schist, tonalite and volcanic;
- Solid-phase metal concentrations in excess of three times crustal abundance considered anomalous include those for Ag, As, Co, Cr, Cu, Ni and Se;
- Total sulphide concentrations range from 0.01 to 2.9 wt. %;
- Sulphate-sulphur concentrations range from 0.01 to 0.30 wt. %;
- Sulphide-sulphur concentrations range from 0.01 to 2.1 wt. %;
- Paste pH values range from 5.3 to 10.4 and indicate the majority of samples are not currently generating acidity;
- The Modified Sobek-Neutralization Potential (MS-NP) ranged from -3.5 to 288 kg $CaCO_3$/tonne and is considered relatively high. The exception is for the

saprolite samples that have been extensively leached and provide little acidity buffering;

- The carbonate NP (Inorg-CaNP) is also considered relatively high and ranges 0.23 to 478 kg $CaCO_3$/tonne and is often higher than MS-NP indicating the presence of net-neutral ferroan or manganese carbonates that do not provide effective acidity buffering.

- MS-NP is used in materials classification as an appropriate conservative approach at this point in time.

- Materials classification for all lithologies/alteration types is Not-Potentially Acid Generating (N-PAG) with a small proportion of saprolite and diorite samples plotting as Acid Generating (AG) and Potentially Acid Generating (PAG);

- Shake Flask Extractions (SFE) pH values are generally alkaline and ranged from pH 5.1 to 10.1 Testing showed relatively low release of soluble elements and are primarily the major cations;

- Net Acid Generating (NAG) analyses confirm the N-PAG classification developed by the Acid-base Accounting (ABA) calculations. End member NAG pH values range from 3.8 to 11.6 and are not correlated to the initial sulphide-sulphur content. However, sulphate releases are and indicate total sulphide-sulphur oxidation acidity release is adequately buffered by available NP. The exception is one saprolite sample;

- Samples were selected for humidity cell testing based on the median and 95th percentile sulphide-sulphur concentrations for all lithologies/alteration types. Additional characterization includes X-Ray Diffraction analyses with Rietveld refinement, particle size analyses and supplemental SFE and NAG testing;

- Once enough kinetic test data is available, interpretations presented in this memo will be expanded in order to provide;

    - estimates of NP and sulphide depletion for lag times to acidity calculations; and

    - leachate elemental loading rate estimates and interpretations for use in water quality modeling.

6. RECOMMENDATIONS

- Input ARD/ML data in the current resource block model to produce a geochemical block model;
- Identify AG or PAG sample locations within the block model and assess risk;
- Update waste/water management strategies if above risk is deemed significant;
- Investigate ARD/ML properties at the ore/waste boundaries with high resolution sampling to:
    - Conduct sensitivity analyse in the geochemical block model to determine the risk of low grade inclusion into waste; and
    - update waste/water management strategies if required.

7. LIMITATIONS

Any and all recommendations, reports, plans, specifications, drawings and designs furnished by Klohn Crippen Berger will be prepared on the assumption that any and all information supplied to Klohn Crippen Berger by Guyana Goldfields, or by others on behalf of or on the instructions of Guyana Goldfields, is correct and accurate, and Klohn Crippen Berger shall not be liable for any loss, cost, expense or damage arising from or as a result of the incorrectness or inaccuracy of such information. Guyana Goldfields shall, upon such incorrectness or inaccuracy coming to its attention, notify Klohn Crippen Berger thereof and Klohn Crippen Berger shall be entitled to make any corrections, alterations or changes in the plans, specifications, drawings or designs, prepared on the basis of such incorrect or inaccurate information, at Guyana Goldfields's expense.

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The *third party* shall, to the fullest extent permitted by law, waive any claim against KCB, and indemnify, defend, and hold KCB harmless from any claim or liability for injury or loss allegedly arising from any third party's use of the data.

Yours truly,

KLOHN CRIPPEN BERGER LTD.

Claudio Andrade, B.Sc. (Comb. Hons.), M.Sc.
Geochemist and Project Manager

8. REFERENCES

Coastech Research Inc., 1990. Acid Rock Drainage Prediction Manual: A Manual of Chemical Evaluation Procedures for the Prediction of Acid Generation from Mine Wastes. November 30, 1990.

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Price, W.A., 1997. *Draft Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Minesites in British Columbia*.

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SRK 2011. Mineral Resource Evaluation Aurora Gold Project, Guyana. Report prepared for Guynan Goldfields Inc. Project Reference Number 3CG014.004. April 14, 2011

APPENDIX I

Lab Data

Canadian Association for Laboratory Accreditation Inc.

CALA

Certificate of Accreditation

Maxxam Analytics (Burnaby, Canada Way)
Maxxam Analytics International Corporation
4606 Canada Way
Burnaby, British Columbia

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Accreditation No.:	A2168
Issued on:	December 21, 2010
Accreditation Date:	January 3, 2005
Expiry Date:	December 21, 2013

Chief Executive Officer

ilac-MRA CALA

LAB	ARD/ ML LAB SAMPLE	CLIENT ASSAY	CLIENT ASSAY	DRILLHOLE/ TEST PIT	INTERVAL				DRILL	SAMPLE	
ID	ID	ID (Simple)	ID (Extended)		From (m)	To (m)	Length (m)	Depth Average (m)	Year	Type	Lithology
BUCKET 23 109604	151	109604	AC09-109604	NAHD-51	78	81	3	79.5	12/5/2009	Reject	AP
BUCKET 1 109895	12	109895	AC09-109895	NAHD-60	80	83	3	81.5	2009	Reject	ATf
BUCKET 13 164190	6	164190	AC10-164190	EWD-55	89	92	3	90.5	2010	Reject	ATf
BUCKET 14 14082	20	14082	14234	RKD-32	32	35	3	33.5	2005	Reject	ATf
BUCKET 14 35211	12	35211	AC08-35211	SMKD-17	98	100	2	99	7/31/2008	Reject	ATf
BUCKET 16 12881	47	12881	12881	RKD-26	171.89	173.89	2	172.89	2005	Reject	ATf
BUCKET 16 20465	52	20465	20465	RKD-47	125.5	127.35	1.85	126.425	2005	Reject	ATf
BUCKET 18 13944	72	13944	13944	RKD-30	170	173	3	171.5	2005	Reject	ATf
BUCKET 22 9528	131	9528	9528	RKD-35	82.95	84.5	1.55	83.725	2005	Reject	ATf
BUCKET 23 109595	156	109595	AC09-109595	NAHD-51	60	62	2	61	12/5/2009	Reject	ATf
BUCKET 3 747753	37	747753	AC09-747753	RKD-147	190	192	2	191	2009	Reject	ATf
BUCKET 3 747731	45	747731	AC09-747731	RKD-147	123	126	3	124.5	12/10/2009	Reject	ATf
BUCKET 10 164015	136	164015	AC10-164015	AHD-145	148	150	2	149	2010	Reject	CSCT
BUCKET 11 172822	157	172822	AC10-172822	AHD-155	217	220	3	218.5	2010	Reject	CSCT
BUCKET 12 164148	180	164148	AC10-164148	EWD-54	72	74	2	73	2010	Reject	CSCT
BUCKET 12 164296	175	164296	AC10-164296	EWD-52	51	53	2	52	2010	Reject	CSCT
BUCKET 12 816376	170	816376	AC10-816376	MKD-72	60	62	2	61	2010	Reject	CSCT
BUCKET 13 163767	8	163767	AC10-163767	AHD-142	137	139	2	138	2010	Reject	CSCT
BUCKET 13 171112	5	171112	AC10-171112	AHD-148A	86	88	2	87	2010	Reject	CSCT
BUCKET 2 109044	26	109044	AC09-109044	AHD-84	129	131.53	2.53	130.265	2009	Reject	CSCT
BUCKET 2 109375	24	109375	AC09-109375	NAHD-58	95	97	2	96	2009	Reject	CSCT
BUCKET 2 109417	30	109417	AC09-109417	NAHD-58	187	189	2	188	2009	Reject	CSCT
BUCKET 23 36467	160	36467	AC09-36467	NAHD-43	123	126	3	124.5	4/8/2009	Reject	CSCT
BUCKET 3 110769	35	110769	AC09-110769	EWD-37	102	104	2	103	2009	Reject	CSCT
BUCKET 3 76237	40	76237	AC09-76237	AHD-78	75	77	2	76	2009	Reject	CSCT
BUCKET 4 76185	48	76185	AC09-76185	AHD-74	110	112	2	111	2009	Reject	CSCT
BUCKET 5 109067	63	109067	AC09-109067	NAHD-49	9	12	3	10.5	2009	Reject	CSCT
BUCKET 5 77815	65	77815	AC09-77875	AHD-76	179	182	3	180.5	2009	Reject	CSCT
BUCKET 5 77875	64	77875	AC09-77875	AHD-76	179	182	3	180.5	11/14/2009	Reject	CSCT
BUCKET 6 108705	81	108705	AC09-108705	AHD-83	75	77	2	76	2009	Reject	CSCT
BUCKET 6 108856	87	108856	AC09-108856	AHD-85	117	120	3	118.5	2009	Reject	CSCT
BUCKET 8 170102	106	170102	AC10-170102	AHD-148B	78	81	3	79.5	2010	Reject	CSCT
BUCKET 9 172380	126	172380	AC10-172380	MKD-109	93	96	3	94.5	2010	Reject	CSCT
BUCKET 9 816704	130	816704	AC10-816704	MKD-77	48	50	2	49	2010	Reject	CSCT
BUCKET 10 90355	145	90355	AC10-90355	RKD-161	43	46	3	44.5	2010	Reject	DIO
BUCKET 11 163315	159	163315	AC10-163315	EWD-51	138	141	3	139.5	2010	Reject	DIO
BUCKET 12 163033	173	163033	AC10-163033	EWD-49	45	47	2	46	2010	Reject	DIO
BUCKET 12 164484	178	164484	AC10-164484	EWD-56	141	143	2	142	2010	Reject	DIO
BUCKET 21 8189	125	8189	8189	MKD-8	112.4	114	1.6	113.2	2005	Reject	DIO
BUCKET 24 112948	168	112948	AC10-112948	AHD-108	113	115	2	114	2010	Reject	DIO
BUCKET 24 78119	169	78119	AC10-78119	MKD-86	42.2	45	2.8	43.6	5/26/2010	Reject	DIO
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BUCKET 4 76163	51	76163	AC09-76163	AHD-74	60	62	2	61	2009	Reject	DIO
BUCKET 6 108919	83	108919	AC09-108919	AHD-81	48	51	3	49.5	2009	Reject	DIO
BUCKET 8 164335	107	164335	AC10-164335	MKD-98	18	21	3	19.5	2010	Reject	DIO
BUCKET 9 111049	128	111049	AC09-111049	WHD-37	76	79	3	77.5	2009	Reject	DIO
BUCKET 9 816465	132	816465	AC10-816465	MKD-74	108	111	3	109.5	2010	Reject	DIO
BUCKET 10 164872	140	164872	AC10-164872	AHD-147A	60	63	3	61.5	9/12/2010	Reject	DIO
BUCKET 11 727276	153	727276	AC10-727276	RKD-158	16	17.5	1.5	16.75	5/17/2010	Reject	DIO
BUCKET 13 170082	185	170082	AC10-170082	MKD-103	30	31	1	30.5	9/21/2010	Reject	DIO
BUCKET 24 164662	165	164662	AC10-164662	BH10-2	163	165	2	164	8/4/2010	Reject	DIO/ATf
BUCKET 1 747643	1	747643	AC09-747643	RKD-146	132	135	3	133.5	2009	Reject	FTf
BUCKET 14 20404	22	20404	20404	RKD-47	25.5	27	1.5	26.25	2005	Reject	FTf
BUCKET 14 29357	11	29357	AC08-29357	MKD-24	88	90	2	89	4/28/2008	Reject	FTf
BUCKET 15 34725	40	34725	34725	RKD-21	34	36	2	35	2005	Reject	FTf
BUCKET 16 36952	44	36952	36952	RKD-23	69	71	2	70	2005	Reject	FTf
BUCKET 17 19418	59	19418	19418	RKD-51	36.25	38	1.75	37.125	2006	Reject	FTf
BUCKET 17 20143	65	20143	20143	RKD-45	100	102	2	101	2005	Reject	FTf
BUCKET 17 20224	58	20224	20224	RKD-44B	58	60.3	2.3	59.15	2005	Reject	FTf
BUCKET 17 29217	63	29217	AC08-29217	MKD-23	37	38	1	37.5	4/28/2008	Reject	FTf
BUCKET 18 16003	79	16003	AC07-16003	RKD-62DV1L	1093	1095	2	1094	2/22/2007	Reject	FTf
BUCKET 18 16412	81	16412	AC07-16412	RKD-60DV4R	727	729	2	728	3/16/2007	Reject	FTf
BUCKET 18 20822	85	20822	20822	RKD-52	335	336	1	335.5	3/17/2006	Reject	FTf
BUCKET 18 36992	75	36992	36992	RKD-23	139	141	2	140	2005	Reject	FTf
BUCKET 19 28015	89	28015	AC08-28015	RKD-108	534	536.35	2.35	535.175	5/4/2008	Reject	FTf
BUCKET 19 747028	97	747028	AC09-747028	RKD-139W	801	804	3	802.5	9/30/2009	Reject	FTf
BUCKET 20 36685	115	36685	36685	RKD-22	306	309	3	307.5	2005	Reject	FTf
BUCKET 20 601051	104	601051	601051	RKD-58	587	589	2	588	5/29/2006	Reject	FTf
BUCKET 20 9535	112	9535	9535	RKD-35	185.15	188.2	3.05	186.675	2005	Reject	FTf
BUCKET 21 18839	117	18839	18839	WHD-10	76.5	78	1.5	77.25	2005	Reject	FTf
BUCKET 21 19965	127	19965	19965	RKD-52	229	231	2	230	2006	Reject	FTf
BUCKET 21 9540	126	9540	9540	RKD-35	197.35	198.85	1.5	198.1	3/17/2006	Reject	FTf
BUCKET 22 12757	138	12757	12757	RKD-25	112	114	2	113	NA	Reject	FTf
BUCKET 22 18215	143	18215	18215	SMKD-7	51	52.5	1.5	51.75	12/8/2005	Reject	FTf
BUCKET 4 110316	59	110316	AC09-110316	RKD-148	48	51	3	49.5	2009	Reject	FTf
BUCKET 4 747647	57	747647	AC09-747674	RKD-146	204	207	3	205.5	2009	Reject	FTf
BUCKET 4 747715	52	747715	AC09-747715	RKD-147	39	42	3	40.5	2009	Reject	FTf
BUCKET 5 738782	73	738782	AC09-738782	MKD-41	88	91	3	89.5	2009	Reject	FTf
BUCKET 7 36731	91	36731	AC09-36731	MKD-30	101	104	3	102.5	4/9/2009	Reject	FTf
BUCKET 7 37482	103	37482	AC09-37482	RKD-133B	111	114	3	112.5	4/30/2008	Reject	FTf
BUCKET 8 170651	110	170651	AC10-170651	RKD-136	186	188	2	187	2009	Reject	FTf
BUCKET 9 816264	124	816264	AC10-816264	MKD-68	57	60	3	58.5	2010	Reject	FTf
BUCKET 16 36595	49	36595	36959	RKD-23	77	79	2	78	3/3/2005	Reject	FTf
BUCKET 23 747877	155	747877	AC09-747877	AHD-54	76	78	2	77	9/30/2009	Reject	FTf
BUCKET 23 110234	150	110234	AC09-110234	WHD-41	88	90	2	89	12/29/2009	Reject	MSED
BUCKET 1 109128	2	109128	AC09-109128	NAHD-48	75	78	3	76.5	2009	Reject	MVOL
BUCKET 1 109166	8	109166	AC09-109166	AHD-75	158	160	2	159	2009	Reject	MVOL
BUCKET 1 109569	15	109569	AC09-109569	AHD-87	118	120	2	119	2009	Reject	MVOL
BUCKET 1 110786	7	110786	AC09-110786	EWD-37	168	171	3	169.5	2009	Reject	MVOL
BUCKET 1 110892	5	110892	AC09-110892	EWD-42	177	180	3	178.5	2009	Reject	MVOL
BUCKET 1 110996	6	110996	AC09-110996	WHD-34	83	86	3	84.5	2009	Reject	MVOL
BUCKET 1 111915	3	111915	AC09-111915	AHD-91	65.5	68.5	3	67	2009	Reject	MVOL

LAB	ARD/ ML LAB SAMPLE	CLIENT ASSAY	CLIENT ASSAY	DRILLHOLE/ TEST PIT	INTERVAL				DRILL	SAMPLE	
ID	ID	ID (Simple)	ID (Extended)		From (m)	To (m)	Length (m)	Depth Average (m)	Year	Type	Lithology
BUCKET 1 112151	14	112151	AC09-112151	AHD-96	90	93	3	91.5	2009	Reject	MVOL
BUCKET 10 171282	144	171282	AC10-171282	MKD-108	84	87	3	85.5	2010	Reject	MVOL
BUCKET 10 173420	139	173420	AC10-173420	AHD-158	42	45	3	43.5	2010	Reject	MVOL
BUCKET 11 112924	152	112924	AC10-112924	AHD-110	141	143	2	142	2010	Reject	MVOL
BUCKET 11 173627	156	173627	AC10-173627	AHD-161	76	79	3	77.5	2010	Reject	MVOL
BUCKET 11 229236	164	229236	AC10-229236	MKD-115	105.6	108	2.4	106.8	2010	Reject	MVOL
BUCKET 11 816774	162	816774	AC10-816774	AHD-123	100	103	3	101.5	2010	Reject	MVOL
BUCKET 11 816782	161	816782	AC10-816782	AHD-123	213	215.5	2.5	214.25	2010	Reject	MVOL
BUCKET 11 89891	163	89891	AC10-89891	RKD-159	58.5	60.5	2	59.5	2010	Reject	MVOL
BUCKET 12 163468	168	163468	AC10-163468	AHD-140	162.5	165	2.5	163.75	2010	Reject	MVOL
BUCKET 12 163499	169	163499	AC10-163499	AHD-141	79	81.2	2.2	80.1	2010	Reject	MVOL
BUCKET 12 817063	174	817063	AC10-817063	EWD-46	193	195	2	194	2010	Reject	MVOL
BUCKET 12 90228	171	90228	AC10-90228	AHD-136	146	148	2	147	2010	Reject	MVOL
BUCKET 13 112933	9	112933	AC10-112933	AHD-110	234	236	2	235	2010	Reject	MVOL
BUCKET 13 163423	184	163423	AC10-163423	AHD-140	68	70	2	69	2010	Reject	MVOL
BUCKET 13 89500	2	89500	AC10-89500	AHD-133	81	84	3	82.5	2010	Reject	MVOL
BUCKET 13 90460	3	90460	AC10-90460	AHD-139	54	57	3	55.5	2010	Reject	MVOL
BUCKET 14 12876	23	12876	12876	RKD-24	414.98	417	2.02	415.99	2005	Reject	MVOL
BUCKET 15 20064	34	20064	20064	RKD-43	211	214	3	212.5	2005	Reject	MVOL
BUCKET 15 36541	33	36541	36541	RKD-22	77	79	2	78	2005	Reject	MVOL
BUCKET 16 37686	55	37686	37686	RKD-23	300	303	3	301.5	2005	Reject	MVOL
BUCKET 17 9560	66	9560	9560	RKD-35	282.75	285.8	3.05	284.275	2005	Reject	MVOL
BUCKET 2 109097	23	109097	AC09-109097	NAHD-49	87.05	88.55	1.5	87.8	2009	Reject	MVOL
BUCKET 2 109784	25	109784	AC09-109784	NAHD-55	114.5	116.5	2	115.5	2009	Reject	MVOL
BUCKET 20 3884	107	3884	3884	RKD-37WC	1017.6	1020.6	3	1019.1	4/5/2006	Reject	MVOL
BUCKET 22 36849	135	36849	36849	KRD-5	222	225	3	223.5	2/17/2005	Reject	MVOL
BUCKET 3 110796	41	110796	AC09-110796	AHD-89	79	82	3	80.5	2009	Reject	MVOL
BUCKET 3 110867	44	110867	AC09-110867	EWD-42	74	77	3	75.5	2009	Reject	MVOL
BUCKET 3 111212	31	111212	AC09-111212	AHD-95	106	109	3	107.5	2009	Reject	MVOL
BUCKET 3 111695	32	111695	AC09-111695	EWD-41	198	201	3	199.5	2009	Reject	MVOL
BUCKET 4 109868	53	109868	AC09-109868	NAHD-60	10	12	2	11	2009	Reject	MVOL
BUCKET 4 111272	58	111272	AC09-111272	AHD-99	108	111	3	109.5	2009	Reject	MVOL
BUCKET 5 111023	69	111023	AC09-111023	WHD-36	75	78	3	76.5	2009	Reject	MVOL
BUCKET 5 111811	62	111811	AC09-111811	WHD-33	46	48	2	47	2009	Reject	MVOL
BUCKET 8 111521	115	111521	AC09-111521	NAHD-62	126	129	3	127.5	2009	Reject	MVOL
BUCKET 8 112607	118	112607	AC10-112607	AHD-102	98	101	3	99.5	2010	Reject	MVOL
BUCKET 8 112646	108	112646	AC10-112646	AHD-106	55	58	3	56.5	2010	Reject	MVOL
BUCKET 8 172282	113	172282	AC10-172282	AHD-152	105	107	2	106	2010	Reject	MVOL
BUCKET 8 173595	116	173595	AC10-173595	AHD-159	130	132.93	2.93	131.465	2010	Reject	MVOL
BUCKET 8 89805	112	89805	AC10-89805	MKD-90	59.2	62	2.8	60.6	2010	Reject	MVOL
BUCKET 9 112772	125	112772	AC10-112772	MKD-70	108	111	3	109.5	2010	Reject	MVOL
BUCKET 9 171852	133	171852	AC10-171852	MKD-111	203	206	3	204.5	2010	Reject	MVOL
BUCKET 9 173161	134	173161	AC10-173161	MKD-110	65	67	2	66	2010	Reject	MVOL
BUCKET 9 173308	135	173308	AC10-173308	MKD-112	62	65	3	63.5	2010	Reject	MVOL
BUCKET 9 173631	127	173631	AC10-173631	AHD-161	108	111	3	109.5	2010	Reject	MVOL
BUCKET 9 228065	129	228065	AC10-228065	AHD-166	66	69	3	67.5	2010	Reject	MVOL
BUCKET 22 18211	144	18211	18211	SMKD-7	45	46.5	1.5	45.75	12/8/2005	Reject	QFP
BUCKET 10 112373	138	112373	AC10-112373	AHD-103	63.2	66.2	3	64.7	2010	Reject	QV
BUCKET 16 7549	45	7549	7549	WHD-2	83.48	85	1.52	84.24	2005	Reject	QV
BUCKET 18 20690	82	20690	AC07-20690	RKD-87B	349	351	2	350	1/1/2008	Reject	QV
BUCKET 18 58924	74	58924	58924	AHD-12	147	150	3	148.5	6/27/2005	Reject	QV
BUCKET 22 10886	136	10886	10886	SMKD-4	49	50	1	49.5	2005	Reject	QV
BUCKET 22 18631	137	18631	18631	WHD-7	106.1	106.75	0.65	106.425	2005	Reject	QV
BUCKET 23 747960	152	747960	AC09-747960	MKD-53	77	79	2	78	2009	Reject	QV
BUCKET 6 738740	77	738740	AC09-738740	MKD-39	55	58	3	56.5	2009	Reject	QV
BUCKET 9 172707	131	172707	AC10-172707	AHD-156	77.6	80	2.4	78.8	2010	Reject	QV
BUCKET 1 110692	13	110692	AC09-110692	AHD-100	26	28	2	27	2009	Reject	SAP
BUCKET 10 164646	141	164646	AC10-164646	BH10-2	23.5	25	1.5	24.25	2010	Reject	SAP
BUCKET 10 170804	142	170804	AC10-170804	WMKD-34	12	15	3	13.5	2009	Reject	SAP
BUCKET 10 816755	143	816755	AC10-816755	AHD-123	51	54	3	52.5	2010	Reject	SAP
BUCKET 12 163633	166	163633	AC10-163633	AHD-143	63	66	3	64.5	2010	Reject	SAP
BUCKET 14 15347	19	15347	15347	SPD-17	70	71.5	1.5	70.75	5/27/2005	Reject	SAP
BUCKET 14 15386	21	15386	15386	SPD-18	37	38.5	1.5	37.75	5/31/2005	Reject	SAP
BUCKET 14 31370	14	31370	AC08-31370	NAHD-30	27	28.5	1.5	27.75	6/20/2008	Reject	SAP
BUCKET 14 33816	17	33816	AC08-33816	SMKD-20	37.5	39	1.5	38.25	10/6/2008	Reject	SAP
BUCKET 14 35025	15	35025	AC08-35025	SMKD-15	9	12	3	10.5	7/30/2008	Reject	SAP
BUCKET 15 15569	36	15569	15569	AHD-7	57	60	3	58.5	2005	Reject	SAP
BUCKET 15 15591	35	15591	15591	AHD-6	38	39.5	1.5	38.75	2005	Reject	SAP
BUCKET 16 15715	41	15715	15715	AHD-8	20.5	22	1.5	21.25	2005	Reject	SAP
BUCKET 16 59247	53	59247	59247	SPD-23	7.5	9	1.5	8.25	7/26/2005	Reject	SAP
BUCKET 16 7509	50	7509	7509	WHD-2	12.5	15.5	3	14	2005	Reject	SAP
BUCKET 17 12901	57	12901	12901	RKD-27	19.5	22.5	3	21	2005	Reject	SAP
BUCKET 17 9138	67	9138	9138	MKD-13	32.5	34	1.5	33.25	2005	Reject	SAP
BUCKET 18 9003	71	9003	9003	MKD-12	20.5	22.3	1.8	21.4	2005	Reject	SAP
BUCKET 2 109361	29	109361	AC09-109361	NAHD-58	21	24	3	22.5	2009	Reject	SAP
BUCKET 2 109436	17	109436	AC09-109436	NAHD-61	21	24	3	22.5	2009	Reject	SAP
BUCKET 2 111134	22	111134	AC09-111134	AHD-93	34	37	3	35.5	2009	Reject	SAP
BUCKET 2 112125	19	112125	AC09-112125	AHD-96	21	24	3	22.5	2009	Reject	SAP
BUCKET 2 47945	21	747945	AC09-747945	AHD-55	30	33	3	31.5	2009	Reject	SAP
BUCKET 21 18259	129	18259	18259	WHD-4	22.5	24	1.5	23.25	2005	Reject	SAP
BUCKET 21 20199	128	20199	20199	RKD-44B	16.5	18	1.5	17.25	2005	Reject	SAP
BUCKET 22 18190	142	18190	18190	SMKD-7	4.5	6	1.5	5.25	12/8/2005	Reject	SAP
BUCKET 22 21314	145	21314	AC07-21314	AHD-46	36	39	3	37.5	7/25/2007	Reject	SAP
BUCKET 23 110101	157	110101	AC09-110101	EWD-44	9	12	3	10.5	12/19/2009	Reject	SAP
BUCKET 23 110114	149	110114	AC09-110114	WHD-27	12	15	3	13.5	12/16/2009	Reject	SAP
BUCKET 23 75849	147	75849	AC09-75849	MKD-56	20.5	23.5	3	22	2009	Reject	SAP
BUCKET 23 76011	153	76011	AC09-76011	AHD-65	20	22	2	21	10/24/2009	Reject	SAP
BUCKET 24 112947	162	112947	AC10-112947	AHD-108	16	18	2	17	2010	Reject	SAP
BUCKET 24 89100	163	89100	AC10-89100	NAHD-69	13.5	15	1.5	14.25	2010	Reject	SAP
BUCKET 3 109953	36	109953	AC09-109953	NAHD-63	42	45	3	43.5	2009	Reject	SAP
BUCKET 3 110040	34	110040	AC09-110040	NAHD-54	18	21	3	19.5	2009	Reject	SAP
BUCKET 3 77796	42	77796	AC09-77815	AHD-76	24	26	2	25	2009	Reject	SAP
BUCKET 4 112201	54	112201	AC09-112201	SMKD-34	21	24	3	22.5	2009	Reject	SAP

LAB	ARD/ ML LAB SAMPLE	CLIENT ASSAY	CLIENT ASSAY	DRILLHOLE/ TEST PIT	INTERVAL				DRILL	SAMPLE	
ID	ID	ID (Simple)	ID (Extended)		From (m)	To (m)	Length (m)	Depth Average (m)	Year	Type	Lithology
BUCKET 5 110248	72	110248	AC09-110248	SMKD-31	27	30	3	28.5	12/19/2009	Reject	SAP
BUCKET 5 111744	70	111744	AC09-111744	WHD-26	15	18	3	16.5	2009	Reject	SAP
BUCKET 5 112251	67	112251	AC09-112251	SMKD-36	33	36	3	34.5	2009	Reject	SAP
BUCKET 5 112316	68	112316	AC09-112316	SMKD-39	24	27	3	25.5	2009	Reject	SAP
BUCKET 5 75894	71	75894	AC09-75894	AHD-57	64	67	3	65.5	2009	Reject	SAP
BUCKET 6 108627	82	108627	AC09-108627	AHD-79	66	69	3	67.5	2009	Reject	SAP
BUCKET 6 108839	86	108839	AC09-108839	AHD-85	52	55	3	53.5	2009	Reject	SAP
BUCKET 6 110090	78	110090	AC09-110090	EWD-40	33	36	3	34.5	2009	Reject	SAP
BUCKET 6 111253	84	111253	AC09-111253	AHD-99	51	54	3	52.5	2009	Reject	SAP
BUCKET 6 111863	79	111863	AC09-111863	WHD-39	15	18	3	16.5	2009	Reject	SAP
BUCKET 7 33969	96	33969	AC09-33969	SMKD-27	24	25.5	1.5	24.75	3/13/2009	Reject	SAP
BUCKET 7 33996	100	33996	AC09-33996	NAHD-40	18	21	3	19.5	3/13/2009	Reject	SAP
BUCKET 7 36645	99	36645	AC09-36645	MKD-33	21	24	3	22.5	4/9/2009	Reject	SAP
BUCKET 7 36725	94	36725	AC09-36725	MKD-30	12	15	3	13.5	4/9/2009	Reject	SAP
BUCKET 7 37755	95	37755	AC09-37755	RKD-136	12	15	3	13.5	4/30/2008	Reject	SAP
BUCKET 8 112590	111	112590	AC10-112590	AHD-102	30	33	3	31.5	2010	Reject	SAP
BUCKET 8 816450	117	816450	AC10-816450	MKD-74	19.5	21	1.5	20.25	2010	Reject	SAP
BUCKET 9 171259	122	171259	AC10-171259	MKD-108	18	20	2	19	2010	Reject	SAP
BUCKET 9 816817	123	816817	AC10-816817	MKD-82	15	18	3	16.5	2010	Reject	SAP
BUCKET 11 164695	158	164695	AC10-164695	MKD-100A	16.5	18	1.5	17.25	8/26/2010	Reject	SAP
BUCKET 17 35833	61	35833	35833	RKD-18	3	5	2	4	12/2/2004	Reject	SAP
BUCKET 24 727941	166	727941	AC10-727941	MKD-85	18	21	3	19.5	5/18/2010	Reject	SAP
BUCKET 21 7510	119	7510	7501	WHD-2	0	2	2	1	8/5/2005	Reject	SC
BUCKET 1 75900	9	75900	AC09-75900	AHD-57	133.3	136.2	2.9	134.75	2009	Reject	SSCT
BUCKET 10 112388	137	112388	AC10-112388	MKD-59	37	40	3	38.5	2010	Reject	SSCT
BUCKET 10 112901	148	112901	AC10-112901	AHD-110	73	75	2	74	2010	Reject	SSCT
BUCKET 11 172009	155	172009	AC10-172009	AHD-149A	90	93	3	91.5	2010	Reject	SSCT
BUCKET 11 172543	160	172543	AC10-172543	AHD-153	146	148	2	147	2010	Reject	SSCT
BUCKET 12 817043	172	817043	AC10-817043	EWD-46	94	97	3	95.5	2010	Reject	SSCT
BUCKET 13 163044	183	163044	AC10-163044	EWD-49	169	172	3	170.5	2010	Reject	SSCT
BUCKET 13 170109	7	170109	AC10-170109	AHD-148B	129	131	2	130	2010	Reject	SSCT
BUCKET 13 171126	10	171126	AC10-171126	AHD-148A	157	160	3	158.5	2010	Reject	SSCT
BUCKET 13 172009	181	172009	AC10-172009	AHD-149A	90	93	3	91.5	2010	Reject	SSCT
BUCKET 13 172108	1	172108	AC10-172108	AHD-151	99	102	3	100.5	2010	Reject	SSCT
BUCKET 13 172137	4	172137	AC10-172137	AHD-151	170	172	2	171	2010	Reject	SSCT
BUCKET 14 29122	13	29122	AC08-29122	NAHD-21	95	97	2	96	4/22/2008	Reject	SSCT
BUCKET 15 19611	39	19611	19611	RKD-51	377	379	2	378	2006	Reject	SSCT
BUCKET 19 110517	96	110517	AC09-110517	RKD-150W	957	960	3	958.5	12/17/2009	Reject	SSCT
BUCKET 19 23390	95	23390	AC08-23390	RKD-101	465	468	3	466.5	2/25/2008	Reject	SSCT
BUCKET 19 24226	88	24226	AC08-23467	RKD-106	642.5	644	1.5	643.25	3/14/2008	Reject	SSCT
BUCKET 19 29876	90	29876	AC08-29876	RKD-114	921	924	3	922.5	6/12/2008	Reject	SSCT
BUCKET 22 20382	140	20382	20382	RKD-44B	291	293	2	292	2005	Reject	SSCT
BUCKET 7 36131	105	36131	AC08-36131	RKD-125	222	224	2	223	10/29/2008	Reject	SSCT
BUCKET 8 172030	119	172030	AC10-172030	AHD-149A	163.5	165	1.5	164.25	2010	Reject	SSCT
BUCKET 8 172154	114	172154	AC10-172154	AHD-150	77.5	80	2.5	78.75	2010	Reject	SSCT
BUCKET 11 173801	151	173801	AC10-172801	AHD-155	90	92	2	91	12/17/2010	Reject	SSCT
BUCKET 24 172532	164	172532	AC10-172532	AHD-153	47	49	2	48	12/6/2010	Reject	SSCT
BUCKET 24 727644	167	727644	AC10-727644	AHD-125	69	71	2	70	4/14/2010	Reject	SSCT
BUCKET 1 110144	10	110144	AC09-110144	WHD-28	51.5	54	2.5	52.75	2009	Reject	TON
BUCKET 10 170764	149	170764	AC10-170764	RKD-134B	181.5	183.5	2	182.5	2009	Reject	TON
BUCKET 15 18343	37	18343	18343	RKD-42	61	62.5	1.5	61.75	2005	Reject	TON
BUCKET 15 19482	38	19482	19482	RKD-51	145	147	2	146	2006	Reject	TON
BUCKET 15 20526	26	20526	20526	RKD-47	208	209.5	1.5	208.75	2005	Reject	TON
BUCKET 15 20555	28	20555	20555	RKD-47	241	242.5	1.5	241.75	2005	Reject	TON
BUCKET 16 20691	46	20691	20691	RKD-46	117	118.5	1.5	117.75	2005	Reject	TON
BUCKET 16 37658	43	37658	37658	RKD-23	251	253	2	252	2005	Reject	TON
BUCKET 17 20292	69	20292	20292	RKD-44B	169	170.5	1.5	169.75	2005	Reject	TON
BUCKET 18 16055	77	16055	AC07-16055	RKD-62DV1L	1161	1162.5	1.5	1161.75	2/22/2007	Reject	TON
BUCKET 18 16203	76	16203	AC07-16203	RKD-62DV1L	1356	1357.5	1.5	1356.75	3/11/2007	Reject	TON
BUCKET 18 16246	80	16246	AC07-16246	RKD-62DV1L	1411.5	1413	1.5	1412.25	3/11/2007	Reject	TON
BUCKET 18 16630	84	16630	AC07-16630	RKD-62DV2R	1245	1247	2	1246	4/11/2007	Reject	TON
BUCKET 18 18607	78	18607	AC07-18607	RKD-64	1245	1247	2	1246	5/14/2007	Reject	TON
BUCKET 18 21554	83	21554	AC07-21554	RKD-69	1104	1106	2	1105	7/11/2007	Reject	TON
BUCKET 19 23329	91	23329	AC08-23329	RKD-101	364	366	2	365	2/25/2008	Reject	TON
BUCKET 19 23467	86	23467	AC08-24170	RKD-106	386	389	3	387.5	3/14/2008	Reject	TON
BUCKET 19 24170	92	24170	AC08-24226	RKD-106	480	482	2	481	3/14/2008	Reject	TON
BUCKET 19 28066	87	28066	AC08-28066	RKD-108	633	636	3	634.5	5/4/2008	Reject	TON
BUCKET 19 28150	93	28150	AC08-28150	RKD-108	772	774	2	773	4/17/2008	Reject	TON
BUCKET 19 29832	94	29832	AC08-29832	RKD-114	824	826	2	825	6/12/2008	Reject	TON
BUCKET 19 37793	100	37793	AC09-37793	RKD-136	425	428	3	426.5	6/5/2009	Reject	TON
BUCKET 19 37835	98	37835	AC09-37835	RKD-136	507	509	2	508	8/5/2009	Reject	TON
BUCKET 19 747079	99	747079	AC09-747079	RKD-139W	900	902	2	901	9/30/2009	Reject	TON
BUCKET 20 13339	110	13339	13339	RKD-27	438	439	1	438.5	3/23/2005	Reject	TON
BUCKET 20 13463	105	13463	13463	RKD-27	556	558	2	557	4/1/2005	Reject	TON
BUCKET 20 14806	111	14806	14806	RKD-34	438	440	2	439	5/11/2005	Reject	TON
BUCKET 20 14839	103	14839	14839	RKD-34	492	494	2	493	5/11/2005	Reject	TON
BUCKET 20 170684	102	170684	AC10-170684	RKD-136	342	344	2	343	11/4/2010	Reject	TON
BUCKET 20 37873	101	37873	AC09-37873	RKD-136	571	573	2	572	8/5/2009	Reject	TON
BUCKET 20 3803	108	3803	3803	RKD-37WC	892.5	894	1.5	893.25	4/5/2006	Reject	TON
BUCKET 20 601339	109	601339	601339	RKD-59	284	286	2	285	6/13/2006	Reject	TON
BUCKET 20 601474	106	601474	601474	RKD-59	402	404	2	403	6/29/2006	Reject	TON
BUCKET 21 13711	120	13711	13711	RKD-28	123	126	3	124.5	4/6/2005	Reject	TON
BUCKET 21 20643	121	20643	20643	RKD-46	57	58.5	1.5	57.75	2005	Reject	TON
BUCKET 21 36808	130	36808	AC09-36808	RKD-134B	266	269	3	267.5	4/30/2008	Reject	TON
BUCKET 22 20360	133	20360	20360	RKD-44B	257.5	259	1.5	258.25	2005	Reject	TON
BUCKET 23 20028	146	20028	20028	RKD-43	158.5	160	1.5	159.25	1/25/2006	Reject	TON
BUCKET 3 110318	38	110318	AC09-110318	RKD-148	54	57	3	55.5	2009	Reject	TON
BUCKET 4 110356	50	110356	AC09-110356	RKD-148	150	153	3	151.5	2009	Reject	TON
BUCKET 4 110393	55	110393	AC09-110393	RKD-148	249	252	3	250.5	2009	Reject	TON
BUCKET 7 36789	92	36789	AC09-36789	RKD-134B	104	107	3	105.5	4/30/2008	Reject	TON
BUCKET 16 12834	42	12834	12834	RKD-24	344	346	2	345	3/9/2005	Reject	TON
BUCKET 23 747298	159	747298	AC09-747298	RKD-141W	975	977	2	976	9/30/2009	Reject	TON
BUCKET 1 110133	11	110133	AC09-110133	WHD-27	138	140	2	139	2009	Reject	VOL

LAB	ARD/ ML LAB SAMPLE	CLIENT ASSAY	CLIENT ASSAY	DRILLHOLE/ TEST PIT	INTERVAL				DRILL	SAMPLE	
ID	ID	ID (Simple)	ID (Extended)		From (m)	To (m)	Length (m)	Depth Average (m)	Year	Type	Lithology
BUCKET 1 76266	4	76266	AC09-76266	AHD-55	84	87	3	85.5	2009	Reject	VOL
BUCKET 10 110718	150	110718	AC09-110718	AHD-100	90	92	2	91	2009	Reject	VOL
BUCKET 10 228353	147	228353	AC10-228353	AHD-167	99	101	2	100	2010	Reject	VOL
BUCKET 10 816860	146	816860	AC10-816860	AHD-124	78	80	2	79	2010	Reject	VOL
BUCKET 11 170704	154	170704	AC10-170704	RKD-24	191.1	194.1	3	192.6	2005	Reject	VOL
BUCKET 11 17809	165	17809	17809	PHD-5	166	169	3	167.5	12/11/2006	Reject	VOL
BUCKET 12 164333	179	164333	AC10-164333	EWD-52	155	158	3	156.5	2010	Reject	VOL
BUCKET 12 816215	177	816215	AC10-816215	MKD-67	75	78	3	76.5	2010	Reject	VOL
BUCKET 12 816916	176	816916	AC10-816916	EWD-45	133	136	3	134.5	2010	Reject	VOL
BUCKET 12 816923	167	816923	AC10-816923	EWD-47	88	91	3	89.5	2010	Reject	VOL
BUCKET 13 816881	182	816881	AC10-816881	AHD-127	55	57	2	56	2010	Reject	VOL
BUCKET 14 13916	24	13916	13916	RKD-30	101	104	3	102.5	2005	Reject	VOL
BUCKET 14 31459	16	31459	AC08-31459	SMKD-11	39	40.5	1.5	39.75	6/9/2008	Reject	VOL
BUCKET 14 33887	18	33887	AC08-33887	SMKD-21	39	42	3	40.5	10/6/2008	Reject	VOL
BUCKET 15 18638	27	18638	18638	WHD-7	149	151	2	150	2005	Reject	VOL
BUCKET 15 36515	31	36515	36515	RKD-22	21	22.5	1.5	21.75	2005	Reject	VOL
BUCKET 15 58793	29	58793	58793	AHD-9	169.5	171	1.5	170.25	6/22/2005	Reject	VOL
BUCKET 15 7822	32	7822	7822	MKD-6	164.7	167.1	2.4	165.9	2005	Reject	VOL
BUCKET 15 7960	30	7960	7960	MKD-7	60	61.5	1.5	60.75	2005	Reject	VOL
BUCKET 16 12924	48	12924	12924	RKD-27	63	65	2	64	2005	Reject	VOL
BUCKET 16 15603	54	15603	15603	AHD-6	118.6	120	1.4	119.3	2005	Reject	VOL
BUCKET 16 7868	51	7868	7868	MKD-5	71	72.6	1.6	71.8	2005	Reject	VOL
BUCKET 17 13712	56	13712	13712	RKD-28	126	129	3	127.5	2005	Reject	VOL
BUCKET 17 18498	62	18498	18498	RKD-43	123	125	2	124	2005	Reject	VOL
BUCKET 17 18741	68	18741	18741	WHD-9	63	66	3	64.5	2005	Reject	VOL
BUCKET 17 7671	70	7671	7671	MKD-3	136	139	3	137.5	2005	Reject	VOL
BUCKET 17 7815	60	7815	7815	MKD-6	54	56.3	2.3	55.15	2005	Reject	VOL
BUCKET 17 9194	64	9194	9194	MKD-13	117	120	3	118.5	2005	Reject	VOL
BUCKET 18 58840	73	58840	58840	AHD-10	76	77.5	1.5	76.75	6/27/2005	Reject	VOL
BUCKET 2 110062	18	110062	AC09-110062	NAHD-54	91	94	3	92.5	2009	Reject	VOL
BUCKET 2 77088	16	77088	AC09-77088	AHD-59	210	212	2	211	2009	Reject	VOL
BUCKET 2 77453	28	77453	AC09-77453	AHD-72	119	121	2	120	2009	Reject	VOL
BUCKET 2 77653	20	77653	AC09-77653	AHD-64	127	130	3	128.5	2009	Reject	VOL
BUCKET 2 77682	27	77682	AC09-77682	AHD-64	231	233	2	232	2009	Reject	VOL
BUCKET 20 58755	114	58755	58775	AHD-9	135	136.5	1.5	135.75	6/22/2005	Reject	VOL
BUCKET 21 10844	124	10844	10844	SMKD-3	66	68	2	67	2005	Reject	VOL
BUCKET 21 15771	123	15771	15771	AHD-8	234	237	3	235.5	6/15/2005	Reject	VOL
BUCKET 21 7548	116	7548	7548	WHD-2	82.57	83.48	0.91	83.025	8/5/2005	Reject	VOL
BUCKET 21 8489	118	8489	8489	MKD-11	51	54	3	52.5	2005	Reject	VOL
BUCKET 21 9670	122	9670	9670	RKD-38	135	136	1	135.5		Reject	VOL
BUCKET 22 14234	134	14234	13711	RKD-28	123	126	3	124.5	4/6/2005	Reject	VOL
BUCKET 22 18886	132	18886	18886	RKD-52	19	21	2	20	2006	Reject	VOL
BUCKET 22 58977	141	58977	58977	AHD-13	119	122	3	120.5	6/30/2005	Reject	VOL
BUCKET 22 7702	139	7702	7702	WHD-3	99	99.98	0.98	99.49	2005	Reject	VOL
BUCKET 23 32299	148	32299	AC08-32229	NAHD-20	94	97	3	95.5	4/22/2008	Reject	VOL
BUCKET 23 41030	158	41030	AC09-41030	NAHD-45	54.6	56.8	2.2	55.7	6/25/2009	Reject	VOL
BUCKET 23 77202	154	77202	AC09-77202	AHD-58B	180	182	2	181	10/27/2009	Reject	VOL
BUCKET 24 75789	161	75789	AC09-75789	MKD-54	107	109	2	108	10/6/2009	Reject	VOL
BUCKET 3 76105	43	76105	AC09-76105	AHD-67	123.95	125.3	1.35	124.625	2009	Reject	VOL
BUCKET 3 77074	33	77074	AC09-77074	AHD-59	120	122	2	121	2009	Reject	VOL
BUCKET 3 77279	39	77279	AC09-77279	AHD-63	199.5	201.75	2.25	200.625	2009	Reject	VOL
BUCKET 4 747793	60	747793	AC09-747793	RKD-147	273	276	3	274.5	2009	Reject	VOL
BUCKET 4 77135	46	77135	AC09-77135	AHD-60	132	134	2	133	2009	Reject	VOL
BUCKET 4 77301	56	77301	AC09-77301	AHD-68	53	56	3	54.5	2009	Reject	VOL
BUCKET 5 746216	75	746216	AC09-746216	MKD-47	48	51	3	49.5	2009	Reject	VOL
BUCKET 5 747920	61	747920	AC09-747920	AHD-53	194	196	2	195	2009	Reject	VOL
BUCKET 5 75772	74	75772	AC09-75772	MKD-54	20.35	23	2.65	21.675	10/6/2009	Reject	VOL
BUCKET 5 77593	66	77593	AC09-77593	AHD-69A	93	95	2	94	2009	Reject	VOL
BUCKET 6 110096	76	110096	AC09-110096	EWD-40	139	142	3	140.5	2009	Reject	VOL
BUCKET 6 34236	89	34236	AC09-34236	WMKD-34	75.9	77	1.1	76.45	4/9/2009	Reject	VOL
BUCKET 6 36555	88	36555	AC09-36555	SMKD-29	71	73	2	72	4/8/2009	Reject	VOL
BUCKET 6 36585	90	36585	AC09-36585	WMKD-32	76	79	3	77.5	4/9/2009	Reject	VOL
BUCKET 6 738756	80	738756	AC09-738756	MKD-40	55	58	3	56.5	2009	Reject	VOL
BUCKET 6 75845	85	75845	AC09-75845	MKD-56	95	98	3	96.5	2009	Reject	VOL
BUCKET 7 36347	104	36347	AC09-36347	NAHD-42	33	35	2	34	3/30/2009	Reject	VOL
BUCKET 7 36487	101	36487	AC09-36487	MKD-32	57	59	2	58	4/8/2009	Reject	VOL
BUCKET 7 36618	93	36618	AC09-36618	MKD-34	100	103	3	101.5	4/9/2009	Reject	VOL
BUCKET 7 36678	97	36678	AC09-36678	MKD-33	95.8	98.8	3	97.3	4/9/2009	Reject	VOL
BUCKET 7 36861	98	36861	AUR-09-36861	MKD-35	88	90	2	89	5/28/2009	Reject	VOL
BUCKET 7 41058	102	41058	AC09-41058	MKD-37	160	163	3	161.5	7/8/2009	Reject	VOL
BUCKET 8 816791	120	816791	AC10-816791	MKD-79	48	51	3	49.5	2010	Reject	VOL
BUCKET 8 816873	109	816873	AC10-816873	AHD-124	245	248	3	246.5	2010	Reject	VOL
BUCKET 9 111465	121	111465	AC10-111465	AHD-109	179	182	3	180.5	4/1/2010	Reject	VOL

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Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 1a: ABA Test Results for 354 Guyana Goldfields Inc. - Aurora Samples - December 2011

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
1	BUCKET 1 747643	8.6	9.7	220.5	0.24	0.09	0.06	0.09	1.9	148.9	147.0	79.4	Slight
2	BUCKET 1 109128	9.2	9.6	219.1	0.10	0.01	0.03	0.06	0.9	160.9	160.0	171.7	Slight
3	BUCKET 1 111915	8.5	0.1	1.8	<0.02	<0.01	<0.01	<0.02	<0.3	18.2	18.2	#N/A	None
4	BUCKET 1 76266	9.5	9.2	209.5	0.07	<0.01	0.02	0.05	0.6	159.3	158.7	254.9	Slight
5	BUCKET 1 110892	9.7	8.3	188.9	0.10	<0.01	0.06	0.04	1.9	143.3	141.5	76.4	Slight
6	BUCKET 1 110996	9.4	13.5	306.6	0.07	<0.01	0.02	0.05	0.6	227.5	226.9	364.0	Moderate
7	BUCKET 1 110786	9.2	6.8	154.3	1.07	<0.01	0.71	0.36	22.2	142.5	120.3	6.4	Strong
8	BUCKET 1 109166	9.2	8.1	185.0	<0.02	<0.01	<0.01	<0.02	<0.3	158.0	158.0	#N/A	Strong
9	BUCKET 1 75900	10.1	8.2	185.2	<0.02	0.02	<0.01	<0.02	<0.3	132.9	132.9	#N/A	Moderate
10	BUCKET 1 110144	10.1	7.3	165.9	<0.02	<0.01	<0.01	<0.02	<0.3	129.5	129.5	#N/A	Slight
11	BUCKET 1 110133	9.8	8.9	202.5	0.21	<0.01	0.11	0.10	3.4	113.6	110.1	33.0	Slight
12	BUCKET 1 109895	9.2	13.9	315.5	0.07	<0.01	0.01	0.06	0.3	252.5	252.2	808.0	Moderate
13	BUCKET 1 110692	5.8	0.2	3.4	<0.02	0.01	<0.01	<0.02	<0.3	-0.5	-0.5	#N/A	None
14	BUCKET 1 112151	9.1	6.8	153.4	0.08	0.06	0.04	<0.02	1.3	142.3	141.1	113.9	Strong
15	BUCKET 1 109569	9.1	6.9	157.5	0.29	<0.01	0.13	0.16	4.1	158.7	154.6	39.1	Strong
16	BUCKET 2 77088	9.9	4.0	91.8	<0.02	<0.01	<0.01	<0.02	<0.3	93.3	93.3	#N/A	Strong
17	BUCKET 2 109436	9.0	9.9	225.5	0.51	<0.01	0.35	0.16	10.9	206.0	195.0	18.8	Strong
18	BUCKET 2 110062	9.5	6.1	139.3	0.03	<0.01	0.01	0.02	0.3	110.9	110.6	355.0	Strong
19	BUCKET 2 112125	6.0	0.1	1.4	0.03	0.02	<0.01	0.01	<0.3	-0.6	-0.6	#N/A	None
20	BUCKET 2 77653	8.8	6.9	157.7	0.16	0.02	0.07	0.07	2.2	153.4	151.2	70.1	Strong
21	BUCKET 2 47945	5.6	0.1	1.6	<0.02	0.01	<0.01	<0.02	<0.3	-1.0	-1.0	#N/A	None
22	BUCKET 2 111134	5.9	<0.02	<0.5	<0.02	0.01	<0.01	<0.02	<0.3	-0.5	-0.5	#N/A	None
23	BUCKET 2 109097	9.6	4.2	95.0	0.15	<0.01	0.06	0.09	1.9	92.1	90.2	49.1	Strong
24	BUCKET 2 109375	9.6	6.5	146.6	0.19	<0.01	0.11	0.08	3.4	113.2	109.8	32.9	Slight
25	BUCKET 2 109784	9.3	12.7	288.2	<0.02	<0.01	<0.01	<0.02	<0.3	240.0	240.0	#N/A	Moderate
26	BUCKET 2 109044	9.1	6.2	141.1	<0.02	0.02	<0.01	<0.02	<0.3	129.5	129.5	#N/A	Strong
27	BUCKET 2 77682	9.2	8.7	196.6	0.03	0.02	<0.01	0.01	<0.3	159.2	159.2	#N/A	Strong
28	BUCKET 2 77453	9.2	9.6	218.4	0.10	0.01	0.04	0.05	1.3	167.5	166.3	134.0	Strong
29	BUCKET 2 109361	9.6	0.1	1.8	<0.02	0.01	<0.01	<0.02	<0.3	7.0	7.0	#N/A	None
30	BUCKET 2 109417	9.3	10.9	247.7	0.08	<0.01	0.03	0.05	0.9	177.5	176.6	189.3	Moderate
31	BUCKET 3 111212	9.3	10.3	233.0	<0.02	0.02	<0.01	<0.02	<0.3	191.9	191.9	#N/A	Strong
32	BUCKET 3 111695	9.1	5.0	113.4	0.10	<0.01	0.03	0.07	0.9	120.6	119.7	128.6	Strong
33	BUCKET 3 77074	9.4	4.7	107.7	<0.02	<0.01	<0.01	<0.02	<0.3	86.1	86.1	#N/A	Moderate
34	BUCKET 3 110040	9.0	6.2	141.6	<0.02	<0.01	<0.01	<0.02	<0.3	115.2	115.2	#N/A	Moderate
35	BUCKET 3 110769	9.5	12.0	271.8	0.12	<0.01	0.05	0.07	1.6	203.8	202.2	130.4	Moderate
36	BUCKET 3 109953	8.3	0.1	1.1	<0.02	<0.01	<0.01	<0.02	<0.3	16.5	16.5	#N/A	None
37	BUCKET 3 747753	9.1	10.6	241.4	0.44	0.02	0.29	0.13	9.1	138.1	129.1	15.2	Slight
38	BUCKET 3 110318	9.9	17.4	395.2	0.04	<0.01	0.02	0.02	0.6	158.8	158.1	254.0	Slight
39	BUCKET 3 77279	9.0	11.9	270.0	0.19	0.02	0.10	0.07	3.1	221.9	218.8	71.0	Strong
40	BUCKET 3 76237	9.1	11.3	255.7	0.09	0.02	0.05	0.02	1.6	200.6	199.1	128.4	Moderate

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
41	BUCKET 3 110796	8.8	2.7	61.1	0.12	<0.01	0.05	0.07	1.6	50.9	49.3	32.6	Strong
42	BUCKET 3 77796	9.6	18.5	420.2	0.24	<0.01	0.12	0.12	3.8	268.8	265.0	71.7	Moderate
43	BUCKET 3 76105	9.7	5.5	125.5	0.02	<0.01	<0.01	0.02	<0.3	108.9	108.9	#N/A	Strong
44	BUCKET 3 110867	8.9	6.4	145.9	0.06	<0.01	0.02	0.04	0.6	130.8	130.2	209.2	Strong
45	BUCKET 3 747731	9.8	10.4	236.6	0.30	<0.01	0.22	0.08	6.9	147.9	141.0	21.5	Moderate
46	BUCKET 4 77135	10.0	6.2	139.8	<0.02	<0.01	<0.01	<0.02	<0.3	103.6	103.6	#N/A	Slight
47	BUCKET 4 108756	9.8	6.0	135.7	0.04	<0.01	<0.01	0.04	<0.3	101.6	101.6	#N/A	Slight
48	BUCKET 4 76185	9.3	10.3	234.8	0.09	<0.01	0.06	0.03	1.9	181.3	179.4	96.7	Moderate
49	BUCKET 4 108794	10.0	2.7	60.2	<0.02	<0.01	<0.01	<0.02	<0.3	53.9	53.9	#N/A	Strong
50	BUCKET 4 110356	8.6	15.5	353.0	0.05	0.05	<0.01	0.00	<0.3	233.1	233.1	#N/A	Slight
51	BUCKET 4 76163	8.0	6.9	156.6	0.07	0.05	<0.01	0.02	<0.3	112.7	112.7	#N/A	Slight
52	BUCKET 4 747715	9.5	11.3	257.5	0.13	<0.01	0.07	0.06	2.2	165.0	162.8	75.4	Moderate
53	BUCKET 4 109868	7.2	0.1	1.1	<0.02	<0.01	<0.01	<0.02	<0.3	-1.3	-1.3	#N/A	None
54	BUCKET 4 112201	6.1	<0.02	<0.5	<0.02	<0.01	<0.01	<0.02	<0.3	-1.8	-1.8	#N/A	None
55	BUCKET 4 110393	9.9	11.4	259.8	0.05	<0.01	0.02	0.03	0.6	122.0	121.4	195.2	Moderate
56	BUCKET 4 77301	9.6	7.4	168.4	<0.02	<0.01	<0.01	<0.02	<0.3	113.4	113.4	#N/A	Slight
57	BUCKET 4 747647	10.0	8.2	185.2	0.10	<0.01	0.08	0.02	2.5	102.1	99.6	40.9	Slight
58	BUCKET 4 111272	5.6	0.1	1.6	<0.02	<0.01	<0.01	<0.02	<0.3	-2.3	-2.3	#N/A	None
59	BUCKET 4 110316	10.1	11.4	258.0	<0.02	<0.01	<0.01	<0.02	<0.3	140.8	140.8	#N/A	Moderate
60	BUCKET 4 747793	9.8	15.4	350.2	0.09	0.01	0.04	0.04	1.3	242.5	241.3	194.0	Moderate
61	BUCKET 5 747920	9.8	14.2	322.0	<0.02	<0.01	<0.01	<0.02	<0.3	166.3	166.3	#N/A	Moderate
62	BUCKET 5 111811	8.8	7.4	167.0	0.13	0.06	0.07	0.00	2.2	143.3	141.2	65.5	Strong
63	BUCKET 5 109067	7.9	0.3	7.0	<0.02	<0.01	<0.01	<0.02	<0.3	5.3	5.3	#N/A	None
64	BUCKET 5 77875	9.4	11.8	267.3	0.03	<0.01	<0.01	0.03	<0.3	205.0	205.0	#N/A	Moderate
65	BUCKET 5 77815	6.8	0.1	1.8	<0.02	0.01	<0.01	<0.02	<0.3	0.5	0.5	#N/A	None
66	BUCKET 5 77593	9.4	5.4	123.6	0.14	<0.01	0.08	0.06	2.5	119.5	117.0	47.8	Strong
67	BUCKET 5 112251	5.3	0.1	1.4	<0.02	0.01	<0.01	<0.02	<0.3	-2.5	-2.5	#N/A	None
68	BUCKET 5 112316	5.9	0.0	0.5	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
69	BUCKET 5 111023	8.8	7.3	164.8	0.06	0.06	0.02	<0.02	0.6	144.8	144.2	231.8	Strong
70	BUCKET 5 111744	6.5	0.1	1.8	<0.02	0.02	<0.01	<0.02	<0.3	-2.0	-2.0	#N/A	None
71	BUCKET 5 75894	7.7	0.0	0.7	<0.02	<0.01	<0.01	<0.02	<0.3	5.3	5.3	#N/A	None
72	BUCKET 5 110248	6.0	<0.02	<0.5	<0.02	<0.01	<0.01	<0.02	<0.3	-0.9	-0.9	#N/A	None
73	BUCKET 5 738782	9.7	18.7	425.5	0.12	<0.01	0.08	0.04	2.5	238.8	236.3	95.5	Moderate
74	BUCKET 5 75772	10.0	13.7	311.1	<0.02	<0.01	<0.01	<0.02	<0.3	140.6	140.6	#N/A	Moderate
75	BUCKET 5 746216	9.3	8.4	191.8	<0.02	<0.01	<0.01	<0.02	<0.3	151.1	151.1	#N/A	Strong
76	BUCKET 6 110096	9.3	4.8	108.4	0.09	0.02	0.07	0.00	2.2	97.4	95.2	44.5	Strong
77	BUCKET 6 738740	9.2	13.1	297.3	0.09	<0.01	0.06	0.03	1.9	189.4	187.5	101.0	Moderate
78	BUCKET 6 110090	6.8	0.1	1.8	<0.02	<0.01	<0.01	<0.02	<0.3	0.3	0.3	#N/A	None
79	BUCKET 6 111863	6.6	0.0	0.7	<0.02	<0.01	<0.01	<0.02	<0.3	-0.8	-0.8	#N/A	None
80	BUCKET 6 738756	9.6	11.1	252.7	0.10	<0.01	0.06	0.04	1.9	181.3	179.4	96.7	Moderate
81	BUCKET 6 108705	9.1	10.7	243.0	<0.02	<0.01	<0.01	<0.02	<0.3	185.0	185.0	#N/A	Moderate
82	BUCKET 6 108627	7.4	0.1	1.8	<0.02	0.02	<0.01	<0.02	<0.3	3.8	3.8	#N/A	None
83	BUCKET 6 108919	9.7	5.0	113.6	<0.02	<0.01	<0.01	<0.02	<0.3	135.1	135.1	#N/A	Moderate
84	BUCKET 6 111253	5.5	0.1	1.4	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
85	BUCKET 6 75845	9.0	12.0	273.2	0.08	<0.01	0.06	0.02	1.9	208.8	206.9	111.3	Moderate
86	BUCKET 6 108839	10.1	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	0.0	0.0	#N/A	None
87	BUCKET 6 108856	9.4	10.0	228.0	<0.02	<0.01	<0.01	<0.02	<0.3	178.8	178.8	#N/A	Moderate
88	BUCKET 6 36555	9.1	10.5	238.4	<0.02	<0.01	<0.01	<0.02	<0.3	195.0	195.0	#N/A	Moderate
89	BUCKET 6 34236	8.9	2.5	56.6	<0.02	<0.01	0.01	<0.02	0.3	53.1	52.8	170.1	Strong

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
90	BUCKET 6 36585	9.3	11.6	262.7	0.03	<0.01	0.01	0.02	0.3	195.0	194.7	624.0	Moderate
91	BUCKET 7 36731	9.8	13.8	312.5	<0.02	<0.01	<0.01	<0.02	<0.3	168.8	168.8	#N/A	Moderate
92	BUCKET 7 36789	9.6	15.3	348.4	0.17	0.01	0.10	0.06	3.1	200.0	196.9	64.0	Slight
93	BUCKET 7 36618	9.8	13.2	299.1	<0.02	<0.01	<0.01	<0.02	<0.3	181.3	181.3	#N/A	Moderate
94	BUCKET 7 36725	6.0	0.1	2.5	<0.02	<0.01	<0.01	<0.02	<0.3	1.8	1.8	#N/A	None
95	BUCKET 7 37755	6.7	<0.02	<0.5	<0.02	<0.01	<0.01	<0.02	<0.3	-0.5	-0.5	#N/A	None
96	BUCKET 7 33969	5.9	0.0	0.7	<0.02	<0.01	<0.01	<0.02	<0.3	-1.3	-1.3	#N/A	None
97	BUCKET 7 36678	9.5	13.1	298.2	0.10	<0.01	0.07	0.03	2.2	185.0	182.8	84.6	Moderate
98	BUCKET 7 36861	9.5	13.6	310.0	0.04	<0.01	0.02	0.02	0.6	162.5	161.9	260.0	Slight
99	BUCKET 7 36645	6.6	0.1	2.5	<0.02	<0.01	<0.01	<0.02	<0.3	-0.8	-0.8	#N/A	None
100	BUCKET 7 33996	5.9	0.0	0.7	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
101	BUCKET 7 36487	9.0	13.0	295.2	0.17	<0.01	0.11	0.06	3.4	220.0	216.6	64.0	Moderate
102	BUCKET 7 41058	9.3	7.1	160.5	<0.02	<0.01	<0.01	<0.02	<0.3	147.1	147.1	#N/A	Strong
103	BUCKET 7 37482	9.7	7.8	177.3	0.12	<0.01	0.07	0.05	2.2	105.2	103.0	48.1	Slight
104	BUCKET 7 36347	8.7	10.0	226.4	0.06	0.01	0.03	0.02	0.9	175.0	174.1	186.7	Strong
105	BUCKET 7 36131	8.7	7.4	168.9	0.02	0.01	<0.01	0.01	<0.3	121.5	121.5	#N/A	Moderate
106	BUCKET 8 170102	9.6	6.7	152.3	0.17	<0.01	0.12	0.05	3.8	108.2	104.4	28.8	Slight
107	BUCKET 8 164335	9.0	8.3	188.2	0.03	<0.01	0.02	0.01	0.6	128.8	128.1	206.0	Slight
108	BUCKET 8 112646	8.6	0.3	7.7	<0.02	<0.01	<0.01	<0.02	<0.3	8.5	8.5	#N/A	None
109	BUCKET 8 816873	9.2	10.6	241.6	0.03	<0.01	0.02	0.01	0.6	195.0	194.4	312.0	Strong
110	BUCKET 8 170651	9.8	11.1	252.5	0.25	<0.01	0.20	0.05	6.3	123.0	116.7	19.7	Slight
111	BUCKET 8 112590	8.5	1.5	34.3	<0.02	<0.01	<0.01	<0.02	<0.3	26.0	26.0	#N/A	None
112	BUCKET 8 89805	8.5	6.1	138.6	0.12	<0.01	0.10	0.02	3.1	132.5	129.4	42.4	Strong
113	BUCKET 8 172282	8.8	3.2	72.3	0.04	<0.01	0.02	0.02	0.6	68.7	68.1	109.9	Strong
114	BUCKET 8 172154	9.8	5.8	132.0	<0.02	<0.01	<0.01	<0.02	<0.3	102.6	102.6	#N/A	Slight
115	BUCKET 8 111521	9.1	14.4	326.8	0.07	<0.01	0.03	0.04	0.9	247.5	246.6	264.0	Slight
116	BUCKET 8 173595	9.0	14.1	320.9	0.09	<0.01	0.06	0.03	1.9	226.3	224.4	120.7	Moderate
117	BUCKET 8 816450	6.4	0.1	2.5	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
118	BUCKET 8 112607	8.9	7.8	177.3	0.11	0.01	0.06	0.04	1.9	152.4	150.5	81.3	Strong
119	BUCKET 8 172030	9.5	6.9	156.1	<0.02	<0.01	<0.01	<0.02	<0.3	113.4	113.4	#N/A	Slight
120	BUCKET 8 816791	9.4	10.1	228.9	0.02	<0.01	<0.01	0.02	<0.3	151.9	151.9	#N/A	Slight
121	BUCKET 9 111465	9.5	9.3	211.8	0.04	<0.01	0.03	0.01	0.9	160.0	159.1	170.7	Moderate
122	BUCKET 9 171259	7.4	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	4.5	4.5	#N/A	None
123	BUCKET 9 816817	5.7	0.1	1.1	<0.02	<0.01	<0.01	<0.02	<0.3	-1.3	-1.3	#N/A	None
124	BUCKET 9 816264	9.6	13.9	315.9	0.03	<0.01	0.02	0.01	0.6	161.9	161.3	259.1	Moderate
125	BUCKET 9 112772	9.3	6.3	142.0	0.05	<0.01	0.01	0.04	0.3	129.5	129.2	414.5	Strong
126	BUCKET 9 172380	9.1	8.5	194.1	0.14	<0.01	0.09	0.05	2.8	150.6	147.8	53.6	Strong
127	BUCKET 9 173631	9.1	10.0	227.7	0.30	<0.01	0.25	0.05	7.8	211.3	203.4	27.0	Strong
128	BUCKET 9 111049	10.0	10.0	227.0	0.03	<0.01	0.02	0.01	0.6	132.0	131.4	211.3	Moderate
129	BUCKET 9 228065	9.9	5.1	115.9	<0.02	<0.01	<0.01	<0.02	<0.3	83.8	83.8	#N/A	Moderate
130	BUCKET 9 816704	9.3	11.1	252.7	0.05	<0.01	0.03	0.02	0.9	196.3	195.3	209.3	Moderate
131	BUCKET 9 172707	8.8	15.3	347.7	<0.02	<0.01	<0.01	<0.02	<0.3	255.0	255.0	#N/A	Strong
132	BUCKET 9 816465	9.3	10.3	234.8	0.04	<0.01	0.03	0.01	0.9	172.5	171.6	184.0	Moderate
133	BUCKET 9 171852	9.5	14.6	331.8	0.06	<0.01	0.03	0.03	0.9	196.3	195.3	209.3	Moderate
134	BUCKET 9 173161	9.4	4.6	105.5	0.20	<0.01	0.13	0.07	4.1	101.1	97.1	24.9	Strong
135	BUCKET 9 173308	9.7	6.6	149.8	<0.02	<0.01	<0.01	<0.02	<0.3	105.2	105.2	#N/A	Moderate
136	BUCKET 10 164015	9.8	8.2	185.9	<0.02	<0.01	<0.01	<0.02	<0.3	135.6	135.6	#N/A	Slight
137	BUCKET 10 112388	9.5	11.9	270.7	0.07	<0.01	0.04	0.03	1.3	221.3	220.0	177.0	Moderate
138	BUCKET 10 112373	9.7	8.1	185.0	0.03	<0.01	0.01	0.02	0.3	122.5	122.2	392.0	Moderate

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
139	BUCKET 10 173420	8.1	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	3.5	3.5	#N/A	None
140	BUCKET 10 164872	9.9	11.1	252.5	<0.02	<0.01	<0.01	<0.02	<0.3	129.5	129.5	#N/A	Slight
141	BUCKET 10 164646	7.1	0.1	1.6	<0.02	<0.01	<0.01	<0.02	<0.3	-2.0	-2.0	#N/A	None
142	BUCKET 10 170804	5.7	0.0	0.9	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
143	BUCKET 10 816755	6.8	0.0	0.9	<0.02	<0.01	<0.01	<0.02	<0.3	-1.8	-1.8	#N/A	None
144	BUCKET 10 171282	9.4	7.3	166.8	0.06	<0.01	0.04	0.02	1.3	127.5	126.3	102.0	Strong
145	BUCKET 10 90355	9.2	4.5	102.7	0.38	<0.01	0.29	0.09	9.1	8.3	-0.8	0.9	None
146	BUCKET 10 816860	8.9	13.6	309.3	0.11	<0.01	0.06	0.05	1.9	217.5	215.6	116.0	Strong
147	BUCKET 10 228353	9.7	4.4	99.1	<0.02	<0.01	<0.01	<0.02	<0.3	74.5	74.5	#N/A	Slight
148	BUCKET 10 112901	9.3	5.9	133.4	<0.02	<0.01	<0.01	<0.02	<0.3	100.4	100.4	#N/A	Slight
149	BUCKET 10 170764	9.2	11.0	248.9	0.28	0.02	0.18	0.08	5.6	138.3	132.7	24.6	Moderate
150	BUCKET 10 110718	9.4	13.7	310.9	0.05	<0.01	0.03	0.02	0.9	236.3	235.3	252.0	Strong
151	BUCKET 11 173801	7.7	0.1	3.0	<0.02	<0.01	<0.01	<0.02	<0.3	-0.1	-0.1	#N/A	None
152	BUCKET 11 112924	9.0	6.4	145.2	0.16	<0.01	0.09	0.07	2.8	131.3	128.5	46.7	Strong
153	BUCKET 11 727276	8.6	0.3	7.7	0.16	<0.01	0.10	0.06	3.1	2.1	-1.0	0.7	None
154	BUCKET 11 170704	9.3	15.2	346.4	0.17	0.05	0.07	0.05	2.2	287.5	285.3	131.4	Moderate
155	BUCKET 11 172009	9.7	6.5	147.3	<0.02	<0.01	<0.01	<0.02	<0.3	103.4	103.4	#N/A	Slight
156	BUCKET 11 173627	9.3	4.6	105.0	0.11	<0.01	0.06	0.05	1.9	98.1	96.2	52.3	Strong
157	BUCKET 11 172822	9.0	7.4	167.7	0.11	0.01	0.06	0.04	1.9	141.6	139.7	75.5	Strong
158	BUCKET 11 164695	7.5	0.1	2.5	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
159	BUCKET 11 163315	9.6	3.6	80.9	0.14	<0.01	0.07	0.07	2.2	75.5	73.3	34.5	Strong
160	BUCKET 11 172543	9.6	10.8	245.7	<0.02	<0.01	<0.01	<0.02	<0.3	155.0	155.0	#N/A	Strong
161	BUCKET 11 816782	8.8	10.1	229.8	0.69	<0.01	0.51	0.18	15.9	195.0	179.1	12.2	Strong
162	BUCKET 11 816774	9.0	7.9	180.0	0.16	<0.01	0.10	0.06	3.1	138.3	135.2	44.3	Strong
163	BUCKET 11 89891	6.2	0.1	2.5	<0.02	<0.01	<0.01	<0.02	<0.3	-1.0	-1.0	#N/A	None
164	BUCKET 11 229236	9.7	9.2	208.9	<0.02	<0.01	<0.01	<0.02	<0.3	152.4	152.4	#N/A	Moderate
165	BUCKET 11 17809	9.0	8.6	195.9	0.26	<0.01	0.16	0.10	5.0	161.9	156.9	32.4	Strong
166	BUCKET 12 163633	8.4	0.1	2.5	<0.02	0.02	<0.01	<0.02	<0.3	4.5	4.5	#N/A	None
167	BUCKET 12 816923	9.1	7.3	166.8	0.08	<0.01	0.05	0.03	1.6	156.4	154.8	100.1	Strong
168	BUCKET 12 163468	9.0	11.6	263.9	0.12	<0.01	0.07	0.05	2.2	188.8	186.6	86.3	Moderate
169	BUCKET 12 163499	8.9	9.5	215.0	<0.02	<0.01	<0.01	<0.02	<0.3	182.5	182.5	#N/A	Strong
170	BUCKET 12 816376	9.2	3.8	87.3	0.31	<0.01	0.20	0.11	6.3	82.0	75.8	13.1	Strong
171	BUCKET 12 90228	9.2	6.3	142.7	<0.02	<0.01	<0.01	<0.02	<0.3	132.0	132.0	#N/A	Strong
172	BUCKET 12 817043	9.6	15.6	355.0	0.22	<0.01	0.14	0.08	4.4	143.8	139.4	32.9	Moderate
173	BUCKET 12 163033	9.7	8.8	200.0	0.07	<0.01	0.03	0.04	0.9	139.3	138.4	148.6	Moderate
174	BUCKET 12 817063	9.3	7.2	163.4	0.08	<0.01	0.05	0.03	1.6	141.6	140.0	90.6	Strong
175	BUCKET 12 164296	9.0	7.4	168.4	0.09	<0.01	0.05	0.04	1.6	145.6	144.0	93.2	Strong
176	BUCKET 12 816916	9.2	9.6	217.5	0.06	<0.01	0.02	0.04	0.6	177.5	176.9	284.0	Strong
177	BUCKET 12 816215	9.4	2.0	45.0	0.06	<0.01	0.02	0.04	0.6	46.1	45.5	73.8	Strong
178	BUCKET 12 164484	9.7	10.5	238.4	0.14	<0.01	0.08	0.06	2.5	178.8	176.3	71.5	Moderate
179	BUCKET 12 164333	9.2	5.2	117.7	0.06	<0.01	0.02	0.04	0.6	111.4	110.8	178.3	Strong
180	BUCKET 12 164148	9.4	5.9	134.1	0.02	<0.01	<0.01	0.02	<0.3	127.8	127.8	#N/A	Strong
181	BUCKET 13 172009	7.1	0.1	2.0	<0.02	<0.01	<0.01	<0.02	<0.3	-0.5	-0.5	#N/A	None
182	BUCKET 13 816881	9.2	3.9	88.9	0.08	<0.01	0.05	0.03	1.6	100.6	99.1	64.4	Strong
183	BUCKET 13 163044	9.6	10.3	233.2	0.07	<0.01	0.04	0.03	1.3	145.0	143.8	116.0	Moderate
184	BUCKET 13 163423	9.5	13.8	313.0	0.36	<0.01	0.25	0.11	7.8	125.0	117.2	16.0	Moderate
185	BUCKET 13 170082	9.7	11.2	254.1	<0.02	<0.01	<0.01	<0.02	<0.3	176.3	176.3	#N/A	Moderate
186	BUCKET 13 172108	9.8	5.4	123.4	<0.02	<0.01	<0.01	<0.02	<0.3	91.8	91.8	#N/A	Slight
187	BUCKET 13 89500	9.3	3.4	77.5	0.02	<0.01	<0.01	0.02	<0.3	68.5	68.5	#N/A	Strong

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
188	BUCKET 13 90460	9.4	10.6	241.6	0.11	<0.01	0.09	0.02	2.8	165.0	162.2	58.7	Moderate
189	BUCKET 13 172137	9.7	6.8	155.0	<0.02	<0.01	<0.01	<0.02	<0.3	104.6	104.6	#N/A	Slight
190	BUCKET 13 171112	9.5	12.8	291.6	<0.02	<0.01	<0.01	<0.02	<0.3	202.5	202.5	#N/A	Slight
191	BUCKET 13 164190	9.5	3.7	85.0	0.10	<0.01	0.10	0.00	3.1	53.4	50.3	17.1	Strong
192	BUCKET 13 170109	9.7	8.3	187.5	<0.02	<0.01	<0.01	<0.02	<0.3	122.5	122.5	#N/A	Moderate
193	BUCKET 13 163767	9.5	9.2	210.0	<0.02	<0.01	<0.01	<0.02	<0.3	144.6	144.6	#N/A	Moderate
194	BUCKET 13 112933	9.6	2.8	64.1	<0.02	<0.01	<0.01	<0.02	<0.3	60.7	60.7	#N/A	Strong
195	BUCKET 13 171126	10.0	6.4	145.9	<0.02	<0.01	<0.01	<0.02	<0.3	99.4	99.4	#N/A	Moderate
196	BUCKET 14 29357	9.4	0.1	3.2	0.05	<0.01	0.03	0.02	0.9	176.3	175.3	188.0	Slight
197	BUCKET 14 35211	9.4	12.6	285.9	0.49	<0.01	0.44	0.05	13.8	201.3	187.5	14.6	Moderate
198	BUCKET 14 29122	9.2	12.2	276.6	0.06	<0.01	0.05	0.01	1.6	197.5	195.9	126.4	Moderate
199	BUCKET 14 31370	7.8	0.1	2.0	<0.02	<0.01	<0.01	<0.02	<0.3	2.5	2.5	#N/A	None
200	BUCKET 14 35025	5.9	<0.02	<0.5	<0.02	<0.01	<0.01	<0.02	<0.3	-3.5	-3.5	#N/A	None
201	BUCKET 14 31459	9.7	10.7	244.1	0.03	<0.01	0.02	0.01	0.6	157.4	156.8	251.9	Slight
202	BUCKET 14 33816	7.2	0.1	1.1	<0.02	0.01	<0.01	<0.02	<0.3	0.0	0.0	#N/A	None
203	BUCKET 14 33887	8.0	<0.02	<0.5	0.12	0.01	0.11	0.00	3.4	6.5	3.1	1.9	None
204	BUCKET 14 15347	9.0	8.5	193.4	0.10	0.01	0.09	0.00	2.8	166.2	163.4	59.1	Strong
205	BUCKET 14 14082	8.2	0.1	1.4	<0.02	<0.01	<0.01	<0.02	<0.3	2.0	2.0	#N/A	None
206	BUCKET 14 15386	6.7	<0.02	<0.5	<0.02	<0.01	<0.01	<0.02	<0.3	1.0	1.0	#N/A	None
207	BUCKET 14 20404	9.3	12.5	285.0	0.25	0.01	0.19	0.05	5.9	111.9	106.0	18.9	Slight
208	BUCKET 14 12876	8.9	13.8	313.4	0.34	0.01	0.27	0.06	8.4	235.0	226.6	27.9	Moderate
209	BUCKET 14 13916	9.1	5.6	126.6	<0.02	<0.01	<0.01	<0.02	<0.3	114.9	114.9	#N/A	Strong
210	BUCKET 14 59310	9.4	4.6	104.1	0.07	<0.01	0.03	0.04	0.9	99.4	98.4	106.0	Strong
211	BUCKET 15 20526	9.6	16.0	363.4	0.19	0.04	0.11	0.04	3.4	173.8	170.3	50.5	Slight
212	BUCKET 15 18638	9.0	8.9	202.5	0.14	0.02	0.09	0.03	2.8	160.7	157.9	57.1	Strong
213	BUCKET 15 20555	8.9	8.0	181.6	0.26	0.05	0.13	0.08	4.1	111.9	107.9	27.6	Moderate
214	BUCKET 15 58793	9.2	8.5	193.4	0.04	<0.01	0.03	0.01	0.9	154.1	153.2	164.4	Moderate
215	BUCKET 15 7960	9.0	3.0	68.4	<0.02	<0.01	<0.01	<0.02	<0.3	66.7	66.7	#N/A	Strong
216	BUCKET 15 36515	9.6	3.5	80.0	0.05	<0.01	0.03	0.02	0.9	80.8	79.8	86.2	Strong
217	BUCKET 15 7822	9.6	17.6	400.9	0.03	<0.01	<0.01	0.03	<0.3	223.8	223.8	#N/A	Moderate
218	BUCKET 15 36541	9.2	9.8	221.6	0.47	0.01	0.34	0.12	10.6	161.3	150.6	15.2	Moderate
219	BUCKET 15 20064	9.6	13.8	313.4	<0.02	0.01	<0.01	<0.02	<0.3	195.0	195.0	#N/A	Moderate
220	BUCKET 15 15591	5.7	0.1	1.6	<0.02	0.02	<0.01	<0.02	<0.3	-2.5	-2.5	#N/A	None
221	BUCKET 15 15569	6.7	0.0	0.5	<0.02	0.02	<0.01	<0.02	<0.3	5.5	5.5	#N/A	None
222	BUCKET 15 18343	9.3	11.2	255.0	0.02	<0.01	<0.01	0.02	<0.3	141.3	141.3	#N/A	Slight
223	BUCKET 15 19482	9.6	10.8	245.9	0.28	<0.01	0.15	0.13	4.7	132.5	127.9	28.3	Slight
224	BUCKET 15 19611	9.8	14.8	335.9	0.08	<0.01	0.04	0.04	1.3	188.8	187.5	151.0	Strong
225	BUCKET 15 34725	9.5	8.7	198.4	0.05	<0.01	0.05	0.00	1.6	145.6	144.0	93.2	Slight
226	BUCKET 16 15715	5.7	0.1	1.8	<0.02	0.01	<0.01	<0.02	<0.3	-2.8	-2.8	#N/A	None
227	BUCKET 16 12834	9.2	12.7	288.4	0.15	0.01	0.09	0.05	2.8	156.2	153.3	55.5	Slight
228	BUCKET 16 37658	8.6	9.0	203.4	0.88	0.3	0.45	0.13	14.1	102.6	88.6	7.3	Slight
229	BUCKET 16 36952	9.7	12.1	275.0	0.11	0.01	0.07	0.03	2.2	147.5	145.3	67.4	Strong
230	BUCKET 16 7549	9.5	14.9	337.5	<0.02	<0.01	<0.01	<0.02	<0.3	236.3	236.3	#N/A	Moderate
231	BUCKET 16 20691	9.7	11.1	251.6	0.04	<0.01	0.02	0.02	0.6	135.3	134.7	216.5	Moderate
232	BUCKET 16 12881	9.6	13.7	310.9	0.14	<0.01	0.10	0.04	3.1	168.8	165.6	54.0	Moderate
233	BUCKET 16 12924	9.9	6.3	143.4	0.10	<0.01	0.07	0.03	2.2	159.7	157.5	73.0	Slight
234	BUCKET 16 36595	8.8	17.9	407.5	0.22	0.03	0.14	0.05	4.4	188.8	184.4	43.1	Slight
235	BUCKET 16 7509	5.6	0.1	1.6	0.02	0.01	<0.01	0.01	<0.3	-3.0	-3.0	#N/A	None
236	BUCKET 16 7868	9.4	10.0	227.5	0.06	<0.01	0.03	0.03	0.9	177.5	176.6	189.3	Moderate

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
237	BUCKET 16 20465	9.6	9.0	204.1	0.15	<0.01	0.11	0.04	3.4	135.8	132.4	39.5	Moderate
238	BUCKET 16 59247	9.3	7.9	178.4	0.09	<0.01	0.05	0.04	1.6	131.5	130.0	84.2	Moderate
239	BUCKET 16 15603	9.5	13.8	313.4	0.06	<0.01	0.02	0.04	0.6	234.4	233.8	375.0	Moderate
240	BUCKET 16 37686	8.8	10.6	240.9	0.18	0.01	0.11	0.06	3.4	186.3	182.8	54.2	Strong
241	BUCKET 17 13712	9.7	4.1	94.1	0.09	<0.01	0.05	0.04	1.6	88.1	86.5	56.4	Strong
242	BUCKET 17 12901	8.5	0.1	2.7	0.08	<0.01	0.05	0.03	1.6	1.3	-0.3	0.8	None
243	BUCKET 17 20224	9.4	13.7	310.9	0.32	<0.01	0.27	0.05	8.4	205.0	196.6	24.3	Moderate
244	BUCKET 17 19418	9.1	4.7	105.9	0.17	<0.01	0.13	0.04	4.1	62.9	58.9	15.5	Slight
245	BUCKET 17 7815	9.4	11.9	270.9	0.06	<0.01	0.03	0.03	0.9	195.0	194.1	208.0	Moderate
246	BUCKET 17 35833	6.8	0.1	2.0	<0.02	<0.01	<0.01	<0.02	<0.3	-2.5	-2.5	#N/A	None
247	BUCKET 17 18498	9.5	8.2	185.9	0.46	<0.01	0.41	0.05	12.8	130.0	117.2	10.1	Moderate
248	BUCKET 17 29217	9.6	13.7	310.9	<0.02	<0.01	0.01	<0.02	0.3	148.6	148.3	475.6	Moderate
249	BUCKET 17 9194	9.5	10.3	233.4	0.03	<0.01	0.01	0.02	0.3	175.0	174.7	560.0	Moderate
250	BUCKET 17 20143	9.5	6.9	156.6	0.83	<0.01	0.64	0.19	20.0	114.4	94.4	5.7	Moderate
251	BUCKET 17 9560	9.2	12.9	294.1	0.02	0.01	0.01	0.00	0.3	223.8	223.4	716.0	Moderate
252	BUCKET 17 9138	6.3	0.1	1.6	<0.02	0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
253	BUCKET 17 18741	9.6	6.0	136.6	0.11	<0.01	0.07	0.04	2.2	87.6	85.4	40.0	Moderate
254	BUCKET 17 20292	9.5	10.9	248.4	0.05	0.03	<0.01	0.02	<0.3	135.8	135.8	#N/A	Slight
255	BUCKET 17 7671	9.6	15.8	360.0	0.04	<0.01	0.01	0.03	0.3	230.0	229.7	736.0	Moderate
256	BUCKET 18 9003	7.2	0.0	0.9	<0.02	<0.01	<0.01	<0.02	<0.3	-1.8	-1.8	#N/A	None
257	BUCKET 18 13944	9.2	6.5	148.4	0.17	<0.01	0.11	0.06	3.4	104.6	101.2	30.4	Moderate
258	BUCKET 18 58840	9.5	14.3	325.5	0.10	<0.01	0.08	0.02	2.5	203.8	201.3	81.5	Moderate
259	BUCKET 18 58924	9.1	10.5	238.9	0.06	0.01	0.03	0.02	0.9	175.0	174.1	186.7	Moderate
260	BUCKET 18 36992	9.8	10.5	238.0	0.07	0.01	0.03	0.03	0.9	141.8	140.9	151.3	Moderate
261	BUCKET 18 16203	9.3	10.5	238.9	0.28	0.01	0.18	0.09	5.6	134.3	128.7	23.9	Slight
262	BUCKET 18 16055	9.6	16.0	364.1	0.30	0.01	0.23	0.06	7.2	168.1	160.9	23.4	Slight
263	BUCKET 18 18607	9.5	9.2	208.0	0.53	0.01	0.42	0.10	13.1	130.5	117.4	9.9	Slight
264	BUCKET 18 16003	9.6	7.0	160.0	0.08	<0.01	0.05	0.03	1.6	124.7	123.2	79.8	Slight
265	BUCKET 18 16246	9.6	13.9	315.9	0.57	<0.01	0.40	0.17	12.5	175.0	162.5	14.0	Moderate
266	BUCKET 18 16412	9.6	9.8	223.2	0.41	<0.01	0.33	0.08	10.3	129.3	119.0	12.5	Moderate
267	BUCKET 18 20690	9.5	10.5	238.6	0.27	0.04	0.15	0.08	4.7	144.6	139.9	30.8	Slight
268	BUCKET 18 21554	9.0	13.8	313.9	0.12	0.09	0.01	0.02	0.3	170.5	170.2	545.5	Moderate
269	BUCKET 18 16630	9.5	9.9	225.5	0.50	0.01	0.41	0.08	12.8	133.8	121.0	10.4	Slight
270	BUCKET 18 20822	9.5	10.1	228.4	0.61	0.01	0.44	0.16	13.8	140.1	126.3	10.2	Slight
271	BUCKET 19 23467	10.0	21.1	480.2	0.11	<0.01	0.07	0.04	2.2	236.3	234.1	108.0	Moderate
272	BUCKET 19 28066	8.8	13.6	310.0	0.21	0.14	0.03	0.04	0.9	225.0	224.1	240.0	Moderate
273	BUCKET 19 24226	9.8	14.1	319.5	0.07	0.01	0.04	0.02	1.3	223.8	222.5	179.0	Moderate
274	BUCKET 19 28015	9.5	8.4	191.4	0.38	0.01	0.26	0.11	8.1	127.2	119.1	15.7	Moderate
275	BUCKET 19 29876	9.9	20.0	453.4	0.15	<0.01	0.10	0.05	3.1	277.5	274.4	88.8	Moderate
276	BUCKET 19 23329	9.5	12.8	290.2	0.58	0.05	0.37	0.16	11.6	162.4	150.9	14.0	Slight
277	BUCKET 19 24170	9.5	13.2	300.7	0.02	0.02	<0.01	0.00	<0.3	198.8	198.8	#N/A	Moderate
278	BUCKET 19 28150	9.5	10.8	245.2	0.37	0.02	0.24	0.11	7.5	140.3	132.8	18.7	Slight
279	BUCKET 19 29832	9.6	9.0	203.9	0.94	0.01	0.62	0.31	19.4	119.5	100.1	6.2	Slight
280	BUCKET 19 23390	9.0	14.1	320.5	0.18	0.03	0.10	0.05	3.1	250.0	246.9	80.0	Strong
281	BUCKET 19 110517	10.0	15.4	349.1	0.14	<0.01	0.06	0.08	1.9	207.5	205.6	110.7	Moderate
282	BUCKET 19 747028	9.6	11.0	249.5	0.45	<0.01	0.29	0.16	9.1	138.1	129.0	15.2	Moderate
283	BUCKET 19 37835	9.5	2.8	63.6	0.83	<0.01	0.54	0.29	16.9	48.4	31.5	2.9	Slight
284	BUCKET 19 747079	9.4	10.5	239.5	0.50	0.01	0.35	0.14	10.9	147.6	136.7	13.5	Moderate
285	BUCKET 19 37793	9.6	9.8	223.0	0.15	0.03	0.05	0.07	1.6	135.8	134.2	86.9	Moderate

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
286	BUCKET 20 37873	9.4	7.7	174.5	0.76	0.01	0.50	0.25	15.6	118.2	102.6	7.6	Strong
287	BUCKET 20 170684	9.4	9.4	213.2	0.57	0.01	0.37	0.19	11.6	138.6	127.0	12.0	Slight
288	BUCKET 20 14839	9.7	10.4	236.1	0.10	0.02	0.04	0.04	1.3	134.3	133.0	107.4	Slight
289	BUCKET 20 601051	9.4	8.4	189.8	0.43	<0.01	0.26	0.17	8.1	133.8	125.7	16.5	Moderate
290	BUCKET 20 13463	9.1	14.5	330.0	0.84	0.07	0.55	0.22	17.2	268.8	251.6	15.6	Slight
291	BUCKET 20 601474	9.2	9.7	221.4	0.29	0.02	0.24	0.03	7.5	132.3	124.8	17.6	Slight
292	BUCKET 20 3884	9.6	11.7	264.8	0.04	<0.01	0.01	0.03	0.3	201.9	201.6	646.0	Moderate
293	BUCKET 20 3803	9.6	10.1	230.2	0.26	<0.01	0.14	0.12	4.4	145.1	140.7	33.2	Moderate
294	BUCKET 20 601339	9.1	11.7	266.4	0.10	0.08	<0.01	0.02	<0.3	153.1	153.1	#N/A	Slight
295	BUCKET 20 13339	9.6	7.4	167.3	0.44	<0.01	0.35	0.09	10.9	93.6	82.7	8.6	Slight
296	BUCKET 20 14806	8.7	8.2	185.2	0.06	0.04	<0.01	0.02	<0.3	136.8	136.8	#N/A	Slight
297	BUCKET 20 9535	9.8	15.9	360.5	0.11	<0.01	0.06	0.05	1.9	172.5	170.6	92.0	Moderate
298	BUCKET 20 136626	9.8	12.0	272.3	0.07	<0.01	0.03	0.04	0.9	160.0	159.1	170.7	Moderate
299	BUCKET 20 58755	9.3	12.3	280.2	0.14	<0.01	0.06	0.08	1.9	218.1	216.3	116.3	Strong
300	BUCKET 20 36685	9.8	8.7	197.5	0.12	<0.01	0.06	0.06	1.9	122.5	120.6	65.3	Moderate
301	BUCKET 21 7548	9.3	13.8	314.3	<0.02	<0.01	<0.01	<0.02	<0.3	211.3	211.3	#N/A	Moderate
302	BUCKET 21 18839	9.7	7.9	178.9	0.04	<0.01	0.01	0.03	0.3	101.9	101.6	326.0	Moderate
303	BUCKET 21 8489	9.3	1.0	23.0	0.05	<0.01	0.01	0.04	0.3	25.9	25.6	82.8	Strong
304	BUCKET 21 7510	5.3	0.0	0.9	0.02	0.01	<0.01	0.01	<0.3	-2.3	-2.3	#N/A	None
305	BUCKET 21 13711	9.7	3.5	79.5	0.12	<0.01	0.04	0.08	1.3	70.0	68.7	56.0	Strong
306	BUCKET 21 20643	9.6	14.0	317.3	<0.02	<0.01	<0.01	<0.02	<0.3	144.3	144.3	#N/A	Moderate
307	BUCKET 21 9670	8.3	9.3	211.6	2.93	0.01	2.15	0.77	67.2	174.4	107.2	2.6	Strong
308	BUCKET 21 15771	9.3	9.1	207.7	<0.02	<0.01	<0.01	<0.02	<0.3	127.8	127.8	#N/A	Moderate
309	BUCKET 21 10844	9.8	5.0	114.1	<0.02	<0.01	<0.01	<0.02	<0.3	83.8	83.8	#N/A	Moderate
310	BUCKET 21 8189	9.7	15.7	356.6	<0.02	<0.01	<0.01	<0.02	<0.3	210.6	210.6	#N/A	Moderate
311	BUCKET 21 9540	7.9	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	-0.5	-0.5	#N/A	None
312	BUCKET 21 19965	9.6	12.1	275.2	0.18	<0.01	0.15	0.03	4.7	149.1	144.4	31.8	Moderate
313	BUCKET 21 20199	8.3	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	0.3	0.3	#N/A	None
314	BUCKET 21 18259	6.3	0.0	0.7	<0.02	<0.01	<0.01	<0.02	<0.3	-2.0	-2.0	#N/A	None
315	BUCKET 21 36808	10.4	6.5	146.6	<0.02	<0.01	<0.01	<0.02	<0.3	132.3	132.3	#N/A	Strong
316	BUCKET 22 9528	9.5	9.1	207.0	0.10	<0.01	0.05	0.05	1.6	108.9	107.4	69.7	Moderate
317	BUCKET 22 18886	9.0	3.0	68.4	<0.02	<0.01	<0.01	<0.02	<0.3	64.2	64.2	#N/A	Strong
318	BUCKET 22 20360	9.6	11.1	252.7	0.02	0.01	<0.01	0.01	<0.3	154.4	154.4	#N/A	Slight
319	BUCKET 22 14234	8.5	7.1	161.1	0.52	0.02	0.34	0.16	10.6	110.2	99.6	10.4	Moderate
320	BUCKET 22 36849	9.9	7.9	179.5	0.04	<0.01	0.01	0.03	0.3	156.9	156.6	502.1	Strong
321	BUCKET 22 10886	8.7	3.1	69.8	0.07	0.04	0.01	0.02	0.3	50.6	50.3	162.0	Slight
322	BUCKET 22 18631	9.5	10.4	237.3	0.25	<0.01	0.19	0.06	5.9	139.6	133.6	23.5	Moderate
323	BUCKET 22 12757	9.5	13.0	295.9	0.17	<0.01	0.13	0.04	4.1	204.4	200.3	50.3	Moderate
324	BUCKET 22 7702	9.2	7.6	173.6	0.10	<0.01	0.04	0.06	1.3	137.8	136.6	110.3	Strong
325	BUCKET 22 20382	9.4	14.7	333.9	0.07	0.05	<0.01	0.02	<0.3	157.7	157.7	#N/A	Moderate
326	BUCKET 22 58977	9.1	6.1	138.4	0.06	<0.01	0.01	0.05	0.3	122.5	122.2	392.0	Strong
327	BUCKET 22 18190	6.1	0.1	1.6	0.13	0.01	0.06	0.06	1.9	-1.3	-3.1	-0.7	None

GUYANA GOLDFIELDS
Aurora Project – Static ARD/ML Interpretation

February 3, 2012

					Acme	Modified ASTM D2492-02 Method				Mod. ABA NP			
S. No.	Sample ID	Paste pH	CO2 (Wt.%)	CaCO3 Equiv.* (Kg CaCO3/Tonne)	Total Sulphur (Wt.%)	HCl Extractable Sulphur (Wt.%)	HNO3 Extractable Sulphur (Wt.%)	Insoluble Sulphur** (Wt.%)	Maximum Potential Acidity*** (Kg CaCO3/Tonne)	Neutralization Potential (Kg CaCO3/Tonne)	Net Neutralization Potential**** (Kg CaCO3/Tonne)	Neutralization Potential Ratio (NPR)***** (dimensionless; no unit)	Fizz Rating
328	BUCKET 22 18215	9.3	12.9	292.3	0.02	<0.01	<0.01	0.02	<0.3	237.5	237.5	#N/A	Moderate
329	BUCKET 22 18211	9.2	11.6	264.1	0.08	<0.01	0.03	0.05	0.9	191.3	190.3	204.0	Moderate
330	BUCKET 22 21314	7.8	0.1	2.0	<0.02	<0.01	<0.01	<0.02	<0.3	-1.0	-1.0	#N/A	None
331	BUCKET 23 20028	7.0	0.0	0.7	<0.02	<0.01	<0.01	<0.02	<0.3	-0.5	-0.5	#N/A	None
332	BUCKET 23 75849	9.8	15.0	340.0	0.04	<0.01	0.03	0.01	0.9	201.3	200.3	214.7	Moderate
333	BUCKET 23 32299	6.2	0.1	1.1	<0.02	<0.01	<0.01	<0.02	<0.3	-1.0	-1.0	#N/A	None
334	BUCKET 23 110114	6.0	0.0	0.9	<0.02	0.01	<0.01	<0.02	<0.3	-1.3	-1.3	#N/A	None
335	BUCKET 23 110234	9.3	11.8	267.5	<0.02	0.02	<0.01	<0.02	<0.3	196.3	196.3	#N/A	Moderate
336	BUCKET 23 109604	9.2	9.6	218.6	0.04	<0.01	0.01	0.03	0.3	158.8	158.4	508.0	Moderate
337	BUCKET 23 747960	9.3	11.0	250.0	0.02	<0.01	<0.01	0.02	<0.3	195.0	195.0	#N/A	Moderate
338	BUCKET 23 76011	6.2	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	-2.0	-2.0	#N/A	None
339	BUCKET 23 77202	9.8	6.1	137.5	<0.02	<0.01	<0.01	<0.02	<0.3	94.1	94.1	#N/A	Slight
340	BUCKET 23 747877	9.7	6.8	155.2	<0.02	<0.01	<0.01	<0.02	<0.3	101.6	101.6	#N/A	Moderate
341	BUCKET 23 109595	9.1	10.1	228.6	0.07	<0.01	0.04	0.03	1.3	185.6	184.4	148.5	Moderate
342	BUCKET 23 110101	5.8	0.1	2.3	<0.02	<0.01	<0.01	<0.02	<0.3	-1.5	-1.5	#N/A	None
343	BUCKET 23 41030	9.0	11.0	250.7	0.38	<0.01	0.27	0.11	8.4	196.3	187.8	23.3	Strong
344	BUCKET 23 747298	9.6	14.3	325.0	0.47	<0.01	0.38	0.09	11.9	193.1	181.3	16.3	Moderate
345	BUCKET 23 36467	9.4	7.4	168.2	<0.02	0.02	<0.01	<0.02	<0.3	138.3	138.3	#N/A	Moderate
346	BUCKET 24 75789	9.5	12.7	289.1	0.08	<0.01	0.05	0.03	1.6	194.4	192.8	124.4	Moderate
347	BUCKET 24 112947	6.9	0.1	2.5	<0.02	<0.01	<0.01	<0.02	<0.3	-1.3	-1.3	#N/A	None
348	BUCKET 24 89100	5.5	0.0	0.7	<0.02	0.02	<0.01	<0.02	<0.3	-1.8	-1.8	#N/A	None
349	BUCKET 24 172532	9.4	3.4	77.7	<0.02	<0.01	<0.01	<0.02	<0.3	65.7	65.7	#N/A	Slight
350	BUCKET 24 164662	9.4	5.2	117.3	0.79	<0.01	0.63	0.16	19.7	99.5	79.8	5.1	Strong
351	BUCKET 24 727941	9.1	3.0	67.5	0.04	<0.01	0.04	0.00	1.3	28.8	27.5	23.0	Slight
352	BUCKET 24 727644	9.6	3.4	76.8	<0.02	<0.01	<0.01	<0.02	<0.3	65.5	65.5	#N/A	Strong
353	BUCKET 24 112948	9.7	7.4	167.0	<0.02	<0.01	<0.01	<0.02	<0.3	132.5	132.5	#N/A	Moderate
354	BUCKET 24 78119	9.9	7.4	167.0	<0.02	<0.01	<0.01	<0.02	<0.3	124.7	124.7	#N/A	Moderate
Detection Limits		*0.5*	*0.02*	*0.5*	*0.02*	*0.01*	*0.01*	*0.02*	*0.6*				
Maxxam SOP No:		*7160*	*LECO*	*Calculation*	*LECO*	*7450*	*7450*	*Calculation*	*Calculation*	*7150*	*Calculation*	*Calculation*	*7150*

Notes:
Total sulphur & carbonate carbon (CO2; HCl direct method) done by Leco at Acme Labs.

CO2 Analysis: A 0.2g of pulp sample is digested with 6 ml of 1.8N HCl in a hot water bath of 70 ˚C for 30 minutes. The CO2 that evolves is trapped in a gas chamber that is controlled with a stopcock, once the stopcock is opened the CO2 gas is swept into the Leco analyser with an oxygen carrier gas. Leco then determines the CO2 as total-carbon which is calculated to total CO2.

Calculations:
*CaCO3 equivalents is based on carbonate carbon.
**Insoluble sulphur = Total sulphur - (sulphate sulphur and sulphide sulphur).
***MPA (Maximum Potential Acidity) is based on sulphide sulphur-HNO3 extractable sulphur .
**** Net Neutralization Potential (NNP) is based on difference between Neutralization Potential (NP) and Maximum Potential Acidity (MPA).
*****NPR (Neutralization Potential Ratio) is NP divided by and MPA.

References:
Reference for Mod ABA NP method (SOP No. 7150): MEND Acid Rock Drainage Prediction Manual, MEND Project 1.16.1b (pages 6.2-11 to 17), March 1991.
Sulphur Speciation (Maxxam SOP No. 7450): Modified ASTM D2492-02 Method. The S extracted is determined by analysing the extract for SO4.

For Paste pH done between 22-Nov-11 & 2-Dec-11
22-Nov-11: pH: 5.73; EC: 0.99
23-Nov-11: pH: 5.66; EC: 0.93
24-Nov-11: pH: 5.88; EC: 0.99
25-Nov-11: pH: 5.71; EC: 0.97
28-Nov-11: pH: 5.76; EC: 0.99
29-Nov-11: pH: 5.71; EC: 1.1
30-Nov-11: pH: 5.75; EC: 1.1
1-Dec-11: pH: 5.67; EC: 0.99
2-Dec-11: pH: 5.69; EC: 0.98

Maxxam Analytics 4606 Canada Way, Burnaby, BC Canada V5G 1K5 Tel: 604 734 7276 Fax: 604 731 2386 www.maxxam.ca

Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 1b: ABA QAQC Results for 354 Guyana Goldfields Inc. - Aurora Samples - December 2011

QA/QC for Paste pH & NP Determination

S. No.	Sample ID	Paste pH (pH Units)	
QAQC		*Reported*	*Duplicate*
Duplicates			
10	BUCKET 1 110144	10.1	9.8
20	BUCKET 2 77653	8.8	8.8
30	BUCKET 2 109417	9.3	9.3
40	BUCKET 3 76237	9.1	9.1
50	BUCKET 4 110356	8.6	8.8
60	BUCKET 4 747793	9.8	9.6
70	BUCKET 5 111744	6.5	6.5
80	BUCKET 6 738756	9.6	9.6
90	BUCKET 6 36585	9.3	9.2
100	BUCKET 7 33996	5.9	5.9
110	BUCKET 8 170651	9.8	9.9
120	BUCKET 8 816791	9.4	9.4
130	BUCKET 9 816704	9.3	9.3
140	BUCKET 10 164872	9.9	9.9
150	BUCKET 10 110718	9.4	9.6
151	BUCKET 11 173801	7.7	7.9
160	BUCKET 11 172543	9.6	9.8
170	BUCKET 12 816376	9.2	9.2
180	BUCKET 12 164148	9.4	9.3
190	BUCKET 13 171112	9.5	9.5
200	BUCKET 14 35025	5.9	5.9
210	BUCKET 14 59310	9.4	9.4
220	BUCKET 15 15591	5.7	5.6
230	BUCKET 16 7549	9.5	9.5
240	BUCKET 16 37686	8.8	8.8
242	BUCKET 17 12901	8.5	8.5
250	BUCKET 17 20143	9.5	9.3
256	BUCKET 18 9003	7.2	7.1
260	BUCKET 18 36992	9.8	9.8
270	BUCKET 18 20822	9.5	9.5
280	BUCKET 19 23390	9.0	8.9
290	BUCKET 20 13463	9.1	9.1
300	BUCKET 20 36685	9.8	9.8
308	BUCKET 21 15771	9.3	9.1
310	BUCKET 21 8189	9.7	9.7
311	BUCKET 21 9540	7.9	7.8
316	BUCKET 22 9528	9.5	9.4
320	BUCKET 22 36849	9.9	9.9
330	BUCKET 22 21314	7.8	7.8
340	BUCKET 23 747877	9.7	9.8
350	BUCKET 24 164662	9.4	9.5

S. No.	Sample ID	Modified ABA NP (Kg CaCO3/Tonne)	
QAQC		*Reported*	*Duplicate*
Duplicates			
10	BUCKET 1 110144	129.5	124.2
20	BUCKET 2 77653	153.4	151.6
30	BUCKET 2 109417	177.5	182.5
40	BUCKET 3 76237	200.6	187.5
50	BUCKET 4 110356	233.1	237.5
60	BUCKET 4 747793	242.5	237.5
70	BUCKET 5 111744	-2.0	-1.3
80	BUCKET 6 738756	181.3	179.4
90	BUCKET 6 36585	195.0	195.0
100	BUCKET 7 33996	-1.5	-1.5
110	BUCKET 8 170651	123.0	120.5
120	BUCKET 8 816791	151.9	152.4
130	BUCKET 9 816704	196.3	188.8
140	BUCKET 10 164872	129.5	137.1
150	BUCKET 10 110718	236.3	238.8
160	BUCKET 11 172543	155.0	151.3
170	BUCKET 12 816376	82.0	81.5
180	BUCKET 12 164148	127.8	128.5

QA/QC for Sulphur Speciation

S. No.	Sample ID	Total Sulphur (Wt.%)	
QAQC (Acme Labs)		*Reported*	*Duplicate*
Duplicates			
	BUCKET 1 110133	0.21	0.22
	BUCKET 3 77279	0.19	0.2
	BUCKET 6 36555	<0.02	<0.02
	BUCKET 10 173420	<0.02	<0.02
	BUCKET 12 817063	0.08	0.08
	BUCKET 12 164333	0.06	0.06
	BUCKET 22 18211	0.08	0.08
	BUCKET 14 35211	0.49	0.49
	BUCKET 16 37658	0.88	0.88
	BUCKET 18 16412	0.41	0.41
	BUCKET 22 14234	0.52	0.47
Method Blank		<0.02	<0.02
Method Blank		<0.02	<0.02
Method Blank		<0.02	<0.02
Method Blank		<0.02	<0.02
Method Blank		<0.02	<0.02
Method Blank		<0.02	
Reference Material			
Maxxam Ref. (0.11% S)		0.12	0.11
Maxxam Ref. (0.11% S)		0.11	0.11
Maxxam Ref. (0.11% S)		0.11	0.11
Maxxam Ref. (0.11% S)		0.11	0.11
Maxxam Ref. (0.11% S)		0.10	0.12
Maxxam Ref. (0.11% S)		0.11	0.12
STD CSC (4.25% S)		4.49	4.38
STD CSC (4.25% S)		4.22	4.40
STD CSC (4.25% S)		4.20	4.19
STD CSC (4.25% S)		4.33	4.22
STD CSC (4.25% S)		4.16	4.33
STD CSC (4.25% S)		4.32	
STD OREAS76A (18.00% S)		18.05	18.36
STD OREAS76A (18.00% S)		17.31	18.07
STD OREAS76A (18.00% S)		17.13	17.17
STD OREAS76A (18.00% S)		17.94	17.41
STD OREAS76A (18.00% S)		17.44	17.43
STD OREAS76A (18.00% S)		17.89	

S. No.	Sample ID	Sulphate Sulphur (Wt.%)	
QAQC (HCl Extractable S)		*Reported*	*Duplicate*
Duplicates			
10	BUCKET 1 110144	<0.01	<0.01
20	BUCKET 2 77653	0.02	0.08
30	BUCKET 2 109417	<0.01	<0.01
40	BUCKET 3 76237	0.02	0.01
50	BUCKET 4 110356	0.06	0.06
60	BUCKET 4 747793	0.01	0.01
70	BUCKET 5 111744	0.02	<0.01
80	BUCKET 6 738756	<0.01	<0.01
90	BUCKET 6 36585	<0.01	<0.01
100	BUCKET 7 33996	<0.01	<0.01
110	BUCKET 8 170651	<0.01	<0.01
120	BUCKET 8 816791	<0.01	<0.01
130	BUCKET 9 816704	<0.01	<0.01
140	BUCKET 10 164872	<0.01	<0.01
150	BUCKET 10 110718	<0.01	<0.01
160	BUCKET 11 172543	<0.01	<0.01
170	BUCKET 12 816376	<0.01	<0.01
180	BUCKET 12 164148	<0.01	<0.01
190	BUCKET 13 171112	<0.01	<0.01
200	BUCKET 14 35025	<0.01	<0.01
210	BUCKET 14 59310	<0.01	<0.01
220	BUCKET 15 15591	0.02	0.02
230	BUCKET 16 7549	<0.01	<0.01

Table 2c: QA/QC for Carbon Speciation

S. No.	Carbonate Carbon (CO2; Wt.%)	
QAQC (Acme Labs)	*Reported*	*Duplicate*
Duplicates		
	<0.02	<0.02
	7.06	6.90
	11.33	11.77
	7.41	7.30
	1.98	1.94
	14.12	13.04
	9.99	9.36
	13.61	13.15
	3.56	3.72
	8.91	8.69
	8.65	8.35
	5.43	5.32
	0.07	0.03
	12.10	11.59
	0.07	0.04
	13.81	14.97
	10.98	10.40
	8.15	8.12
	14.69	14.62
	11.62	11.76
	0.10	0.07
Method Blank	<0.02	0.03
Method Blank	0.04	0.07
Method Blank	<0.02	<0.02
Method Blank	0.05	0.05
Method Blank	<0.02	0.03
Method Blank	0.03	0.03
Reference Material		
STD CSC (1.55% CO2)	1.64	1.53
STD CSC (1.55% CO2)	1.57	1.57
STD CSC (1.55% CO2)	1.64	1.61
STD CSC (1.55% CO2)	1.61	1.60
STD CSC (1.55% CO2)	1.61	1.50
STD CSC (1.55% CO2)	1.49	1.39
STD FER4 (4.86% CO2)	5.08	5.25
STD FER4 (4.86% CO2)	4.88	5.21
STD FER4 (4.86% CO2)	5.07	5.17
STD FER4 (4.86% CO2)	4.90	4.72
STD FER4 (4.86% CO2)	5.32	5.10
STD FER4 (4.86% CO2)	5.15	5.20

190	BUCKET 13 171112	202.5	210.0
200	BUCKET 14 35025	-3.5	-3.8
210	BUCKET 14 59310	99.4	99.6
220	BUCKET 15 15591	-2.5	-2.3
230	BUCKET 16 7549	236.3	237.5
240	BUCKET 16 37686	186.3	188.8
250	BUCKET 17 20143	114.4	111.9
260	BUCKET 18 36992	141.8	143.8
270	BUCKET 18 20822	140.1	139.6
280	BUCKET 19 23390	250.0	258.8
290	BUCKET 20 13463	268.8	266.3
300	BUCKET 20 36685	122.5	120.2
310	BUCKET 21 8189	210.6	203.1
311	BUCKET 21 9540	-0.5	-0.8
316	BUCKET 22 9528	108.9	109.8
320	BUCKET 22 36849	156.9	158.2
330	BUCKET 22 21314	-1.0	-0.8
340	BUCKET 23 747877	101.6	103.4
350	BUCKET 24 164662	99.5	99.5
Reference Material			
KZK-1 Reference (NP = 58.9) for slight fizz rating		57.0	54.0
KZK-1 Reference (NP = 58.9) for slight fizz rating		53.5	53.5
KZK-1 Reference (NP = 58.9) for slight fizz rating		53.5	53.8
KZK-1 Reference (NP = 58.9) for slight fizz rating		54.3	54.0
KZK-1 Reference (NP = 58.9) for slight fizz rating		54.0	56.0
KZK-1 Reference (NP = 61.6) for strong fizz rating		56.3	56.3
KZK-1 Reference (NP = 61.6) for strong fizz rating		56.3	56.3
KZK-1 Reference (NP = 61.6) for strong fizz rating		56.3	56.3
KZK-1 Reference (NP = 61.6) for strong fizz rating		56.3	56.3

Note:
KZK-1 Reference for strong fizz rating is for informative value only

240	BUCKET 16 37686	0.01	0.01
250	BUCKET 17 20143	<0.01	<0.01
260	BUCKET 18 36992	0.01	0.01
270	BUCKET 18 20822	0.01	<0.01
280	BUCKET 19 23390	0.03	0.01
290	BUCKET 20 13463	0.07	0.07
300	BUCKET 20 36685	<0.01	<0.01
310	BUCKET 21 8189	<0.01	<0.01
320	BUCKET 22 36849	<0.01	<0.01
330	BUCKET 22 21314	<0.01	<0.01
340	BUCKET 23 747877	<0.01	<0.01
350	BUCKET 24 164662	<0.01	<0.01
Blanks			
Method Blank		<0.01	<0.01
Method Blank		<0.01	<0.01
Method Blank		<0.01	<0.01
Method Blank		<0.01	<0.01
Method Blank		<0.01	
Reference Material			
Maxxam Ref. (0.06 % sulphate-sulphur)		0.05	0.06
Maxxam Ref. (0.06 % sulphate-sulphur)		0.06	0.05
Maxxam Ref. (0.06 % sulphate-sulphur)		0.06	0.06
Maxxam Ref. (0.06 % sulphate-sulphur)		0.06	0.06
Maxxam Ref. (0.06 % sulphate-sulphur)		0.06	
KZK-1 STD (0.01% sulphate-sulphur)		<0.01	<0.01
KZK-1 STD (0.01% sulphate-sulphur)		<0.01	<0.01
KZK-1 STD (0.01% sulphate-sulphur)		<0.01	<0.01
KZK-1 STD (0.01% sulphate-sulphur)		<0.01	<0.01
KZK-1 STD (0.01% sulphate-sulphur)		<0.01	

S. No.	Sample ID	Sulphide Sulphur (Wt.%)	
QAQC (HNO3 Extractable S)		***Reported***	***Duplicate***
Duplicates			
10	BUCKET 1 110144	<0.01	<0.01
20	BUCKET 2 77653	0.07	0.05
30	BUCKET 2 109417	0.03	0.03
40	BUCKET 3 76237	0.05	0.03
50	BUCKET 4 110356	<0.01	<0.01
60	BUCKET 4 747793	0.04	0.05
70	BUCKET 5 111744	<0.01	<0.01
80	BUCKET 6 738756	0.06	0.09
90	BUCKET 6 36585	0.01	0.02
100	BUCKET 7 33996	<0.01	<0.01
110	BUCKET 8 170651	0.20	0.18
120	BUCKET 8 816791	<0.01	0.01
130	BUCKET 9 816704	0.03	0.02
140	BUCKET 10 164872	<0.01	<0.01
150	BUCKET 10 110718	0.03	0.02
160	BUCKET 11 172543	<0.01	<0.01
170	BUCKET 12 816376	0.20	0.22
180	BUCKET 12 164148	<0.01	<0.01
190	BUCKET 13 171112	<0.01	<0.01
200	BUCKET 14 35025	<0.01	<0.01
210	BUCKET 14 59310	0.03	0.02
220	BUCKET 15 15591	<0.01	<0.01
230	BUCKET 16 7549	<0.01	<0.01
240	BUCKET 16 37686	0.11	0.12
250	BUCKET 17 20143	0.64	0.61
260	BUCKET 18 36992	0.03	0.02
270	BUCKET 18 20822	0.44	0.54
280	BUCKET 19 23390	0.10	0.11
290	BUCKET 20 13463	0.55	0.59
300	BUCKET 20 36685	0.06	0.06
310	BUCKET 21 8189	<0.01	<0.01
320	BUCKET 22 36849	0.01	0.01
330	BUCKET 22 21314	<0.01	<0.01
340	BUCKET 23 747877	<0.01	<0.01
350	BUCKET 24 164662	0.63	0.65
Blanks			
Method Blank		<0.01	<0.01
Method Blank		<0.01	<0.01
Method Blank		<0.01	<0.01
Method Blank		0.01	<0.01
Method Blank		<0.01	
Reference Material			
KZK-1 STD (0.37% sulphide-sulphur)		0.37	0.37
KZK-1 STD (0.37% sulphide-sulphur)		0.36	0.33
KZK-1 STD (0.37% sulphide-sulphur)		0.35	0.35
KZK-1 STD (0.37% sulphide-sulphur)		0.33	0.33
KZK-1 STD (0.37% sulphide-sulphur)		0.33	

Notes:
For Maxaam Data (NP, paste pH and sulphate sulphur): The acceptable RPD (Relative % Difference) is 10% between duplicates and upto 15% for reference material.
For Acme's Data (total sulphur and carbonate carbon (CO2): The acceptable RPD is 10 to 15% in general. 50% to 100% for results close to the DL.

Maxxam

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Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11
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Table 2: Ultra Trace Metals Using Aqua Regia Digestion with ICP-MS Finish on 354 Guyana Goldfields Inc. - Aurora Samples - December 2011

S. No:	Sample ID	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	%	PPB	PPM	PPM	PPM
1	BUCKET 1 747643	0.57	41.88	8.15	115.6	87	45.2	17.5	590	3.54	25.3	0.2	3.4	2.0	176.0	0.52	0.20	0.09	24	3.53	0.118	15.5	81.1	1.84	70.6	0.001	<20	0.90	0.098	0.14	<0.1	4.2	<0.02	0.23	<5	<0.1	0.02	2.6
2	BUCKET 1 109128	0.30	67.92	2.01	78.4	58	71.1	27.9	837	5.68	2.5	<0.1	4.1	0.3	136.3	0.14	0.05	0.03	98	3.69	0.075	1.4	223.7	4.16	29.7	0.002	<20	3.81	0.011	0.05	<0.1	11.5	<0.02	0.08	<5	0.2	0.04	8.7
3	BUCKET 1 111915	0.09	83.96	1.79	71.2	16	82.4	26.4	728	4.74	3.0	<0.1	0.5	0.4	42.7	0.09	0.08	<0.02	99	0.75	0.097	2.3	315.6	1.89	110.2	0.197	<20	2.47	0.011	0.06	<0.1	6.5	<0.02	<0.02	<5	<0.1	<0.02	6.5
4	BUCKET 1 76266	0.38	89.86	1.66	64.8	40	35.5	24.1	908	4.75	3.8	<0.1	1.3	0.2	151.6	0.07	0.04	0.04	71	3.73	0.070	2.2	134.5	2.46	66.8	0.003	<20	1.91	0.016	0.06	<0.1	9.1	<0.02	0.07	6	<0.1	0.03	6.1
5	BUCKET 1 110892	0.66	92.50	5.28	81.4	84	22.5	18.6	836	4.22	23.6	<0.1	4.0	0.4	114.0	0.16	0.06	0.07	15	3.69	0.080	3.9	38.3	1.19	21.6	0.001	<20	1.06	0.006	0.11	<0.1	2.2	<0.02	0.11	<5	0.3	0.12	2.4
6	BUCKET 1 110996	0.35	85.08	0.81	77.5	46	31.5	32.4	1045	6.76	0.7	<0.1	14.2	<0.1	65.6	0.12	<0.02	<0.02	128	4.53	0.031	0.8	33.2	2.04	16.2	0.001	<20	1.92	0.022	0.04	<0.1	14.7	<0.02	0.04	<5	<0.1	0.03	7.6
7	BUCKET 1 110786	0.22	91.86	2.84	76.8	55	130.6	37.5	1136	5.91	3.0	<0.1	1.8	<0.1	272.8	0.12	0.05	0.09	187	4.53	0.061	0.9	514.8	4.51	8.8	0.010	<20	3.71	0.032	0.02	<0.1	20.9	<0.02	0.89	<5	0.4	0.19	10.2
8	BUCKET 1 109166	0.28	67.44	2.15	88.5	28	38.5	33.0	955	6.84	0.7	<0.1	1.1	0.1	89.7	0.12	<0.02	0.04	157	4.16	0.037	1.8	35.6	2.19	13.1	0.002	<20	3.52	0.008	0.04	<0.1	12.8	<0.02	<0.02	<5	0.1	<0.02	10.6
9	BUCKET 1 75900	0.34	23.35	1.73	35.8	19	24.4	12.2	506	2.32	0.2	0.6	21.0	1.5	87.1	0.04	0.02	<0.02	5	3.27	0.064	10.1	27.5	0.97	22.2	<0.001	<20	0.28	0.035	0.11	<0.1	1.9	<0.02	<0.02	<5	<0.1	<0.02	0.7
10	BUCKET 1 110144	0.34	45.85	0.98	38.0	17	44.4	16.2	475	2.90	0.4	<0.1	5.0	0.7	56.9	0.03	0.06	<0.02	10	3.07	0.044	11.2	55.2	1.27	45.9	<0.001	<20	0.87	0.050	0.11	<0.1	2.7	<0.02	<0.02	<5	<0.1	<0.02	2.7
11	BUCKET 1 110133	0.71	57.28	2.22	51.7	63	18.7	15.4	622	3.48	10.5	<0.1	3.1	0.8	88.9	0.04	0.18	0.05	13	2.68	0.059	6.6	37.3	1.42	12.3	<0.001	<20	0.33	0.077	0.03	<0.1	5.0	<0.02	0.22	5	0.1	0.06	0.9
12	BUCKET 1 109895	0.11	90.57	1.23	63.4	40	43.9	24.5	721	4.87	0.9	<0.1	2.5	0.1	124.4	0.08	<0.02	<0.02	82	4.60	0.054	<0.5	109.7	2.72	28.4	<0.001	<20	1.90	0.009	0.07	<0.1	7.5	<0.02	0.05	<5	0.2	0.04	4.3
13	BUCKET 1 110692	0.35	108.00	1.08	39.5	144	19.0	26.8	1172	9.85	1.2	<0.1	46.3	0.2	7.0	0.08	<0.02	0.05	246	0.01	0.062	1.0	60.2	<0.01	48.6	0.004	<20	1.00	0.005	0.02	<0.1	19.6	<0.02	<0.02	16	<0.1	0.05	11.3
14	BUCKET 1 112151	0.45	51.93	1.47	88.1	28	55.4	32.4	1066	6.50	1.6	<0.1	2.4	0.2	180.6	0.10	<0.02	<0.02	189	4.51	0.111	8.1	61.8	1.97	4.3	0.008	<20	3.13	0.011	<0.01	<0.1	14.9	<0.02	0.08	<5	0.2	0.04	11.9
15	BUCKET 1 109569	0.85	77.21	1.61	76.1	43	113.1	32.2	955	4.95	2.9	0.2	3.0	1.8	113.4	0.11	0.03	0.03	81	5.59	0.112	18.5	231.7	2.90	39.3	0.131	<20	3.12	0.014	0.09	<0.1	7.1	<0.02	0.25	<5	0.1	0.04	8.9
16	BUCKET 2 77088	0.32	14.47	2.50	41.5	40	33.7	12.6	482	2.27	0.8	<0.1	0.9	0.7	74.6	0.09	0.03	0.05	47	3.41	0.053	11.5	90.9	1.19	23.1	0.011	<20	1.47	0.074	0.02	<0.1	3.4	<0.02	<0.02	<5	<0.1	0.02	7.0
17	BUCKET 2 109436	0.16	104.97	2.48	74.4	161	97.7	37.2	1113	5.77	0.7	<0.1	409.0	<0.1	258.1	0.12	0.03	0.21	91	6.94	0.045	0.6	223.5	2.89	38.3	0.004	<20	3.34	0.003	0.07	<0.1	8.0	<0.02	0.48	<5	0.4	0.35	7.9
18	BUCKET 2 110062	0.39	92.67	2.61	74.2	47	12.4	17.1	1035	4.62	1.7	<0.1	0.9	0.3	221.3	0.09	0.05	<0.02	51	3.07	0.113	3.8	56.1	1.15	88.5	0.008	<20	1.38	0.041	0.09	<0.1	6.6	<0.02	<0.02	<5	<0.1	0.04	6.1
19	BUCKET 2 112125	0.45	175.08	9.76	113.5	89	24.6	10.3	1758	18.81	4.3	0.3	151.7	0.4	5.2	0.12	0.11	0.09	397	<0.01	0.052	1.2	60.3	<0.01	71.3	0.044	<20	1.47	0.005	<0.01	<0.1	48.0	<0.02	0.02	6	<0.1	<0.02	7.9
20	BUCKET 2 77653	0.26	100.10	1.17	88.4	11	44.0	38.4	1118	8.15	3.2	<0.1	4.1	<0.1	105.5	0.09	0.05	0.06	250	4.97	0.038	2.0	41.4	2.58	2.7	0.011	<20	4.10	0.013	<0.01	<0.1	25.8	<0.02	0.13	<5	0.2	<0.02	14.1
21	BUCKET 2 47945	0.05	177.33	1.66	83.9	63	67.2	124.9	2800	9.26	1.3	<0.1	1.7	0.4	2.1	0.15	0.03	<0.02	288	0.02	0.040	2.2	38.5	0.02	55.6	0.016	<20	0.93	0.001	<0.01	<0.1	21.3	<0.02	<0.02	<5	0.1	<0.02	10.1
22	BUCKET 2 111134	0.28	52.32	2.29	105.9	89	29.1	27.5	1945	7.62	1.5	0.2	14.8	1.2	8.8	0.20	0.03	0.05	29	<0.01	0.152	22.3	13.7	<0.01	49.6	0.013	<20	0.52	0.032	0.04	<0.1	0.7	<0.02	<0.02	<5	<0.1	<0.02	1.6
23	BUCKET 2 109097	1.39	72.36	1.36	97.0	25	16.8	34.2	886	6.99	2.5	<0.1	1.3	0.2	274.9	0.07	0.04	0.04	170	3.21	0.122	3.4	48.7	1.74	30.0	0.023	<20	1.64	0.061	0.01	<0.1	12.4	<0.02	0.14	5	0.4	0.02	9.4
24	BUCKET 2 109375	0.88	68.08	2.12	64.4	78	24.1	18.4	662	3.96	1.6	<0.1	84.3	0.8	115.1	0.08	0.02	0.09	28	2.61	0.092	5.6	26.3	1.24	53.0	0.001	<20	1.25	0.020	0.07	<0.1	3.1	<0.02	0.16	<5	0.2	0.16	4.7
25	BUCKET 2 109784	0.33	87.31	1.16	56.4	43	136.2	34.1	1173	5.15	3.5	<0.1	1.5	<0.1	317.1	0.08	0.03	<0.02	156	4.85	0.053	1.0	510.9	4.58	4.6	0.004	<20	2.47	0.029	0.03	<0.1	17.9	<0.02	<0.02	<5	<0.1	0.04	8.2
26	BUCKET 2 109044	0.84	101.92	1.07	105.0	40	41.6	43.3	1086	8.27	0.6	<0.1	2.5	<0.1	117.8	0.13	0.03	<0.02	252	4.16	0.044	1.5	38.2	2.59	29.4	0.009	<20	3.81	0.012	<0.01	<0.1	22.3	<0.02	<0.02	<5	0.1	0.02	13.9
27	BUCKET 2 77682	0.11	109.98	0.80	94.1	60	38.2	38.9	1111	7.30	0.6	<0.1	3.9	0.1	102.3	0.12	0.06	<0.02	212	4.31	0.043	2.0	35.5	2.21	81.8	0.015	<20	2.59	0.030	0.01	<0.1	19.4	<0.02	0.03	<5	0.1	0.04	12.3
28	BUCKET 2 77453	0.51	26.54	1.43	56.1	26	46.2	23.3	606	4.04	1.3	<0.1	1.3	0.3	177.0	0.03	0.04	0.04	16	4.09	0.050	4.1	36.4	1.67	43.1	<0.001	<20	1.06	0.049	0.09	<0.1	4.6	<0.02	0.10	<5	<0.1	<0.02	3.4
29	BUCKET 2 109361	0.02	89.92	1.95	106.1	70	110.4	36.0	1076	6.55	15.7	0.2	20.6	0.8	58.8	0.14	<0.02	0.09	166	0.50	0.046	11.0	122.6	2.05	85.8	0.040	<20	3.59	0.033	<0.01	<0.1	22.3	<0.02	<0.02	<5	0.1	<0.02	11.2
30	BUCKET 2 109417	1.34	52.74	2.38	95.0	43	27.4	20.8	832	5.17	0.6	<0.1	79.4	0.2	163.3	0.07	0.05	0.02	36	4.23	0.083	1.4	97.7	2.24	24.6	0.001	<20	1.40	0.015	0.08	<0.1	5.9	<0.02	0.09	<5	<0.1	0.06	3.5
31	BUCKET 3 111212	0.13	81.02	0.99	84.5	17	39.1	36.9	1343	7.18	0.8	<0.1	3.3	0.1	82.6	0.16	0.03	<0.02	153	5.53	0.043	1.9	43.4	1.99	24.6	0.004	<20	2.86	0.011	0.04	<0.1	14.8	<0.02	<0.02	<5	0.2	<0.02	9.8
32	BUCKET 3 111695	0.49	78.52	1.73	69.8	53	34.4	30.7	1087	5.61	7.3	<0.1	104.2	0.2	176.1	0.08	0.07	0.05	161	4.13	0.049	3.6	159.3	2.89	20.3	0.069	<20	3.33	0.029	0.03	<0.1	15.6	<0.02	0.09	<5	0.2	0.08	9.9
33	BUCKET 3 77074	0.59	15.77	1.90	34.2	23	12.2	6.9	433	1.65	1.6	0.1	2.6	1.4	72.2	0.03	0.03	<0.02	4	2.36	0.068	17.4	28.1	0.66	57.3	0.001	<20	0.43	0.037	0.22	<0.1	0.9	0.02	<0.02	<5	0.2	0.03	1.4
34	BUCKET 3 110040	0.24	115.73	2.15	92.9	79	62.4	34.6	1160	6.62	0.4	<0.1	72.1	0.1	87.8	0.13	<0.02	0.02	56	3.00	0.088	1.3	133.1	1.74	18.3	<0.001	<20	1.53	0.040	0.09	<0.1	13.0	<0.02	<0.02	<5	<0.1	0.07	4.3
35	BUCKET 3 110769	0.79	75.09	1.93	70.1	41	60.5	22.9	1054	5.05	5.3	<0.1	6.3	0.7	167.1	0.07	0.05	0.04	48	4.58	0.110	6.5	112.1	2.35	56.2	<0.001	<20	1.54	0.026	0.07	<0.1	7.5	<0.02	0.09	<5	0.1	0.02	4.9
36	BUCKET 3 109953	0.26	80.82	4.83	86.3	38	38.8	21.5	556	4.30	3.5	0.3	2.3	2.1	102.1	0.11	0.15	0.05	70	0.99	0.091	13.1	56.0	1.21	64.7	0.158	<20	2.49	0.024	0.03	<0.1	5.1	<0.02	<0.02	<5	<0.1	0.02	7.9
37	BUCKET 3 747753	0.26	41.82	3.36	70.1	86	24.1	20.6	719	4.25	1.1	0.1	139.3	1.1	493.7	0.09	0.28	0.08	13	3.27	0.103	11.5	22.5	1.76	155.7	0.001	<20	0.32	0.064	0.11	<0.1	4.3	<0.02	0.39	<5	<0.1	0.11	0.8
38	BUCKET 3 110318	0.10	37.61	1.16	50.6	16	102.7	34.2	831	4.23	0.3	<0.1	1.8	0.2	119.3	0.09	0.09	<0.02	12	5.13	0.019	1.7	39.3	3.05	42.3	<0.001	<20	0.32	0.074	0.04	<0.1	9.5	<0.02	0.04	<5	<0.1	0.03	0.7
39	BUCKET 3 77279	0.79	73.64	1.99	70.0	38	32.5	32.0	1573	6.86	15.5	<0.1	5.1	0.1	200.5	0.15	0.13	<0.02	125	6.70	0.039	1.2	37.0	1.57	32.5	0.003	<20	2.63	0.008	0.13	<0.1	10.4	<0.02	0.19	44	0.1	<0.02	7.5
40	BUCKET 3 76237	0.25	94.33	1.20	94.4	29	42.6	40.5	1314	8.39	1.8	<0.1	1.4	<0.1	111.9	0.12	0.05	<0.02	116	4.37	0.044	1.2	35.1	2.69	21.3	0.004	<20	2.75	0.002	0.08	<0.1	11.3	<0.02	0.08	<5	0.2	0.03	8.7
41	BUCKET 3 110796	0.44	97.93	0.71	110.7	438	45.4	46.1	1476	8.46	3.5	<0.1	1.4	0.1	27.8	0.10	0.13	<0.02	214	2.39	0.044	0.6	47.6	2.72	9.5	0.427	<20	3.59	0.001	<0.01	0.5	6.6	<0.02	0.11	<5	0.3	0.03	10.0
42	BUCKET 3 77796	0.29	103.20	1.14	89.9	121	66.9	46.2	1373	7.81	1.6	<0.1	214.8	<0.1	93.8	0.14	0.03	0.09	78	5.62	0.035	0.6	38.3	3.02	12.8	<0.001	<20	1.10	0.058	0.02	<0.1	20.9	<0.02	0.19	12	0.2	0.07	4.7
43	BUCKET 3 76105	0.65	26.32	17.72	44.3	95	35.0	9.6	568	1.52	1.7	0.2	17.5	1.3	229.1	0.29	0.12	0.20	8	4.24	0.062	16.5	47.2	0.79	242.6	0.002	<20	1.00	0.016	0.11	<0.1	1.0	<0.02	<0.02	<5	0.1	0.07	3.5
44	BUCKET 3 110867	0.40	113.33	0.84	90.4	46	43.7	42.8	1494	8.56	1.4	<0.1	1.7	0.2	118.9	0.16	0.21	<0.02	231	4.67	0.042	3.0	41.9	2.56	17.2	0.310	<20	3.48	0.006	0.03	<0.1	23.3	<0.02	0.05	<5	0.2	0.06	13.4
45	BUCKET 3 747731	0.43	47.00	2.49	53.1	52	15.8	17.9	691	3.68	1.4	<0.1	180.1	1.0	120.8	0.05	0.26	0.08	11	3.62	0.102	10.0	19.0	1.46	38.9	<0.001	<20	0.31	0.046	0.13	11.9	3.6	<0.02	0.27	<5	0.2	0.08	1.0
46	BUCKET 4 77135	0.13	16.71	1.61	53.5	20	29.0	11.1	424	2.20	<0.1	0.2	16.0	1.6	89.4	0.04	0.07	0.05	7	2.79	0.056	17.5	40.7	0.89	41.5	0.002	<20	0.47	0.050	0.11	<0.1	1.4	<0.02	<0.02	<5	<0.1	<0.02	1.5
47	BUCKET 4 108756	0.55	4.63	2.42	33.2	53	35.0	9.5	308	1.85	0.3	0.2	168.3	1.2	192.7	0.04	0.02	0.05	9	2.53	0.069	11.3	58.4	1.10	85.4	<0.001	<20	0.52	0.038	0.08	<0.1	2.1	<0.02	0.04	<5	<0.1	1.67	2.4
48	BUCKET 4 76185	0.24	87.32	0.89	89.6	59	37.7	35.5	1338	8.61	0.8	<0.1	1.7	<0.1	103.9	0.14	0.07	0.02	164	4.14	0.039	1.2	40.9	2.29	42.0	0.004	<20	1.96	0.014	0.05	<0.1	16.4	<0.02	0.09	<5	0.2	0.08	8.8
49	BUCKET 4 108794	0.19	8.73	2.38	41.4	14	41.2	12.3	334	2.08	0.4	0.2	0.5	1.3	141.2	0.03	0.04	0.04	17	2.17	0.066	16.2	68.3	1.09	197.6	0.003	<20	1.33	0.031	0.10	<0.1	1.6	<0.02	<0.02	<5	<0.1	0.02	6.1
50	BUCKET 4 110356	0.07	29.16	1.09	50.0	32	55.8	28.2	774	4.18	0.8	<0.1	0.8	0.3	203.1	0.06	0.08	<0.02	13	4.95	0.023	2.0	28.1	2.51	53.3	<0.001	<20	0.26	0.080	0.04	<0.1	9.0	<0.02	0.07	<5	<0.1	0.04	0.5
51	BUCKET 4 76163	0.47	38.72	2.15	100.0	14	34.3	16.2	518	3.27	11.2	<0.1	<0.2	1.0	53.0	0.35	0.03	<0.02	15	3.00	0.052	12.5	42.0	1.23	67.9	<0.001	<20	0.90	0.053	0.05	<0.1	3.8	<0.02	0.07	<5	<0.1	<0.02	3.1
52	BUCKET 4 747715	0.21	37.75	2.52	73.0	66	30.4	19.8	675	4.17	21.9	0.1	245.0	1.3	122.9	0.10	0.21	0.07	22	4.24	0.094	12.2	35.3	1.83	31.0	<0.001	<20	0.76	0.068	0.06	<0.1	5.0	<0.02	0.10	<5	0.1	0.06	2.5
53	BUCKET 4 109868	1.07	96.25	2.05	71.2	45	56.5	37.6	1136	5.84	0.4	0.1	7.3	1.1	6.2	0.07	0.06	<0.02	8	0.01	0.064	17.1	31.6	0.06	128.7	<0.001	<20	0.55	0.009	0.14	<0.1	4.9	<0.02	<0.02	10	<0.1	<0.02	1.0
54	BUCKET 4 112201	0.22	25.09	16.65	33.3	90	18.5	3.1	360	3.80	0.5	0.1	10.4	1.0	3.4	0.02	0.09	0.12	23	<0.01	0.032	8.8	33.6	0.01	53.0	<0.001	<20	0.42	0.008	0.07	0.6	5.3	<0.02	<0.02	7	0.4	0.12	1.2
55	BUCKET 4 110393	0.62	69.25	2.05	73.6	26	30.7	19.0	1176	4.98	1.0	<0.1	6.4	0.3	161.8	0.06	0.08	<0.02	8	3.20	0.107	1.9	43.4	1.66	76.3	<0.001	<20	0.31	0.073	0.09	<0.1	5.4	<0.02	0.05	<5	<0.1	0.04	0.9
56	BUCKET 4 77301	0.36	17.00	1.93	37.0	69	26.0	11.1	449	2.21	0.7	0.2	15.6	1.1	79.4	0.07	0.02	0.03	5	3.03	0.058	9.2	78.3	1.07	60.8	<0.001	<20	0.40	0.046	0.10	<0.1	1.8	<0.02	<0.02	<5	<0.1	0.07	1.3
57	BUCKET 4 747647	1.41	42.23	2.57	54.2	51	21.5	14.0	453	3.18	32.7	0.1	22.5	1.1	99.9	0.05	0.17	0.08	7	2.73	0.072	7.7	30.5	1.12	34.6	<0.001	<20	0.28	0.060	0.09	<0.1	2.6	<0.02	0.11	<5	0.2	0.07	0.8
58	BUCKET 4 111272	2.24	106.87	6.22	62.1	136	54.4	104.6	2747	8.30	1.4	0.4	280.5	0.5	3.3	0.12	<0.02	0.07	115	<0.01	0.103	11.8	126.5	0.01	298.4	0.003	<20	0.96	0.004	0.04	<0.1	10.2	<0.02	<0.02	32	0.2	0.60	10.4
59	BUCKET 4 110316	0.70	103.10	1.43	98.8	71	37.8	22.1	672	4.26	8.8	<0.1	2.8	0.7	66.8	0.19	0.33	0.10	12	3.44	0.056	6.9	28.2	1.84	13.4	<0.001	<20	0.23	0.070	0.03	<0.1	6.8	<0.02	<0.02	<5	0.2	0.02	0.7
60	BUCKET 4 747793	0.23	52.74	3.01	57.6	37	53.5	27.7	807	4.05	2.9	<0.1	5.7	0.4	241.4	0.10	0.07	0.13	12	5.09	0.027	2.4	34.0	2.52	35.1	<0.001	<20	0.32	0.056	0.14	<0.1	6.5	<0.02	0.09	<5	<0.1	0.05	0.7
61	BUCKET 5 747920	0.37	111.18	1.48	99.7	69	38.0	39.2	1344	7.77	0.9	<0.1	1.5	<0.1	173.0	0.14	0.02	0.05	112	3.46	0.039	1.0	38.0	3.11	88.9	<0.001	<20	1.80	0.042	0.02	<0.1	19.5	<0.02	0.03	<5	0.3	0.03	6.2
62	BUCKET 5 111811	0.23	104.39	0.90	94.0	46	43.8	42.3	1333	8.28	1.0	<0.1	0.3	<0.1	109.3	0.11	<0.02	<0.02	254	4.64	0.040	0.9	43.7	2.72	3.3	0.010	<20	3.88	0.003	<0.01	<0.1	26.4	<0.02	0.11	<5	0.3	0.03	13.8
63	BUCKET 5 109067	0.25	154.17	2.12	195.3	33	44.6	124.4	2607	7.86	0.7	<0.1	3.7	0.4	11.9	0.14	0.03	0.02	82	0.33	0.081	10.6	32.6	0.48	282.5	0.012	<20	1.70	0.005	0.09	<0.1	7.8	<0.02	<0.02	7	0.2	<0.02	6.5
64	BUCKET 5 77875	0.44	66.29	1.42	73.1	28	106.8	33.3	1075	5.38	0.8	<0.1	3.3	0.2	113.5	0.10	<0.02	<0.02	53	4.91	0.067	3.7	138.0	3.00	22.5	0.001	<20	2.15	0.009	0.07	<0.1	8.2	<0.02	0.03	<5	<0.1	0.03	5.9
65	BUCKET 5 77815	0.15	36.38	2.03	83.4	62	28.6	17.3	647	3.40	0.3	<0.1	71.9	0.8	10.5	0.10	<0.02	0.05	12	0.09	0.031	11.4	23.9	0.35	61.5	<0.001	<20	1.15	0.045	0.04	<0.1	2.7	<0.02	<0.02	5	0.1	0.04	3.8
66	BUCKET 5 77593	0.29	71.58	4.03	65.8	50	45.3	22.8	893	4.71	24.9	<0.1	1.1	0.4	189.0	0.07	0.06	0.05	73	4.30	0.075	5.2	144.5	2.15	45.9	0.019	<20	2.71	0.010	0.11	<0.1	4.7	<0.02	0.12	<5	0.4	0.03	7.5
67	BUCKET 5 112251	1.33	105.50	3.60	46.0	171	53.0	105.6	3738	8.79	1.5	0.4	16.6	0.6	5.4	0.08	<0.02	<0.02	139	0.01	0.106	8.8	89.8	0.02	399.2	0.005	<20	1.08	0.002	0.01	<0.1	10.1	<0.02	<0.02	<5	0.3	0.03	10.3
68	BUCKET 5 112316	0.28	60.27	5.60	80.6	40	32.7	95.9	1390	3.10	2.1	0.4	14.3	2.9	2.2	0.08	<0.02	<0.02	15	<0.01	0.023	38.5	29.8	0.03	84.5	<0.001	<20	0.49	0.009	0.06	<0.1	1.3	<0.02	<0.02	<5	0.3	<0.02	1.5
69	BUCKET 5 111023	0.31	88.51	0.56	95.8	30	39.9	40.8	1389	8.58	1.2	<0.1	0.9	0.2	79.6	0.12	<0.02	<0.02	255	5.10	0.043	3.3	47.1	2.62	3.1	0.023	<20	4.32	<0.001	<0.01	<0.1	25.6	<0.02	0.06	<5	0.2	<0.02	14.2
70	BUCKET 5 111744	0.96	134.73	3.29	43.9	118	8.6	11.9	1733	11.60	1.6	0.2	69.3	0.3	2.5	0.04	<0.02	0.07	180	0.02	0.077	6.0	56.2	0.02	93.3	0.001	<20	1.28	0.024	0.05	0.2	15.3	<0.02	<0.02	14	0.2	0.04	11.7
71	BUCKET 5 75894	0.11	25.55	2.36	66.1	39	32.1	16.1	217	2.98	0.3	0.6	11.3	1.5	21.4	0.07	<0.02	<0.02	26	0.35	0.158	22.1	32.0	0.47	21.6	0.002	<20	1.18	0.031	0.08	<0.1	2.1	<0.02	<0.02	<5	<0.1	<0.02	3.3
72	BUCKET 5 110248	0.26	83.05	3.54	26.8	67	25.8	67.3	1220	3.31	1.9	0.3	72.6	1.4	3.2	0.08	0.02	0.05	65	<0.01	0.039	34.1	100.8	0.01	216.2	<0.001	<20	0.47	0.028	0.08	<0.1	6.5	<0.02	<0.02	5	0.2	0.04	2.6
73	BUCKET 5 738782	0.49	78.41	1.07	85.5	72	35.1	35.5	1343	8.08	1.1	<0.1	1.9	<0.1	99.3	0.15	0.14	0.02	46	5.50	0.040	0.8	31.2	2.33	17.0	<0.001	<20	0.66	0.063	0.04	<0.1	14.3	<0.02	0.11	<5	0.2	0.03	2.6
74	BUCKET 5 75772	0.71	55.79	1.33	81.7	33	55.3	28.0	906	5.95	0.5	<0.1	2.9	0.6	156.0	0.09	0.07	<0.02	17	3.41	0.107	10.5	31.3	2.16	41.5	<0.001	<20	0.45	0.112	0.12	<0.1	7.0	<0.02	<0.02	<5	<0.1	<0.02	1.1
75	BUCKET 5 746216	0.35	83.63	1.95	66.1	37	44.2	23.2	866	5.33	0.4	<0.1	3.8	0.2	116.2	0.07	0.08	0.03	105	4.08	0.113	2.9	142.6	2.30	140.3	0.002	<20	2.25	0.021	0.07	<0.1	8.5	<0.02	0.02	<5	<0.1	0.02	7.6
76	BUCKET 6 110096	0.55	73.79	1.15	86.8	34	28.7	27.4	997	6.22	1.4	<0.1	36.1	0.4	103.0	0.12	0.08	0.04	52	3.74	0.148	10.9	46.2	1.75	34.8	0.005	<20	2.78	<0.001	0.19	<0.1	3.4	<0.02	0.11	<5	<0.1	0.05	6.9
77	BUCKET 6 738740	0.50	133.14	2.85	77.2	129	58.6	36.7	1176	6.67	3.9	<0.1	29.2	<0.1	266.5	0.12	0.12	0.03	71	4.91	0.048	1.0	113.8	3.18	18.9	0.002	<20	2.12	0.004	0.09	<0.1	10.2	<0.02	0.10	<5	0.2	0.21	5.7
78	BUCKET 6 110090	0.59	60.22	3.25	148.5	36	65.0	26.1	702	4.39	34.1	0.2	42.4	1.5	10.5	0.19	0.14	0.05	41	0.08	0.064	24.6	77.0	0.39	72.7	<0.001	<20	1.45	0.024	0.05	<0.1	3.6	<0.02	<0.02	13	<0.1	0.06	6.8

S. No:	Sample ID	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	%	PPB	PPM	PPM	PPM
79	BUCKET 6 111863	0.42	23.93	2.63	52.5	34	15.4	6.0	639	3.30	0.5	0.2	17.7	0.8	3.4	0.03	0.30	<0.02	4	<0.01	0.035	11.1	17.4	0.01	123.0	<0.001	<20	0.33	0.031	0.10	<0.1	2.6	0.02	<0.02	<5	<0.1	<0.02	0.7
80	BUCKET 6 738756	0.63	57.96	1.70	56.4	87	43.2	18.8	751	3.90	1.1	<0.1	348.3	0.5	116.3	0.09	0.07	0.03	11	4.26	0.071	3.6	65.6	1.67	63.7	0.001	<20	0.55	0.026	0.14	<0.1	4.2	<0.02	0.12	<5	0.2	0.28	1.3
81	BUCKET 6 108705	0.09	99.40	0.51	104.7	58	33.1	33.4	1056	9.55	0.8	<0.1	14.0	0.1	58.2	0.13	0.05	<0.02	169	4.16	0.040	1.9	50.9	2.70	6.3	0.002	<20	3.27	0.025	0.02	<0.1	19.2	<0.02	<0.02	<5	0.1	<0.02	10.9
82	BUCKET 6 108627	0.23	118.78	1.81	128.8	86	53.9	46.7	760	11.33	2.3	<0.1	8.9	0.2	14.3	0.17	0.02	0.13	296	0.33	0.056	4.9	52.2	1.58	21.1	0.014	<20	3.25	0.009	0.04	<0.1	26.7	<0.02	<0.02	15	<0.1	0.13	15.4
83	BUCKET 6 108919	0.08	21.04	0.95	60.7	26	19.4	15.9	657	3.35	0.3	<0.1	2.4	0.6	46.2	0.06	0.04	<0.02	38	2.46	0.044	11.3	36.0	1.28	16.5	0.005	<20	1.34	0.046	0.02	<0.1	5.1	<0.02	<0.02	<5	<0.1	<0.02	6.5
84	BUCKET 6 111253	0.19	131.91	1.40	71.9	51	29.8	69.1	1501	13.86	1.0	<0.1	5.4	0.4	2.1	0.15	0.06	0.03	370	<0.01	0.022	5.4	46.1	0.05	22.4	0.030	<20	1.56	<0.001	<0.01	<0.1	26.4	<0.02	<0.02	15	0.2	<0.02	16.5
85	BUCKET 6 75845	0.33	96.09	1.26	76.7	35	54.7	38.2	1252	7.12	2.5	<0.1	7.7	0.1	238.4	0.11	0.14	<0.02	91	4.71	0.058	1.8	106.7	3.08	31.8	0.002	<20	2.27	0.014	0.10	<0.1	12.6	<0.02	0.09	<5	0.3	<0.02	7.0
86	BUCKET 6 108839	1.08	51.34	4.85	205.1	512	69.1	32.6	1237	3.34	0.6	0.2	13.2	1.4	12.6	0.17	0.05	0.12	22	0.03	0.033	21.3	41.0	0.45	244.3	<0.001	<20	1.42	0.016	0.04	0.4	2.5	<0.02	<0.02	11	<0.1	<0.02	4.6
87	BUCKET 6 108856	0.09	65.32	1.48	78.8	179	11.7	25.2	941	5.51	0.6	<0.1	141.5	1.5	115.8	0.07	0.03	0.05	87	4.11	0.111	18.1	35.3	2.37	13.4	0.003	<20	1.89	0.045	0.04	<0.1	11.5	<0.02	<0.02	<5	<0.1	0.09	6.8
88	BUCKET 6 36555	0.70	70.69	4.09	75.9	66	79.9	32.3	1060	6.21	0.6	<0.1	3.5	0.2	241.3	0.11	0.08	0.06	105	4.19	0.083	2.5	332.3	4.06	32.4	0.002	<20	2.80	0.006	0.06	<0.1	10.4	<0.02	<0.02	<5	<0.1	0.05	7.3
89	BUCKET 6 34236	1.32	123.59	1.50	53.3	49	33.1	21.4	680	3.75	24.9	<0.1	4.7	0.2	65.8	0.08	0.40	<0.02	77	2.29	0.056	1.4	211.1	1.71	78.1	0.202	<20	1.97	0.017	0.01	0.1	2.7	<0.02	0.03	<5	<0.1	<0.02	5.1
90	BUCKET 6 36585	0.73	49.60	2.42	75.8	28	82.8	34.3	1134	5.95	1.6	<0.1	1.8	0.3	308.6	0.09	0.18	<0.02	99	4.14	0.049	3.7	269.6	3.72	21.2	0.003	<20	2.57	0.008	0.04	<0.1	13.8	<0.02	0.03	<5	<0.1	<0.02	8.5
91	BUCKET 7 36731	1.82	38.04	1.44	79.6	30	46.3	24.5	936	5.15	0.8	<0.1	0.8	0.6	145.1	0.11	0.11	<0.02	14	4.14	0.099	8.6	91.3	1.90	35.9	<0.001	<20	0.36	0.079	0.09	<0.1	6.4	<0.02	<0.02	<5	<0.1	<0.02	0.9
92	BUCKET 7 36789	1.13	58.07	3.68	62.7	41	66.8	27.5	840	4.41	0.4	<0.1	30.4	0.6	547.3	0.07	0.62	0.09	14	4.16	0.112	4.9	88.6	3.50	138.4	<0.001	<20	0.29	0.019	0.16	0.1	6.3	<0.02	0.16	<5	<0.1	0.05	0.8
93	BUCKET 7 36618	1.29	48.40	0.91	74.6	45	48.9	24.9	901	5.17	0.7	<0.1	3.5	0.6	134.2	0.11	0.07	<0.02	25	4.20	0.098	9.7	97.4	2.06	41.4	0.001	<20	0.53	0.105	0.04	<0.1	10.6	<0.02	<0.02	<5	0.1	<0.02	1.7
94	BUCKET 7 36725	0.42	148.06	1.48	342.5	72	93.1	54.6	1527	10.83	5.7	<0.1	29.9	0.2	10.2	0.30	0.05	0.06	223	0.11	0.099	4.2	117.5	1.12	310.3	0.008	<20	3.24	0.005	0.08	<0.1	19.4	<0.02	<0.02	73	0.3	0.05	13.7
95	BUCKET 7 37755	0.31	42.62	3.31	74.7	17	37.1	12.1	60	3.72	15.9	0.2	3.4	2.4	11.1	0.06	0.66	0.07	5	0.07	0.105	25.5	11.7	0.03	20.5	<0.001	<20	0.44	0.033	0.06	0.9	3.3	<0.02	<0.02	<5	<0.1	0.03	0.6
96	BUCKET 7 33969	0.56	114.41	4.14	77.8	94	60.3	157.7	3458	5.12	1.5	0.2	19.1	0.7	3.7	0.08	0.07	0.05	57	<0.01	0.067	20.4	108.7	0.02	263.9	<0.001	<20	0.87	0.012	0.10	<0.1	6.4	<0.02	<0.02	9	<0.1	0.03	5.0
97	BUCKET 7 36678	1.81	73.32	0.79	90.5	51	40.2	31.6	1125	6.97	11.8	<0.1	242.0	0.2	95.7	0.11	0.17	0.03	71	4.42	0.064	2.6	57.1	2.17	45.9	0.001	<20	1.19	0.045	0.02	<0.1	15.8	<0.02	0.11	<5	<0.1	0.03	4.1
98	BUCKET 7 36861	1.77	69.94	2.19	72.4	63	35.1	23.4	953	5.33	2.4	<0.1	4.4	0.3	187.5	0.08	0.11	0.04	12	4.20	0.102	4.6	67.2	1.83	38.1	<0.001	<20	0.35	0.034	0.13	<0.1	5.4	<0.02	0.04	<5	0.1	0.13	0.8
99	BUCKET 7 36645	0.38	125.09	1.84	61.5	81	35.5	52.9	1525	3.78	1.2	<0.1	741.6	1.1	3.0	0.17	0.11	0.19	38	0.01	0.025	29.6	46.3	0.06	76.3	<0.001	<20	0.58	0.007	0.12	<0.1	2.1	<0.02	<0.02	6	0.1	0.19	1.7
100	BUCKET 7 33996	0.72	105.21	2.58	39.0	43	5.3	3.9	491	12.50	1.3	<0.1	10.4	0.4	3.0	0.06	0.11	<0.02	199	<0.01	0.073	3.6	48.2	<0.01	27.4	0.004	<20	1.16	0.006	0.05	<0.1	16.8	<0.02	<0.02	13	0.4	<0.02	13.2
101	BUCKET 7 36487	0.48	99.35	1.24	76.7	55	56.9	46.6	1376	7.88	22.3	<0.1	4.7	<0.1	237.1	0.12	0.13	<0.02	117	5.04	0.030	0.8	77.8	3.29	26.5	0.003	<20	2.42	0.008	0.08	<0.1	15.5	<0.02	0.16	<5	0.4	0.04	7.7
102	BUCKET 7 41058	1.57	51.49	1.60	62.9	24	36.5	23.8	943	4.79	32.9	<0.1	1.3	0.3	312.8	0.08	0.17	<0.02	92	5.13	0.071	4.2	138.9	2.58	39.6	0.004	<20	2.95	0.007	0.13	<0.1	9.0	<0.02	<0.02	<5	<0.1	<0.02	7.4
103	BUCKET 7 37482	2.55	55.88	3.30	41.5	61	23.7	12.3	465	2.78	5.5	0.1	44.2	1.0	93.9	0.04	0.44	0.09	7	2.78	0.061	8.6	57.8	1.15	45.5	<0.001	<20	0.27	0.056	0.11	0.1	2.3	<0.02	0.12	<5	0.2	0.02	0.7
104	BUCKET 7 36347	0.41	101.24	0.89	93.7	31	40.6	40.6	1415	9.05	0.7	<0.1	2.4	<0.1	103.0	0.14	0.04	<0.02	249	5.06	0.043	1.2	51.4	2.46	3.8	0.006	<20	3.64	0.003	<0.01	<0.1	24.0	<0.02	0.07	<5	0.3	0.02	14.0
105	BUCKET 7 36131	0.60	109.72	0.85	100.0	49	52.1	46.1	1381	9.62	0.8	<0.1	13.6	0.1	61.9	0.12	0.07	0.02	179	2.99	0.043	2.6	67.8	2.47	9.9	0.003	<20	3.38	0.007	0.04	<0.1	17.4	<0.02	0.02	<5	0.3	<0.02	12.3
106	BUCKET 8 170102	2.13	46.78	1.60	73.6	75	43.0	19.2	623	4.02	1.2	<0.1	34.1	0.5	64.8	0.06	0.08	0.11	32	2.76	0.054	5.0	51.8	1.73	62.0	<0.001	<20	1.49	0.049	0.03	<0.1	5.5	<0.02	0.16	<5	0.3	0.08	6.1
107	BUCKET 8 164335	0.54	98.79	2.22	103.2	63	23.6	22.1	1048	5.80	22.5	<0.1	2.7	0.3	97.5	0.13	0.11	0.04	30	3.36	0.119	18.8	31.3	1.42	62.0	0.001	<20	1.44	0.011	0.13	<0.1	4.9	<0.02	0.04	5	0.2	0.05	3.1
108	BUCKET 8 112646	0.15	61.21	0.53	107.2	35	23.5	35.4	1416	8.66	1.1	<0.1	2.8	0.1	22.9	0.10	0.13	<0.02	186	0.64	0.064	1.8	58.8	2.33	16.6	0.210	<20	3.77	0.007	<0.01	0.1	16.8	<0.02	<0.02	<5	<0.1	<0.02	16.3
109	BUCKET 8 816873	0.44	68.49	4.31	79.2	172	78.9	29.3	996	5.01	1.9	<0.1	546.9	0.4	151.9	0.16	0.05	0.06	59	4.73	0.074	5.7	118.3	2.77	20.4	0.003	<20	1.99	0.027	0.10	3.7	7.9	<0.02	0.03	<5	0.2	0.30	7.0
110	BUCKET 8 170651	0.34	56.76	2.56	69.8	44	42.4	25.0	742	4.36	3.0	<0.1	10.8	0.7	115.8	0.03	0.40	0.06	12	2.91	0.064	5.0	25.9	1.83	29.3	<0.001	<20	0.31	0.078	0.10	<0.1	4.2	<0.02	0.26	<5	0.2	0.18	0.9
111	BUCKET 8 112590	0.13	25.53	2.10	85.5	37	24.8	19.8	641	3.64	0.7	0.1	15.4	1.4	38.2	0.08	0.09	0.04	18	1.08	0.187	25.3	19.9	0.44	31.1	0.006	<20	1.05	0.038	0.12	<0.1	2.3	<0.02	<0.02	<5	<0.1	<0.02	2.9
112	BUCKET 8 89805	0.17	90.98	0.79	85.2	35	41.2	40.1	1400	7.29	0.9	<0.1	6.7	0.1	114.7	0.12	0.05	<0.02	171	4.66	0.042	2.2	39.7	2.37	65.1	0.028	<20	3.10	0.010	0.07	<0.1	13.0	<0.02	0.16	<5	0.5	0.04	10.2
113	BUCKET 8 172282	0.53	79.85	0.34	94.4	33	38.7	37.8	1191	6.51	1.7	<0.1	59.7	0.1	36.0	0.06	0.13	<0.02	132	2.98	0.042	1.1	57.6	2.47	1.7	0.248	<20	3.36	0.005	<0.01	<0.1	4.3	<0.02	0.05	<5	0.3	<0.02	9.1
114	BUCKET 8 172154	0.09	36.36	1.52	38.7	77	28.0	10.5	342	1.88	0.3	<0.1	5.9	1.5	83.3	0.05	0.06	0.04	8	2.80	0.078	18.3	35.1	0.83	25.8	0.004	<20	0.25	0.048	0.06	<0.1	1.3	<0.02	<0.02	<5	0.1	<0.02	0.8
115	BUCKET 8 111521	0.36	99.14	2.03	72.4	79	102.3	31.1	996	5.59	1.1	<0.1	28.2	0.2	245.4	0.12	0.04	0.11	79	5.05	0.060	1.2	226.5	4.27	43.5	0.001	<20	2.84	0.005	0.06	<0.1	9.8	<0.02	0.06	<5	0.3	0.15	6.7
116	BUCKET 8 173595	0.61	100.56	1.50	83.1	60	44.7	40.7	1214	7.32	0.6	<0.1	16.0	<0.1	143.4	0.12	0.03	0.05	94	5.18	0.036	0.9	42.9	2.16	11.5	0.002	<20	1.87	0.012	0.05	<0.1	14.3	<0.02	0.09	<5	0.3	0.02	7.1
117	BUCKET 8 816450	0.69	206.48	3.21	178.8	116	91.7	42.8	1923	7.89	32.1	<0.1	11.0	0.4	4.2	0.27	0.16	0.06	81	0.03	0.089	30.0	162.4	0.23	208.5	<0.001	<20	0.94	0.006	0.12	0.2	5.7	<0.02	<0.02	80	0.5	0.09	3.0
118	BUCKET 8 112607	0.68	103.75	0.73	87.2	26	39.5	40.7	1452	7.56	0.5	<0.1	2.8	<0.1	89.9	0.15	<0.02	0.02	190	5.38	0.041	1.8	41.9	2.24	6.5	0.009	<20	3.62	0.007	0.02	<0.1	17.6	<0.02	0.12	<5	0.5	<0.02	12.7
119	BUCKET 8 172030	0.16	8.36	2.23	30.5	72	18.2	9.7	421	2.08	0.4	0.2	12.4	1.7	94.3	0.05	0.04	0.10	4	2.96	0.079	18.9	26.4	0.95	35.9	<0.001	<20	0.31	0.045	0.13	<0.1	1.7	<0.02	<0.02	<5	0.1	0.55	1.0
120	BUCKET 8 816791	0.28	75.34	2.06	67.1	31	47.5	25.1	958	4.92	1.4	<0.1	0.8	0.2	214.5	0.07	0.07	<0.02	52	3.91	0.105	2.8	136.6	2.72	24.9	0.001	<20	1.76	0.017	0.08	<0.1	7.2	<0.02	<0.02	<5	0.2	<0.02	5.4
121	BUCKET 9 111465	0.32	71.74	2.02	66.7	38	65.8	28.2	934	5.31	1.4	<0.1	2.0	0.2	305.2	0.09	0.06	<0.02	57	3.92	0.117	3.0	161.2	2.84	39.1	0.002	<20	1.98	0.018	0.08	<0.1	8.3	<0.02	0.05	<5	0.3	<0.02	5.7
122	BUCKET 9 171259	0.11	96.36	2.78	151.5	105	66.8	38.5	1024	7.46	2.7	<0.1	17.2	0.3	20.0	0.18	<0.02	0.03	187	0.40	0.077	6.5	232.9	1.33	92.7	0.019	<20	3.07	0.023	0.03	<0.1	19.3	<0.02	<0.02	<5	0.2	0.04	11.7
123	BUCKET 9 816817	0.67	158.11	4.37	83.9	266	65.2	135.4	3952	7.88	11.0	<0.1	7.8	0.4	4.6	0.15	0.08	0.05	89	<0.01	0.103	20.0	116.3	0.02	302.8	0.001	<20	0.94	0.021	0.06	0.3	10.2	<0.02	<0.02	27	0.2	0.03	5.7
124	BUCKET 9 816264	0.34	85.75	3.06	57.1	41	73.6	27.8	968	4.90	3.3	<0.1	1.3	0.3	303.8	0.06	0.11	0.04	21	3.61	0.104	3.7	101.9	3.16	54.0	0.001	<20	0.89	0.012	0.16	<0.1	5.2	<0.02	0.04	<5	0.2	0.03	2.0
125	BUCKET 9 112772	5.23	74.92	2.51	62.3	51	42.4	23.1	927	4.70	6.1	<0.1	1.4	0.3	234.5	0.07	0.06	0.06	62	4.54	0.099	3.7	124.3	2.21	53.0	0.006	<20	2.87	0.011	0.16	<0.1	4.0	<0.02	0.04	<5	0.2	0.04	6.8
126	BUCKET 9 172380	0.39	95.05	1.30	91.8	30	46.9	39.7	1283	7.56	2.7	<0.1	11.9	0.1	146.7	0.10	0.06	0.02	180	4.35	0.051	1.5	62.1	2.54	135.0	0.005	<20	3.18	0.011	0.04	<0.1	17.8	<0.02	0.13	<5	0.3	<0.02	11.2
127	BUCKET 9 173631	0.75	98.85	1.02	70.8	97	31.6	34.8	1557	6.49	2.2	<0.1	49.5	<0.1	115.7	0.13	0.02	0.05	84	7.59	0.039	1.1	33.2	1.04	16.3	0.002	<20	2.75	0.003	0.13	20.5	6.6	<0.02	0.32	<5	0.5	0.08	7.2
128	BUCKET 9 111049	1.13	40.37	1.08	48.6	46	35.7	16.7	562	3.11	0.3	<0.1	100.8	0.9	65.4	0.04	0.03	<0.02	5	3.39	0.055	7.8	19.7	1.27	43.1	<0.001	<20	0.25	0.051	0.07	<0.1	3.1	<0.02	0.04	<5	0.2	<0.02	0.7
129	BUCKET 9 228065	0.17	29.13	1.26	60.3	137	19.6	15.0	608	3.02	0.4	<0.1	224.2	0.7	52.8	0.05	0.03	0.05	17	2.49	0.051	13.0	45.1	1.31	93.1	0.004	<20	1.35	0.063	0.08	<0.1	2.6	<0.02	<0.02	<5	0.2	0.14	5.3
130	BUCKET 9 816704	0.81	68.22	1.98	65.9	32	30.4	22.4	983	5.01	12.3	<0.1	6.7	0.3	190.0	0.08	0.05	0.07	26	4.70	0.092	3.4	46.0	1.95	35.5	0.001	<20	1.31	0.007	0.15	<0.1	3.5	<0.02	0.05	<5	0.2	<0.02	3.2
131	BUCKET 9 172707	0.43	94.18	0.60	73.2	11	40.8	36.9	1534	7.19	0.7	<0.1	18.8	<0.1	104.9	0.13	0.02	<0.02	93	6.21	0.034	1.4	45.0	2.71	40.1	0.001	<20	2.22	0.009	0.08	<0.1	12.3	<0.02	<0.02	<5	0.3	<0.02	7.2
132	BUCKET 9 816465	0.36	85.17	2.65	62.9	38	52.1	24.7	941	4.60	2.5	<0.1	7.5	0.3	257.4	0.06	0.14	0.02	36	3.84	0.100	3.8	108.3	2.43	82.6	0.002	<20	1.42	0.019	0.16	<0.1	5.5	<0.02	0.05	<5	0.3	0.03	3.9
133	BUCKET 9 171852	0.32	64.70	2.05	71.3	34	44.9	28.6	916	5.39	32.5	<0.1	2.4	0.3	131.8	0.08	0.14	0.03	22	4.62	0.079	2.2	67.0	2.52	33.2	<0.001	<20	0.81	0.028	0.16	<0.1	5.8	<0.02	0.05	<5	0.3	0.02	1.8
134	BUCKET 9 173161	1.45	68.47	1.17	87.0	27	12.7	16.7	896	4.77	8.8	<0.1	9.9	0.6	97.8	0.09	0.04	0.08	14	3.96	0.142	16.5	17.9	0.97	66.7	0.003	<20	2.07	0.003	0.24	<0.1	2.1	0.02	0.20	<5	0.2	<0.02	5.4
135	BUCKET 9 173308	0.25	46.37	0.90	56.4	41	24.8	14.8	526	2.94	0.2	<0.1	22.3	1.0	43.5	0.06	0.08	<0.02	9	2.89	0.061	12.9	41.7	0.99	100.4	<0.001	<20	0.83	0.061	0.12	<0.1	2.4	<0.02	<0.02	<5	0.1	<0.02	2.7
136	BUCKET 10 164015	0.64	31.00	1.04	50.9	17	19.2	15.5	644	3.32	0.3	<0.1	2.9	0.7	77.1	0.05	0.04	<0.02	10	3.54	0.052	10.1	24.2	1.50	34.5	<0.001	<20	0.98	0.037	0.09	<0.1	2.9	<0.02	<0.02	<5	<0.1	<0.02	3.0
137	BUCKET 10 112388	0.68	71.82	1.94	64.6	57	67.5	26.4	990	4.62	2.3	<0.1	73.8	0.2	105.3	0.11	0.04	0.06	40	4.84	0.111	2.9	115.5	2.78	43.9	<0.001	<20	1.79	0.022	0.10	<0.1	5.3	<0.02	0.07	<5	0.2	0.08	3.9
138	BUCKET 10 112373	0.20	13.72	1.53	48.9	37	19.2	10.5	491	2.41	0.3	0.2	52.7	1.1	74.9	0.04	0.03	0.04	5	3.37	0.046	8.5	54.5	1.04	52.9	<0.001	<20	0.46	0.053	0.12	<0.1	1.6	<0.02	0.03	<5	<0.1	0.04	1.3
139	BUCKET 10 173420	0.12	98.86	0.35	110.4	20	52.3	47.3	1228	7.30	1.0	<0.1	2.6	0.1	39.1	0.03	0.10	<0.02	154	0.75	0.039	1.1	63.9	2.49	2.5	0.256	<20	3.71	0.005	<0.01	<0.1	10.5	<0.02	<0.02	<5	0.1	<0.02	9.6
140	BUCKET 10 164872	0.25	22.23	1.32	64.1	16	46.5	22.0	684	3.91	0.1	<0.1	5.8	0.7	68.9	0.03	0.03	<0.02	7	3.20	0.058	9.9	25.9	1.68	21.3	<0.001	<20	0.35	0.077	0.06	<0.1	5.2	<0.02	<0.02	<5	0.1	<0.02	1.1
141	BUCKET 10 164646	0.10	91.34	4.58	309.1	52	144.6	43.3	1457	6.70	1.8	0.3	4.8	1.4	25.3	0.23	<0.02	0.12	96	0.15	0.083	15.7	92.0	0.96	227.8	0.018	<20	3.29	0.012	0.03	<0.1	14.1	<0.02	<0.02	111	0.3	0.04	13.3
142	BUCKET 10 170804	0.58	101.57	3.23	39.0	80	31.9	31.5	1483	5.86	1.5	0.2	42.4	0.5	3.3	0.06	0.02	0.07	47	<0.01	0.073	7.9	95.1	0.03	124.7	0.001	<20	0.76	0.010	0.08	<0.1	9.0	<0.02	<0.02	13	0.3	0.14	4.4
143	BUCKET 10 816755	0.28	89.36	1.62	93.9	90	46.7	55.3	6497	4.61	1.2	<0.1	5.8	1.7	76.9	0.22	0.03	0.03	23	<0.01	0.063	27.2	30.2	0.20	243.9	0.004	<20	1.11	0.033	0.09	<0.1	2.2	<0.02	<0.02	17	0.1	<0.02	4.9
144	BUCKET 10 171282	0.34	27.18	1.26	59.9	23	13.1	19.9	880	4.38	1.8	<0.1	10.3	0.9	146.4	0.08	0.05	<0.02	28	4.13	0.091	7.5	25.2	1.06	32.1	0.002	<20	1.24	0.013	0.13	<0.1	3.0	<0.02	0.06	<5	0.3	<0.02	4.1
145	BUCKET 10 90355	8.94	84.71	2.31	69.0	67	32.3	21.0	999	3.98	14.6	0.1	43.3	0.9	27.9	0.09	0.10	0.06	10	0.41	0.068	8.0	39.6	0.89	40.4	<0.001	<20	0.39	0.056	0.07	<0.1	3.3	<0.02	0.39	14	0.3	0.14	1.3
146	BUCKET 10 816860	1.21	51.76	1.81	67.7	28	40.4	31.1	1373	6.07	1.6	<0.1	18.2	0.3	185.2	0.11	0.04	0.02	107	6.38	0.053	2.8	55.9	2.11	53.7	0.002	<20	1.67	0.021	0.07	<0.1	12.6	<0.02	0.09	10	0.2	0.07	5.8
147	BUCKET 10 228353	0.10	10.07	1.51	58.8	21	42.9	13.4	376	2.02	0.4	0.2	0.6	1.6	91.3	0.02	0.03	<0.02	11	2.14	0.074	19.8	72.6	1.31	68.9	0.001	<20	0.91	0.046	0.09	<0.1	1.7	<0.02	<0.02	<5	0.2	<0.02	3.6
148	BUCKET 10 112901	0.09	21.41	1.75	55.5	27	63.2	16.9	440	2.58	0.2	0.1	66.3	1.4	89.5	0.05	0.03	<0.02	14	2.87	0.093	17.8	60.9	1.18	29.0	0.004	<20	0.72	0.056	0.14	<0.1	1.9	<0.02	<0.02	<5	0.2	<0.02	2.0
149	BUCKET 10 170764	0.29	48.03	3.89	54.5	40	25.9	20.8	701	3.70	0.8	0.2	9.5	1.2	559.0	0.05	0.18	0.07	12	3.39	0.121	9.5	19.7	2.05	285.1	0.001	<20	0.30	0.030	0.17	<0.1	4.2	<0.02	0.29	8	0.5	0.11	0.8
150	BUCKET 10 110718	0.37	69.76	1.66	69.2	39	42.4	28.0	1212	5.40	1.4	<0.1	3.2	0.2	85.4	0.06	0.02	0.06	16	6.69	0.092	1.5	47.8	1.20	25.2	<0.001	<20	0.61	0.032	0.11	<0.1	4.4	<0.02	0.05	<5	0.2	0.05	1.4
151	BUCKET 11 173801	0.12	35.38	1.72	23.1	75	18.9	39.3	681	2.51	0.3	0.3	3.5	1.1	12.2	0.05	<0.02	0.03	24	0.03	0.037	48.0	29.6	0.03	66.1	0.005	<20	0.54	0.030	0.06	<0.1	2.7	<0.02	<0.02	10	0.4	<0.02	2.3
152	BUCKET 11 112924	0.76	110.92	0.65	105.5	44	37.9	45.4	1612	9.09	3.6	<0.1	2.8	0.3	98.2	0.16	0.08	0.04	253	5.52	0.046	4.3	36.7	2.41	17.8	0.324	<20	3.72	0.011	0.02	<0.1	21.3	<0.02	0.14	6	0.4	0.03	14.2
153	BUCKET 11 727276	0.39	48.53	2.50	85.1	42	132.4	36.5	473	6.30	13.2	<0.1	0.9	0.5	6.9	0.06	0.15	0.08	118	0.15	0.057	5.3	247.6	2.96	8.0	0.006	<20	3.65	0.013	0.02	<0.1	11.4	<0.02	0.14	<5	0.3	0.03	11.1
154	BUCKET 11 170704	0.31	73.43	6.22	60.2	52	120.1	32.6	1123	5.20	1.4	1.0	36.9	12.8	1569.4	0.10	0.19	0.07	96	6.32	0.270	36.7	340.8	4.29	554.9	0.002	<20	2.22	0.040	0.03	<0.1	12.6	<0.02	0.15	<5	0.2	<0.02	6.7
155	BUCKET 11 172009	2.63	31.83	1.82	54.7	72	41.7	11.6	498	2.22	0.3	0.3	173.2	1.7	244.8	0.06	0.06	0.16	10	2.84	0.083	17.7	43.0	1.21	105.1	<0.001	<20	0.69	0.063	0.09	<0.1	2.1	<0.02	<0.02	<5	<0.1	0.02	2.8
156	BUCKET 11 173627	0.72	58.84	1.26	73.9	59	56.1	28.7	972	5.64	0.8	<0.1	74.1	0.7	116.8	0.09	0.03	0.03	102	3.67	0.066	11.1	63.0	2.22	55.9	0.004	<20	3.03	0.019	0.09	<0.1	8.1	<0.02	0.10	<5	0.3	0.06	10.0
157	BUCKET 11 172822	0.26	88.24	1.40	102.0	58	38.0	43.0	1531	9.31	1.8	<0.1	11.2	0.2	172.4	0.16	0.02	0.04	259	5.28	0.058	3.0	40.9	2.44	5.4	0.011	<20	3.82	0.005	0.01	<0.1	22.3	<0.02	0.10	<5	0.3	<0.02	13.4
158	BUCKET 11 164695	0.57	33.55	1.67	48.5	147	36.1	112.6	3038	3.52	<0.1	0.3	22.3	1.2	4.4	0.07	0.03	<0.02	13	0.06	0.047	74.1	17.9	0.09	252.9	<0.001	<20	1.23	0.036	0.07	0.2	3.4	<0.02	<0.02	13	<0.1	<0.02	3.6
159	BUCKET 11 163315	1.00	24.00	5.02	57.9	38	41.5	17.1	652	3.45	35.5	0.2	4.6	1.4	140.5	0.07	0.32	0.06	48	3.11	0.064	14.3	102.1	1.62	46.0	0.003	<20	2.32	0.027	0.08	<0.1	3.6	<0.02	0.12	<5	0.1	<0.02	8.6
160	BUCKET 11 172543	0.31	20.75	2.02	50.6	24	30.1	18.9	604	3.73	0.9	0.2	1.0	1.6	108.5	0.04	0.03	0.06	12	4.20	0.079	15.8	33.2	1.39	35.4	<0.001	<20	0.34	0.041	0.14	<0.1	4.2	<0.02	<0.02	<5	<0.1	<0.02	0.9
161	BUCKET 11 816782	1.18	82.74	3.04	91.4	496	44.8	40.1	1450	8.41	8.2	<0.1	4501.9	<0.1	236.4	0.18	0.05	0.20	151	5.57	0.054	1.1	60.4	2.23	27.4	0.003	<20	2.37	0.012	0.10	<0.1	13.4	<0.02	0.62	<5	0.9	0.19	8.6
162	BUCKET 11 816774	0.15	95.56	1.54	103.7	44	39.6	45.1	1437	9.81	0.7	<0.1	1.6	0.1	166.2	0.14	0.04	0.02	266	4.37	0.058	2.0	39.9	2.47	55.5	0.009	<20	3.25	0.017	0.03	<0.1	22.1	<0.02	0.15	<5	0.6	<0.02	13.1
163	BUCKET 11 89891	0.65	67.15	2.75	43.8	53	12.8	3.9	868	6.58	25.6	0.5	27.8	1.6	11.0	0.06	0.20	0.15	63	0.02	0.143	19.6	24.7	0.02	128.8	0.001	<20	1.21	0.016	0.03	<0.1	8.0	0.04	<0.02	9	0.1	<0.02	8.4
164	BUCKET 11 229236	0.79	17.59	1.67	49.0	19	36.1	16.2	609	3.41	0.4	<0.1	25.8	1.1	79.5	0.04	0.03	<0.02	8	3.31	0.057	11.2	38.2	1.42	66.5	<0.001	<20	0.34	0.079	0.10	<0.1	3.7	<0.02	<0.02	<5	<0.1	<0.02	0.9
165	BUCKET 11 17809	0.51	83.85	1.70	95.5	65	34.8	40.6	1454	9.13	2.8	<0.1	44.4	0.1	210.2	0.14	<0.02	0.05	184	5.27	0.057	1.6	33.0	2.40	22.9	0.006	<20	3.18	0.007	0.08	<0.1	16.3	<0.02	0.24	<5	0.4	0.03	10.3

S. No:	Sample ID	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPB	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Sc PPM	Tl PPM	S %	Hg PPB	Se PPM	Te PPM	Ga PPM
166	BUCKET 12 163633	0.03	93.55	0.55	110.4	43	45.5	41.3	1344	8.62	4.2	<0.1	8.8	0.2	40.9	0.10	0.05	0.03	191	0.91	0.047	1.2	53.7	1.64	7.3	0.353	<20	2.57	0.016	<0.01	<0.1	7.7	<0.02	<0.02	<5	<0.1	<0.02	10.0
167	BUCKET 12 816923	0.63	68.34	2.07	51.4	62	22.0	22.3	1017	4.91	40.1	<0.1	7.9	0.4	128.3	0.09	0.09	0.03	50	6.04	0.068	5.6	55.4	1.42	21.7	0.004	<20	2.71	<0.001	0.13	<0.1	3.5	<0.02	0.08	<5	0.2	0.03	5.4
168	BUCKET 12 163468	0.44	135.72	1.71	87.9	150	58.8	41.0	1187	7.86	3.1	<0.1	215.3	<0.1	125.8	0.12	0.06	0.04	106	4.50	0.056	1.2	67.9	2.90	37.0	0.002	<20	2.86	0.001	0.08	<0.1	10.6	<0.02	0.12	<5	0.3	0.08	8.1
169	BUCKET 12 163499	0.21	113.08	1.33	91.8	60	46.2	44.7	1620	8.53	0.7	<0.1	7.8	<0.1	117.2	0.17	<0.02	0.03	221	5.98	0.049	1.7	43.2	2.43	8.2	0.008	<20	3.91	0.002	0.04	<0.1	19.0	<0.02	<0.02	<5	0.4	<0.02	13.0
170	BUCKET 12 816376	0.45	38.94	2.61	69.6	52	11.5	20.4	725	5.13	31.3	<0.1	34.5	0.6	309.0	0.06	0.13	0.12	64	3.14	0.127	7.2	27.6	1.22	64.0	0.004	<20	2.37	0.021	0.10	<0.1	4.7	<0.02	0.29	<5	0.4	0.11	8.2
171	BUCKET 12 90228	0.04	129.08	0.67	104.6	46	39.1	42.7	1545	8.06	0.8	<0.1	7.8	0.2	103.7	0.17	0.04	0.02	243	4.72	0.053	3.3	41.1	2.66	26.0	0.023	<20	3.74	0.007	<0.01	<0.1	22.8	<0.02	<0.02	<5	0.4	<0.02	13.3
172	BUCKET 12 817043	0.49	88.56	1.98	102.8	70	49.2	39.8	1252	8.74	4.7	<0.1	100.7	0.2	172.1	0.10	0.26	0.02	54	3.97	0.182	4.0	26.9	2.46	53.8	<0.001	<20	0.63	0.055	0.08	<0.1	12.7	<0.02	0.21	<5	0.2	0.05	2.8
173	BUCKET 12 163033	0.21	57.63	1.60	79.2	37	17.4	18.1	732	4.35	20.9	0.2	0.9	1.5	120.5	0.06	0.31	0.04	41	3.75	0.119	14.3	29.6	1.73	22.4	<0.001	<20	1.37	0.059	0.05	<0.1	5.6	<0.02	0.07	<5	0.1	0.03	5.3
174	BUCKET 12 817063	0.27	70.87	1.75	57.8	96	94.5	32.4	849	4.69	0.4	<0.1	176.9	0.2	218.6	0.06	0.05	0.16	44	4.59	0.031	2.6	54.0	2.51	44.1	0.002	<20	2.90	0.009	0.12	<0.1	3.6	<0.02	0.09	<5	0.1	0.19	6.1
175	BUCKET 12 164296	0.06	84.68	1.34	57.1	40	176.2	36.6	1284	5.96	1.0	<0.1	1.9	0.2	319.5	0.09	0.05	<0.02	193	4.86	0.072	2.3	594.8	5.05	91.3	0.006	<20	3.77	0.006	<0.01	<0.1	20.1	<0.02	0.09	<5	0.2	0.03	10.6
176	BUCKET 12 816916	0.15	84.15	1.93	69.9	59	46.6	32.1	1214	5.93	4.0	<0.1	204.1	0.1	370.7	0.09	0.09	0.03	131	5.43	0.084	2.3	210.7	3.43	37.0	0.004	<20	3.17	0.006	0.09	<0.1	13.4	<0.02	0.04	<5	<0.1	0.03	8.5
177	BUCKET 12 816215	0.18	93.82	0.73	80.5	43	35.2	35.0	1064	6.09	30.4	<0.1	3.7	0.3	115.6	0.17	0.48	<0.02	170	2.32	0.059	1.7	71.3	1.82	51.5	0.381	<20	2.68	0.037	<0.01	0.2	6.1	<0.02	0.05	<5	0.2	<0.02	9.3
178	BUCKET 12 164484	0.28	34.07	2.28	60.2	33	60.1	20.7	745	4.12	20.3	0.1	0.7	1.1	173.7	0.05	0.33	0.03	32	4.55	0.097	10.2	105.6	2.25	36.9	0.001	<20	1.27	0.069	0.09	<0.1	4.5	<0.02	0.12	<5	0.2	<0.02	4.0
179	BUCKET 12 164333	0.66	81.59	4.60	65.4	66	74.6	30.4	1033	6.11	82.2	<0.1	68.4	0.2	244.0	0.07	0.19	0.08	136	4.02	0.123	3.7	381.5	4.36	37.5	0.006	<20	4.25	<0.001	0.08	<0.1	9.6	<0.02	0.05	<5	0.2	0.07	8.8
180	BUCKET 12 164148	0.31	93.53	1.55	70.6	45	43.0	29.6	1181	5.72	1.2	<0.1	7.3	0.2	318.9	0.09	0.07	<0.02	137	4.73	0.084	3.3	198.4	3.17	32.4	0.007	<20	3.48	0.010	0.07	<0.1	14.1	<0.02	<0.02	<5	0.1	<0.02	10.2
181	BUCKET 13 172009	0.97	65.54	6.09	45.6	355	33.4	100.6	3216	3.54	0.8	1.0	1571.3	1.0	6.6	0.07	0.06	0.30	12	0.03	0.066	56.7	45.5	0.03	287.6	<0.001	<20	0.62	0.020	0.06	0.1	2.3	0.02	<0.02	22	<0.1	0.75	3.2
182	BUCKET 13 816881	0.50	61.86	0.62	80.9	43	71.7	34.0	1117	6.89	1.7	<0.1	1.4	0.5	71.2	0.08	0.05	0.02	210	3.88	0.051	6.9	147.1	2.86	7.4	0.217	<20	3.35	0.017	<0.01	0.4	17.8	<0.02	0.09	<5	0.2	<0.02	11.7
183	BUCKET 13 163044	0.63	98.91	1.87	82.0	46	7.1	15.7	1013	5.11	2.5	<0.1	0.9	0.7	116.2	0.09	0.13	0.06	11	4.15	0.149	6.3	26.2	1.13	34.9	<0.001	<20	0.69	0.044	0.17	<0.1	4.5	<0.02	0.08	<5	0.2	0.03	1.6
184	BUCKET 13 163423	0.22	114.18	3.69	64.7	224	87.1	39.3	1227	6.85	0.9	<0.1	201.9	<0.1	165.6	0.10	0.03	0.54	109	5.32	0.034	0.6	151.1	3.34	19.8	0.001	<20	2.35	0.043	0.04	<0.1	18.1	<0.02	0.32	<5	0.9	0.18	7.4
185	BUCKET 13 170082	5.36	26.83	0.70	71.6	11	26.7	24.2	1153	5.33	0.7	<0.1	0.8	0.5	97.5	0.10	0.04	0.03	54	4.49	0.084	7.2	24.2	1.91	18.1	<0.001	<20	1.54	0.074	0.06	<0.1	7.0	<0.02	<0.02	<5	0.1	<0.02	5.0
186	BUCKET 13 172108	0.16	8.34	1.70	43.9	18	45.7	13.0	350	1.98	0.3	0.2	4.1	1.8	70.3	0.05	0.06	0.03	8	2.43	0.088	15.5	56.6	1.07	34.5	0.002	<20	0.60	0.053	0.08	<0.1	2.2	0.07	<0.02	<5	<0.1	<0.02	2.5
187	BUCKET 13 89500	0.10	124.36	1.60	100.8	84	40.0	44.4	1030	9.44	0.9	<0.1	10.9	0.1	61.6	0.17	0.10	0.04	259	2.66	0.057	2.3	45.0	2.46	11.7	0.016	<20	3.06	0.022	0.03	<0.1	21.0	<0.02	<0.02	<5	0.3	<0.02	13.6
188	BUCKET 13 90460	0.33	30.14	2.76	54.7	241	46.2	18.4	880	3.40	0.4	<0.1	803.7	0.5	108.6	0.09	0.03	0.23	10	4.23	0.071	3.3	66.6	1.48	28.0	<0.001	<20	0.48	0.027	0.09	<0.1	4.1	0.06	0.12	<5	0.1	0.53	1.4
189	BUCKET 13 172137	0.34	3.69	1.96	32.4	8	17.2	10.0	366	2.09	0.4	0.2	7.6	1.9	95.8	0.05	0.03	0.03	3	2.76	0.077	17.6	41.8	0.95	64.3	<0.001	<20	0.21	0.036	0.09	<0.1	2.0	0.06	<0.02	<5	<0.1	0.07	0.7
190	BUCKET 13 171112	0.10	73.91	2.48	80.5	80	32.0	26.5	888	5.07	0.5	<0.1	281.5	0.3	93.9	0.12	0.05	0.03	36	5.09	0.045	3.3	38.8	2.05	37.6	0.001	<20	1.15	0.045	0.07	<0.1	9.2	0.05	<0.02	<5	0.2	<0.02	3.8
191	BUCKET 13 164190	0.49	47.31	4.30	58.7	55	20.9	14.8	542	3.58	72.4	0.1	20.0	1.4	115.4	0.09	0.26	0.08	33	3.09	0.101	13.7	45.3	1.26	22.2	0.003	<20	2.12	0.021	0.08	<0.1	3.0	0.05	0.15	<5	0.2	0.07	7.0
192	BUCKET 13 170109	0.34	12.19	1.91	37.5	33	22.9	12.5	570	2.71	0.8	0.2	56.2	1.1	95.4	0.09	0.06	0.02	9	3.44	0.078	10.0	34.7	1.09	85.3	<0.001	<20	0.35	0.053	0.07	<0.1	3.4	0.06	<0.02	<5	<0.1	<0.02	1.5
193	BUCKET 13 163767	0.36	46.44	1.78	63.8	28	61.6	23.9	673	4.25	0.8	<0.1	10.4	0.6	90.5	0.10	0.04	0.03	22	3.79	0.082	7.5	49.3	1.79	14.6	0.002	<20	1.26	0.020	0.04	<0.1	4.9	0.05	<0.02	<5	0.1	<0.02	4.2
194	BUCKET 13 112933	0.41	30.21	2.99	65.1	23	47.8	22.6	679	4.14	1.2	0.2	5.3	1.7	46.6	0.11	0.19	<0.02	56	2.49	0.063	13.9	62.5	1.60	13.5	0.134	<20	2.25	0.044	0.04	<0.1	7.1	0.04	<0.02	<5	0.1	<0.02	9.1
195	BUCKET 13 171126	0.18	15.12	1.42	41.1	9	36.1	11.3	396	1.94	0.4	0.2	2.5	1.4	79.4	0.06	0.06	0.03	8	2.66	0.080	14.8	43.8	1.14	84.2	0.003	<20	0.44	0.047	0.04	<0.1	2.6	0.05	<0.02	<5	0.1	<0.02	2.3
196	BUCKET 14 29357	0.56	85.92	2.87	67.5	59	43.7	25.1	1099	5.30	1.8	<0.1	6.2	0.2	194.4	0.09	0.07	0.07	50	4.32	0.107	2.6	125.1	2.70	31.4	0.003	<20	1.96	0.008	0.06	<0.1	7.7	0.06	0.06	<5	0.3	0.06	5.1
197	BUCKET 14 35211	5.36	75.15	7.73	56.0	100	60.8	28.9	1145	4.75	10.5	<0.1	146.9	0.2	328.2	0.11	0.06	0.13	24	5.15	0.091	1.4	138.5	2.64	53.4	0.002	<20	1.20	0.003	0.17	<0.1	6.1	0.07	0.48	<5	0.4	0.53	2.7
198	BUCKET 14 29122	0.40	113.23	2.19	77.5	58	67.1	29.4	1313	6.04	1.0	<0.1	11.6	0.3	173.6	0.15	0.11	0.08	88	4.86	0.086	0.7	143.9	3.65	13.4	0.002	<20	3.00	0.003	0.05	<0.1	10.9	0.04	0.07	<5	0.4	0.04	7.3
199	BUCKET 14 31370	1.18	74.16	4.89	252.8	154	127.0	34.4	2809	7.10	1.4	0.2	250.7	0.8	34.4	0.38	0.04	0.07	91	0.30	0.080	14.3	113.8	1.18	362.8	0.003	<20	3.01	0.015	0.03	<0.1	13.9	0.05	<0.02	<5	0.3	0.09	10.4
200	BUCKET 14 35025	0.17	115.77	6.69	82.2	309	46.8	44.1	912	8.11	1.4	0.1	13.1	0.7	0.7	0.07	0.08	0.09	183	<0.01	0.050	2.6	207.4	0.01	123.9	0.022	<20	1.28	0.005	0.02	<0.1	18.3	0.04	<0.02	<5	0.8	0.03	11.8
201	BUCKET 14 31459	5.24	46.29	3.73	45.6	46	47.3	17.0	579	2.93	1.6	0.1	71.6	1.0	208.1	0.14	0.10	0.07	5	3.71	0.072	8.1	95.0	1.91	61.6	<0.001	<20	0.16	0.015	0.09	<0.1	3.9	0.07	0.04	<5	0.1	0.44	0.5
202	BUCKET 14 33816	0.06	72.00	3.59	168.6	31	71.0	35.2	1116	6.61	1.5	0.2	8.1	0.9	65.6	0.20	0.02	0.02	172	0.43	0.053	9.2	258.8	1.64	326.8	0.038	<20	3.03	0.009	0.06	<0.1	21.3	0.03	<0.02	<5	0.2	<0.02	11.4
203	BUCKET 14 33887	0.34	58.61	3.24	103.0	40	49.3	29.2	1041	7.05	7.9	0.1	4.3	0.7	29.1	0.12	0.05	0.13	141	0.56	0.123	7.6	145.9	2.60	14.4	0.217	<20	3.52	0.005	0.03	<0.1	12.6	0.02	0.17	<5	0.6	<0.02	12.6
204	BUCKET 14 15347	0.71	92.46	2.08	93.1	57	33.6	39.7	1770	8.66	1.2	<0.1	58.9	0.1	225.9	0.18	0.04	<0.02	152	6.53	0.052	2.0	46.4	2.20	28.3	0.010	<20	3.47	<0.001	0.07	<0.1	13.8	0.03	0.13	<5	0.3	0.04	11.2
205	BUCKET 14 14082	0.50	52.09	2.69	132.3	58	72.1	36.0	277	5.83	0.6	0.2	308.1	0.7	33.7	0.10	0.04	0.49	91	0.36	0.085	11.6	190.5	1.15	15.0	0.002	<20	2.49	0.019	0.02	4.1	14.0	0.03	<0.02	<5	0.1	0.54	9.0
206	BUCKET 14 15386	0.07	135.23	4.74	291.7	69	65.0	65.4	1918	12.01	3.2	0.2	6.7	0.8	14.1	0.36	0.02	0.03	321	0.13	0.079	27.4	49.4	0.71	181.6	0.075	<20	2.48	0.005	<0.01	<0.1	35.1	<0.02	<0.02	10	0.7	<0.02	14.3
207	BUCKET 14 20404	0.32	64.80	2.96	84.7	168	87.4	41.0	1641	6.95	31.2	<0.1	205.2	0.7	88.3	0.11	2.31	0.05	17	2.94	0.102	6.1	40.7	2.09	11.7	<0.001	<20	0.24	0.068	0.03	<0.1	11.4	0.05	0.28	<5	0.3	0.03	0.6
208	BUCKET 14 12876	0.48	83.02	4.10	85.3	85	117.2	44.4	1275	6.88	11.7	<0.1	120.8	0.2	272.9	0.13	0.34	0.09	101	5.63	0.101	1.4	204.0	4.23	41.8	0.003	<20	3.00	0.009	0.04	<0.1	14.0	0.03	0.35	<5	0.2	0.22	8.3
209	BUCKET 14 13916	0.12	68.74	2.44	50.8	33	199.0	37.3	900	4.38	0.7	<0.1	10.4	0.4	172.9	0.07	0.26	<0.02	95	4.58	0.022	2.8	373.5	4.03	23.1	0.148	<20	3.52	0.013	<0.01	<0.1	17.1	0.02	<0.02	<5	0.2	<0.02	8.0
210	BUCKET 14 59310	0.38	78.10	3.05	73.9	40	43.0	29.1	1093	5.80	14.1	<0.1	9.0	0.4	123.5	0.10	0.12	0.02	179	3.83	0.080	5.0	178.0	2.75	4.5	0.022	<20	3.38	0.025	<0.01	<0.1	22.4	<0.02	0.04	<5	0.1	<0.02	12.7
211	BUCKET 15 20526	0.11	61.35	3.94	64.3	71	70.7	31.2	871	4.75	0.3	<0.1	226.1	0.5	957.8	0.08	0.23	0.12	17	4.39	0.136	4.6	42.0	3.87	277.4	0.001	<20	0.28	0.037	0.07	<0.1	7.8	0.05	0.20	<5	0.1	0.17	0.8
212	BUCKET 15 18638	0.42	91.33	1.11	94.3	106	39.8	45.1	1602	8.48	0.5	<0.1	653.5	<0.1	105.3	0.15	0.03	0.04	203	5.72	0.045	0.8	51.2	2.57	15.1	0.013	<20	3.46	0.007	0.03	<0.1	24.6	<0.02	0.14	<5	0.3	0.06	13.2
213	BUCKET 15 20555	5.46	114.50	4.28	47.6	163	16.1	14.1	554	2.82	0.3	0.1	394.9	1.0	287.4	0.07	0.15	0.12	9	3.13	0.168	9.6	26.6	1.26	133.4	0.002	<20	0.31	0.041	0.19	0.2	2.7	0.06	0.25	<5	0.2	0.12	1.0
214	BUCKET 15 58793	0.30	73.97	2.20	74.1	36	63.0	31.2	1158	6.28	4.2	<0.1	30.0	0.1	146.3	0.09	0.06	0.04	147	3.84	0.090	1.5	327.7	3.67	7.2	0.007	<20	3.18	0.010	0.02	<0.1	17.1	<0.02	0.05	<5	0.3	0.02	9.7
215	BUCKET 15 7960	0.30	126.08	0.90	108.6	54	49.8	50.1	1649	8.32	1.3	<0.1	21.2	0.2	49.2	0.12	0.18	<0.02	181	3.08	0.046	1.7	51.1	2.85	4.1	0.292	<20	3.80	<0.001	0.02	0.2	16.9	<0.02	<0.02	<5	0.4	<0.02	12.3
216	BUCKET 15 36515	0.37	110.11	2.98	83.5	52	23.2	21.3	826	5.74	2.7	<0.1	10.2	0.3	161.7	0.16	0.14	0.04	96	3.08	0.166	4.8	70.4	1.69	6.0	0.024	<20	1.92	0.049	<0.01	<0.1	14.4	0.03	0.05	<5	0.2	<0.02	10.4
217	BUCKET 15 7822	1.27	129.94	4.14	73.9	88	145.0	35.5	1126	5.55	0.8	<0.1	42.8	0.2	479.0	0.12	0.09	0.03	12	5.52	0.071	2.1	33.8	3.41	35.7	0.001	<20	0.20	0.011	0.15	<0.1	7.2	0.06	<0.02	<5	0.2	1.47	0.5
218	BUCKET 15 36541	0.25	104.46	2.30	88.2	132	66.2	28.1	1241	5.40	3.1	<0.1	335.9	0.2	397.5	0.12	0.11	0.17	96	3.98	0.064	2.0	147.8	2.95	134.4	0.003	<20	2.03	0.021	0.03	<0.1	14.2	0.03	0.46	<5	0.4	0.61	7.7
219	BUCKET 15 20064	0.07	57.80	1.83	66.4	33	38.4	32.4	1230	5.16	0.2	<0.1	6.4	<0.1	344.7	0.11	0.07	<0.02	77	5.26	0.079	1.6	159.7	3.84	134.7	0.002	<20	1.69	0.038	0.03	<0.1	18.9	0.03	<0.02	<5	<0.1	<0.02	5.0
220	BUCKET 15 15591	0.20	156.00	3.31	74.2	44	34.7	118.2	2246	12.27	1.9	<0.1	7.1	0.4	2.3	0.12	<0.02	0.08	384	0.02	0.070	20.7	55.8	0.03	56.3	0.041	<20	1.44	<0.001	<0.01	<0.1	32.3	<0.02	<0.02	32	0.5	<0.02	17.9
221	BUCKET 15 15569	0.11	153.06	3.02	212.9	33	47.6	40.6	653	10.96	1.0	<0.1	2.5	0.4	9.0	0.45	0.03	0.02	270	0.03	0.045	6.1	30.7	1.30	23.2	0.017	<20	2.73	0.002	0.02	<0.1	24.5	<0.02	<0.02	<5	<0.1	<0.02	16.0
222	BUCKET 15 18343	1.65	57.60	3.81	58.3	109	24.4	18.5	746	3.66	<0.1	0.2	833.8	1.5	181.5	0.14	0.31	0.08	10	3.55	0.113	15.2	29.5	2.00	148.0	0.002	<20	0.29	0.018	0.13	<0.1	4.5	<0.02	<0.02	<5	<0.1	0.15	0.8
223	BUCKET 15 19482	0.71	79.12	3.46	64.4	48	26.5	19.2	794	3.80	0.3	0.2	115.6	1.3	160.3	0.07	0.15	0.13	10	3.27	0.113	10.5	27.6	2.07	107.4	0.001	<20	0.23	0.023	0.12	<0.1	4.3	<0.02	0.22	<5	<0.1	0.11	0.7
224	BUCKET 15 19611	0.44	45.31	2.28	73.8	20	71.2	26.5	965	4.81	0.1	<0.1	44.1	0.3	146.3	0.10	0.13	0.05	11	4.69	0.072	2.4	39.7	2.60	66.0	<0.001	<20	0.26	0.056	0.10	<0.1	5.3	<0.02	0.06	<5	<0.1	0.35	0.7
225	BUCKET 15 34725	0.21	40.84	1.94	84.0	36	73.8	22.1	665	4.47	23.0	<0.1	12.4	0.8	121.1	0.06	0.24	0.04	44	3.72	0.069	9.9	103.1	2.20	23.9	<0.001	<20	1.70	0.045	0.06	<0.1	6.8	<0.02	0.05	<5	<0.1	0.05	5.9
226	BUCKET 16 15715	0.15	94.85	2.09	73.3	49	23.6	19.4	859	12.38	2.3	0.2	7.4	0.7	1.3	0.04	0.10	0.03	402	<0.01	0.036	1.6	40.1	<0.01	9.8	0.036	<20	1.29	<0.001	<0.01	<0.1	27.6	<0.02	<0.02	<5	<0.1	<0.02	14.5
227	BUCKET 16 12834	0.40	54.38	3.64	61.4	45	42.2	24.0	858	3.99	0.7	0.1	26.8	1.0	263.8	0.06	0.14	0.08	11	3.67	0.108	8.1	43.9	3.00	99.1	<0.001	<20	0.29	0.026	0.15	<0.1	5.9	<0.02	0.16	<5	<0.1	0.11	1.0
228	BUCKET 16 37658	0.81	39.37	1.70	34.4	35	42.9	18.9	582	3.63	0.5	<0.1	3.9	0.6	180.8	0.03	0.12	0.19	7	2.95	0.053	3.4	30.8	1.65	34.5	<0.001	<20	0.26	0.061	0.10	<0.1	3.6	<0.02	0.91	<5	0.7	0.09	0.7
229	BUCKET 16 36952	0.21	34.39	2.58	70.1	46	24.6	18.4	770	4.07	22.8	0.1	55.6	1.2	130.4	0.07	0.43	0.05	13	4.04	0.097	11.5	33.1	1.88	21.5	<0.001	<20	0.27	0.076	0.04	<0.1	5.7	<0.02	0.11	<5	<0.1	0.08	1.0
230	BUCKET 16 7549	0.54	94.80	0.80	91.5	43	44.2	42.5	1596	8.02	1.2	<0.1	12.8	0.1	81.0	0.15	0.08	0.02	107	6.38	0.043	1.3	36.6	2.30	19.1	<0.001	<20	1.67	0.054	0.03	<0.1	17.2	<0.02	<0.02	<5	<0.1	0.04	6.5
231	BUCKET 16 20691	0.89	98.29	3.50	58.8	106	25.5	19.0	774	3.68	0.4	0.2	227.8	1.4	224.4	0.08	0.61	0.21	10	3.35	0.110	12.7	31.4	1.93	98.7	<0.001	<20	0.25	0.028	0.14	<0.1	4.2	<0.02	0.05	<5	0.1	0.07	0.8
232	BUCKET 16 12881	0.32	48.39	1.22	88.7	44	40.7	31.6	1027	6.62	44.8	<0.1	55.9	0.5	238.1	0.10	0.22	0.04	23	4.43	0.082	5.9	22.8	2.08	20.4	0.001	<20	0.53	0.066	0.06	<0.1	8.1	<0.02	0.15	9	0.1	0.04	1.7
233	BUCKET 16 12924	0.54	40.51	2.19	73.3	29	95.4	14.9	603	2.74	2.1	0.1	22.4	0.9	145.3	0.06	0.14	0.06	13	2.03	0.063	12.3	108.4	1.96	32.4	<0.001	<20	0.80	0.056	0.06	<0.1	3.4	<0.02	0.11	<5	0.1	0.12	3.8
234	BUCKET 16 36595	2.96	27.20	3.85	50.4	59	52.7	30.9	1045	5.18	1.1	0.1	22.2	0.5	259.0	0.06	0.19	0.91	17	4.66	0.120	4.4	64.9	3.85	92.5	<0.001	<20	0.26	0.053	0.05	<0.1	12.0	<0.02	0.23	<5	0.2	0.10	0.9
235	BUCKET 16 7509	0.11	77.95	1.67	18.8	5	5.5	0.6	58	12.19	0.6	<0.1	7.1	0.3	0.7	0.05	<0.02	0.04	298	0.01	0.051	0.5	67.3	<0.01	8.5	0.009	<20	1.49	<0.001	0.02	<0.1	35.8	<0.02	<0.02	9	<0.1	<0.02	18.0
236	BUCKET 16 7868	0.36	62.52	1.66	63.8	31	34.3	24.1	1076	4.74	0.7	<0.1	2.9	0.3	154.6	0.11	0.11	0.05	34	4.60	0.074	2.5	100.7	2.62	63.5	0.002	<20	1.52	0.013	0.12	<0.1	5.3	<0.02	0.05	<5	0.1	0.06	3.9
237	BUCKET 16 20465	1.41	56.19	4.06	47.8	82	12.5	12.2	522	3.01	14.7	0.1	5.3	1.1	135.7	0.06	0.41	0.11	6	3.88	0.098	7.3	25.0	1.12	62.5	<0.001	<20	0.30	0.063	0.10	<0.1	2.8	<0.02	0.16	12	0.2	0.06	0.9
238	BUCKET 16 59247	0.66	95.39	1.85	85.2	82	50.6	28.8	1079	6.08	1.5	<0.1	7.1	0.2	400.4	0.10	0.06	0.10	105	3.51	0.104	2.9	204.8	2.86	19.2	0.003	<20	2.60	0.016	0.04	<0.1	12.6	<0.02	0.08	7	0.2	0.08	9.1
239	BUCKET 16 15603	0.79	80.86	0.93	79.9	25	53.4	30.7	1251	6.62	0.4	<0.1	<0.2	0.2	64.2	0.09	0.06	0.03	48	6.16	0.088	2.8	45.1	1.94	24.3	0.002	<20	1.21	0.043	0.05	<0.1	9.6	<0.02	0.04	<5	<0.1	0.02	4.5
240	BUCKET 16 37686	0.35	110.21	1.68	93.8	65	93.8	38.5	1458	6.96	3.0	<0.1	0.9	0.1	176.4	0.08	0.16	0.07	147	5.38	0.078	1.3	272.4	3.65	13.0	0.002	<20	3.32	0.016	0.03	<0.1	15.8	<0.02	0.18	6	0.4	0.10	10.0
241	BUCKET 17 13712	0.27	38.26	4.21	55.8	56	27.3	16.8	698	3.65	11.9	<0.1	<0.2	0.8	104.7	0.06	0.30	0.07	56	3.64	0.059	8.4	74.7	1.47	22.2	0.002	<20	2.35	0.039	0.05	<0.1	5.2	<0.02	0.10	<5	0.2	<0.02	9.0
242	BUCKET 17 12901	6.25	52.23	4.33	86.7	270	53.1	19.7	243	4.32	20.7	0.3	5.8	1.6	18.6	0.10	0.12	0.09	20	0.16	0.063	11.8	92.9	0.40	33.1	<0.001	<20	1.25	0.051	0.06	9.2	2.7	<0.02	0.10	11	0.2	0.04	3.8
243	BUCKET 17 20224	0.26	70.94	1.95	63.7	44	76.4	27.3	782	4.69	11.6	<0.1	31.0	0.3	203.8	0.08	0.32	0.04	13	4.76	0.051	1.9	29.9	2.50	12.5	<0.001	<20	0.23	0.073	0.03	<0.1	7.9	<0.02	0.33	<5	0.2	0.03	0.6
244	BUCKET 17 19418	1.34	55.15	2.89	61.7	72	26.2	20.5	774	3.70	17.2	0.2	22.6	1.4	118.5	0.08	0.22	0.12	9	2.11	0.118	12.2	36.9	0.73	18.8	<0.001	<20	0.28	0.054	0.07	0.2	4.4	<0.02	0.20	<5	0.2	0.06	0.8
245	BUCKET 17 7815	0.42	61.76	1.90	68.3	62	51.5	24.7	969	5.17	13.7	<0.1	13.2	0.3	226.1	0.09	0.06	0.03	20	5.14	0.094	3.9	60.8	2.11	25.6	<0.001	<20	1.21	0.007	0.11	<0.1	5.1	<0.02	0.05	<5	<0.1	0.03	3.1
246	BUCKET 17 35833	0.61	48.22	6.15	19.9	46	8.7	4.0	128	5.54	26.1	0.5	2.4	2.1	9.2	0.02	0.13	0.07	28	0.02	0.084	7.0	36.5	<0.01	22.1	<0.001	<20	0.96	0.035	0.04	<0.1	7.3	<0.02	<0.02	14	0.2	0.05	4.2
247	BUCKET 17 18498	0.41	43.82	2.89	67.5	120	18.9	17.7	567	4.12	5.2	0.3	340.0	1.1	128.2	0.05	0.08	0.11	24	3.49	0.110	7.6	33.6	1.94	33.4	<0.001	<20	1.10	0.035	0.10	0.3	4.1	<0.02	0.50	<5	0.2	0.28	3.8
248	BUCKET 17 29217	0.62	65.50	1.90	80.3	29	24.3	22.1	1148	5.01	0.2	<0.1	13.4	0.4	273.7	0.07	0.06	0.02	9	4.27	0.082	4.1	35.4	2.12	49.3	<0.001	<20	0.27	0.019	0.15	<0.1	5.6	<0.02	<0.02	<5	<0.1	0.08	0.6
249	BUCKET 17 9194	0.18	49.90	1.86	74.5	25	73.1	33.3	1149	5.72	0.7	<0.1	3.4	0.3	195.0	0.06	0.05	<0.02	89	4.35	0.053	2.9	235.1	3.50	31.8	0.002	<20	2.43	0.012	0.05	<0.1	13.7	<0.02	<0.02	<5	<0.1	0.05	7.9
250	BUCKET 17 20143	2.59	37.72	2.36	34.0	64	22.7	17.9	472	3.10	0.6	0.1	13.8	0.9	104.9	0.03	0.16	0.64	6	3.10	0.067	6.2	29.4	1.31	66.0	<0.001	<20	0.27	0.050	0.12	<0.1	2.8	<0.02	0.88	<5	0.9	0.26	0.7
251	BUCKET 17 9560	0.14	29.86	1.40	74.5	26	41.5	38.6	1416	6.55	0.4	<0.1	3.2	0.2	210.6	0.05	0.23	0.02	101	5.67	0.041	3.0	66.6	2.87	37.7	0.003	<20	1.85	0.037	0.02	<0.1	23.0	<0.02	<0.02	<5	0.1	0.02	7.2
252	BUCKET 17 9138	0.21	133.61	2.79	87.4	85	87.7	142.8	2106	9.46	30.5	0.2	7.2	0.4	2.1	0.07	0.11	0.03	87	0.02	0.127	2.2	423.8	0.02	309.8	0.004	<20	0.98	0.003	0.10	<0.1	20.3	0.11	<0.02	8	0.2	0.04	6.4
253	BUCKET 17 18741	0.27	29.11	0.99	40.4	50	25.6	14.7	472	3.20	0.4	<0.1	65.9	0.6	62.5	0.04	0.02	0.04	13	2.78	0.059	8.2	51.0	1.10	28.1	<0.001	<20	0.81	0.038	0.06	<0.1	2.8	<0.02	0.12	<5	<0.1	0.07	3.3

S. No:	Sample ID	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPB	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %
254	BUCKET 17 20292	0.09	52.54	3.85	62.3	126	35.4	22.9	768	3.84	<0.1	<0.1	814.0	0.6	862.6	0.04	0.37	0.05	10	3.54
255	BUCKET 17 7671	0.44	61.28	3.51	70.5	64	86.4	30.5	987	5.12	1.3	<0.1	1.8	0.3	234.9	0.12	0.14	0.04	9	6.00
256	BUCKET 18 9003	0.39	112.54	3.00	101.7	31	45.3	32.1	1238	6.68	1.3	<0.1	23.4	1.0	5.6	0.14	0.02	0.02	30	0.03
257	BUCKET 18 13944	0.36	39.07	4.09	55.3	56	18.6	12.6	450	2.93	22.1	0.1	0.6	1.4	136.5	0.07	0.34	0.09	11	3.13
258	BUCKET 18 58840	1.17	128.36	1.91	90.4	146	35.3	42.8	1594	8.16	0.3	<0.1	42.7	0.1	79.5	0.18	0.05	0.19	105	5.05
259	BUCKET 18 58924	0.21	103.68	1.03	89.5	42	37.2	42.1	1572	8.85	1.0	<0.1	4.1	<0.1	126.0	0.18	0.06	0.03	203	4.78
260	BUCKET 18 36992	3.79	38.45	3.00	57.0	41	35.8	25.6	796	4.08	1.1	<0.1	33.3	0.9	349.2	0.07	0.12	0.04	14	3.75
261	BUCKET 18 16203	0.53	58.18	5.26	55.2	149	26.2	22.6	746	3.83	1.4	0.1	67.7	0.8	257.4	0.08	0.15	0.13	9	3.43
262	BUCKET 18 16055	1.34	51.14	4.03	59.1	119	73.4	32.2	828	4.66	0.8	<0.1	47.6	0.5	416.3	0.08	0.13	0.28	15	4.26
263	BUCKET 18 18607	6.85	98.19	4.72	57.6	255	28.7	24.3	651	3.47	1.3	<0.1	854.7	0.6	274.2	0.11	0.12	0.60	8	3.33
264	BUCKET 18 16003	0.22	59.64	1.58	81.6	22	63.1	27.2	818	5.18	2.3	<0.1	3.3	0.3	145.3	0.11	<0.02	0.03	68	3.03
265	BUCKET 18 16246	0.53	24.42	4.21	76.2	220	71.7	29.5	914	4.79	2.5	<0.1	316.4	0.3	166.5	0.09	0.04	0.13	18	4.38
266	BUCKET 18 16412	1.07	89.84	2.57	54.3	81	28.3	19.8	641	3.60	2.2	<0.1	48.0	0.9	120.3	0.05	0.07	0.12	8	3.30
267	BUCKET 18 20690	2.66	67.00	4.24	53.3	147	22.4	17.9	738	3.61	0.7	0.2	946.9	1.9	748.3	0.07	0.17	0.22	10	3.55
268	BUCKET 18 21554	3.21	110.47	4.00	54.9	178	66.7	29.6	825	4.40	0.3	0.1	109.9	0.9	558.9	0.06	0.10	0.69	13	4.10
269	BUCKET 18 16630	0.31	87.80	5.33	57.1	280	32.6	21.3	702	3.82	1.7	0.1	554.7	0.9	267.1	0.09	0.21	0.44	8	3.43
270	BUCKET 18 20822	1.27	79.04	4.26	57.1	396	25.3	20.3	751	3.71	2.7	0.1	3044.3	1.0	259.8	0.07	0.18	0.16	9	3.46
271	BUCKET 19 23467	0.49	71.33	2.06	65.1	73	114.9	40.6	1250	6.24	0.8	<0.1	550.1	0.1	198.4	0.08	0.03	0.06	26	5.47
272	BUCKET 19 28066	0.66	64.90	1.46	55.8	43	50.3	27.1	807	4.36	0.4	<0.1	69.4	0.3	154.4	0.07	0.02	0.04	23	5.65
273	BUCKET 19 24226	0.76	107.05	2.95	66.7	41	36.9	29.8	933	4.80	0.7	<0.1	226.6	0.4	103.5	0.08	<0.02	0.06	20	5.42
274	BUCKET 19 28015	9.33	81.98	2.93	51.1	80	23.8	15.9	667	3.08	3.2	<0.1	118.2	0.7	180.1	0.06	0.22	0.14	4	3.44
275	BUCKET 19 29876	0.85	60.73	4.14	50.1	427	203.2	37.2	1107	4.95	1.3	<0.1	336.7	<0.1	248.6	0.11	0.05	0.94	25	6.32
276	BUCKET 19 23329	1.39	75.40	4.52	52.9	205	42.2	25.9	754	4.16	0.6	0.1	935.8	1.0	1095.8	0.08	0.57	0.31	12	3.87
277	BUCKET 19 24170	0.80	17.06	2.76	59.8	20	58.5	24.9	813	4.56	0.8	0.2	0.8	1.9	220.0	0.07	0.07	0.03	43	5.46
278	BUCKET 19 28150	1.82	78.54	5.74	65.8	103	25.4	19.6	765	3.84	0.6	0.2	299.9	1.3	460.9	0.24	0.12	0.13	9	3.54
279	BUCKET 19 29832	2.35	73.69	8.57	51.4	298	24.5	17.7	703	3.46	1.5	0.2	1843.9	1.3	235.7	0.09	0.14	0.41	9	3.11
280	BUCKET 19 23390	1.59	66.24	4.74	46.6	126	6.1	12.0	1357	3.73	1.9	<0.1	484.0	0.2	383.8	0.15	0.19	0.09	6	7.71
281	BUCKET 19 110517	0.55	91.27	2.36	66.6	56	98.1	27.3	978	5.23	3.7	<0.1	30.2	0.2	171.1	0.09	0.08	0.08	24	4.52
282	BUCKET 19 747028	2.66	54.97	4.73	65.2	173	50.7	21.4	755	4.17	29.6	0.2	1108.6	2.5	197.0	0.09	0.16	0.25	15	3.65
283	BUCKET 19 37835	1.48	16.46	16.98	18.5	426	11.0	5.7	235	1.30	2.7	0.2	1961.8	1.9	124.1	0.04	1.86	0.64	3	1.31
284	BUCKET 19 747079	1.01	80.49	5.19	56.4	183	25.6	20.7	752	3.82	1.4	0.2	255.8	1.2	196.0	0.08	0.26	0.31	11	3.71
285	BUCKET 19 37793	1.93	84.44	6.10	57.6	196	25.1	19.3	736	3.62	0.6	0.2	600.1	1.8	783.9	0.08	0.58	0.67	10	3.28
286	BUCKET 20 37873	17.03	47.19	7.62	46.9	265	24.6	16.7	584	2.92	1.0	0.3	2029.3	2.0	348.7	0.08	0.23	1.63	6	2.95
287	BUCKET 20 170684	0.93	43.52	3.96	55.4	295	26.0	20.2	749	3.79	4.1	0.2	2930.3	1.1	329.4	0.06	0.17	0.18	8	3.54
288	BUCKET 20 14839	0.60	81.70	6.15	60.0	77	29.1	19.8	701	3.65	0.5	0.2	248.4	1.7	550.9	0.09	0.10	1.16	6	3.41
289	BUCKET 20 601051	0.81	30.11	6.88	49.8	97	25.2	15.8	565	2.90	2.1	0.1	80.0	1.2	110.7	0.05	0.20	0.11	5	3.68
290	BUCKET 20 13463	1.68	50.07	5.49	45.4	401	79.9	28.9	767	3.69	0.9	<0.1	395.9	0.3	1606.2	0.08	0.29	0.61	6	5.92
291	BUCKET 20 601474	5.72	76.28	3.65	54.1	146	40.4	18.6	699	3.81	0.5	0.1	373.7	1.2	406.6	0.06	0.28	0.12	7	3.31
292	BUCKET 20 3884	1.69	51.60	1.73	64.3	35	46.7	30.2	1321	5.50	4.1	<0.1	33.6	0.1	118.7	0.08	0.05	0.03	101	4.84
293	BUCKET 20 3803	3.41	73.50	9.69	58.2	366	24.7	20.1	727	3.62	0.8	0.1	255.7	1.0	330.6	0.08	0.26	0.91	7	3.55
294	BUCKET 20 601339	3.38	82.76	4.07	47.9	164	45.0	25.5	779	3.96	0.8	0.2	630.3	1.1	342.2	0.09	1.13	0.26	11	3.65
295	BUCKET 20 13339	1.24	70.99	2.44	45.9	51	45.6	18.0	599	3.51	2.2	0.1	14.9	1.2	80.3	0.03	0.13	0.06	9	2.49
296	BUCKET 20 14806	0.80	79.90	3.57	57.5	139	30.1	21.0	754	3.49	0.4	0.2	33.4	1.4	421.7	0.05	0.05	0.14	30	3.53
297	BUCKET 20 9535	0.52	70.57	3.63	67.3	62	83.7	34.5	1076	5.77	4.2	<0.1	11.4	0.5	164.0	0.10	0.10	<0.02	21	5.01
298	BUCKET 20 136626	0.44	58.84	3.56	73.3	51	36.9	23.9	873	5.21	27.7	<0.1	5.2	1.0	165.9	0.07	0.23	<0.02	11	4.23
299	BUCKET 20 58755	0.36	111.29	1.15	84.6	39	38.1	40.5	1795	8.62	1.2	<0.1	1.0	<0.1	73.1	0.17	0.05	<0.02	201	5.47
300	BUCKET 20 36685	2.06	53.31	2.48	44.1	51	26.0	16.6	566	3.47	1.8	0.1	6.7	1.2	89.3	0.03	0.22	0.07	8	3.36
301	BUCKET 21 7548	3.20	106.59	0.78	89.7	113	48.0	48.2	1607	8.81	1.2	<0.1	28.0	0.2	64.4	0.13	0.13	0.02	124	5.75
302	BUCKET 21 18839	2.49	18.82	1.11	28.2	25	19.5	13.1	377	2.83	0.5	<0.1	3.0	0.8	58.4	0.04	0.03	0.03	4	2.95
303	BUCKET 21 8489	0.25	111.78	1.67	64.6	53	38.9	26.4	769	4.55	47.0	<0.1	1.9	0.3	90.1	0.08	0.35	0.04	96	1.43
304	BUCKET 21 7510	0.22	105.69	2.51	29.9	9	5.7	1.2	151	12.88	2.5	<0.1	5.0	0.4	0.6	0.05	<0.02	0.12	373	<0.01
305	BUCKET 21 13711	0.36	48.23	4.06	59.9	56	25.1	13.3	527	3.00	7.0	0.1	1.0	1.0	77.0	0.09	0.22	0.08	29	3.02
306	BUCKET 21 20643	0.11	87.91	3.98	62.0	147	75.8	34.8	1088	4.96	0.3	0.1	538.2	1.0	149.8	0.07	0.13	0.04	17	3.84
307	BUCKET 21 9670	0.31	65.08	4.34	64.9	2897	49.8	29.7	1149	6.40	12.6	0.1	38068.5	0.2	206.9	0.09	0.19	0.90	43	4.97
308	BUCKET 21 15771	0.19	100.47	0.53	87.4	40	38.2	39.7	1593	7.44	0.8	<0.1	67.4	<0.1	81.4	0.16	0.06	<0.02	173	4.01
309	BUCKET 21 10844	0.12	18.56	1.54	39.8	44	20.8	9.6	396	2.11	0.3	0.1	15.1	1.7	88.6	0.04	<0.02	0.03	5	2.47
310	BUCKET 21 8189	0.13	85.32	0.77	94.2	26	40.2	41.3	1470	8.06	0.4	<0.1	8.1	0.2	50.2	0.12	0.06	<0.02	72	5.05
311	BUCKET 21 9540	0.70	53.39	5.60	85.2	76	30.8	20.3	1826	3.92	10.9	0.4	4.0	3.8	19.6	0.26	0.18	0.10	10	0.03
312	BUCKET 21 19965	0.78	42.66	2.40	61.7	169	51.4	22.4	726	4.28	35.5	0.1	465.6	1.2	185.2	0.07	0.42	0.07	7	4.45
313	BUCKET 21 20199	0.40	31.49	5.70	56.9	77	16.8	8.1	132	2.17	12.6	0.3	221.4	3.5	25.3	0.05	0.42	0.09	5	0.03
314	BUCKET 21 18259	0.25	53.00	4.53	78.1	12	27.7	7.6	216	4.04	0.7	0.3	341.2	1.7	5.5	0.02	0.04	<0.02	13	<0.01
315	BUCKET 21 36808	0.15	118.99	0.98	71.2	44	109.7	41.4	1363	6.50	0.8	0.1	4.6	0.1	332.2	0.11	0.05	<0.02	214	5.37
316	BUCKET 22 9528	0.34	47.36	4.32	59.7	75	23.9	15.1	525	3.50	21.4	0.2	1.1	2.0	104.9	0.09	0.57	0.09	5	3.19
317	BUCKET 22 18886	0.12	74.07	1.89	65.3	35	290.8	53.1	842	5.74	1.0	<0.1	0.8	0.3	138.5	0.10	0.10	<0.02	110	2.52
318	BUCKET 22 20360	0.89	64.70	3.82	54.6	79	39.6	23.7	756	3.87	0.2	0.2	165.7	1.5	447.2	0.05	0.14	0.09	11	3.46
319	BUCKET 22 14234	0.92	47.41	3.77	48.4	184	38.5	16.6	609	3.16	7.2	0.1	7.4	0.8	103.7	0.06	0.11	0.05	13	3.26
320	BUCKET 22 36849	0.38	80.66	1.78	67.0	41	133.4	40.2	1323	6.11	2.1	<0.1	4.1	0.1	549.4	0.10	0.07	0.02	173	6.72
321	BUCKET 22 10886	2.07	72.54	14.33	73.9	190	65.5	28.4	652	6.13	2.0	<0.1	142.7	0.2	95.4	0.09	0.04	0.35	55	1.42
322	BUCKET 22 18631	2.70	65.34	5.30	56.2	104	24.3	19.2	720	3.71	1.2	0.2	166.4	1.8	253.9	0.06	0.17	0.19	8	3.55
323	BUCKET 22 12757	0.45	17.23	2.44	55.8	60	45.0	24.3	755	3.86	1.3	<0.1	200.3	0.7	206.3	0.05	0.12	0.04	9	4.84
324	BUCKET 22 7702	0.64	66.27	1.11	54.5	51	64.8	20.1	715	3.98	1.3	<0.1	20.1	0.6	82.7	0.06	0.05	0.09	23	3.85
325	BUCKET 22 20382	0.17	86.89	2.30	89.4	30	71.9	35.0	1217	6.86	1.2	<0.1	5.1	0.2	1223.9	0.09	0.07	0.02	50	4.62
326	BUCKET 22 58977	0.34	116.24	1.49	94.3	46	40.8	42.6	1508	9.57	0.6	<0.1	4.2	0.1	164.0	0.12	0.04	<0.02	250	4.80
327	BUCKET 22 18190	4.03	68.25	3.71	24.6	3537	7.3	4.6	48	6.01	111.9	0.6	86.9	3.1	8.9	0.02	0.20	0.33	22	0.02
328	BUCKET 22 18215	0.31	79.02	2.14	69.3	52	110.0	37.6	1300	6.08	1.5	<0.1	23.4	0.2	246.6	0.08	0.07	<0.02	108	5.58
329	BUCKET 22 18211	0.47	45.52	7.59	60.4	73	175.8	27.8	1093	4.59	50.1	0.2	6.3	2.1	193.3	0.07	0.14	0.16	26	5.07
330	BUCKET 22 21314	0.16	46.78	3.42	211.5	33	92.2	23.9	232	3.00	0.8	0.3	7.6	1.4	15.1	0.14	0.08	0.06	31	0.09
331	BUCKET 23 20028	0.16	64.98	3.02	81.2	156	33.0	9.8	344	1.47	0.3	0.7	21.4	3.0	10.3	0.14	0.05	0.32	6	0.04
332	BUCKET 23 75849	0.25	68.75	2.04	63.4	48	62.9	28.2	920	5.09	7.9	<0.1	2.6	0.3	159.6	0.08	0.07	0.04	12	4.99
333	BUCKET 23 32299	0.33	93.23	3.73	42.5	254	30.8	6.0	404	6.01	62.3	0.1	5.0	0.6	4.3	0.03	0.10	<0.02	41	0.01
334	BUCKET 23 110114	0.96	82.89	1.76	29.8	40	8.8	2.6	636	11.19	1.9	0.1	15.1	0.3	1.2	0.02	0.07	0.06	196	<0.01
335	BUCKET 23 110234	0.17	101.32	0.92	89.9	69	51.9	44.8	1632	8.47	0.4	<0.1	1.7	<0.1	84.9	0.12	0.04	<0.02	195	4.92
336	BUCKET 23 109604	0.14	114.51	1.66	76.6	70	52.6	31.4	784	6.33	0.6	<0.1	3.2	0.2	151.5	0.07	0.04	0.05	96	3.72
337	BUCKET 23 747960	0.57	95.13	3.17	65.9	60	20.1	18.9	823	4.61	1.0	<0.1	4.4	0.4	192.7	0.08	0.06	0.05	24	4.70
338	BUCKET 23 76011	0.44	37.40	1.22	16.5	12	6.5	2.3	60	3.40	0.6	<0.1	9.8	2.2	2.5	0.01	0.04	<0.02	14	0.02
339	BUCKET 23 77202	0.14	4.77	1.68	35.3	14	34.7	11.1	371	2.08	0.3	0.2	4.1	1.7	153.5	0.04	0.03	0.02	5	2.45
340	BUCKET 23 747877	0.08	0.58	1.61	38.5	4	17.0	11.4	358	2.14	0.3	0.2	0.6	2.2	41.2	0.04	0.09	<0.02	2	3.26
341	BUCKET 23 109595	0.24	123.12	2.08	81.6	67	127.0	36.7	952	6.80	2.8	<0.1	4.3	0.2	150.6	0.11	0.03	0.07	126	4.05
342	BUCKET 23 110101	0.36	59.83	2.00	23.1	15	16.0	1.2	244	5.41	0.7	0.1	5.1	1.3	2.5	0.02	0.07	<0.02	58	0.02
343	BUCKET 23 41030	0.91	88.37	1.28	93.5	194	55.2	44.1	1485	8.84	2.4	<0.1	287.2	<0.1	141.9	0.13	0.03	0.05	122	4.98

S. No:	Sample ID	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Sc PPM	Tl PPM	S %	Hg PPB	Se PPM	Te PPM	Ga PPM
254	BUCKET 17 20292	0.166	10.7	32.6	2.27	424.6	0.001	<20	0.25	0.022	0.16	<0.1	3.7	<0.02	0.04	<5	0.2	0.06	0.7
255	BUCKET 17 7671	0.079	3.4	41.6	2.56	31.4	<0.001	<20	0.29	0.023	0.16	<0.1	6.0	<0.02	<0.02	12	<0.1	1.02	0.6
256	BUCKET 18 9003	0.094	21.1	91.7	0.10	125.7	<0.001	<20	0.95	0.010	0.07	<0.1	7.5	<0.02	<0.02	65	0.2	0.07	4.8
257	BUCKET 18 13944	0.081	13.0	36.2	0.98	53.3	<0.001	<20	0.75	0.044	0.12	<0.1	2.0	<0.02	0.16	<5	0.1	0.07	2.6
258	BUCKET 18 58840	0.049	1.1	31.5	2.57	7.0	0.004	<20	1.12	0.049	0.02	<0.1	20.1	<0.02	0.10	7	0.4	0.12	5.7
259	BUCKET 18 58924	0.053	1.2	39.3	2.49	11.6	0.005	<20	2.44	0.011	0.02	<0.1	19.3	<0.02	0.04	<5	0.2	0.03	11.3
260	BUCKET 18 36992	0.072	8.4	31.6	2.21	86.5	<0.001	<20	0.45	0.055	0.08	<0.1	5.6	<0.02	0.07	<5	<0.1	0.09	1.2
261	BUCKET 18 16203	0.133	8.5	33.3	2.07	73.2	0.001	<20	0.26	0.025	0.17	<0.1	3.2	<0.02	0.28	<5	<0.1	0.06	0.8
262	BUCKET 18 16055	0.105	5.1	41.4	3.86	91.5	<0.001	<20	0.19	0.023	0.11	<0.1	6.2	<0.02	0.28	<5	<0.1	0.32	0.5
263	BUCKET 18 18607	0.165	6.1	78.0	1.75	119.9	0.001	<20	0.23	0.026	0.14	0.3	2.8	<0.02	0.60	<5	0.3	0.31	0.7
264	BUCKET 18 16003	0.041	2.8	158.4	2.61	15.0	0.002	<20	2.33	0.016	0.03	<0.1	8.1	<0.02	0.07	<5	<0.1	0.05	9.4
265	BUCKET 18 16246	0.048	1.7	57.4	2.71	36.2	<0.001	<20	0.32	0.075	0.11	<0.1	4.9	<0.02	0.51	<5	0.3	0.21	0.9
266	BUCKET 18 16412	0.076	5.3	41.7	1.54	60.9	<0.001	<20	0.29	0.057	0.12	<0.1	2.9	<0.02	0.42	<5	0.2	0.18	0.8
267	BUCKET 18 20690	0.120	11.0	50.5	1.94	425.0	0.001	<20	0.32	0.028	0.21	0.1	4.1	<0.02	0.25	<5	0.2	0.11	1.0
268	BUCKET 18 21554	0.119	6.3	56.0	3.55	168.0	<0.001	<20	0.27	0.047	0.11	<0.1	6.6	<0.02	0.11	<5	<0.1	0.14	0.8
269	BUCKET 18 16630	0.160	7.3	46.8	2.00	79.9	<0.001	<20	0.22	0.028	0.12	<0.1	3.3	<0.02	0.57	<5	0.3	0.20	0.6
270	BUCKET 18 20822	0.132	7.5	31.6	2.01	79.8	<0.001	<20	0.20	0.024	0.13	<0.1	3.9	<0.02	0.59	<5	0.4	0.19	0.6
271	BUCKET 19 23467	0.055	<0.5	75.3	4.28	43.3	<0.001	<20	0.23	0.064	0.05	<0.1	11.6	<0.02	0.10	<5	0.1	0.46	0.6
272	BUCKET 19 28066	0.034	1.6	73.0	2.32	16.2	<0.001	<20	0.94	0.077	0.06	<0.1	8.0	<0.02	0.20	<5	0.1	0.07	2.4
273	BUCKET 19 24226	0.053	2.3	70.4	2.52	86.3	<0.001	<20	0.45	0.057	0.07	<0.1	9.1	<0.02	0.07	<5	0.1	0.07	1.2
274	BUCKET 19 28015	0.075	4.9	67.6	1.47	69.4	<0.001	<20	0.25	0.030	0.15	0.4	2.7	<0.02	0.36	<5	0.3	0.11	0.7
275	BUCKET 19 29876	0.042	<0.5	139.6	4.27	47.5	<0.001	<20	0.27	0.033	0.04	0.1	8.9	<0.02	0.15	<5	0.2	1.94	0.8
276	BUCKET 19 23329	0.104	6.0	66.7	2.91	343.6	<0.001	<20	0.20	0.024	0.12	<0.1	5.6	<0.02	0.57	<5	0.2	0.41	0.7
277	BUCKET 19 24170	0.285	28.5	86.8	2.84	37.7	0.002	<20	1.20	0.055	0.04	<0.1	8.9	<0.02	<0.02	<5	<0.1	0.07	3.6
278	BUCKET 19 28150	0.122	7.8	94.0	2.10	280.9	0.001	<20	0.27	0.026	0.17	<0.1	3.8	<0.02	0.35	<5	<0.1	0.12	0.9
279	BUCKET 19 29832	0.112	6.5	103.9	1.76	92.5	<0.001	<20	0.20	0.027	0.12	0.1	3.8	<0.02	0.97	<5	0.7	0.27	0.7
280	BUCKET 19 23390	0.118	1.5	65.6	1.12	1282.0	<0.001	<20	0.18	0.021	0.10	5.2	4.9	<0.02	0.17	<5	0.2	0.05	0.6
281	BUCKET 19 110517	0.087	1.2	66.3	3.25	90.2	<0.001	<20	0.34	0.059	0.08	<0.1	7.0	<0.02	0.12	<5	0.1	0.26	0.9
282	BUCKET 19 747028	0.098	9.1	67.7	2.06	42.2	<0.001	<20	0.41	0.069	0.10	0.1	4.6	<0.02	0.44	<5	0.4	0.24	1.5
283	BUCKET 19 37835	0.041	7.7	127.2	0.57	30.5	<0.001	<20	0.10	0.027	0.05	0.1	1.4	<0.02	0.83	<5	0.4	0.29	0.4
284	BUCKET 19 747079	0.132	8.5	33.7	2.04	102.4	0.001	<20	0.36	0.031	0.22	<0.1	3.8	0.02	0.50	<5	0.1	0.08	1.1
285	BUCKET 19 37793	0.127	11.8	77.4	1.94	425.1	0.001	<20	0.27	0.028	0.17	<0.1	4.1	<0.02	0.14	<5	<0.1	0.30	0.8
286	BUCKET 20 37873	0.092	9.0	97.2	1.63	191.1	<0.001	<20	0.19	0.018	0.11	0.2	3.0	<0.02	0.78	<5	0.3	0.57	0.6
287	BUCKET 20 170684	0.137	7.7	19.9	2.02	160.2	0.001	<20	0.24	0.023	0.15	0.1	4.2	<0.02	0.52	<5	0.2	0.15	0.7
288	BUCKET 20 14839	0.129	11.6	26.0	2.11	309.2	<0.001	<20	0.16	0.015	0.10	<0.1	3.9	<0.02	0.12	<5	<0.1	0.19	0.5
289	BUCKET 20 601051	0.071	6.6	99.0	1.09	26.4	<0.001	<20	0.21	0.029	0.11	0.4	2.2	<0.02	0.41	<5	0.2	0.07	0.6
290	BUCKET 20 13463	0.035	1.0	22.0	2.78	129.4	<0.001	<20	0.14	0.021	0.08	0.2	4.8	<0.02	0.83	<5	0.4	0.32	0.3
291	BUCKET 20 601474	0.131	8.2	26.1	2.01	202.8	<0.001	<20	0.14	0.015	0.09	1.0	4.1	<0.02	0.34	<5	0.1	0.10	0.4
292	BUCKET 20 3884	0.072	1.7	238.5	3.42	9.5	0.002	<20	2.31	0.012	0.02	<0.1	12.3	<0.02	0.03	<5	<0.1	0.06	7.2
293	BUCKET 20 3803	0.125	9.2	91.4	1.99	112.5	<0.001	<20	0.14	0.013	0.08	0.1	3.6	<0.02	0.20	<5	0.1	0.14	0.4
294	BUCKET 20 601339	0.090	9.5	83.6	2.81	144.1	0.001	<20	0.18	0.017	0.09	0.2	6.0	<0.02	0.10	<5	0.3	0.21	0.5
295	BUCKET 20 13339	0.071	9.3	40.1	1.46	14.2	<0.001	<20	0.29	0.032	0.05	<0.1	3.4	<0.02	0.48	<5	0.5	0.11	0.8
296	BUCKET 20 14806	0.112	13.0	81.2	2.10	256.6	0.004	<20	1.04	0.036	0.09	38.3	5.4	<0.02	0.05	<5	0.1	0.06	3.5
297	BUCKET 20 9535	0.065	5.3	95.1	2.79	26.1	<0.001	<20	0.48	0.144	0.08	<0.1	9.6	<0.02	0.10	<5	0.3	0.05	1.0
298	BUCKET 20 136626	0.141	9.5	37.9	1.75	36.3	<0.001	<20	0.26	0.067	0.05	<0.1	7.3	<0.02	0.07	<5	0.2	0.03	0.7
299	BUCKET 20 58755	0.036	0.8	39.9	2.97	4.3	0.005	<20	2.89	0.012	<0.01	<0.1	27.5	<0.02	0.09	<5	0.5	<0.02	11.3
300	BUCKET 20 36685	0.066	10.9	29.8	1.32	25.6	<0.001	<20	0.30	0.060	0.07	<0.1	3.8	<0.02	0.13	<5	0.2	0.05	0.9
301	BUCKET 21 7548	0.041	2.1	31.8	2.31	9.7	0.002	<20	2.17	0.022	0.02	<0.1	20.2	<0.02	<0.02	<5	0.3	0.07	8.7
302	BUCKET 21 18839	0.047	6.4	36.9	0.93	32.2	<0.001	<20	0.27	0.038	0.09	<0.1	2.4	<0.02	0.04	<5	0.1	<0.02	0.7
303	BUCKET 21 8489	0.096	2.2	232.4	2.07	35.4	0.277	<20	2.53	0.033	0.06	0.2	2.9	<0.02	0.04	<5	0.3	0.06	6.4
304	BUCKET 21 7510	0.057	1.0	72.1	0.01	2.1	0.013	<20	1.61	<0.001	<0.01	<0.1	38.8	<0.02	<0.02	10	0.2	0.13	18.2
305	BUCKET 21 13711	0.053	8.8	51.0	1.27	24.5	0.002	<20	1.99	0.042	0.06	<0.1	3.4	<0.02	0.10	<5	0.2	0.02	6.9
306	BUCKET 21 20643	0.105	11.9	52.7	3.59	31.1	0.002	<20	0.32	0.024	0.15	0.1	8.7	<0.02	<0.02	<5	0.2	0.09	0.8
307	BUCKET 21 9670	0.211	2.6	49.3	1.86	20.0	0.003	<20	1.18	0.029	0.06	0.1	8.6	<0.02	2.78	8	1.9	2.17	5.4
308	BUCKET 21 15771	0.041	1.4	45.9	2.39	6.9	0.012	<20	2.26	0.012	<0.01	<0.1	22.9	<0.02	0.02	<5	0.2	0.03	11.1
309	BUCKET 21 10844	0.066	22.9	30.1	0.94	277.5	<0.001	<20	0.56	0.034	0.07	<0.1	1.5	<0.02	<0.02	<5	0.1	<0.02	2.1
310	BUCKET 21 8189	0.045	1.9	32.2	2.49	7.9	0.003	<20	0.79	0.063	0.02	<0.1	21.9	<0.02	<0.02	<5	0.2	<0.02	3.5
311	BUCKET 21 9540	0.060	27.5	17.6	0.10	41.7	<0.001	<20	0.64	0.045	0.02	<0.1	4.6	<0.02	<0.02	<5	<0.1	0.06	2.3
312	BUCKET 21 19965	0.093	8.3	35.5	1.94	23.1	<0.001	<20	0.25	0.048	0.09	<0.1	4.2	<0.02	0.20	<5	0.2	0.10	0.7
313	BUCKET 21 20199	0.049	31.1	27.5	0.02	31.1	<0.001	<20	0.42	0.053	0.06	<0.1	3.3	<0.02	<0.02	<5	0.1	0.10	1.1
314	BUCKET 21 18259	0.043	15.8	29.4	0.02	15.4	0.002	<20	0.63	0.056	0.02	<0.1	6.6	<0.02	<0.02	<5	<0.1	<0.02	1.7
315	BUCKET 21 36808	0.081	1.8	351.2	3.97	249.3	0.026	<20	3.09	0.091	0.12	<0.1	23.0	<0.02	<0.02	<5	0.3	<0.02	11.7
316	BUCKET 22 9528	0.089	15.1	22.0	1.31	12.6	<0.001	<20	0.19	0.044	0.03	<0.1	4.6	<0.02	0.11	<5	0.3	0.06	0.5
317	BUCKET 22 18886	0.021	3.2	613.2	5.42	109.1	0.095	<20	4.72	0.006	<0.01	<0.1	21.9	<0.02	<0.02	<5	0.2	<0.02	11.3
318	BUCKET 22 20360	0.104	12.8	66.6	2.22	214.9	0.004	<20	0.36	0.018	0.11	<0.1	5.3	<0.02	0.03	<5	0.1	0.05	0.9
319	BUCKET 22 14234	0.044	6.0	44.9	1.26	31.3	0.001	<20	0.93	0.036	0.10	<0.1	3.1	<0.02	0.48	<5	0.4	0.04	2.5
320	BUCKET 22 36849	0.035	2.1	351.2	4.07	17.0	0.114	<20	3.23	0.048	0.03	<0.1	19.8	<0.02	<0.02	<5	0.3	<0.02	10.2
321	BUCKET 22 10886	0.087	2.4	179.6	1.27	42.6	0.002	<20	1.46	0.019	0.10	0.1	7.6	<0.02	0.07	<5	0.7	0.27	4.3
322	BUCKET 22 18631	0.116	10.5	39.8	2.03	79.4	0.001	<20	0.25	0.023	0.17	0.2	3.8	<0.02	0.25	<5	0.2	0.15	0.7
323	BUCKET 22 12757	0.035	5.5	32.5	1.97	42.6	<0.001	<20	0.31	0.062	0.11	0.3	5.2	<0.02	0.17	<5	<0.1	0.08	0.7
324	BUCKET 22 7702	0.070	7.4	72.6	1.78	39.1	0.002	<20	1.40	0.019	0.12	<0.1	4.0	<0.02	0.09	<5	0.2	0.06	4.4
325	BUCKET 22 20382	0.128	1.2	182.2	3.18	709.5	<0.001	<20	1.02	0.060	0.05	<0.1	12.7	<0.02	0.05	<5	0.2	0.04	3.0
326	BUCKET 22 58977	0.047	3.6	42.6	2.52	11.9	0.018	<20	3.33	0.012	0.03	<0.1	23.6	<0.02	0.04	<5	0.3	0.03	13.3
327	BUCKET 22 18190	0.149	26.2	73.5	0.02	22.2	0.001	<20	0.74	0.016	0.07	3.1	2.5	<0.02	0.14	26	0.5	0.42	3.0
328	BUCKET 22 18215	0.066	2.4	322.9	4.36	25.6	0.004	<20	2.81	0.004	0.04	<0.1	14.6	<0.02	<0.02	<5	0.2	0.02	7.5
329	BUCKET 22 18211	0.091	12.7	132.2	2.40	27.5	<0.001	<20	1.18	0.028	0.06	<0.1	5.3	<0.02	0.06	<5	0.2	0.07	3.3
330	BUCKET 22 21314	0.032	18.8	57.4	0.44	34.3	0.006	<20	1.19	0.018	0.03	<0.1	4.2	<0.02	<0.02	14	<0.1	<0.02	4.2
331	BUCKET 23 20028	0.034	25.7	26.8	0.12	80.6	0.002	<20	0.44	0.010	0.05	<0.1	1.0	<0.02	<0.02	<5	<0.1	0.04	0.9
332	BUCKET 23 75849	0.094	2.1	41.2	2.54	31.2	<0.001	<20	0.28	0.034	0.10	<0.1	7.0	<0.02	0.04	<5	0.2	0.04	0.6
333	BUCKET 23 32299	0.044	0.5	128.0	0.02	9.8	0.001	<20	0.69	0.026	0.02	0.4	14.0	<0.02	<0.02	13	<0.1	<0.02	4.7
334	BUCKET 23 110114	0.085	<0.5	36.3	<0.01	5.5	0.003	<20	0.86	0.017	0.01	<0.1	23.1	<0.02	<0.02	7	0.2	0.04	11.6
335	BUCKET 23 110234	0.045	1.6	45.6	2.72	3.5	0.003	<20	2.75	0.012	<0.01	<0.1	22.5	<0.02	<0.02	<5	0.1	<0.02	10.2
336	BUCKET 23 109604	0.090	2.7	189.3	4.46	61.5	0.002	<20	3.76	0.003	0.06	<0.1	9.7	<0.02	0.02	<5	0.2	0.05	8.0
337	BUCKET 23 747960	0.130	3.7	46.8	1.66	33.8	<0.001	<20	1.01	0.017	0.14	<0.1	4.7	<0.02	<0.02	<5	<0.1	0.03	2.2
338	BUCKET 23 76011	0.009	0.5	37.6	0.01	14.4	<0.001	<20	0.52	0.014	0.06	<0.1	7.2	<0.02	<0.02	<5	0.1	<0.02	2.2
339	BUCKET 23 77202	0.079	14.9	39.3	1.04	150.7	<0.001	<20	0.34	0.046	0.12	<0.1	2.1	<0.02	<0.02	6	<0.1	0.04	1.3
340	BUCKET 23 747877	0.084	18.4	22.9	0.73	18.2	<0.001	<20	0.26	0.034	0.12	0.3	1.4	<0.02	<0.02	<5	<0.1	<0.02	0.6
341	BUCKET 23 109595	0.102	2.5	301.6	4.70	27.0	0.002	<20	4.20	0.002	0.05	<0.1	11.5	<0.02	0.06	<5	0.4	0.12	9.2
342	BUCKET 23 110101	0.053	0.6	59.1	0.03	12.7	0.002	<20	0.80	0.005	0.04	<0.1	6.6	<0.02	<0.02	13	<0.1	<0.02	6.6
343	BUCKET 23 41030	0.046	0.6	61.6	2.86	25.4	0.003	<20	3.01	0.004	0.07	0.1	12.4	<0.02	0.31	<5	0.4	0.09	9.6

S. No:	Sample ID	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPB	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Sc PPM	Tl PPM	S %	Hg PPB	Se PPM	Te PPM	Ga PPM
344	BUCKET 23 747298	0.12	73.44	5.98	67.6	377	52.4	22.0	765	3.78	0.8	0.1	464.0	0.9	376.6	0.08	0.34	0.31	17	4.01	0.068	4.6	40.5	3.12	86.6	<0.001	<20	0.16	0.026	0.10	<0.1	6.5	<0.02	0.45	<5	0.3	1.23	0.7
345	BUCKET 23 36467	0.76	93.43	1.76	84.5	55	29.8	25.8	1263	5.61	1.1	<0.1	13.5	0.3	138.3	0.09	0.04	<0.02	62	3.16	0.117	4.0	148.8	3.23	30.3	0.003	<20	2.83	0.001	0.06	<0.1	7.4	<0.02	<0.02	<5	<0.1	<0.02	6.5
346	BUCKET 24 75789	0.47	88.39	2.22	65.4	45	42.3	20.6	884	4.26	1.6	<0.1	1.9	0.2	163.5	0.11	0.05	0.05	8	4.76	0.110	2.3	29.4	1.47	119.6	<0.001	<20	0.23	0.016	0.15	<0.1	4.7	<0.02	0.07	<5	0.2	<0.02	0.5
347	BUCKET 24 112947	0.93	99.58	1.87	58.4	105	50.8	138.5	2190	3.35	0.4	0.2	19.8	1.5	7.0	0.06	0.06	0.03	21	0.02	0.085	33.3	29.8	0.02	64.8	0.004	<20	0.46	0.020	0.03	<0.1	2.6	<0.02	<0.02	14	0.2	<0.02	3.5
348	BUCKET 24 89100	1.92	311.26	2.18	229.2	167	139.2	1252.0	>10000	16.14	11.0	<0.1	82.8	0.3	39.6	0.65	0.06	0.03	229	<0.01	0.102	7.7	16.4	0.05	1007.0	0.002	<20	1.19	<0.001	0.03	<0.1	29.0	<0.02	<0.02	48	0.4	0.02	11.7
349	BUCKET 24 172532	0.11	11.13	1.48	47.5	20	22.7	16.6	488	2.18	0.3	0.2	2.5	2.0	50.0	0.04	0.04	0.05	6	1.60	0.091	16.8	29.2	0.60	81.1	0.001	<20	0.33	0.040	0.05	<0.1	2.1	<0.02	<0.02	<5	<0.1	<0.02	1.2
350	BUCKET 24 164662	5.78	59.40	47.01	110.7	216	22.1	13.1	633	2.96	23.3	<0.1	18.9	0.3	129.3	2.08	0.39	0.09	25	3.50	0.060	3.7	48.9	1.16	23.2	0.001	<20	1.26	0.027	0.04	<0.1	2.7	<0.02	0.82	<5	0.2	1.59	5.0
351	BUCKET 24 727941	0.90	34.25	1.50	123.6	70	48.8	20.6	936	5.63	0.6	0.1	22.3	0.8	28.9	0.13	0.05	0.03	8	1.00	0.137	11.2	29.7	0.40	70.9	0.001	<20	0.50	0.049	0.05	<0.1	5.7	<0.02	0.04	<5	<0.1	0.03	1.6
352	BUCKET 24 727644	0.19	2.37	2.58	4.3	15	1.6	1.3	378	0.35	0.5	1.3	0.6	2.6	70.4	0.04	0.02	<0.02	<2	2.65	0.034	12.4	45.0	0.11	32.0	<0.001	<20	0.21	0.005	0.14	<0.1	0.5	0.02	<0.02	<5	<0.1	<0.02	0.6
353	BUCKET 24 112948	0.35	22.15	0.83	53.3	35	35.7	17.5	632	3.30	0.3	<0.1	1.9	0.8	102.0	0.03	0.03	<0.02	17	3.24	0.061	11.9	39.8	1.84	29.9	<0.001	<20	1.19	0.027	0.04	<0.1	3.7	<0.02	<0.02	<5	0.1	<0.02	4.2
354	BUCKET 24 78119	0.11	29.63	1.08	56.6	36	71.5	18.9	636	3.01	0.4	<0.1	1.1	0.9	61.4	0.04	0.03	<0.02	14	3.17	0.061	12.6	87.3	1.70	38.5	<0.001	<20	1.03	0.035	0.06	<0.1	3.8	<0.02	<0.02	<5	<0.1	<0.02	3.2
QAQC																																						
Duplicates																																						
11	BUCKET 1 110133	0.71	56.84	2.18	49	65	17.8	15.6	604	3.41	10.9	<0.1	0.9	0.7	87.4	0.04	0.16	0.05	12	2.64	0.058	6	38.7	1.41	12.2	<0.001	<20	0.31	0.072	0.03	<0.1	5	<0.02	0.21	<5	<0.1	<0.02	1.1
54	BUCKET 4 112201	0.25	25.18	17.3	33.9	85	19	3.1	375	3.9	0.6	0.1	11.1	1.1	3.8	0.02	0.11	0.12	24	<0.01	0.033	10.1	36	0.01	52.8	<0.001	<20	0.45	0.008	0.08	0.7	5.4	<0.02	<0.02	<5	0.4	0.12	1.3
103	BUCKET 7 37482	2.48	56.28	2.06	43.9	66	23.5	12.8	475	2.78	5.2	0.1	71.4	1.1	93.7	0.05	0.45	0.09	7	2.81	0.061	9.4	57.9	1.15	48.6	<0.001	<20	0.28	0.056	0.11	0.1	2.3	<0.02	0.12	<5	0.2	0.06	0.8
139	BUCKET 10 173420	0.11	98.81	0.33	107.6	17	53.6	47.7	1208	7.18	0.9	<0.1	11.9	0.1	36.1	0.04	0.08	<0.02	151	0.72	0.04	1.1	65.3	2.46	2.7	0.245	<20	3.64	0.005	<0.01	<0.1	9.9	<0.02	<0.02	<5	0.1	<0.02	9.2
146	BUCKET 10 816860	1.2	55.8	1.94	69.1	30	43.1	32.3	1398	6.06	1.9	<0.1	20.7	0.3	195.2	0.13	0.04	0.03	107	6.38	0.053	3	61.8	2.12	57.3	0.002	<20	1.72	0.021	0.07	<0.1	12.8	<0.02	0.1	6	0.6	0.05	6.1
163	BUCKET 11 89891	0.71	70.32	3.24	47.9	51	14.8	4.5	925	6.93	27	0.5	28.2	1.6	11.2	0.07	0.12	0.06	65	0.02	0.148	19.9	27.8	0.02	131	0.002	<20	1.2	0.017	0.03	<0.1	8.9	0.05	<0.02	10	<0.1	0.03	8.9
218	BUCKET 15 36541	0.29	100.7	2.33	85.5	157	63.2	29.8	1254	5.35	3.3	<0.1	515	0.2	401	0.14	0.1	0.18	95	3.94	0.067	2	156.6	2.9	136.6	0.003	<20	2.01	0.02	0.03	<0.1	14.2	0.03	0.42	<5	0.4	0.58	7.7
238	BUCKET 16 59247	0.6	93.84	1.82	85.3	70	50.5	28.7	1066	5.99	1.5	<0.1	3.5	0.2	398.9	0.07	0.06	0.08	103	3.45	0.102	2.8	212.1	2.81	20.1	0.003	<20	2.56	0.017	0.04	<0.1	12.3	<0.02	0.08	<5	0.3	0.08	9.3
290	BUCKET 20 13463	1.86	46.51	5.76	46.7	427	78	28.3	749	3.73	0.9	<0.1	537.4	0.3	1606.5	0.09	0.36	0.57	6	5.93	0.036	1	23.1	2.8	158.9	<0.001	<20	0.14	0.021	0.08	0.2	4.8	<0.02	0.87	<5	0.5	0.28	0.3
303	BUCKET 21 8489	0.25	115.29	1.92	67.2	58	39.7	27.2	808	4.77	48.4	<0.1	1.5	0.3	94.2	0.08	0.41	0.04	100	1.49	0.101	2.3	239.8	2.15	36.8	0.295	<20	2.62	0.032	0.06	0.2	3.2	<0.02	0.04	<5	0.3	0.06	6.6
332	BUCKET 23 75849	0.26	71.41	1.86	66.4	47	65.6	26.9	967	5.21	7.1	<0.1	3.1	0.3	160.8	0.08	0.08	0.04	12	5.05	0.094	2.3	40.9	2.6	30.7	<0.001	<20	0.28	0.035	0.1	<0.1	7	<0.02	0.04	<5	0.2	0.04	0.6
Method Blank																																						
1	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
2	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
3	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
4	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
5	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
6	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
7	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
8	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
9	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
10	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
11	Method Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
Reference Material (1)																																						
1	STD OREAS45CA (1)	0.98	508.34	19.13	61.7	284	254.1	86.3	911	16.22	3.7	1.0	40.5	6.0	14.4	0.11	0.16	0.15	203	0.40	0.035	15.9	728.2	0.14	150.0	0.122	<20	3.83	0.006	0.07	<0.1	37.7	0.06	0.03	40	0.5	0.04	19.0
2	STD OREAS45CA (2)	0.75	520.92	20.50	62.6	290	261.4	91.6	905	16.14	4.1	1.1	43.9	6.6	14.9	0.11	0.07	0.17	206	0.42	0.038	17.2	735.6	0.15	167.2	0.120	<20	3.93	0.007	0.07	<0.1	38.9	0.08	0.03	31	0.6	0.06	19.7
3	STD OREAS45CA (3)	0.78	495.40	18.23	60.9	250	240.1	85.8	876	15.49	3.1	1.0	33.6	6.2	14.7	0.10	0.10	0.14	192	0.39	0.036	16.0	710.5	0.14	153.4	0.134	<20	3.93	0.014	0.08	<0.1	37.0	0.05	0.03	23	0.5	0.02	18.4
4	STD OREAS45CA (4)	0.53	525.66	19.51	61.0	270	258.6	92.6	928	14.69	4.4	1.1	46.3	6.7	17.5	0.10	0.04	0.19	201	0.39	0.039	17.3	605.1	0.16	169.6	0.104	<20	3.91	0.010	0.07	<0.1	36.9	0.09	<0.02	35	0.7	0.07	17.3
5	STD OREAS45CA (5)	0.75	530.51	21.75	65.3	279	266.6	86.6	951	15.84	4.5	1.3	39.0	7.4	16.9	0.11	0.06	0.21	212	0.40	0.042	17.1	757.9	0.16	179.8	0.121	<20	3.89	0.006	0.08	<0.1	37.0	0.16	0.03	26	0.5	0.04	19.6
6	STD OREAS45CA (6)	0.40	482.46	18.99	58.7	252	222.7	83.0	851	14.80	3.8	1.0	45.6	6.1	13.6	0.11	0.03	0.15	172	0.38	0.035	15.1	656.1	0.13	150.0	0.079	<20	3.72	0.014	0.07	<0.1	34.6	0.07	0.03	30	0.6	0.03	17.7
7	STD OREAS45CA (7)	0.66	536.40	21.06	68.6	285	275.0	95.1	1015	15.78	4.2	1.2	45.6	7.1	18.9	0.11	0.04	0.19	211	0.47	0.038	18.3	718.9	0.17	176.8	0.119	<20	4.01	0.009	0.08	<0.1	42.3	0.07	<0.02	26	0.6	0.10	21.3
8	STD OREAS45CA (8)	0.70	486.74	19.51	60.1	257	264.2	83.1	894	15.26	3.5	1.1	37.2	6.8	15.5	0.10	0.06	0.17	213	0.40	0.041	16.6	660.2	0.15	158.5	0.120	<20	3.94	0.008	0.08	<0.1	36.4	0.07	<0.02	27	0.4	0.03	18.1
9	STD OREAS45CA (9)	0.90	465.06	23.66	58.6	288	262.4	88.3	933	15.04	3.4	1.3	60.4	7.7	16.9	0.13	0.08	0.20	207	0.42	0.043	18.1	634.0	0.17	166.7	0.158	<20	3.78	0.008	0.07	<0.1	41.3	0.14	<0.02	27	0.5	<0.02	19.1
10	STD OREAS45CA (10)	0.83	521.73	21.52	60.2	284	256.7	89.2	922	15.17	3.3	1.3	48.6	7.6	16.6	0.08	0.10	0.17	206	0.44	0.038	18.4	670.2	0.19	167.8	0.162	<20	3.90	0.008	0.07	<0.1	39.5	0.07	<0.02	40	0.6	0.04	18.3
11	STD OREAS45CA (11)	0.66	529.32	21.46	65.2	260	269.9	94.9	956	16.39	3.5	1.2	48.9	7.3	16.0	0.10	0.04	0.19	212	0.43	0.044	16.4	739.4	0.15	169.6	0.122	<20	4.16	0.010	0.07	<0.1	37.1	0.07	<0.02	30	0.4	0.04	18.7
True Values STD OREAS45CA		**1**	**494**	**20**	**60**	**275**	**240**	**92**	**943**	**15.69**	**3.8**	**1.2**	**43**	**7**	**15**	**0.1**	**0.13**	**0.19**	**215**	**0.4265**	**0.0385**	**15.9**	**709**	**0.1358**	**164**	**0.128**		**3.592**	**0.0075**	**0.0717**		**39.7**	**0.07**	**0.021**	**30**	**0.5**	**0.06**	**18.4**
1	Percent Difference (1)	-2.0	2.9	-4.4	2.8	3.3	5.9	-6.2	-3.4	3.4	-2.6	-16.7	-5.8	-14.3	-4.0	10.0	23.1	-21.1	-5.6	-6.2	-9.1	0.0	2.7	3.1	-8.5	-4.7		6.6	-20.0	-2.4		-5.0	-14.3	42.9	33.3	0.0	-33.3	3.3
2	Percent Difference (2)	-25.0	5.4	2.5	4.3	5.5	8.9	-0.4	-4.0	2.9	7.9	-8.3	2.1	-5.7	-0.7	10.0	-46.2	-10.5	-4.2	-1.5	-1.3	8.2	3.8	10.5	2.0	-6.3		9.4	-6.7	-2.4		-2.0	14.3	42.9	3.3	20.0	0.0	7.1
3	Percent Difference (3)	-22.0	0.3	-8.9	1.5	-9.1	0.0	-6.7	-7.1	-1.3	-18.4	-16.7	-21.9	-11.4	-2.0	0.0	-23.1	-26.3	-10.7	-8.6	-6.5	0.6	0.2	3.1	-6.5	4.7		9.4	86.7	11.6		-6.8	-28.6	42.9	-23.3	0.0	-66.7	0.0
4	Percent Difference (4)	-47.0	6.4	-2.4	1.7	-1.8	7.8	0.7	-1.6	-6.4	15.8	-8.3	7.7	-4.3	16.7	0.0	-69.2	0.0	-6.5	-8.6	1.3	8.8	-14.7	17.8	3.4	-18.8		8.9	33.3	-2.4		-7.1	28.6		16.7	40.0	16.7	-6.0
5	Percent Difference (5)	-25.0	7.4	8.8	8.8	1.5	11.1	-5.9	0.8	1.0	18.4	8.3	-9.3	5.7	12.7	10.0	-53.8	10.5	-1.4	-6.2	9.1	7.5	6.9	17.8	9.6	-5.5		8.3	-20.0	11.6		-6.8	128.6	42.9	-13.3	0.0	-33.3	6.5
6	Percent Difference (6)	-60.0	-2.3	-5.1	-2.2	-8.4	-7.2	-9.8	-9.8	-5.7	0.0	-16.7	6.0	-12.9	-9.3	10.0	-76.9	-21.1	-20.0	-10.9	-9.1	-5.0	-7.5	-4.3	-8.5	-38.3		3.6	86.7	-2.4		-12.8	0.0	42.9	0.0	20.0	-50.0	-3.8
7	Percent Difference (7)	-34.0	8.6	5.3	14.3	3.6	14.6	3.4	7.6	0.6	10.5	0.0	6.0	1.4	26.0	10.0	-69.2	0.0	-1.9	10.2	-1.3	15.1	1.4	25.2	7.8	-7.0		11.6	20.0	11.6		6.5	0.0		-13.3	20.0	66.7	15.8
8	Percent Difference (8)	-30.0	-1.5	-2.4	0.2	-6.5	10.1	-9.7	-5.2	-2.7	-7.9	-8.3	-13.5	-2.9	3.3	0.0	-53.8	-10.5	-0.9	-6.2	6.5	4.4	-6.9	10.5	-3.4	-6.3		9.7	6.7	11.6		-8.3	0.0		-10.0	-20.0	-50.0	-1.6
9	Percent Difference (9)	-10.0	-5.9	18.3	-2.3	4.7	9.3	-4.0	-1.1	-4.1	-10.5	8.3	40.5	10.0	12.7	30.0	-38.5	5.3	-3.7	-1.5	11.7	13.8	-10.6	25.2	1.6	23.4		5.2	6.7	-2.4		4.0	100.0		-10.0	0.0		3.8
10	Percent Difference (10)	-17.0	5.6	7.6	0.3	3.3	7.0	-3.0	-2.2	-3.3	-13.2	8.3	13.0	8.6	10.7	-20.0	-23.1	-10.5	-4.2	3.2	-1.3	15.7	-5.5	39.9	2.3	26.6		8.6	6.7	-2.4		-0.5	0.0		33.3	20.0	-33.3	-0.5
11	Percent Difference (11)	-34.0	7.1	7.3	8.7	-5.5	12.5	3.2	1.4	4.5	-7.9	0.0	13.7	4.3	6.7	0.0	-69.2	0.0	-1.4	0.8	14.3	3.1	4.3	10.5	3.4	-4.7		15.8	33.3	-2.4		-6.5	0.0		0.0	-20.0	-33.3	1.6
Reference Material (2)																																						
1	STD DS8 (1)	12.34	108.98	114.23	302.5	1783	36.4	7.2	587	2.46	23.3	2.4	97.1	6.1	67.8	2.24	4.42	5.80	42	0.72	0.076	15.3	113.5	0.60	259.2	0.108	<20	0.93	0.093	0.41	1.8	2.1	5.15	0.16	187	4.6	4.45	4.7
2	STD DS8 (2)	13.74	111.98	117.81	312.0	1755	38.4	7.3	585	2.45	23.8	2.5	115.2	6.6	65.1	2.26	3.89	6.15	40	0.70	0.072	14.2	116.0	0.60	272.1	0.104	<20	0.89	0.084	0.41	2.2	2.1	5.28	0.16	203	5.1	4.80	4.5
3	STD DS8 (3)	14.33	106.96	112.67	303.8	1534	36.9	7.0	625	2.44	24.6	2.3	110.8	5.8	68.4	2.30	4.25	5.39	40	0.73	0.072	16.4	117.1	0.61	270.6	0.112	<20	0.96	0.100	0.42	2.1	2.0	4.88	0.16	177	5.0	4.66	4.7
4	STD DS8 (4)	14.12	118.64	134.18	332.0	1764	39.9	8.4	668	2.51	27.0	3.7	93.8	7.1	80.7	2.48	4.96	7.40	41	0.76	0.081	17.9	121.1	0.64	315.0	0.122	<20	0.99	0.097	0.43	2.2	2.0	5.67	0.17	226	5.6	5.16	4.7
5	STD DS8 (5)	14.95	109.71	133.97	344.6	2007	38.3	7.7	668	2.56	28.7	3.0	107.2	7.5	80.6	2.65	5.20	7.22	45	0.77	0.093	18.6	123.5	0.63	327.8	0.116	<20	0.97	0.100	0.43	2.8	2.3	5.88	0.17	209	5.5	5.23	5.1
6	STD DS8 (6)	13.20	113.29	125.80	319.2	1654	38.4	7.5	594	2.42	24.1	2.7	94.8	6.5	64.6	2.36	1.82	6.06	40	0.73	0.073	14.5	125.8	0.59	290.9	0.106	<20	1.00	0.125	0.44	1.8	2.1	5.36	0.16	180	4.8	4.95	4.7
7	STD DS8 (7)	14.13	110.16	122.99	331.0	1927	39.6	7.6	622	2.47	27.8	2.5	144.6	6.6	80.2	2.48	3.13	6.94	40	0.72	0.079	16.2	128.8	0.62	321.2	0.109	<20	0.94	0.094	0.42	2.0	2.1	5.61	0.16	192	5.5	5.46	4.7
8	STD DS8 (8)	12.92	108.63	121.91	309.5	1905	37.3	7.7	575	2.43	27.9	2.7	117.3	6.9	67.0	2.51	4.48	6.46	41	0.72	0.091	14.8	115.5	0.60	299.4	0.107	<20	0.92	0.087	0.40	3.0	2.1	5.22	0.16	172	4.9	4.88	4.5
9	STD DS8 (9)	13.63	111.27	123.46	308.9	1854	35.4	7.4	593	2.44	27.1	2.8	103.6	7.0	60.3	2.79	4.39	6.92	40	0.70	0.085	14.7	113.7	0.62	286.9	0.125	<20	0.92	0.090	0.42	2.7	2.4	5.59	0.16	171	5.0	4.71	4.6
10	STD DS8 (10)	14.51	115.66	132.57	328.6	1877	39.3	8.3	635	2.55	25.5	2.9	109.0	7.1	74.5	2.43	3.98	6.57	42	0.75	0.078	16.9	128.0	0.64	296.1	0.139	<20	0.98	0.100	0.43	2.2	2.4	5.57	0.17	216	5.4	5.13	4.8
11	STD DS8 (11)	14.06	117.29	126.00	302.1	1775	37.5	8.1	591	2.52	26.5	3.0	131.8	7.5	69.2	2.45	3.97	7.09	41	0.74	0.092	16.6	123.8	0.63	302.6	0.118	<20	0.96	0.092	0.42	2.4	2.2	5.33	0.16	252	4.9	4.83	4.6
True Values STD DS8		**13.44**	**110**	**123**	**312**	**1690**	**38.1**	**7.5**	**615**	**2.46**	**26**	**2.8**	**107**	**6.89**	**67.7**	**2.38**	**4.8**	**6.67**	**41.1**	**0.7**	**0.08**	**14.6**	**115**	**0.6045**	**279**	**0.113**		**0.93**	**0.0883**	**0.41**	**3**	**2.3**	**5.4**	**0.1679**	**192**	**5.23**	**5**	**4.7**
1	Percent Difference (1)	-8.2	-0.9	-7.1	-3.0	5.5	-4.5	-4.0	-4.6	0.0	-10.4	-14.3	-9.3	-11.5	0.1	-5.9	-7.9	-13.0	2.2	2.9	-5.0	4.8	-1.3	-0.7	-7.1	-4.4		0.0	5.3	0.0	-40.0	-8.7	-4.6	-4.7	-2.6	-12.0	-11.0	0.0
2	Percent Difference (2)	2.2	1.8	-4.2	0.0	3.8	0.8	-2.7	-4.9	-0.4	-8.5	-10.7	7.7	-4.2	-3.8	-5.0	-19.0	-7.8	-2.7	0.0	-10.0	-2.7	0.9	-0.7	-2.5	-8.0		-4.3	-4.9	0.0	-26.7	-8.7	-2.2	-4.7	5.7	-2.5	-4.0	-4.3
3	Percent Difference (3)	6.6	-2.8	-8.4	-2.6	-9.2	-3.1	-6.7	1.6	-0.8	-5.4	-17.9	3.6	-15.8	1.0	-3.4	-11.5	-19.2	-2.7	4.3	-10.0	12.3	1.8	0.9	-3.0	-0.9		3.2	13.3	2.4	-30.0	-13.0	-9.6	-4.7	-7.8	-4.4	-6.8	0.0
4	Percent Difference (4)	5.1	7.9	9.1	6.4	4.4	4.7	12.0	8.6	2.0	3.8	32.1	-12.3	3.0	19.2	4.2	3.3	10.9	-0.2	8.6	1.3	22.6	5.3	5.9	12.9	8.0		6.5	9.9	4.9	-26.7	-13.0	5.0	1.3	17.7	7.1	3.2	0.0
5	Percent Difference (5)	11.2	-0.3	8.9	10.4	18.8	0.5	2.7	8.6	4.1	10.4	7.1	0.2	8.9	19.1	11.3	8.3	8.2	9.5	10.0	16.3	27.4	7.4	4.2	17.5	2.7		4.3	13.3	4.9	-6.7	0.0	8.9	1.3	8.9	5.2	4.6	8.5
6	Percent Difference (6)	-1.8	3.0	2.3	2.3	-2.1	0.8	0.0	-3.4	-1.6	-7.3	-3.6	-11.4	-5.7	-4.6	-0.8	-62.1	-9.1	-2.7	4.3	-8.8	-0.7	9.4	-2.4	4.3	-6.2		7.5	41.6	7.3	-40.0	-8.7	-0.7	-4.7	-6.3	-8.2	-1.0	0.0
7	Percent Difference (7)	5.1	0.1	0.0	6.1	14.0	3.9	1.3	1.1	0.4	6.9	-10.7	35.1	-4.2	18.5	4.2	-34.8	4.0	-2.7	2.9	-1.3	11.0	12.0	2.6	15.1	-3.5		1.1	6.5	2.4	-33.3	-8.7	3.9	-4.7	0.0	5.2	9.2	0.0
8	Percent Difference (8)	-3.9	-1.2	-0.9	-0.8	12.7	-2.1	2.7	-6.5	-1.2	7.3	-3.6	9.6	0.1	-1.0	5.5	-6.7	-3.1	-0.2	2.9	13.8	1.4	0.4	-0.7	7.3	-5.3		-1.1	-1.5	-2.4	0.0	-8.7	-3.3	-4.7	-10.4	-6.3	-2.4	-4.3
9	Percent Difference (9)	1.4	1.2	0.4	-1.0	9.7	-7.1	-1.3	-3.6	-0.8	4.2	0.0	-3.2	1.6	-10.9	17.2	-8.5	3.7	-2.7	0.0	6.3	0.7	-1.1	2.6	2.8	10.6		-1.1	1.9	2.4	-10.0	4.3	3.5	-4.7	-10.9	-4.4	-5.8	-2.1
10	Percent Difference (10)	8.0	5.1	7.8	5.3	11.1	3.1	10.7	3.3	3.7	-1.9	3.6	1.9	3.0	10.0	2.1	-17.1	-1.5	2.2	7.1	-2.5	15.8	11.3	5.9	6.1	23.0		5.4	13.3	4.9	-26.7	4.3	3.1	1.3	12.5	3.3	2.6	2.1
11	Percent Difference (11)	4.6	6.6	2.4	-3.2	5.0	-1.6	8.0	-3.9	2.4	1.9	7.1	23.2	8.9	2.2	2.9	-17.3	6.3	-0.2	5.7	15.0	13.7	7.7	4.2	8.5	4.4		3.2	4.2	2.4	-20.0	-4.3	-1.3	-4.7	31.3	-6.3	-3.4	-2.1
Measurable Detection Limits		*0.01*	*0.01*	*0.01*	*0.1*	*2*	*0.1*	*0.1*	*1*	*0.01*	*0.1*	*0.1*	*0.2*	*0.1*	*0.5*	*0.01*	*0.02*	*0.02*	*2*	*0.01*	*0.001*	*0.5*	*0.5*	*0.01*	*0.5*	*0.001*	*20*	*0.01*	*0.001*	*0.01*	*0.1*	*0.1*	*0.02*	*0.02*	*5*	*0.1*	*0.02*	*0.1*
Acme Group No.		*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*	*1F-MS*

Notes:
1F-MS package:
Ultra trace metals by aqua regia digestion done at Acme Labs. STD OREAS45CA & DS8 are reference materials for ultra trace metals (Group 1F-MS) on solids.
Analytical Methods: 0.5g of pulp sample is digested using aqua regia followed by ICP Mass Spec analysis.

Maxxam Analytics 4606 Canada Way, Burnaby, BC Canada V5G 1K5 Tel: 604 734 7276 Fax: 604 731 2386 www.maxxam.ca

Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 3a: Results of Analysis of NAG Extract on 43 (of 354) Guyana Goldfields Inc. - Aurora Samples - December 2011

Serial No:			1		2	3	4	5	6	7	8	9	10		11	12	13	14	15	16	17	18	19		20	
Parameter	Units	Reportable Detection Limit	BUCKET 1 747643	BUCKET 1 747643 (Replicate)	BUCKET 2 112125	BUCKET 2 109375	BUCKET 2 109417	BUCKET 3 747753	BUCKET 3 77796	BUCKET 4 108756	BUCKET 5 111811	BUCKET 6 738740	BUCKET 8 89805	BUCKET 8 89805 (Duplicate)	BUCKET 10 170764	BUCKET 11 163315	BUCKET 11 816782	BUCKET 12 163033	BUCKET 12 164296	BUCKET 12 816215	BUCKET 12 164333	BUCKET 13 163044	BUCKET 14 29122	BUCKET 14 29122 (Replicate)	BUCKET 14 33887	BUCKET 14 33887 (Duplicate)
Wt. of pulp sample used	g	0.01	2.5		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Vol. of 15% H_2O_2 used	ml	0.01	250		250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
On filtered samples (using 0.45 micron filter paper)																										
Final pH	pH Units	0.5	9.7		6.7	10.9	10.8	9.1	9.2	10.7	11.2	10.9	11.4	11.3	9.0	11.5	9.0	11.1	10.9	11.6	11.6	9.4	11.0		6.2	6.2
Electric Conductivity	µS/cm	0.5	171		25	184	171	135	48	151	281	190	360	367	145	442	140	231	171	474	570	86	198		176	170
Dissolved Sulphate (SO4)	mg/L	0.01	36.5		7.0	8.2	5.4	20.0	6.5	4.3	4.9	4.8	7.7		21.1	9.6	21.8	4.2	4.9	5.2	4.2	3.5	3.8		57.9	
Total Metals by ICP-MS																										
Dissolved Hardness (CaCO3)	mg/L	0.5	53.2		0.5	90.7	91.4	26.8	24.3	97.9	84.9	82.3	110		28.4	150	36.8	84.5	90.4	163	159	20.7	84.8		55.6	
Dissolved Aluminum (Al)	mg/L	0.0002	0.169	0.144	0.0013	0.902	0.304	0.0876	0.0498	0.982	2.30	0.429	2.12		0.101	3.17	0.117	0.628	0.891	2.30	1.28	0.112	0.239	0.254	0.0150	
Dissolved Antimony (Sb)	mg/L	0.00002	0.0015	0.0015	<0.00002	0.00028	0.0004	0.00103	0.00015	0.00011	0.00031	0.0005	0.00022		0.0008	0.00204	0.00016	0.00172	0.00064	0.00081	0.0012	0.00058	0.0006	0.0007	0.00012	
Dissolved Arsenic (As)	mg/L	0.00002	0.0015	0.0016	0.00002	0.00007	0.0001	0.00006	0.00010	0.00005	0.00005	0.0006	0.00008		0.0001	0.00435	0.00008	0.00189	0.00015	0.00436	0.0033	0.00023	0.0001	0.0002	0.00081	
Dissolved Barium (Ba)	mg/L	0.00002	0.0079	0.0077	0.0485	0.0516	0.0064	0.121	0.00106	0.141	0.00383	0.0051	0.0408		0.440	0.00667	0.00694	0.00250	0.169	0.0519	0.0106	0.00124	0.0047	0.0050	0.00401	
Dissolved Beryllium (Be)	mg/L	0.00001	<0.00005	<0.00005	<0.00001	0.00003	<0.00005	0.00003	0.00002	0.00002	0.00001	0.00006	0.00001		0.00005	<0.00001	<0.00001	0.00003	0.00002	0.00001	0.00005	0.00002	<0.00005	<0.00005	<0.00001	
Dissolved Bismuth (Bi)	mg/L	0.000005	<0.00003	<0.00003	<0.000005	0.000010	<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	0.000006		<0.00003	<0.000005	<0.000005	0.000006	<0.000005	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	
Dissolved Boron (B)	mg/L	0.05	1.2	1.2	0.06	0.78	1.3	0.77	0.54	0.58	0.23	1.4	0.36		1.1	0.21	0.10	0.78	0.56	0.26	1.2	0.74	1.2	1.3	<0.05	
Dissolved Cadmium (Cd)	mg/L	0.000005	<0.00003	<0.00003	0.000013	<0.000005	<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005		<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	0.000065	
Dissolved Calcium (Ca)	mg/L	0.05	20.8		0.21	36.3	36.6	9.51	7.70	39.2	34.0	33.0	44.1		10.4	59.9	11.2	33.9	36.2	65.4	63.8	7.53	34.0		12.4	
Dissolved Cesium (Cs)	mg/L	0.00005	<0.0003	<0.0003	<0.00005	0.00006	<0.0003	0.00009	<0.00005	0.00009	0.00032	<0.0003	<0.00005		<0.0003	0.00005	<0.00005	0.00008	0.00155	0.00040	<0.0003	0.00013	<0.0003	<0.0003	<0.00005	
Dissolved Chromium (Cr)	mg/L	0.0001	<0.0005	<0.0005	0.0002	0.0076	0.0133	0.0056	0.0055	0.0175	0.0087	0.0184	0.0085		0.0037	0.0218	0.0050	0.0117	0.0743	0.0150	0.0372	0.0016	0.0142	0.0146	0.0426	
Dissolved Cobalt (Co)	mg/L	0.000005	0.00011	0.00008	0.000216	<0.000005	<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005		<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	0.000590	
Dissolved Copper (Cu)	mg/L	0.00005	0.0006	0.0006	0.00022	0.00029	0.0003	0.00019	0.00018	0.00016	0.00024	0.0004	0.00035		<0.0003	0.00066	0.00016	0.00018	0.00045	0.00060	0.0006	0.00028	<0.0003	<0.0003	0.00102	
Dissolved Iron (Fe)	mg/L	0.001	0.170	0.170	0.003	0.007	<0.005	0.001	0.001	0.002	0.004	<0.005	0.002		<0.005	0.002	0.002	0.002	0.003	0.003	<0.005	<0.001	<0.005	<0.005	0.007	
Dissolved Lanthanum (La)	mg/L	0.00005	<0.0003	<0.0003	<0.00005	<0.00005	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.0003	<0.00005		<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0003	<0.00005	<0.0003	<0.0003	<0.00005	
Dissolved Lead (Pb)	mg/L	0.000005	0.00009	0.00009	0.000017	0.000022	<0.00003	0.000015	0.000009	0.000010	0.000011	<0.00003	0.000023		<0.00003	0.000042	0.000008	0.000010	0.000020	0.000017	0.00003	0.000008	<0.00003	<0.00003	0.000011	
Dissolved Lithium (Li)	mg/L	0.0005	<0.003	<0.003	<0.0005	0.0005	<0.003	0.0007	0.0011	<0.0005	<0.0005	<0.003	<0.0005		<0.003	<0.0005	0.0006	0.0007	<0.0005	<0.0005	<0.003	0.0008	<0.003	<0.003	<0.0005	
Dissolved Magnesium (Mg)	mg/L	0.05	0.3		<0.05	<0.05	<0.3	0.73	1.24	<0.05	<0.05	<0.3	<0.05		0.6	<0.05	2.13	<0.05	<0.05	<0.05	<0.3	0.45	<0.3		5.95	
Dissolved Manganese (Mn)	mg/L	0.00005	0.0030	0.0032	0.584	0.00018	<0.0003	0.00024	0.00031	0.00042	0.00259	<0.0003	0.00016		<0.0003	0.00024	0.00291	0.00006	0.00019	0.00011	<0.0003	0.00009	<0.0003	<0.0003	0.404	
Dissolved Mercury (Hg)	mg/L	0.00001	<0.00005	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00005	<0.00001		<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00001	
Dissolved Molybdenum (Mo)	mg/L	0.00005	0.0041	0.0042	<0.00005	0.00847	0.0104	0.00180	0.00184	0.00378	0.00240	0.0131	0.00154		0.0124	0.00971	0.00963	0.0298	0.0216	0.00176	0.0279	0.00586	0.0012	0.0013	0.00278	
Dissolved Nickel (Ni)	mg/L	0.00002	0.0003	0.0003	0.00019	0.00009	0.0002	0.00007	0.00008	0.00012	0.00006	<0.0001	0.00007		<0.0001	0.00011	0.00023	0.00010	0.00010	0.00036	0.0003	0.00015	0.0001	<0.0001	0.00070	
Dissolved Phosphorus (P)	mg/L	0.002	0.02	<0.01	0.009	0.015	0.02	0.021	0.018	0.012	0.012	0.02	0.012		0.02	0.012	0.016	0.015	0.016	0.035	0.02	0.013	0.02	0.01	0.038	
Dissolved Potassium (K)	mg/L	0.05	2.5		0.44	2.22	2.1	2.19	0.54	2.21	0.26	2.2	1.45		4.4	2.13	2.29	0.94	0.59	0.49	1.6	3.26	1.7		0.54	
Dissolved Rubidium (Rb)	mg/L	0.00005	0.0024	0.0026	0.00050	0.00253	0.0023	0.00189	0.00040	0.00232	0.00037	0.0026	0.00189		0.0061	0.00237	0.00286	0.00076	0.00252	0.00123	0.0024	0.00459	0.0019	0.0022	0.00073	
Dissolved Selenium (Se)	mg/L	0.00004	0.0006	0.0006	0.00038	0.00073	<0.0002	0.00022	0.00066	0.00017	0.00065	0.0007	0.00119		<0.0002	0.00035	0.00162	0.00026	0.00060	0.00082	0.0009	0.00051	0.0012	0.0011	0.00529	
Dissolved Silicon (Si)	mg/L	0.1	7.7	7.6	4.2	10.4	15.7	4.8	3.9	13.3	6.1	15.1	10.9		7.8	6.3	2.6	11.5	11.8	6.2	5.7	3.8	14.5	13.5	16.6	
Dissolved Silver (Ag)	mg/L	0.000005	<0.00003	<0.00003	0.000016	<0.000005	<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005		<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	0.000035	
Dissolved Sodium (Na)	mg/L	0.05	7.4		2.49	5.22	3.8	5.69	4.74	6.44	3.57	4.2	3.28		5.7	4.80	3.68	5.83	3.62	4.27	4.0	4.00	3.1		2.59	
Dissolved Strontium (Sr)	mg/L	0.00005	0.173	0.175	0.00868	0.213	0.237	2.16	0.0591	0.849	0.111	0.206	0.154		2.45	0.322	0.243	0.123	0.372	0.167	0.435	0.0731	0.151	0.163	0.0343	
Dissolved Sulphur (S)	mg/L	10	<50		<10	<10	<50	<10	<10	<10	<10	<50	<10		<50	<10	<10	<10	<10	<10	<50	<10	<50		23	
Dissolved Tellurium (Te)	mg/L	0.00002	<0.0001	0.0001	0.00005	<0.00002	0.0001	0.00002	<0.00002	<0.00002	<0.00002	0.0001	<0.00002		<0.0001	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0001	0.00008	<0.0001	<0.0001	<0.00002	
Dissolved Thallium (Tl)	mg/L	0.000002	0.00002	0.00002	0.000148	0.000005	0.00001	0.000007	<0.000002	0.000004	0.000004	0.00001	0.000020		0.00006	0.000007	0.000008	<0.000002	0.000024	0.000006	<0.00001	0.000007	<0.00001	<0.00001	<0.000002	
Dissolved Thorium (Th)	mg/L	0.000005	<0.00003	<0.00003	<0.000005	<0.000005	<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005		<0.00003	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	
Dissolved Tin (Sn)	mg/L	0.00001	0.00012	0.00016	0.00007	0.00017	0.00008	0.00008	0.00006	0.00015	0.00028	0.00013	0.00018		0.00006	0.00021	0.00010	0.00013	0.00010	0.00012	0.00019	0.00003	0.00013	0.00014	0.00005	
Dissolved Titanium (Ti)	mg/L	0.0005	<0.003	<0.003	<0.0005	<0.0005	<0.003	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0005		<0.003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	0.0007	<0.003	<0.003	0.0393	
Dissolved Tungsten (W)	mg/L	0.00001	0.00026	0.00028	<0.00001	0.00016	0.00058	0.00052	0.00014	0.00217	0.00028	0.00046	0.00006		0.00039	0.00015	0.00047	0.00030	0.00013	0.00077	0.00015	0.00010	0.00006	0.00008	0.00064	
Dissolved Uranium (U)	mg/L	0.000002	<0.00001	<0.00001	<0.000002	<0.000002	<0.00001	<0.000002	<0.000002	<0.000002	<0.000002	<0.00001	<0.000002		<0.00001	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.00001	<0.000002	<0.00001	<0.00001	0.000014	
Dissolved Vanadium (V)	mg/L	0.0002	0.006	0.005	0.0010	0.0036	0.002	0.0021	0.0008	0.0041	0.0286	0.004	0.0272		0.004	0.0095	0.0020	0.0057	0.0191	0.0242	0.011	0.0007	0.004	0.003	0.159	
Dissolved Zinc (Zn)	mg/L	0.0001	0.0015	0.0016	0.0007	0.0002	0.0009	0.0003	0.0002	0.0003	0.0004	0.0006	0.0008		0.0006	0.0003	0.0003	0.0002	0.0006	0.0004	<0.0005	0.0004	<0.0005	<0.0005	0.0007	
Dissolved Zirconium (Zr)	mg/L	0.0001	<0.0005	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001		<0.0005	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0005	<0.0001	<0.0005	<0.0005	<0.0001	
Maxxam ID			CG3534	CG3534	CG3535	CG3536	CG3537	CG3538	CG3539	CG3540	CG3541	CG3542	CG3543		CG3544	CG3545	CG3546	CG3547	CG3548	CG3549	CG3550	CG3551	CG3552	CG3552	CG3553	
Sampling Date			11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	
COC Number			8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523		8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	
Maxxam Job No:																										

Note:

Initial 15% H2O2 pH: 5.52 (all pH's measured were done at room temperature & buffered with 0.5N NaOH).

Metal analysis was done on unaltered NAG extract solution [ie. the slurry solution after the digestion process, was brought back to its original volume of 250 ml with DI H2O and this slurry was homegenized, filtered (using 0.45 micron filter paper), preserved with conc. HNO3 and analysed for trace metals].

21	22	23	24	25	26	27	28	29	30		31	32	33	34	35	36	37	38	39	40		41	42	43	
Sample ID																									Method Blank
BUCKET 15 36541	BUCKET 16 37658	BUCKET 17 18498	BUCKET 17 18741	BUCKET 18 13944	BUCKET 18 58840	BUCKET 18 20822	BUCKET 19 23390	BUCKET 19 747028	BUCKET 20 37873	BUCKET 20 37873 (Duplicate)	BUCKET 20 13463	BUCKET 20 3884	BUCKET 20 3803	BUCKET 21 7510	BUCKET 21 19965	BUCKET 21 36808	BUCKET 22 14234	BUCKET 22 18631	BUCKET 22 18190	BUCKET 22 18211	BUCKET 22 18211 (Duplicate)	BUCKET 23 75849	BUCKET 23 110234	BUCKET 23 109604	
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
10.8	8.6	10.5	10.5	11.1	9.3	9.9	9.1	9.1	10.3	10.3	11.1	10.4	10.2	6.1	10.3	11.5	11.2	9.9	3.8	9.3	9.3	10.4	11.0	10.9	5.5
193	366	147	133	247	91	142	107	136	196	194	305	101	136	13	115	416	304	108	159	90	90	98	202	188	12
19.3	127.0	22.0	6.2	8.6	4.3	29.8	7.7	22.2	41.2		38.7	2.3	16.8	1.2	9.1	3.7	27.8	11.8	32.7	1.8		2.0	1.0	4.5	
87.5	125	71.3	93.8	104	21.2	51.2	21.2	28.2	99.6		108	61.0	72.9	<0.5	57.1	139	126	36.8	7.7	22.2		51.2	80.5	82.6	
0.977	0.092	0.507	1.15	1.08	0.094	0.340	0.130	0.089	0.422		0.406	0.712	0.534	0.0024	0.301	1.39	0.604	0.313	1.04	0.0683		0.160	0.754	0.219	
0.0006	0.0008	0.0008	0.00015	0.0011	0.0002	0.00097	0.00069	0.0014	0.0010		0.0008	0.0006	0.0008	<0.00002	0.0020	0.00065	0.0008	0.0010	<0.00002	0.00056		0.0006	0.0004	0.0008	
0.0002	<0.0001	<0.0001	0.00006	0.0009	<0.0001	0.00006	0.00005	0.0007	0.0002		<0.0001	0.0002	0.0001	<0.00002	0.0019	0.00006	0.0003	0.0001	0.00073	0.0156		0.0002	0.0002	<0.0001	
0.422	0.0163	0.0124	0.0174	0.0160	0.0003	0.0725	0.959	0.0024	0.467		1.20	0.0088	0.212	0.00027	0.0019	0.121	0.0119	0.0523	0.0409	0.00137		0.0028	0.0021	0.0579	
<0.00005	<0.00005	<0.00005	0.00002	<0.00005	<0.00005	0.00003	0.00001	<0.00005	0.00005		<0.00005	<0.00005	<0.00005	<0.00001	0.00005	0.00003	<0.00005	<0.00005	0.00036	0.00002		0.00005	0.00006	0.00007	
<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005		<0.00003	<0.00003	<0.00003	
0.9	1.2	1.0	0.67	0.9	0.8	0.69	0.31	0.8	1.2		1.1	1.0	1.2	<0.05	1.2	0.65	1.2	0.9	0.29	0.49		0.9	1.0	1.3	
<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	0.000262	<0.000005		<0.00003	<0.00003	<0.00003	
35.1	49.6	28.6	37.6	41.8	6.9	20.4	6.31	9.6	39.9		43.2	24.4	29.2	0.06	22.9	55.8	50.3	14.7	2.27	8.16		20.5	32.2	33.1	
<0.0003	<0.0003	<0.0003	0.00015	<0.0003	<0.0003	0.00012	0.00007	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	<0.00005	<0.0003	0.00059	<0.0003	<0.0003	0.00037	<0.00005		<0.0003	<0.0003	<0.0003	
0.0200	<0.0005	0.0117	0.0132	0.0152	<0.0005	0.0188	0.0031	0.0006	0.0237		0.0113	0.0216	0.0487	0.0302	0.0127	0.0251	0.0148	0.0149	0.0537	0.0144		0.0148	0.0057	0.0219	
<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	0.000010	<0.00003	<0.000005	<0.00003	<0.00003	0.0175	0.000023		<0.00003	<0.00003	<0.00003	
<0.0003	<0.0003	<0.0003	0.00023	<0.0003	<0.0003	0.00016	0.00020	<0.0003	<0.0003		0.0004	<0.0003	<0.0003	0.00069	<0.0003	0.00031	0.0005	<0.0003	0.0663	0.00023		<0.0003	0.0003	0.0004	
0.060	<0.005	0.017	0.014	<0.005	<0.005	0.008	0.003	<0.005	<0.005		<0.005	<0.005	<0.005	0.003	<0.005	0.001	<0.005	<0.005	0.010	0.028		<0.005	<0.005	0.008	
<0.0003	<0.0003	<0.0003	<0.00005	<0.0003	<0.0003	<0.00005	<0.00005	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	<0.00005	<0.0003	<0.00005	<0.0003	<0.0003	0.00336	<0.00005		<0.0003	<0.0003	<0.0003	
<0.00003	<0.00003	<0.00003	0.000012	<0.00003	<0.00003	0.000016	0.000010	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	0.000022	<0.00003	0.000014	<0.00003	<0.00003	0.000810	0.000023		<0.00003	<0.00003	0.00007	
<0.003	<0.003	<0.003	0.0008	<0.003	<0.003	<0.0005	<0.0005	<0.003	<0.003		<0.003	<0.003	<0.003	<0.0005	<0.003	<0.0005	<0.003	<0.003	0.0012	0.0008		<0.003	<0.003	<0.003	
<0.3	0.3	<0.3	<0.05	<0.3	1.0	0.06	1.33	1.0	<0.3		<0.3	<0.3	<0.3	<0.05	<0.3	<0.05	<0.3	<0.3	0.50	0.43		<0.3	<0.3	<0.3	
0.0005	0.0004	0.0004	0.00031	<0.0003	0.0011	0.00013	0.00049	0.0010	<0.0003		<0.0003	0.0003	<0.0003	0.00057	<0.0003	0.00011	<0.0003	<0.0003	0.170	0.00112		<0.0003	<0.0003	<0.0003	
<0.00005	<0.00005	<0.00005	<0.00001	<0.00005	<0.00005	<0.00001	<0.00001	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.020	<0.00001		<0.00005	<0.00005	<0.00005	
0.0017	0.0076	0.0032	0.00199	0.0027	0.0089	0.00582	0.00557	0.0213	0.122		0.0128	0.0129	0.0255	0.00082	0.0050	0.00120	0.0073	0.0231	0.0165	0.00128		0.0018	0.0021	0.0013	
<0.0001	0.0004	0.0001	0.00008	<0.0001	<0.0001	0.00007	0.00005	0.0001	0.0002		0.0001	0.0001	0.0001	0.00039	0.0001	0.00004	0.0005	<0.0001	0.0174	0.00027		<0.0001	0.0001	<0.0001	
0.02	0.01	0.01	0.016	0.01	<0.01	0.019	0.015	0.02	0.01		0.03	0.02	0.01	0.041	0.01	0.012	0.01	0.02	0.025	0.051		0.01	0.02	0.02	
1.3	2.8	2.8	1.90	3.4	0.8	3.43	2.73	2.3	3.0		2.0	1.0	2.2	0.18	2.0	1.08	2.5	4.3	2.23	1.29		2.1	0.6	2.3	
0.0018	0.0037	0.0031	0.00229	0.0036	0.0009	0.00393	0.00262	0.0022	0.0037		0.0024	0.0014	0.0025	0.00011	0.0017	0.00319	0.0034	0.0056	0.00394	0.00103		0.0026	0.0005	0.0033	
0.0007	0.0017	0.0004	0.00032	0.0004	0.0019	0.00063	0.00045	0.0007	0.0011		0.0004	0.0004	0.0005	0.00034	0.0003	0.00088	0.0009	0.0006	0.00102	0.00083		0.0003	0.0008	0.0015	
12.3	6.8	10.4	14.0	11.0	4.8	8.1	2.6	4.7	11.4		8.8	10.6	11.4	6.9	9.6	6.8	12.8	6.8	6.2	8.7		7.6	11.2	12.3	
<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	0.000341	<0.000005		<0.00003	<0.00003	<0.00003	
5.7	7.6	5.2	6.44	6.2	5.4	4.93	3.90	7.7	5.2		4.3	4.5	4.6	2.03	5.5	8.05	4.5	5.2	3.50	4.24		3.8	4.9	3.7	
1.90	0.950	0.169	0.107	0.276	0.0318	0.558	0.503	0.148	1.25		6.96	0.132	0.912	0.00066	0.159	0.506	0.207	0.519	0.0320	0.0580		0.134	0.0843	0.207	
<50	<50	<50	<10	<50	<50	10	<10	<50	<50		<50	<50	<50	<10	<50	<10	<50	<50	11	<10		<50	<50	<50	
<0.0001	<0.0001	<0.0001	0.00002	<0.0001	<0.0001	<0.00002	<0.00002	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.00002	<0.0001	<0.00002	<0.0001	<0.0001	0.00004	0.00002		0.0001	<0.0001	0.0001	
<0.00001	<0.00001	<0.00001	0.000008	<0.00001	<0.00001	0.000009	0.000005	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.000002	<0.00001	0.000007	<0.00001	<0.00001	0.000027	0.000002		<0.00001	<0.00001	<0.00001	
<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	<0.000005	<0.00003	<0.000005	<0.00003	<0.00003	<0.000005	<0.000005		<0.00003	<0.00003	<0.00003	
0.00018	0.00005	0.00008	0.00011	0.00010	<0.00005	0.00006	0.00005	0.00007	0.00010		0.00012	0.00012	0.00009	0.00006	<0.00005	0.00013	0.00014	0.00005	0.00004	0.00008		0.00009	0.00015	0.00015	
<0.003	<0.003	<0.003	<0.0005	<0.003	<0.003	<0.0005	<0.0005	<0.003	<0.003		<0.003	<0.003	<0.003	<0.0005	<0.003	<0.0005	<0.003	<0.003	<0.0005	<0.0005		<0.003	<0.003	<0.003	
0.00048	0.00106	0.00104	0.00018	0.00015	0.00098	0.00092	0.00420	0.00287	0.00096		0.00086	0.00024	0.0439	0.00018	0.00068	0.00018	0.00029	0.00131	0.0350	0.00022		0.00011	0.00013	0.00012	
<0.00001	<0.00001	<0.00001	<0.000002	<0.00001	<0.00001	<0.000002	<0.000002	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.000002	<0.00001	<0.000002	<0.00001	<0.00001	0.000053	<0.000002		<0.00001	<0.00001	0.00002	
0.007	0.003	0.003	0.0020	0.003	0.001	0.0040	0.0003	0.002	0.005		0.002	0.003	0.002	0.156	0.001	0.0171	0.003	0.003	0.0234	0.0034		0.001	0.008	0.003	
0.0006	<0.0005	<0.0005	0.0002	<0.0005	<0.0005	0.0003	0.0009	0.0005	0.0009		0.0014	0.0007	<0.0005	0.0005	<0.0005	0.0003	0.0013	<0.0005	0.0437	0.0002		<0.0005	<0.0005	0.0005	
<0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0001	<0.0001	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0001	<0.0005	<0.0005	<0.0001	0.0002		<0.0005	<0.0005	<0.0005	
CG3554	CG3555	CG3556	CG3557	CG3558	CG3559	CG3560	CG3561	CG3562	CG3563		CG3564	CG3565	CG3566	CG3567	CG3568	CG3569	CG3570	CG3571	CG3572	CG3573		CG3574	CG3575	CG3576	
11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011		11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011	11/30/2011		11/30/2011	11/30/2011	11/30/2011	
8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523		8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523	8342523		8342523	8342523	8342523	
	B1B6334																								

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Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 3b: Quality Assurance Report on NAG-Extract Results (Maxxam Job No: VB1B6334) on 43 (of 354) Guyana Goldfields Inc. - Aurora Samples - December 2011

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5411086	Matrix Spike	Dissolved Antimony (Sb)	12/1/2011		NC	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		103	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		NC	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		107	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		46 (1)	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		107	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		98	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		99	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		94	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		98	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		NC	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		100	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		105	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		105	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		97	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		104	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		NC	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		98	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		114	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		112	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		NC	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		114	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		92	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		95	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		100	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		102	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		NC	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		103	%	80 - 120
	Spiked Blank	Dissolved Antimony (Sb)	12/1/2011		100	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		98	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		106	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		98	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		96	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		97	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		107	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		96	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		96	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		97	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		103	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		104	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		102	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		101	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		101	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		95	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		100	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		97	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		105	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		106	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		102	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		99	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		101	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		97	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		102	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		101	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		96	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		98	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	12/1/2011	0.0003	RDL=0.0002	mg/L	
		Dissolved Antimony (Sb)	12/1/2011	<0.00002		mg/L	
		Dissolved Arsenic (As)	12/1/2011	<0.00002		mg/L	
		Dissolved Barium (Ba)	12/1/2011	<0.00002		mg/L	
		Dissolved Beryllium (Be)	12/1/2011	<0.00001		mg/L	
		Dissolved Bismuth (Bi)	12/1/2011	<0.000005		mg/L	
		Dissolved Boron (B)	12/1/2011	<0.05		mg/L	
		Dissolved Cadmium (Cd)	12/1/2011	<0.000005		mg/L	
		Dissolved Cesium (Cs)	12/1/2011	<0.00005		mg/L	
		Dissolved Chromium (Cr)	12/1/2011	<0.0001		mg/L	
		Dissolved Cobalt (Co)	12/1/2011	<0.000005		mg/L	
		Dissolved Copper (Cu)	12/1/2011	<0.00005		mg/L	
		Dissolved Iron (Fe)	12/1/2011	<0.001		mg/L	
		Dissolved Lanthanum (La)	12/1/2011	<0.00005		mg/L	
		Dissolved Lead (Pb)	12/1/2011	<0.000005		mg/L	
		Dissolved Lithium (Li)	12/1/2011	<0.0005		mg/L	
		Dissolved Manganese (Mn)	12/1/2011	<0.00005		mg/L	
		Dissolved Mercury (Hg)	12/1/2011	<0.00001		mg/L	
		Dissolved Molybdenum (Mo)	12/1/2011	<0.00005		mg/L	
		Dissolved Nickel (Ni)	12/1/2011	<0.00002		mg/L	

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Phosphorus (P)	12/1/2011	<0.002		mg/L	
		Dissolved Rubidium (Rb)	12/1/2011	<0.00005		mg/L	
		Dissolved Selenium (Se)	12/1/2011	<0.00004		mg/L	
		Dissolved Silicon (Si)	12/1/2011	<0.1		mg/L	
		Dissolved Silver (Ag)	12/1/2011	<0.000005		mg/L	
		Dissolved Strontium (Sr)	12/1/2011	<0.00005		mg/L	
		Dissolved Tellurium (Te)	12/1/2011	<0.00002		mg/L	
		Dissolved Thallium (Tl)	12/1/2011	<0.000002		mg/L	
		Dissolved Thorium (Th)	12/1/2011	<0.000005		mg/L	
		Dissolved Tin (Sn)	12/1/2011	<0.00001		mg/L	
		Dissolved Titanium (Ti)	12/1/2011	<0.0005		mg/L	
		Dissolved Tungsten (W)	12/1/2011	<0.00001		mg/L	
		Dissolved Uranium (U)	12/1/2011	<0.000002		mg/L	
		Dissolved Vanadium (V)	12/1/2011	<0.0002		mg/L	
		Dissolved Zinc (Zn)	12/1/2011	<0.0001		mg/L	
		Dissolved Zirconium (Zr)	12/1/2011	<0.0001		mg/L	
	RPD	Dissolved Aluminum (Al)	12/1/2011	15.7		%	20
		Dissolved Antimony (Sb)	12/1/2011	1.1		%	20
		Dissolved Arsenic (As)	12/1/2011	4.5		%	20
		Dissolved Barium (Ba)	12/1/2011	3		%	20
		Dissolved Beryllium (Be)	12/1/2011	NC		%	20
		Dissolved Bismuth (Bi)	12/1/2011	NC		%	20
		Dissolved Boron (B)	12/1/2011	NC		%	20
		Dissolved Cadmium (Cd)	12/1/2011	NC		%	20
		Dissolved Cesium (Cs)	12/1/2011	NC		%	20
		Dissolved Chromium (Cr)	12/1/2011	NC		%	20
		Dissolved Cobalt (Co)	12/1/2011	NC		%	20
		Dissolved Copper (Cu)	12/1/2011	NC		%	20
		Dissolved Iron (Fe)	12/1/2011	0.3		%	20
		Dissolved Lanthanum (La)	12/1/2011	NC		%	20
		Dissolved Lead (Pb)	12/1/2011	NC		%	20
		Dissolved Lithium (Li)	12/1/2011	NC		%	20
		Dissolved Manganese (Mn)	12/1/2011	4.4		%	20
		Dissolved Mercury (Hg)	12/1/2011	NC		%	20
		Dissolved Molybdenum (Mo)	12/1/2011	2.2		%	20
		Dissolved Nickel (Ni)	12/1/2011	NC		%	20
		Dissolved Phosphorus (P)	12/1/2011	NC		%	20
		Dissolved Rubidium (Rb)	12/1/2011	10.2		%	20
		Dissolved Selenium (Se)	12/1/2011	NC		%	20
		Dissolved Silicon (Si)	12/1/2011	1.8		%	20
		Dissolved Silver (Ag)	12/1/2011	NC		%	20
		Dissolved Strontium (Sr)	12/1/2011	0.8		%	20
		Dissolved Tellurium (Te)	12/1/2011	NC		%	20
		Dissolved Thallium (Tl)	12/1/2011	NC		%	20
		Dissolved Thorium (Th)	12/1/2011	NC		%	20
		Dissolved Tin (Sn)	12/1/2011	NC		%	20
		Dissolved Titanium (Ti)	12/1/2011	NC		%	20
		Dissolved Tungsten (W)	12/1/2011	7		%	20
		Dissolved Uranium (U)	12/1/2011	NC		%	20
		Dissolved Vanadium (V)	12/1/2011	5.2		%	20
		Dissolved Zinc (Zn)	12/1/2011	NC		%	20
		Dissolved Zirconium (Zr)	12/1/2011	NC		%	20
5411091	Matrix Spike	Dissolved Antimony (Sb)	12/1/2011		NC	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		104	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		103	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		110	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		73 (2)	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		105	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		135 (2)	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		NC	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		94	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		93	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		117	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		103	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		102	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		102	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		92	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		103	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		NC	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		95	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		110	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		112	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		NC	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		101	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		92	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		100	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		118	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		101	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		93	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		103	%	80 - 120
	Spiked Blank	Dissolved Antimony (Sb)	12/1/2011		107	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		99	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		108	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		99	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		102	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		100	%	80 - 120

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Cesium (Cs)	12/1/2011		115	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		99	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		97	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		97	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		110	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		107	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		105	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		103	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		102	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		95	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		105	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		97	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		104	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		112	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		105	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		96	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		103	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		100	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		101	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		101	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		98	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		98	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	12/1/2011	<0.0002		mg/L	
		Dissolved Antimony (Sb)	12/1/2011	<0.00002		mg/L	
		Dissolved Arsenic (As)	12/1/2011	<0.00002		mg/L	
		Dissolved Barium (Ba)	12/1/2011	<0.00002		mg/L	
		Dissolved Beryllium (Be)	12/1/2011	<0.00001		mg/L	
		Dissolved Bismuth (Bi)	12/1/2011	<0.000005		mg/L	
		Dissolved Boron (B)	12/1/2011	<0.05		mg/L	
		Dissolved Cadmium (Cd)	12/1/2011	<0.000005		mg/L	
		Dissolved Cesium (Cs)	12/1/2011	<0.00005		mg/L	
		Dissolved Chromium (Cr)	12/1/2011	<0.0001		mg/L	
		Dissolved Cobalt (Co)	12/1/2011	<0.000005		mg/L	
		Dissolved Copper (Cu)	12/1/2011	<0.00005		mg/L	
		Dissolved Iron (Fe)	12/1/2011	<0.001		mg/L	
		Dissolved Lanthanum (La)	12/1/2011	<0.00005		mg/L	
		Dissolved Lead (Pb)	12/1/2011	<0.000005		mg/L	
		Dissolved Lithium (Li)	12/1/2011	<0.0005		mg/L	
		Dissolved Manganese (Mn)	12/1/2011	<0.00005		mg/L	
		Dissolved Mercury (Hg)	12/1/2011	<0.00001		mg/L	
		Dissolved Molybdenum (Mo)	12/1/2011	<0.00005		mg/L	
		Dissolved Nickel (Ni)	12/1/2011	<0.00002		mg/L	
		Dissolved Phosphorus (P)	12/1/2011	<0.002		mg/L	
		Dissolved Rubidium (Rb)	12/1/2011	<0.00005		mg/L	
		Dissolved Selenium (Se)	12/1/2011	<0.00004		mg/L	
		Dissolved Silicon (Si)	12/1/2011	<0.1		mg/L	
		Dissolved Silver (Ag)	12/1/2011	<0.000005		mg/L	
		Dissolved Strontium (Sr)	12/1/2011	<0.00005		mg/L	
		Dissolved Tellurium (Te)	12/1/2011	<0.00002		mg/L	
		Dissolved Thallium (Tl)	12/1/2011	<0.000002		mg/L	
		Dissolved Thorium (Th)	12/1/2011	<0.000005		mg/L	
		Dissolved Tin (Sn)	12/1/2011	<0.00001		mg/L	
		Dissolved Titanium (Ti)	12/1/2011	<0.0005		mg/L	
		Dissolved Tungsten (W)	12/1/2011	<0.00001		mg/L	
		Dissolved Uranium (U)	12/1/2011	<0.000002		mg/L	
		Dissolved Vanadium (V)	12/1/2011	<0.0002		mg/L	
		Dissolved Zinc (Zn)	12/1/2011	<0.0001		mg/L	
		Dissolved Zirconium (Zr)	12/1/2011	<0.0001		mg/L	
RPD		Dissolved Aluminum (Al)	12/1/2011	6.3		%	20
		Dissolved Antimony (Sb)	12/1/2011	8		%	20
		Dissolved Arsenic (As)	12/1/2011	NC		%	20
		Dissolved Barium (Ba)	12/1/2011	6.2		%	20
		Dissolved Beryllium (Be)	12/1/2011	NC		%	20
		Dissolved Bismuth (Bi)	12/1/2011	NC		%	20
		Dissolved Boron (B)	12/1/2011	NC		%	20
		Dissolved Cadmium (Cd)	12/1/2011	NC		%	20
		Dissolved Cesium (Cs)	12/1/2011	NC		%	20
		Dissolved Chromium (Cr)	12/1/2011	2.2		%	20
		Dissolved Cobalt (Co)	12/1/2011	NC		%	20
		Dissolved Copper (Cu)	12/1/2011	NC		%	20
		Dissolved Iron (Fe)	12/1/2011	NC		%	20
		Dissolved Lanthanum (La)	12/1/2011	NC		%	20
		Dissolved Lead (Pb)	12/1/2011	NC		%	20
		Dissolved Lithium (Li)	12/1/2011	NC		%	20
		Dissolved Manganese (Mn)	12/1/2011	NC		%	20
		Dissolved Mercury (Hg)	12/1/2011	NC		%	20
		Dissolved Molybdenum (Mo)	12/1/2011	NC		%	20
		Dissolved Nickel (Ni)	12/1/2011	NC		%	20
		Dissolved Phosphorus (P)	12/1/2011	NC		%	20
		Dissolved Rubidium (Rb)	12/1/2011	12.4		%	20
		Dissolved Selenium (Se)	12/1/2011	9.3		%	20
		Dissolved Silicon (Si)	12/1/2011	7.5		%	20
		Dissolved Silver (Ag)	12/1/2011	NC		%	20
		Dissolved Strontium (Sr)	12/1/2011	8.1		%	20
		Dissolved Tellurium (Te)	12/1/2011	NC		%	20
		Dissolved Thallium (Tl)	12/1/2011	NC		%	20

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Thorium (Th)	12/1/2011	NC		%	20
		Dissolved Tin (Sn)	12/1/2011	NC		%	20
		Dissolved Titanium (Ti)	12/1/2011	NC		%	20
		Dissolved Tungsten (W)	12/1/2011	NC		%	20
		Dissolved Uranium (U)	12/1/2011	NC		%	20
		Dissolved Vanadium (V)	12/1/2011	NC		%	20
		Dissolved Zinc (Zn)	12/1/2011	NC		%	20
		Dissolved Zirconium (Zr)	12/1/2011	NC		%	20
5411986	Matrix Spike	Dissolved Antimony (Sb)	12/1/2011		112	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		NC	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		101	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		103	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		103	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		104	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		101	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		102	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		103	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		102	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		97	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		110	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		103	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		98	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		102	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		447 (3)	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		102	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		100	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		109	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		110	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		NC	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		104	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		103	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		NC	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		102	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		106	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		102	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		110	%	80 - 120
	Spiked Blank	Dissolved Antimony (Sb)	12/1/2011		106	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		101	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		105	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		100	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		99	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		101	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		105	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		99	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		101	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		100	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		100	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		104	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		105	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		101	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		100	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		94	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		100	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		100	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		104	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		110	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		106	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		102	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		102	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		101	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		96	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		105	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		97	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		103	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	12/1/2011	<0.0002		mg/L	
		Dissolved Antimony (Sb)	12/1/2011	<0.00002		mg/L	
		Dissolved Arsenic (As)	12/1/2011	<0.00002		mg/L	
		Dissolved Barium (Ba)	12/1/2011	<0.00002		mg/L	
		Dissolved Beryllium (Be)	12/1/2011	<0.00001		mg/L	
		Dissolved Bismuth (Bi)	12/1/2011	<0.000005		mg/L	

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Boron (B)	12/1/2011	<0.05		mg/L	
		Dissolved Cadmium (Cd)	12/1/2011	<0.000005		mg/L	
		Dissolved Cesium (Cs)	12/1/2011	<0.00005		mg/L	
		Dissolved Chromium (Cr)	12/1/2011	<0.0001		mg/L	
		Dissolved Cobalt (Co)	12/1/2011	<0.000005		mg/L	
		Dissolved Copper (Cu)	12/1/2011	<0.00005		mg/L	
		Dissolved Iron (Fe)	12/1/2011	<0.001		mg/L	
		Dissolved Lanthanum (La)	12/1/2011	<0.00005		mg/L	
		Dissolved Lead (Pb)	12/1/2011	<0.000005		mg/L	
		Dissolved Lithium (Li)	12/1/2011	<0.0005		mg/L	
		Dissolved Manganese (Mn)	12/1/2011	<0.00005		mg/L	
		Dissolved Mercury (Hg)	12/1/2011	<0.00001		mg/L	
		Dissolved Molybdenum (Mo)	12/1/2011	<0.00005		mg/L	
		Dissolved Nickel (Ni)	12/1/2011	<0.00002		mg/L	
		Dissolved Phosphorus (P)	12/1/2011	<0.002		mg/L	
		Dissolved Rubidium (Rb)	12/1/2011	<0.00005		mg/L	
		Dissolved Selenium (Se)	12/1/2011	<0.00004		mg/L	
		Dissolved Silicon (Si)	12/1/2011	<0.1		mg/L	
		Dissolved Silver (Ag)	12/1/2011	<0.000005		mg/L	
		Dissolved Strontium (Sr)	12/1/2011	<0.00005		mg/L	
		Dissolved Tellurium (Te)	12/1/2011	<0.00002		mg/L	
		Dissolved Thallium (Tl)	12/1/2011	<0.000002		mg/L	
		Dissolved Thorium (Th)	12/1/2011	<0.000005		mg/L	
		Dissolved Tin (Sn)	12/1/2011	<0.00001		mg/L	
		Dissolved Titanium (Ti)	12/1/2011	<0.0005		mg/L	
		Dissolved Tungsten (W)	12/1/2011	<0.00001		mg/L	
		Dissolved Uranium (U)	12/1/2011	<0.000002		mg/L	
		Dissolved Vanadium (V)	12/1/2011	<0.0002		mg/L	
		Dissolved Zinc (Zn)	12/1/2011	<0.0001		mg/L	
		Dissolved Zirconium (Zr)	12/1/2011	<0.0001		mg/L	
	RPD	Dissolved Aluminum (Al)	12/1/2011	0.1		%	20
		Dissolved Antimony (Sb)	12/1/2011	4.1		%	20
		Dissolved Arsenic (As)	12/1/2011	3.4		%	20
		Dissolved Barium (Ba)	12/1/2011	2.6		%	20
		Dissolved Beryllium (Be)	12/1/2011	NC		%	20
		Dissolved Bismuth (Bi)	12/1/2011	NC		%	20
		Dissolved Boron (B)	12/1/2011	NC		%	20
		Dissolved Cadmium (Cd)	12/1/2011	NC		%	20
		Dissolved Chromium (Cr)	12/1/2011	NC		%	20
		Dissolved Cobalt (Co)	12/1/2011	0.2		%	20
		Dissolved Copper (Cu)	12/1/2011	17.7		%	20
		Dissolved Iron (Fe)	12/1/2011	1.5		%	20
		Dissolved Lead (Pb)	12/1/2011	NC		%	20
		Dissolved Lithium (Li)	12/1/2011	NC		%	20
		Dissolved Manganese (Mn)	12/1/2011	2.5		%	20
		Dissolved Mercury (Hg)	12/1/2011	NC		%	20
		Dissolved Molybdenum (Mo)	12/1/2011	1.5		%	20
		Dissolved Nickel (Ni)	12/1/2011	13.2		%	20
		Dissolved Phosphorus (P)	12/1/2011	NC		%	20
		Dissolved Selenium (Se)	12/1/2011	NC		%	20
		Dissolved Silicon (Si)	12/1/2011	2.3		%	20
		Dissolved Silver (Ag)	12/1/2011	NC		%	20
		Dissolved Strontium (Sr)	12/1/2011	3.2		%	20
		Dissolved Tellurium (Te)	12/1/2011	NC		%	20
		Dissolved Thallium (Tl)	12/1/2011	NC		%	20
		Dissolved Thorium (Th)	12/1/2011	NC		%	20
		Dissolved Tin (Sn)	12/1/2011	3.4		%	20
		Dissolved Titanium (Ti)	12/1/2011	NC		%	20
		Dissolved Tungsten (W)	12/1/2011	NC		%	20
		Dissolved Uranium (U)	12/1/2011	NC		%	20
		Dissolved Vanadium (V)	12/1/2011	0.3		%	20
		Dissolved Zinc (Zn)	12/1/2011	NC		%	20
		Dissolved Zirconium (Zr)	12/1/2011	NC		%	20
5412956	Spiked Blank	Dissolved Sulphate (SO4)	12/1/2011		100	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	12/1/2011	<0.50		mg/L	
	RPD	Dissolved Sulphate (SO4)	12/1/2011	2		%	20
	RPD	Dissolved Sulphate (SO4)	12/1/2011	0.3		%	20
5419223	Matrix Spike	Dissolved Mercury (Hg)	12/5/2011		93	%	80 - 120
	Spiked Blank	Dissolved Mercury (Hg)	12/5/2011		111	%	80 - 120
	Method Blank	Dissolved Mercury (Hg)	12/5/2011	<0.020		ug/L	
	RPD	Dissolved Mercury (Hg)	12/5/2011	NC		%	20

Notes:

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

(2) Matrix Spike outside acceptance criteria (10% of analytes failure allowed).

(3) Matrix Spike exceeds acceptance limits due to matrix interference. Reanalysis yields similar result.

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Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 4a: Results of MEND-Shakeflask Extraction on 43 (of 354) Guyana Goldfields Inc. - Aurora Samples - December 2011

Serial No:			1		2	3	4	5	6	7	8	9	10		11	12	13	14	15	16	17	18	19	20		21		22	23
			Sample ID																										
Parameter	Units	Reportable Detection Limit	BUCKET 1 747643	BUCKET 1 747643 (Replicate)	BUCKET 2 112125	BUCKET 2 109375	BUCKET 2 109417	BUCKET 3 747753	BUCKET 3 77796	BUCKET 4 108756	BUCKET 5 111811	BUCKET 6 738740	BUCKET 8 89805	BUCKET 8 89805 (Duplicate)	BUCKET 10 170764	BUCKET 11 163315	BUCKET 11 816782	BUCKET 12 163033	BUCKET 12 164296	BUCKET 12 816215	BUCKET 12 164333	BUCKET 13 163044	BUCKET 14 29122	BUCKET 14 33887	BUCKET 14 33887 (Duplicate)	BUCKET 15 36541	BUCKET 15 36541 (Replicate)	BUCKET 16 37658	BUCKET 17 18498
Weight of dry sample used	g	0.01	250		250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250		250	250
Volume of DI water used	ml	0.01	750		750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750		750	750
Final pH (24h)	pH Units	0.5	9.8		5.9	9.6	9.6	9.3	9.7	9.8	9.4	9.6	9.5	9.5	9.4	9.7	9.2	9.7	9.5	9.6	9.5	9.7	9.6	6.9	6.9	9.3		7.6	9.6
Electric Conductivity (24h)	µS/cm	0.5	118		35	114	104	363	124	120	72	74	80	80	278	78	140	98	65	84	71	129	64	111	112	120		966	93
Dissolved Metals by ICP-MS																													
Dissolved Hardness (CaCO3)	mg/L	0.5	12.1		<0.5	17.1	21.3	65.7	15.5	15.7	20.1	20.6	16.2		50.3	13.5	34.8	12.6	18.9	14.4	15.6	13.6	20.1	33.9		34.6		422	23.7
Dissolved Aluminum (Al)	mg/L	0.0002	0.361	0.357	0.0005	0.283	0.169	0.166	0.271	0.208	0.210	0.109	0.196		0.210	0.357	0.139	0.318	0.101	0.213	0.174	0.590	0.266	0.0115		0.0714	0.0711	0.0259	0.132
Dissolved Antimony (Sb)	mg/L	0.00002	0.00247	0.00251	<0.00002	0.00026	0.00060	0.00111	0.00019	0.00016	0.00011	0.00035	0.00009		0.00043	0.00237	0.00008	0.00086	0.00037	0.00072	0.00175	0.00089	0.00053	<0.00002		0.00041	0.00041	0.00025	0.00070
Dissolved Arsenic (As)	mg/L	0.00002	0.00055	0.00050	0.00002	0.00061	0.00065	0.00045	0.00078	0.00108	0.00011	0.00036	0.00016		0.00017	0.113	0.00024	0.0342	0.00031	0.0405	0.0264	0.00155	0.00069	0.00010		0.00069	0.00065	0.00012	0.00035
Dissolved Barium (Ba)	mg/L	0.00002	0.00091	0.00092	0.00043	0.00423	0.00156	0.116	0.00023	0.0166	0.00060	0.00092	0.0221		0.150	0.00154	0.00399	0.00031	0.100	0.0242	0.00133	0.00047	0.00119	0.00041		0.0949	0.0941	0.00615	0.00186
Dissolved Beryllium (Be)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001
Dissolved Bismuth (Bi)	mg/L	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005
Dissolved Boron (B)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
Dissolved Cadmium (Cd)	mg/L	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000017	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		0.000019	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000005		<0.000005	0.000007	<0.000005	<0.000005
Dissolved Calcium (Ca)	mg/L	0.05	2.66		<0.05	4.63	4.98	17.9	3.48	3.96	6.26	5.66	5.19		6.30	4.56	9.29	3.35	5.56	4.45	5.10	3.64	5.47	5.48		10.8		160	6.80
Dissolved Cesium (Cs)	mg/L	0.00005	0.00013	0.00015	<0.00005	0.00009	0.00043	0.00024	<0.00005	<0.00005	0.00010	0.00013	0.00016		0.00017	0.00010	0.00017	<0.00005	0.00088	0.00015	0.00039	0.00033	0.00015	<0.00005		0.00012	0.00011	0.00017	0.00010
Dissolved Chromium (Cr)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Dissolved Cobalt (Co)	mg/L	0.000005	0.000008	0.000006	0.000008	<0.000005	<0.000005	0.000008	0.000006	<0.000005	<0.000005	<0.000005	<0.000005		0.000022	0.000017	<0.000005	0.000026	<0.000005	0.000021	0.000010	0.000005	0.000007	0.000069		0.000028	0.000027	0.000061	0.000016
Dissolved Copper (Cu)	mg/L	0.00005	0.00016	0.00014	0.00020	0.00028	0.00023	0.00024	0.00013	0.00028	0.00017	0.00020	0.00020		0.00039	0.00021	0.00017	0.00026	0.00017	0.00016	0.00027	0.00027	0.00037	0.00017		0.00073	0.00075	0.00132	0.00082
Dissolved Iron (Fe)	mg/L	0.001	0.005	0.005	<0.001	0.004	0.003	0.002	0.004	0.007	<0.001	0.001	0.001		0.002	0.006	0.002	0.006	0.002	0.006	0.003	0.007	0.001	0.010		0.003	0.002	0.001	0.001
Dissolved Lanthanum (La)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005
Dissolved Lead (Pb)	mg/L	0.000005	0.000027	0.000027	0.000039	0.000028	0.000017	0.000034	0.000035	0.000057	0.000038	0.000023	0.000031		0.000052	0.000067	0.000028	0.000062	0.000043	0.000050	0.000080	0.000121	0.000031	0.000088		0.000025	0.000027	0.000137	0.000027
Dissolved Lithium (Li)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007		<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Magnesium (Mg)	mg/L	0.05	1.33		<0.05	1.35	2.15	5.09	1.65	1.40	1.09	1.58	0.78		8.39	0.51	2.81	1.02	1.21	0.81	0.70	1.10	1.57	4.90		1.85		5.46	1.63
Dissolved Manganese (Mn)	mg/L	0.00005	0.00048	0.00046	0.00171	0.00119	0.00104	0.00256	0.00077	0.00068	0.00165	0.00111	0.00197		0.00227	0.00048	0.00345	0.00082	0.00076	0.00048	0.00028	0.00122	0.00078	0.0325		0.00334	0.00322	0.00427	0.00039
Dissolved Mercury (Hg)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001
Dissolved Molybdenum (Mo)	mg/L	0.00005	0.00403	0.00424	0.00009	0.00559	0.00236	0.00042	0.00110	0.00208	0.00032	0.00088	0.00018		0.00197	0.00345	0.00269	0.00362	0.00022	0.00045	0.00208	0.00532	0.00105	0.00013		0.00054	0.00056	0.00041	0.00102
Dissolved Nickel (Ni)	mg/L	0.00002	0.00011	0.00009	0.00013	0.00016	0.00008	0.00017	0.00008	0.00011	0.00011	0.00008	0.00006		0.0114	0.00022	0.00016	0.00025	0.00012	0.00013	0.00031	0.00022	0.00021	0.00055		0.00021	0.00020	0.00047	0.00014
Dissolved Phosphorus (P)	mg/L	0.002	0.053	0.054	0.034	0.057	0.049	0.054	0.052	0.050	0.050	0.049	0.037		0.042	0.049	0.043	0.058	0.053	0.057	0.059	0.064	0.046	0.037		0.065	0.060	0.055	0.046
Dissolved Potassium (K)	mg/L	0.05	2.03		<0.05	6.27	7.50	6.90	0.14	3.88	<0.05	3.71	3.47		17.5	2.96	5.85	0.18	0.43	0.17	3.19	7.11	2.57	0.42		0.68		1.29	2.10
Dissolved Rubidium (Rb)	mg/L	0.00005	0.00117	0.00126	<0.00005	0.00503	0.00683	0.00548	0.00008	0.00225	0.00012	0.00289	0.00294		0.0170	0.00245	0.00556	0.00009	0.00179	0.00031	0.00324	0.00562	0.00225	<0.00005		0.00062	0.00060	0.00108	0.00118
Dissolved Selenium (Se)	mg/L	0.00004	0.00020	0.00019	<0.00004	0.00077	0.00010	0.00021	0.00058	0.00022	0.00020	0.00013	0.00016		0.00052	0.00038	0.00165	0.00032	0.00013	0.00055	0.00038	0.00021	0.00093	0.0197		0.00072	0.00075	0.00170	0.00030
Dissolved Silicon (Si)	mg/L	0.1	1.1	1.2	1.1	1.0	0.8	0.7	0.7	1.4	0.5	0.5	0.6		0.8	1.0	0.5	1.2	0.6	1.3	0.6	1.1	0.5	1.4		0.3	0.4	0.1	0.4
Dissolved Silver (Ag)	mg/L	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005
Dissolved Sodium (Na)	mg/L	0.05	16.6		4.67	10.1	5.79	28.7	17.6	12.3	4.21	1.50	4.27		15.1	6.29	5.33	12.5	2.54	8.54	3.75	15.9	1.05	3.33		2.83		5.95	4.02
Dissolved Strontium (Sr)	mg/L	0.00005	0.0109	0.0111	0.00026	0.0399	0.132	7.75	0.0216	0.816	0.0349	0.0235	0.0798		3.37	0.0966	0.228	0.00652	0.150	0.146	0.0911	0.0269	0.0221	0.0288		2.35	2.36	1.68	0.0663
Dissolved Sulphur (S)	mg/L	10	<10		<10	<10	<10	43	<10	<10	<10	<10	<10		30	<10	11	<10	<10	<10	<10	<10	<10	13		12		155	<10
Dissolved Tellurium (Te)	mg/L	0.00002	<0.00002	<0.00002	0.00004	<0.00002	<0.00002	<0.00002	<0.00002	0.00125	<0.00002	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002
Dissolved Thallium (Tl)	mg/L	0.000002	<0.000002	<0.000002	0.000002	0.000004	0.000004	0.000003	<0.000002	<0.000002	<0.000002	0.000003	<0.000002		0.000009	0.000002	0.000003	<0.000002	0.000008	0.000003	0.000006	0.000004	0.000007	<0.000002		<0.000002	<0.000002	0.000002	0.000002
Dissolved Thorium (Th)	mg/L	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005
Dissolved Tin (Sn)	mg/L	0.00001	0.00002	0.00002	0.00001	0.00003	0.00003	0.00002	0.00002	0.00017	0.00003	0.00005	0.00003		0.00002	0.00004	0.00002	0.00005	0.00010	0.00003	0.00004	0.00004	0.00003	0.00002		0.00007 (1)	0.00005	0.00004	0.00003
Dissolved Titanium (Ti)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0015	<0.0005	0.0026		<0.0005	<0.0005	<0.0005	<0.0005
Dissolved Tungsten (W)	mg/L	0.00001	0.00012	0.00013	<0.00001	0.00026	0.00015	0.00021	0.00019	0.00005	0.00005	0.00008	0.00001		0.00002	0.00007	0.00006	0.00008	0.00005	0.00026	0.00003	0.00003	0.00003	<0.00001		0.00028	0.00028	0.00002	0.00103
Dissolved Uranium (U)	mg/L	0.000002	0.000006	0.000005	<0.000002	0.000005	<0.000002	0.000050	<0.000002	0.000024	<0.000002	<0.000002	<0.000002		0.000067	0.000007	<0.000002	0.000015	<0.000002	<0.000002	<0.000002	0.000007	<0.000002	<0.000002		0.000004	0.000004	0.000006	0.000004
Dissolved Vanadium (V)	mg/L	0.0002	0.0044	0.0043	<0.0002	0.0017	0.0017	0.0014	0.0027	0.0019	0.0024	0.0009	0.0044		0.0010	0.0038	0.0009	0.0034	0.0061	0.0113	0.0042	0.0022	0.0018	0.0006		0.0007	0.0006	<0.0002	0.0007
Dissolved Zinc (Zn)	mg/L	0.0001	0.0003	0.0002	0.0009	0.0006	0.0002	0.0006	0.0002	0.0007	0.0004	0.0002	0.0004		0.0004	0.0005	0.0006	0.0008	0.0005	0.0004	0.0004	0.0005	0.0003	0.0010		0.0003	0.0004	0.0007	0.0003
Dissolved Zirconium (Zr)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	0.0007	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Dissolved Mercury (Hg)	ug/L	0.020																											
Maxxam ID			CG0607	CG0607	CG0608	CG0609	CG0610	CG0611	CG0612	CG0613	CG0614	CG0615	CG0616		CG0617	CG0618	CG0619	CG0620	CG0621	CG0622	CG0623	CG0624	CG0625	CG0626		CG0627	CG0627	CG0628	CG0629
Sampling Date			11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011		11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011		11/29/2011	11/29/2011	11/29/2011	11/29/2011
COC Number			8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539		8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539		8342539	8342539	8342539	8342539
Maxxam Job No:																												B1B5794	

Method References:

Prediction Manual for Drainage Chemistry from Sulphidic Geologic Material, MEND Report 1.20.1; Version 0 - Dec. 2009. Section 11.5; Pages 11-8 to 11-9.

Extraction Method:

By Gyratory Shaker for 24h (gentle orbital agitation)

Liquid:Solid ratio used: 3:1; L:S; 750ml DI water: 250g of as-received sample (<2mm).

Notes:

(1) Duplicate RPD above control limit - (10% of analytes failure allowed).

For SFE done 28/29-Nov-11

28th: pH: 5.76; EC: 0.99

29-Nov-11: pH: 5.71; EC: 1.1

Maxxam Analytics 4606 Canada Way, Burnaby, BC

Klohn Crippen, Guyana Goldfields Inc. - Aurora, R

Table 4a: Results of MEND-Shakeflask Extracti

Serial No:			24	25	26	27	28	29	30		31	32	33	34	35	36	37	38	39	40		41	42	43	Method Blank
Parameter	Units	Reportable Detection Limit	BUCKET 17 18741	BUCKET 18 13944	BUCKET 18 58840	BUCKET 18 20822	BUCKET 19 23390	BUCKET 19 747028	BUCKET 20 37873	BUCKET 20 37873 (Duplicate)	BUCKET 20 13463	BUCKET 20 3884	BUCKET 20 3803	BUCKET 21 7510	BUCKET 21 19965	BUCKET 21 36808	BUCKET 22 14234	BUCKET 22 18631	BUCKET 22 18190	BUCKET 22 18211	BUCKET 22 18211 (Duplicate)	BUCKET 23 75849	BUCKET 23 110234	BUCKET 23 109604	
Weight of dry sample used	g	0.01	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
Volume of DI water used	ml	0.01	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
Final pH (24h)	pH Units	0.5	9.7	9.5	9.7	9.3	9.7	9.6	9.5	9.5	9.1	9.8	9.6	5.0	9.7	10.1	8.8	9.6	5.1	9.5	9.5	9.7	9.5	9.4	5.8
Electric Conductivity (24h)	µS/cm	0.5	76	122	115	137	82	217	123	122	174	77	99	20	81	321	396	117	44	84	83	100	80	65	3
Dissolved Metals by ICP-MS																									
Dissolved Hardness (CaCO3)	mg/L	0.5	18.8	30.4	17.5	35.0	17.4	24.6	25.9		57.7	14.8	24.0	2.4	16.7	3.1	159	23.1	5.3	17.7		13.0	19.5	17.2	
Dissolved Aluminum (Al)	mg/L	0.0002	0.225	0.158	0.0791	0.0889	0.135	0.196	0.182		0.0561	0.348	0.197	0.0080	0.244	0.426	0.0400	0.134	0.0160	0.117		0.311	0.177	0.142	
Dissolved Antimony (Sb)	mg/L	0.00002	0.00013	0.00073	0.00005	0.00032	0.00040	0.00398	0.00129		0.00036	0.00041	0.00045	<0.00002	0.00289	0.00222	0.00030	0.00041	0.00003	0.00022		0.00098	0.00014	0.00027	
Dissolved Arsenic (As)	mg/L	0.00002	0.00108	0.118	0.00061	0.00017	0.00033	0.00995	0.00125		0.00019	0.00220	0.00030	0.00004	0.0372	0.00863	0.00105	0.00055	0.00017	0.0225		0.00292	0.00018	0.00029	
Dissolved Barium (Ba)	mg/L	0.00002	0.00494	0.00160	0.00145	0.0192	0.255	0.00182	0.0483		0.162	0.00092	0.00931	0.00291	0.00074	0.0361	0.00957	0.00748	0.0206	0.00065		0.00044	0.00153	0.00363	
Dissolved Beryllium (Be)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	0.00001	<0.00001		<0.00001	<0.00001	<0.00001	
Dissolved Bismuth (Bi)	mg/L	0.000005	<0.000005	<0.000005	0.000008	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	
Dissolved Boron (B)	mg/L	0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	
Dissolved Cadmium (Cd)	mg/L	0.000005	0.000008	<0.000005	<0.000005	<0.000005	0.000021	<0.000005	0.000007		0.000006	<0.000005	<0.000005	0.000010	<0.000005	<0.000005	0.000014	<0.000005	0.000192	0.000019		<0.000005	<0.000005	<0.000005	
Dissolved Calcium (Ca)	mg/L	0.05	5.52	9.08	4.55	7.51	4.93	5.14	6.15		15.1	3.95	5.55	0.58	4.16	0.88	41.6	4.42	1.20	4.68		2.93	4.68	4.44	
Dissolved Cesium (Cs)	mg/L	0.00005	0.00013	0.00011	<0.00005	0.00012	0.00014	0.00009	0.00027		0.00015	0.00012	0.00013	<0.00005	0.00009	0.00155	0.00019	0.00015	0.00028	<0.00005		0.00016	<0.00005	0.00020	
Dissolved Chromium (Cr)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0020	<0.0001	<0.0001	<0.0001	0.0002		<0.0001	<0.0001	<0.0001	
Dissolved Cobalt (Co)	mg/L	0.000005	0.000040	0.000513	0.000176	0.000013	0.000021	0.000013	0.000011		0.000259	0.000028	0.000046	0.000235	0.000058	0.000223	0.000021	0.000013	0.0131	0.000231		<0.000005	<0.000005	<0.000005	
Dissolved Copper (Cu)	mg/L	0.00005	0.00132	0.00184	0.00430	0.00041	0.00054	0.00027	0.00034		0.00470	0.00076	0.00275	0.00147	0.00026	0.00664	0.00027	0.00029	0.0290	0.00120		0.00013	0.00013	0.00014	
Dissolved Iron (Fe)	mg/L	0.001	0.007	0.003	0.003	0.001	0.001	0.005	0.004		0.002	0.002	0.003	0.006	0.002	0.223	0.002	0.004	0.149	0.100		0.007	0.003	0.003	
Dissolved Lanthanum (La)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	
Dissolved Lead (Pb)	mg/L	0.000005	0.000062	0.000039	0.000606	0.000081	0.000043	0.000036	0.000034		0.000025	0.000047	0.000036	0.000104	0.000021	0.000115	0.000034	0.000027	0.000394	0.000102		0.000099	0.000070	0.000021	
Dissolved Lithium (Li)	mg/L	0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	0.0018	0.0005		0.0011	<0.0005	0.0010	0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
Dissolved Magnesium (Mg)	mg/L	0.05	1.21	1.89	1.50	3.94	1.24	2.86	2.56		4.87	1.20	2.47	0.23	1.54	0.21	13.5	2.94	0.55	1.45		1.37	1.90	1.49	
Dissolved Manganese (Mn)	mg/L	0.00005	0.00090	0.00089	0.00051	0.00106	0.00095	0.00041	0.00045		0.00161	0.00035	0.00098	0.0160	0.00039	0.00373	0.00270	0.00047	0.169	0.00200		0.00047	0.00227	0.00039	
Dissolved Mercury (Hg)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			<0.00001	<0.00001	<0.00001	
Dissolved Molybdenum (Mo)	mg/L	0.00005	0.00109	0.00465	0.00158	0.00527	0.00341	0.00944	0.0450		0.00313	0.00675	0.00556	0.00011	0.00533	0.00854	0.00333	0.0121	0.00019	0.00152		0.00097	0.00033	0.00024	
Dissolved Nickel (Ni)	mg/L	0.00002	0.00019	0.00029	0.00023	0.00026	0.0127	0.00022	0.00028		0.00044	0.00022	0.00021	0.00106	0.00018	0.00093	0.00057	0.00034	0.00718	0.0125		0.00012	0.00021	0.00079	
Dissolved Phosphorus (P)	mg/L	0.002	0.039	0.058	0.037	0.042	0.048	0.044	0.054		0.044	0.048	0.050	0.030	0.056	0.055	0.039	0.052	0.062	0.129		0.033	0.069	0.068	
Dissolved Potassium (K)	mg/L	0.05	1.21	2.18	1.37	4.64	2.99	3.71	6.55		1.46	0.91	4.25	0.15	0.96	0.98	1.87	7.08	0.69	0.81		4.25	0.28	4.38	
Dissolved Rubidium (Rb)	mg/L	0.00005	0.00087	0.00146	0.00085	0.00375	0.00246	0.00277	0.00629		0.00187	0.00080	0.00372	0.00051	0.00059	0.00231	0.00085	0.00551	0.00265	0.00039		0.00331	0.00021	0.00394	
Dissolved Selenium (Se)	mg/L	0.00004	0.00027	0.00045	0.00349	0.00019	0.00054	0.00064	0.00100		0.00017	0.00037	0.00029	<0.00004	0.00017	0.00896	0.00197	0.00035	0.00031	0.00360		0.00028	0.00052	0.00213	
Dissolved Silicon (Si)	mg/L	0.1	0.8	0.6	0.3	0.4	0.4	1.0	0.8		0.3	0.8	0.7	0.9	0.6	1.3	0.3	0.6	0.4	2.4		0.8	0.5	0.4	
Dissolved Silver (Ag)	mg/L	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000011	<0.000005		<0.000005	<0.000005	<0.000005	
Dissolved Sodium (Na)	mg/L	0.05	3.72	5.13	11.4	5.06	3.73	27.6	5.06		1.29	6.11	3.44	0.82	6.08	60.1	4.39	5.98	2.85	7.29		11.0	7.52	1.34	
Dissolved Strontium (Sr)	mg/L	0.00005	0.134	0.310	0.00701	0.500	0.274	0.0463	1.22		3.17	0.0255	0.612	0.00619	0.231	0.0738	0.187	0.364	0.0135	0.0128		0.0144	0.0106	0.0272	
Dissolved Sulphur (S)	mg/L	10	<10	<10	<10	<10	14	<10	18	10	19	<10	<10	<10	<10	11	60	<10	<10	<10		<10	<10	<10	
Dissolved Tellurium (Te)	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00011	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002		0.00002	<0.00002	<0.00002	
Dissolved Thallium (Tl)	mg/L	0.000002	0.000004	0.000003	0.000005	<0.000002	<0.000002	0.000003	0.000009		0.000004	0.000003	0.000003	0.000003	0.000002	0.000013	0.000005	0.000005	0.000011	<0.000002		0.000003	<0.000002	0.000005	
Dissolved Thorium (Th)	mg/L	0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000009		<0.000005	<0.000005	<0.000005	
Dissolved Tin (Sn)	mg/L	0.00001	0.00005	0.00010	0.00007	0.00004	0.00003	0.00002	0.00007		0.00004	0.00005	0.00006	0.00002	0.00003	0.00007	0.00003	0.00006	0.00005	0.00009		0.00003	0.00011	0.00007	
Dissolved Titanium (Ti)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0034	<0.0005	<0.0005	<0.0005	0.0022		<0.0005	<0.0005	<0.0005	
Dissolved Tungsten (W)	mg/L	0.00001	0.00005	0.00003	0.00006	0.00005	0.00194	0.00050	0.00026		0.00008	0.00019	0.00005	<0.00001	0.00014	0.00225	0.00007	0.00033	0.00002	0.00051		0.00014	0.00008	0.00006	
Dissolved Uranium (U)	mg/L	0.000002	0.000021	0.000017	<0.000002	<0.000002	<0.000002	0.000006	0.000014		0.000003	<0.000002	<0.000002	<0.000002	0.000005	0.000197	0.000026	0.000002	0.000002	0.000036		0.000005	<0.000002	<0.000002	
Dissolved Vanadium (V)	mg/L	0.0002	0.0007	0.0008	0.0011	0.0003	0.0006	0.0026	0.0012		<0.0002	0.0030	0.0009	<0.0002	0.0015	0.101	<0.0002	0.0009	<0.0002	0.0013		0.0037	0.0016	0.0010	
Dissolved Zinc (Zn)	mg/L	0.0001	0.0006	0.0007	0.0004	0.0003	0.0006	0.0002	0.0006		0.0004	0.0003	0.0003	0.0137	0.0003	0.0008	0.0004	0.0003	0.0267	0.0007		0.0002	0.0003	0.0004	
Dissolved Zirconium (Zr)	mg/L	0.0001	0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.0008		0.0003	<0.0001	<0.0001	
Dissolved Mercury (Hg)	ug/L	0.020																		<0.020					
Maxxam ID			CG0630	CG0631	CG0632	CG0633	CG0634	CG0635	CG0636		CG0637	CG0638	CG0639	CG0640	CG0641	CG0642	CG0643	CG0644	CG0645	CG0646		CG0647	CG0648	CG0649	
Sampling Date			11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011		11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011	11/29/2011		11/29/2011	11/29/2011	11/29/2011	
COC Number			8342539	8342539	8342539	8342539	8342539	8342539	8342539		8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539	8342539		8342539	8342539	8342539	
Maxxam Job No:																									

Method References:

Prediction Manual for Drainage Chemistry from Sulphidic Geologic

Extraction Method:

By Gyratory Shaker for 24h (gentle orbital agitation)

Liquid:Solid ratio used: 3:1; L:S; 750ml DI water: 250g of as-receive

Notes:

(1) Duplicate RPD above control limit - (10% of analytes failure all

For SFE done 28/29-Nov-11

28th: pH: 5.76; EC: 0.99

29-Nov-11: pH: 5.71; EC: 1.1

Maxxam Analytics 4606 Canada Way, Burnaby, BC Canada V5G 1K5 Tel: 604 734 7276 Fax: 604 731 2386 www.maxxam.ca

Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 4b: Quality Assurance Report on MEND-SFE Results (Maxxam Job No: VB1B5794) on 43 (of 354) Guyana Goldfields Inc. - Aurora Samples - December 2011

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5403665	Matrix Spike	Dissolved Antimony (Sb)	12/1/2011		110	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		104	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		109	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		102	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		83	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		100	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		109	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		98	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		99	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		97	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		101	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		107	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		104	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		104	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		100	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		99	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		100	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		98	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		109	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		110	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		101	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		104	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		103	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		104	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		103	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		103	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		98	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		107	%	80 - 120
	Spiked Blank	Dissolved Antimony (Sb)	12/1/2011		104	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		95	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		105	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		94	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		100	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		96	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		113	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		94	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		94	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		96	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		97	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		101	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		101	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		100	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		95	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		95	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		101	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		95	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		100	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		106	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		99	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		97	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		98	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		108	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		92	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		101	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		92	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		94	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	12/1/2011	<0.0002		mg/L	
		Dissolved Antimony (Sb)	12/1/2011	<0.00002		mg/L	
		Dissolved Arsenic (As)	12/1/2011	<0.00002		mg/L	
		Dissolved Barium (Ba)	12/1/2011	<0.00002		mg/L	
		Dissolved Beryllium (Be)	12/1/2011	<0.00001		mg/L	
		Dissolved Bismuth (Bi)	12/1/2011	<0.000005		mg/L	
		Dissolved Boron (B)	12/1/2011	<0.05		mg/L	
		Dissolved Cadmium (Cd)	12/1/2011	<0.000005		mg/L	
		Dissolved Cesium (Cs)	12/1/2011	<0.00005		mg/L	
		Dissolved Chromium (Cr)	12/1/2011	<0.0001		mg/L	
		Dissolved Cobalt (Co)	12/1/2011	<0.000005		mg/L	
		Dissolved Copper (Cu)	12/1/2011	<0.00005		mg/L	
		Dissolved Iron (Fe)	12/1/2011	<0.001		mg/L	
		Dissolved Lanthanum (La)	12/1/2011	<0.00005		mg/L	
		Dissolved Lead (Pb)	12/1/2011	<0.000005		mg/L	
		Dissolved Lithium (Li)	12/1/2011	<0.0005		mg/L	
		Dissolved Manganese (Mn)	12/1/2011	<0.00005		mg/L	
		Dissolved Mercury (Hg)	12/1/2011	<0.00001		mg/L	
		Dissolved Molybdenum (Mo)	12/1/2011	<0.00005		mg/L	

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Nickel (Ni)	12/1/2011	<0.00002		mg/L	
		Dissolved Phosphorus (P)	12/1/2011	<0.002		mg/L	
		Dissolved Rubidium (Rb)	12/1/2011	<0.00005		mg/L	
		Dissolved Selenium (Se)	12/1/2011	<0.00004		mg/L	
		Dissolved Silicon (Si)	12/1/2011	<0.1		mg/L	
		Dissolved Silver (Ag)	12/1/2011	<0.000005		mg/L	
		Dissolved Strontium (Sr)	12/1/2011	<0.00005		mg/L	
		Dissolved Tellurium (Te)	12/1/2011	<0.00002		mg/L	
		Dissolved Thallium (Tl)	12/1/2011	<0.000002		mg/L	
		Dissolved Thorium (Th)	12/1/2011	<0.000005		mg/L	
		Dissolved Tin (Sn)	12/1/2011	<0.00001		mg/L	
		Dissolved Titanium (Ti)	12/1/2011	<0.0005		mg/L	
		Dissolved Tungsten (W)	12/1/2011	<0.00001		mg/L	
		Dissolved Uranium (U)	12/1/2011	<0.000002		mg/L	
		Dissolved Vanadium (V)	12/1/2011	<0.0002		mg/L	
		Dissolved Zinc (Zn)	12/1/2011	<0.0001		mg/L	
		Dissolved Zirconium (Zr)	12/1/2011	<0.0001		mg/L	
	RPD	Dissolved Aluminum (Al)	12/1/2011	1.9		%	20
		Dissolved Antimony (Sb)	12/1/2011	NC		%	20
		Dissolved Arsenic (As)	12/1/2011	NC		%	20
		Dissolved Barium (Ba)	12/1/2011	NC		%	20
		Dissolved Beryllium (Be)	12/1/2011	NC		%	20
		Dissolved Bismuth (Bi)	12/1/2011	NC		%	20
		Dissolved Boron (B)	12/1/2011	NC		%	20
		Dissolved Cadmium (Cd)	12/1/2011	NC		%	20
		Dissolved Chromium (Cr)	12/1/2011	NC		%	20
		Dissolved Cobalt (Co)	12/1/2011	NC		%	20
		Dissolved Copper (Cu)	12/1/2011	NC		%	20
		Dissolved Iron (Fe)	12/1/2011	NC		%	20
		Dissolved Lead (Pb)	12/1/2011	NC		%	20
		Dissolved Lithium (Li)	12/1/2011	NC		%	20
		Dissolved Manganese (Mn)	12/1/2011	NC		%	20
		Dissolved Molybdenum (Mo)	12/1/2011	NC		%	20
		Dissolved Nickel (Ni)	12/1/2011	NC		%	20
		Dissolved Phosphorus (P)	12/1/2011	NC		%	20
		Dissolved Selenium (Se)	12/1/2011	NC		%	20
		Dissolved Silicon (Si)	12/1/2011	NC		%	20
		Dissolved Silver (Ag)	12/1/2011	NC		%	20
		Dissolved Strontium (Sr)	12/1/2011	NC		%	20
		Dissolved Thallium (Tl)	12/1/2011	NC		%	20
		Dissolved Tin (Sn)	12/1/2011	4.9		%	20
		Dissolved Titanium (Ti)	12/1/2011	NC		%	20
		Dissolved Uranium (U)	12/1/2011	NC		%	20
		Dissolved Vanadium (V)	12/1/2011	NC		%	20
		Dissolved Zinc (Zn)	12/1/2011	NC		%	20
		Dissolved Zirconium (Zr)	12/1/2011	NC		%	20
5406741	Matrix Spike	Dissolved Antimony (Sb)	11/30/2011		NC	%	80 - 120
		Dissolved Arsenic (As)	11/30/2011		99	%	80 - 120
		Dissolved Barium (Ba)	11/30/2011		99	%	80 - 120
		Dissolved Beryllium (Be)	11/30/2011		102	%	80 - 120
		Dissolved Bismuth (Bi)	11/30/2011		96	%	80 - 120
		Dissolved Cadmium (Cd)	11/30/2011		101	%	80 - 120
		Dissolved Cesium (Cs)	11/30/2011		101	%	80 - 120
		Dissolved Chromium (Cr)	11/30/2011		95	%	80 - 120
		Dissolved Cobalt (Co)	11/30/2011		96	%	80 - 120
		Dissolved Copper (Cu)	11/30/2011		97	%	80 - 120
		Dissolved Iron (Fe)	11/30/2011		88	%	80 - 120
		Dissolved Lanthanum (La)	11/30/2011		102	%	80 - 120
		Dissolved Lead (Pb)	11/30/2011		101	%	80 - 120
		Dissolved Lithium (Li)	11/30/2011		100	%	80 - 120
		Dissolved Manganese (Mn)	11/30/2011		95	%	80 - 120
		Dissolved Mercury (Hg)	11/30/2011		101	%	80 - 120
		Dissolved Molybdenum (Mo)	11/30/2011		NC	%	80 - 120
		Dissolved Nickel (Ni)	11/30/2011		96	%	80 - 120
		Dissolved Selenium (Se)	11/30/2011		103	%	80 - 120
		Dissolved Silver (Ag)	11/30/2011		103	%	80 - 120
		Dissolved Strontium (Sr)	11/30/2011		NC	%	80 - 120
		Dissolved Tellurium (Te)	11/30/2011		105	%	80 - 120
		Dissolved Thallium (Tl)	11/30/2011		100	%	80 - 120
		Dissolved Tin (Sn)	11/30/2011		100	%	80 - 120
		Dissolved Titanium (Ti)	11/30/2011		101	%	80 - 120
		Dissolved Uranium (U)	11/30/2011		103	%	80 - 120
		Dissolved Vanadium (V)	11/30/2011		93	%	80 - 120
		Dissolved Zinc (Zn)	11/30/2011		106	%	80 - 120
	Spiked Blank	Dissolved Antimony (Sb)	11/30/2011		109	%	80 - 120
		Dissolved Arsenic (As)	11/30/2011		100	%	80 - 120
		Dissolved Barium (Ba)	11/30/2011		107	%	80 - 120
		Dissolved Beryllium (Be)	11/30/2011		106	%	80 - 120
		Dissolved Bismuth (Bi)	11/30/2011		101	%	80 - 120
		Dissolved Cadmium (Cd)	11/30/2011		104	%	80 - 120
		Dissolved Cesium (Cs)	11/30/2011		106	%	80 - 120
		Dissolved Chromium (Cr)	11/30/2011		97	%	80 - 120
		Dissolved Cobalt (Co)	11/30/2011		100	%	80 - 120
		Dissolved Copper (Cu)	11/30/2011		106	%	80 - 120
		Dissolved Iron (Fe)	11/30/2011		100	%	80 - 120
		Dissolved Lanthanum (La)	11/30/2011		104	%	80 - 120
		Dissolved Lead (Pb)	11/30/2011		107	%	80 - 120

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Lithium (Li)	11/30/2011		105	%	80 - 120
		Dissolved Manganese (Mn)	11/30/2011		98	%	80 - 120
		Dissolved Mercury (Hg)	11/30/2011		98	%	80 - 120
		Dissolved Molybdenum (Mo)	11/30/2011		106	%	80 - 120
		Dissolved Nickel (Ni)	11/30/2011		100	%	80 - 120
		Dissolved Selenium (Se)	11/30/2011		106	%	80 - 120
		Dissolved Silver (Ag)	11/30/2011		113	%	80 - 120
		Dissolved Strontium (Sr)	11/30/2011		107	%	80 - 120
		Dissolved Tellurium (Te)	11/30/2011		108	%	80 - 120
		Dissolved Thallium (Tl)	11/30/2011		105	%	80 - 120
		Dissolved Tin (Sn)	11/30/2011		110	%	80 - 120
		Dissolved Titanium (Ti)	11/30/2011		101	%	80 - 120
		Dissolved Uranium (U)	11/30/2011		108	%	80 - 120
		Dissolved Vanadium (V)	11/30/2011		98	%	80 - 120
		Dissolved Zinc (Zn)	11/30/2011		102	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	11/30/2011	<0.0002		mg/L	
		Dissolved Antimony (Sb)	11/30/2011	<0.00002		mg/L	
		Dissolved Arsenic (As)	11/30/2011	<0.00002		mg/L	
		Dissolved Barium (Ba)	11/30/2011	<0.00002		mg/L	
		Dissolved Beryllium (Be)	11/30/2011	<0.00001		mg/L	
		Dissolved Bismuth (Bi)	11/30/2011	<0.000005		mg/L	
		Dissolved Boron (B)	11/30/2011	<0.05		mg/L	
		Dissolved Cadmium (Cd)	11/30/2011	<0.000005		mg/L	
		Dissolved Cesium (Cs)	11/30/2011	<0.00005		mg/L	
		Dissolved Chromium (Cr)	11/30/2011	<0.0001		mg/L	
		Dissolved Cobalt (Co)	11/30/2011	<0.000005		mg/L	
		Dissolved Copper (Cu)	11/30/2011	<0.00005		mg/L	
		Dissolved Iron (Fe)	11/30/2011	<0.001		mg/L	
		Dissolved Lanthanum (La)	11/30/2011	<0.00005		mg/L	
		Dissolved Lead (Pb)	11/30/2011	0.000006	RDL=0.000005	mg/L	
		Dissolved Lithium (Li)	11/30/2011	<0.0005		mg/L	
		Dissolved Manganese (Mn)	11/30/2011	<0.00005		mg/L	
		Dissolved Mercury (Hg)	11/30/2011	<0.00001		mg/L	
		Dissolved Molybdenum (Mo)	11/30/2011	<0.00005		mg/L	
		Dissolved Nickel (Ni)	11/30/2011	<0.00002		mg/L	
		Dissolved Phosphorus (P)	11/30/2011	<0.002		mg/L	
		Dissolved Rubidium (Rb)	11/30/2011	<0.00005		mg/L	
		Dissolved Selenium (Se)	11/30/2011	<0.00004		mg/L	
		Dissolved Silicon (Si)	11/30/2011	<0.1		mg/L	
		Dissolved Silver (Ag)	11/30/2011	<0.000005		mg/L	
		Dissolved Strontium (Sr)	11/30/2011	<0.00005		mg/L	
		Dissolved Tellurium (Te)	11/30/2011	<0.00002		mg/L	
		Dissolved Thallium (Tl)	11/30/2011	<0.000002		mg/L	
		Dissolved Thorium (Th)	11/30/2011	<0.000005		mg/L	
		Dissolved Tin (Sn)	11/30/2011	<0.00001		mg/L	
		Dissolved Titanium (Ti)	11/30/2011	<0.0005		mg/L	
		Dissolved Tungsten (W)	11/30/2011	<0.00001		mg/L	
		Dissolved Uranium (U)	11/30/2011	<0.000002		mg/L	
		Dissolved Vanadium (V)	11/30/2011	<0.0002		mg/L	
		Dissolved Zinc (Zn)	11/30/2011	<0.0001		mg/L	
		Dissolved Zirconium (Zr)	11/30/2011	<0.0001		mg/L	
	RPD	Dissolved Aluminum (Al)	11/30/2011	1.1		%	20
		Dissolved Antimony (Sb)	11/30/2011	1.5		%	20
		Dissolved Arsenic (As)	11/30/2011	8.2		%	20
		Dissolved Barium (Ba)	11/30/2011	0.8		%	20
		Dissolved Beryllium (Be)	11/30/2011	NC		%	20
		Dissolved Bismuth (Bi)	11/30/2011	NC		%	20
		Dissolved Boron (B)	11/30/2011	NC		%	20
		Dissolved Cadmium (Cd)	11/30/2011	NC		%	20
		Dissolved Cesium (Cs)	11/30/2011	NC		%	20
		Dissolved Chromium (Cr)	11/30/2011	NC		%	20
		Dissolved Cobalt (Co)	11/30/2011	NC		%	20
		Dissolved Copper (Cu)	11/30/2011	NC		%	20
		Dissolved Iron (Fe)	11/30/2011	1		%	20
		Dissolved Lanthanum (La)	11/30/2011	NC		%	20
		Dissolved Lead (Pb)	11/30/2011	0.5		%	20
		Dissolved Lithium (Li)	11/30/2011	NC		%	20
		Dissolved Manganese (Mn)	11/30/2011	2.7		%	20
		Dissolved Mercury (Hg)	11/30/2011	NC		%	20
		Dissolved Molybdenum (Mo)	11/30/2011	4.9		%	20
		Dissolved Nickel (Ni)	11/30/2011	NC		%	20
		Dissolved Phosphorus (P)	11/30/2011	2.1		%	20
		Dissolved Rubidium (Rb)	11/30/2011	7.8		%	20
		Dissolved Selenium (Se)	11/30/2011	NC		%	20
		Dissolved Silicon (Si)	11/30/2011	4		%	20
		Dissolved Silver (Ag)	11/30/2011	NC		%	20
		Dissolved Strontium (Sr)	11/30/2011	2.5		%	20
		Dissolved Tellurium (Te)	11/30/2011	NC		%	20
		Dissolved Thallium (Tl)	11/30/2011	NC		%	20
		Dissolved Thorium (Th)	11/30/2011	NC		%	20
		Dissolved Tin (Sn)	11/30/2011	NC		%	20
		Dissolved Titanium (Ti)	11/30/2011	NC		%	20
		Dissolved Tungsten (W)	11/30/2011	9.2		%	20
		Dissolved Uranium (U)	11/30/2011	NC		%	20
		Dissolved Vanadium (V)	11/30/2011	3		%	20
		Dissolved Zinc (Zn)	11/30/2011	NC		%	20
		Dissolved Zirconium (Zr)	11/30/2011	NC		%	20

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5406794	Matrix Spike	Dissolved Antimony (Sb)	12/1/2011		99	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		107	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		NC	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		103	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		96	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		99	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		98	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		98	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		100	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		102	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		102	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		102	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		100	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		97	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		102	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		104	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		NC	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		100	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		116	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		103	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		NC	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		111	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		98	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		96	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		92	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		104	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		99	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		109	%	80 - 120
	Spiked Blank	Dissolved Antimony (Sb)	12/1/2011		105	%	80 - 120
		Dissolved Arsenic (As)	12/1/2011		98	%	80 - 120
		Dissolved Barium (Ba)	12/1/2011		104	%	80 - 120
		Dissolved Beryllium (Be)	12/1/2011		104	%	80 - 120
		Dissolved Bismuth (Bi)	12/1/2011		100	%	80 - 120
		Dissolved Cadmium (Cd)	12/1/2011		99	%	80 - 120
		Dissolved Cesium (Cs)	12/1/2011		103	%	80 - 120
		Dissolved Chromium (Cr)	12/1/2011		95	%	80 - 120
		Dissolved Cobalt (Co)	12/1/2011		97	%	80 - 120
		Dissolved Copper (Cu)	12/1/2011		97	%	80 - 120
		Dissolved Iron (Fe)	12/1/2011		98	%	80 - 120
		Dissolved Lanthanum (La)	12/1/2011		100	%	80 - 120
		Dissolved Lead (Pb)	12/1/2011		105	%	80 - 120
		Dissolved Lithium (Li)	12/1/2011		103	%	80 - 120
		Dissolved Manganese (Mn)	12/1/2011		98	%	80 - 120
		Dissolved Mercury (Hg)	12/1/2011		97	%	80 - 120
		Dissolved Molybdenum (Mo)	12/1/2011		101	%	80 - 120
		Dissolved Nickel (Ni)	12/1/2011		95	%	80 - 120
		Dissolved Selenium (Se)	12/1/2011		105	%	80 - 120
		Dissolved Silver (Ag)	12/1/2011		111	%	80 - 120
		Dissolved Strontium (Sr)	12/1/2011		104	%	80 - 120
		Dissolved Tellurium (Te)	12/1/2011		97	%	80 - 120
		Dissolved Thallium (Tl)	12/1/2011		103	%	80 - 120
		Dissolved Tin (Sn)	12/1/2011		101	%	80 - 120
		Dissolved Titanium (Ti)	12/1/2011		101	%	80 - 120
		Dissolved Uranium (U)	12/1/2011		106	%	80 - 120
		Dissolved Vanadium (V)	12/1/2011		93	%	80 - 120
		Dissolved Zinc (Zn)	12/1/2011		99	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	12/1/2011	<0.0002		mg/L	
		Dissolved Antimony (Sb)	12/1/2011	<0.00002		mg/L	
		Dissolved Arsenic (As)	12/1/2011	0.00002	RDL=0.00002	mg/L	
		Dissolved Barium (Ba)	12/1/2011	<0.00002		mg/L	
		Dissolved Beryllium (Be)	12/1/2011	<0.00001		mg/L	
		Dissolved Bismuth (Bi)	12/1/2011	<0.000005		mg/L	
		Dissolved Boron (B)	12/1/2011	<0.05		mg/L	
		Dissolved Cadmium (Cd)	12/1/2011	<0.000005		mg/L	
		Dissolved Cesium (Cs)	12/1/2011	<0.00005		mg/L	
		Dissolved Chromium (Cr)	12/1/2011	<0.0001		mg/L	
		Dissolved Cobalt (Co)	12/1/2011	<0.000005		mg/L	
		Dissolved Copper (Cu)	12/1/2011	<0.00005		mg/L	
		Dissolved Iron (Fe)	12/1/2011	<0.001		mg/L	
		Dissolved Lanthanum (La)	12/1/2011	<0.00005		mg/L	
		Dissolved Lead (Pb)	12/1/2011	0.000006	RDL=0.000005	mg/L	
		Dissolved Lithium (Li)	12/1/2011	<0.0005		mg/L	
		Dissolved Manganese (Mn)	12/1/2011	<0.00005		mg/L	
		Dissolved Mercury (Hg)	12/1/2011	<0.00001		mg/L	
		Dissolved Molybdenum (Mo)	12/1/2011	<0.00005		mg/L	
		Dissolved Nickel (Ni)	12/1/2011	<0.00002		mg/L	
		Dissolved Phosphorus (P)	12/1/2011	<0.002		mg/L	
		Dissolved Rubidium (Rb)	12/1/2011	<0.00005		mg/L	
		Dissolved Selenium (Se)	12/1/2011	<0.00004		mg/L	
		Dissolved Silicon (Si)	12/1/2011	<0.1		mg/L	
		Dissolved Silver (Ag)	12/1/2011	<0.000005		mg/L	
		Dissolved Strontium (Sr)	12/1/2011	0.00008	RDL=0.00005	mg/L	
		Dissolved Tellurium (Te)	12/1/2011	<0.00002		mg/L	
		Dissolved Thallium (Tl)	12/1/2011	<0.000002		mg/L	
		Dissolved Thorium (Th)	12/1/2011	<0.000005		mg/L	
		Dissolved Tin (Sn)	12/1/2011	<0.00001		mg/L	
		Dissolved Titanium (Ti)	12/1/2011	<0.0005		mg/L	

QA/QC Batch No.	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
		Dissolved Tungsten (W)	12/1/2011	<0.00001		mg/L	
		Dissolved Uranium (U)	12/1/2011	0.000003	RDL=0.000002	mg/L	
		Dissolved Vanadium (V)	12/1/2011	<0.0002		mg/L	
		Dissolved Zinc (Zn)	12/1/2011	<0.0001		mg/L	
		Dissolved Zirconium (Zr)	12/1/2011	<0.0001		mg/L	
	RPD	Dissolved Aluminum (Al)	12/1/2011	0.3		%	20
		Dissolved Antimony (Sb)	12/1/2011	1.9		%	20
		Dissolved Arsenic (As)	12/1/2011	6.1		%	20
		Dissolved Barium (Ba)	12/1/2011	0.9		%	20
		Dissolved Beryllium (Be)	12/1/2011	NC		%	20
		Dissolved Bismuth (Bi)	12/1/2011	NC		%	20
		Dissolved Boron (B)	12/1/2011	NC		%	20
		Dissolved Cadmium (Cd)	12/1/2011	NC		%	20
		Dissolved Cesium (Cs)	12/1/2011	NC		%	20
		Dissolved Chromium (Cr)	12/1/2011	NC		%	20
		Dissolved Cobalt (Co)	12/1/2011	1.1		%	20
		Dissolved Copper (Cu)	12/1/2011	3.4		%	20
		Dissolved Iron (Fe)	12/1/2011	NC		%	20
		Dissolved Lanthanum (La)	12/1/2011	NC		%	20
		Dissolved Lead (Pb)	12/1/2011	8.2		%	20
		Dissolved Lithium (Li)	12/1/2011	NC		%	20
		Dissolved Manganese (Mn)	12/1/2011	3.6		%	20
		Dissolved Mercury (Hg)	12/1/2011	NC		%	20
		Dissolved Molybdenum (Mo)	12/1/2011	2.5		%	20
		Dissolved Nickel (Ni)	12/1/2011	5		%	20
		Dissolved Phosphorus (P)	12/1/2011	7.3		%	20
		Dissolved Rubidium (Rb)	12/1/2011	4		%	20
		Dissolved Selenium (Se)	12/1/2011	4.1		%	20
		Dissolved Silicon (Si)	12/1/2011	NC		%	20
		Dissolved Silver (Ag)	12/1/2011	NC		%	20
		Dissolved Strontium (Sr)	12/1/2011	0.6		%	20
		Dissolved Tellurium (Te)	12/1/2011	NC		%	20
		Dissolved Thallium (Tl)	12/1/2011	NC		%	20
		Dissolved Thorium (Th)	12/1/2011	NC		%	20
		Dissolved Tin (Sn)	12/1/2011	NC		%	20
		Dissolved Titanium (Ti)	12/1/2011	NC		%	20
		Dissolved Tungsten (W)	12/1/2011	0.07		%	20
		Dissolved Uranium (U)	12/1/2011	NC		%	20
		Dissolved Vanadium (V)	12/1/2011	NC		%	20
		Dissolved Zinc (Zn)	12/1/2011	NC		%	20
		Dissolved Zirconium (Zr)	12/1/2011	NC		%	20
5414211	Matrix Spike	Dissolved Mercury (Hg)	12/2/2011		109	%	80 - 120
	Spiked Blank	Dissolved Mercury (Hg)	12/2/2011		110	%	80 - 120
	Method Blank	Dissolved Mercury (Hg)	12/2/2011	<0.020		ug/L	
	RPD	Dissolved Mercury (Hg)	12/2/2011	NC		%	20

Notes:

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11

Table 5a: Total Sample List of 354 Samples: **Note: *Indicates sample IDs replaced with bag labels - as per email from Claudio Andrade October 25, 2011**

S. No.	Bucket No.	Drill Year	Sample ID (Assay #)	Dry Sample Wt. (Kg)	Sample Type & Condition	Maxxam Notes
1	1	AC09	747643	1.690	Dry <2mm rock	
2	1	AC09	109128	1.710	Dry <2mm rock	
3	1	AC09	111915	1.730	Dry <2mm rock	
4	1	AC09	76266	1.530	Dry <2mm rock	
5	1	AC09	110892	1.700	Dry <2mm rock	
6	1	AC09	110996	1.635	Dry <2mm rock	
7	1	AC09	110786	1.555	Dry <2mm rock	
8	1	AC09	109166	1.650	Dry <2mm rock	
9	1	AC09	75900	1.570	Dry <2mm rock	
10	1	AC09	110144	1.690	Dry <2mm rock	
11	1	AC09	110133	1.735	Dry <2mm rock	
12	1	AC09	109895	1.555	Dry <2mm rock	
13	1	AC09	110692	1.625	Dry <2mm rock	
14	1	AC09	112151	1.545	Dry <2mm rock	
15	1	AC09	109569	1.615	Dry <2mm rock	
16	2	AC09	77088	1.585	Dry <2mm rock	
17	2	AC09	109436	1.530	Dry <2mm rock	
18	2	AC09	110062	1.740	Dry <2mm rock	
19	2	AC09	112125	1.770	Dry <2mm rock	
20	2	AC09	77653	1.535	Dry <2mm rock	
21	2	AC09	47945	1.660	Dry <2mm rock	
22	2	AC09	111134	1.560	Dry <2mm rock	
23	2	AC09	109097	2.320	Dry <2mm rock	
24	2	AC09	109375	1.610	Dry <2mm rock	
25	2	AC09	109784	1.815	Dry <2mm rock	
26	2	AC09	109044	1.605	Dry <2mm rock	
27	2	AC09	77682	1.705	Dry <2mm rock	
28	2	AC09	77453	1.575	Dry <2mm rock	
29	2	AC09	109361	1.810	Dry <2mm rock	
30	2	AC09	109417	1.765	Dry <2mm rock	
31	3	AC09	111212	1.725	Dry <2mm rock	
32	3	AC09	111695	1.560	Dry <2mm rock	
33	3	AC09	77074	1.655	Dry <2mm rock	
34	3	AC09	110040	1.730	Dry <2mm rock	
35	3	AC09	110769	1.580	Dry <2mm rock	
36	3	AC09	109953	1.510	Dry <2mm rock	
37	3	AC09	747753	1.635	Dry <2mm rock	
38	3	AC09	110318	1.605	Dry <2mm rock	
39	3	AC09	77279	1.795	Dry <2mm rock	
40	3	AC09	76237	1.515	Dry <2mm rock	
41	3	AC09	110796	1.685	Dry <2mm rock	
42	3	AC09	77796	1.770	Dry <2mm rock	*Listed as 77796 on client copy
43	3	AC09	76105	1.550	Dry <2mm rock	
44	3	AC09	110867	1.795	Dry <2mm rock	
45	3	AC09	747731	1.705	Dry <2mm rock	
46	4	AC09	77135	1.635	Dry <2mm rock	
47	4	AC09	108756	1.585	Dry <2mm rock	
48	4	AC09	76185	1.540	Dry <2mm rock	
49	4	AC09	108794	1.530	Dry <2mm rock	
50	4	AC09	110356	1.720	Dry <2mm rock	
51	4	AC09	76163	1.730	Dry <2mm rock	
52	4	AC09	747715	1.560	Dry <2mm rock	
53	4	AC09	109868	1.615	Dry <2mm rock	
54	4	AC09	112201	1.700	Dry <2mm rock	
55	4	AC09	110393	1.540	Dry <2mm rock	
56	4	AC09	77301	1.530	Dry <2mm rock	
57	4	AC09	747647	1.660	Dry <2mm rock	
58	4	AC09	111272	1.655	Dry <2mm rock	
59	4	AC09	110316	1.600	Dry <2mm rock	
60	4	AC09	747793	1.565	Dry <2mm rock	
61	5	AC09	747920	1.605	Dry <2mm rock	
62	5	AC09	111811	1.715	Dry <2mm rock	
63	5	AC09	109067	2.185	Dry <2mm rock	
64	5	AC09	77875	1.770	Dry <2mm rock	
65	5	AC09	77815	1.615	Dry <2mm rock	
66	5	AC09	77593	1.605	Dry <2mm rock	
67	5	AC09	112251	1.740	Dry <2mm rock	
68	5	AC09	112316	1.565	Dry <2mm rock	
69	5	AC09	111023	1.555	Dry <2mm rock	
70	5	AC09	111744	1.605	Dry <2mm rock	
71	5	AC09	75894	1.780	Dry <2mm rock	
72	5	AC09	110248	1.760	Dry <2mm rock	
73	5	AC09	738782	1.755	Dry <2mm rock	
74	5	AC09	75772	1.590	Dry <2mm rock	
75	5	AC09	746216	1.670	Dry <2mm rock	
76	6	AC09	110096	1.840	Dry <2mm rock	
77	6	AC09	738740	1.595	Dry <2mm rock	
78	6	AC09	110090	1.420	Dry <2mm rock	
79	6	AC09	111863	1.715	Dry <2mm rock	
80	6	AC09	738756	1.620	Dry <2mm rock	
81	6	AC09	108705	1.535	Dry <2mm rock	
82	6	AC09	108627	1.635	Dry <2mm rock	
83	6	AC09	108919	1.540	Dry <2mm rock	
84	6	AC09	111253	1.905	Dry <2mm rock	
85	6	AC09	75845	1.545	Dry <2mm rock	
86	6	AC09	108839	1.830	Dry <2mm rock	
87	6	AC09	108856	1.670	Dry <2mm rock	
88	6	AC09	36555	1.730	Dry <2mm rock	
89	6	AC09	34236	1.685	Dry <2mm rock	
90	6	AC09	36585	1.645	Dry <2mm rock	
91	7	AC09	36731	1.535	Dry <2mm rock	
92	7	AC09	36789	1.655	Dry <2mm rock	
93	7	AC09	36618	1.490	Dry <2mm rock	
94	7	AC09	36725	1.520	Dry <2mm rock	
95	7	AC09	37755	1.750	Dry <2mm rock	
96	7	AC09	33969	1.625	Dry <2mm rock	
97	7	AC09	36678	1.505	Dry <2mm rock	
98	7	AC09	36861	1.710	Dry <2mm rock	
99	7	AC09	36645	1.515	Dry <2mm rock	
100	7	AC09	33996	1.560	Dry <2mm rock	
101	7	AC09	36487	1.600	Dry <2mm rock	
102	7	AC09	41058	1.545	Dry <2mm rock	
103	7	AC09	37482	1.675	Dry <2mm rock	
104	7	AC09	36347	1.615	Dry <2mm rock	
105	7	AC09	36131	1.490	Dry <2mm rock	*Listed as 36131 on client copy
106	8	AC10	170102	1.610	Dry <2mm rock	
107	8	AC10	164335	1.630	Dry <2mm rock	
108	8	AC10	112646	1.565	Dry <2mm rock	
109	8	AC10	816873	1.550	Dry <2mm rock	
110	8	AC10	170651	1.565	Dry <2mm rock	
111	8	AC10	112590	1.540	Dry <2mm rock	
112	8	AC10	89805	1.580	Dry <2mm rock	
113	8	AC10	172282	1.840	Dry <2mm rock	
114	8	AC10	172154	1.550	Dry <2mm rock	
115	8	AC10	111521	1.525	Dry <2mm rock	
116	8	AC10	173595	1.780	Dry <2mm rock	
117	8	AC10	816450	1.695	Dry <2mm rock	
118	8	AC10	112607	1.780	Dry <2mm rock	
119	8	AC10	172030	1.575	Dry <2mm rock	
120	8	AC10	816791	1.600	Dry <2mm rock	
121	9	AC10	111465	1.690	Dry <2mm rock	
122	9	AC10	171259	1.580	Dry <2mm rock	
123	9	AC10	816817	1.590	Dry <2mm rock	
181	13	AC10	172009	1.690	Dry <2mm rock	
182	13	AC10	816881	1.740	Dry <2mm rock	
183	13	AC10	163044	1.765	Dry <2mm rock	
184	13	AC10	163423	1.730	Dry <2mm rock	
185	13	AC10	170082	1.390	Dry <2mm rock	
186	13	AC10	172108	1.560	Dry <2mm rock	
187	13	AC10	89500	1.680	Dry <2mm rock	
188	13	AC10	90460	1.550	Dry <2mm rock	
189	13	AC10	172137	1.680	Dry <2mm rock	
190	13	AC10	171112	1.635	Dry <2mm rock	
191	13	AC10	164190	1.630	Dry <2mm rock	
192	13	AC10	170109	1.675	Dry <2mm rock	
193	13	AC10	163767	1.560	Dry <2mm rock	
194	13	AC10	112933	1.595	Dry <2mm rock	
195	13	AC10	171126	1.630	Dry <2mm rock	
196	14	AC08	29357	1.665	Dry <2mm rock	
197	14	AC08	35211	1.805	Dry <2mm rock	
198	14	AC08	29122	1.645	Dry <2mm rock	
199	14	AC08	31370	1.515	Dry <2mm rock	
200	14	AC08	35025	1.630	Dry <2mm rock	
201	14	AC08	31459	1.765	Dry <2mm rock	
202	14	AC08	33816	1.690	Dry <2mm rock	
203	14	AC08	33887	1.850	Dry <2mm rock	
204	14	AC	15347	1.635	Dry <2mm rock	
205	14	AC	14082	1.600	Dry <2mm rock	
206	14	AC	15386	1.505	Dry <2mm rock	
207	14	-	20404	1.675	Dry <2mm rock	
208	14	-	12876	1.725	Dry <2mm rock	
209	14	-	13916	1.565	Dry <2mm rock	
210	14	-	59310	1.660	Dry <2mm rock	
211	15	-	20526	1.745	Dry <2mm rock	
212	15	-	18638	1.765	Dry <2mm rock	
213	15	-	20555	1.630	Dry <2mm rock	
214	15	-	58793	1.615	Dry <2mm rock	
215	15	-	7960	1.490	Dry <2mm rock	
216	15	-	36515	1.765	Dry <2mm rock	
217	15	-	7822	1.680	Dry <2mm rock	
218	15	-	36541	1.630	Dry <2mm rock	
219	15	-	20064	1.625	Dry <2mm rock	
220	15	-	15591	1.755	Dry <2mm rock	
221	15	-	15569	1.675	Dry <2mm rock	
222	15	-	18343	1.485	Dry <2mm rock	
223	15	-	19482	1.535	Dry <2mm rock	
224	15	-	19611	1.725	Dry <2mm rock	
225	15	-	34725	1.580	Dry <2mm rock	
226	16	-	15715	1.615	Dry <2mm rock	
227	16	-	12834	1.770	Dry <2mm rock	
228	16	-	37658	1.735	Dry <2mm rock	
229	16	-	36952	1.565	Dry <2mm rock	
230	16	-	7549	1.705	Dry <2mm rock	
231	16	-	20691	1.575	Dry <2mm rock	
232	16	-	12881	1.650	Dry <2mm rock	
233	16	-	12924	1.655	Dry <2mm rock	
234	16	-	36595	1.670	Dry <2mm rock	
235	16	-	7509	1.745	Dry <2mm rock	
236	16	-	7868	1.645	Dry <2mm rock	
237	16	-	20465	1.615	Dry <2mm rock	
238	16	-	59247	1.520	Dry <2mm rock	
239	16	-	15603	1.650	Dry <2mm rock	
240	16	-	37686	1.750	Dry <2mm rock	
241	17	-	13712	1.700	Dry <2mm rock	
242	17	-	12901	1.665	Dry <2mm rock	
243	17	-	20224	1.745	Dry <2mm rock	
244	17	-	19418	1.850	Dry <2mm rock	
245	17	-	7815	1.725	Dry <2mm rock	
246	17	-	35833	1.815	Dry <2mm rock	
247	17	-	18498	1.560	Dry <2mm rock	
248	17	-	29217	1.795	Dry <2mm rock	
249	17	-	9194	1.735	Dry <2mm rock	
250	17	-	20143	1.665	Dry <2mm rock	
251	17	-	9560	1.565	Dry <2mm rock	
252	17	-	9138	1.445	Dry <2mm rock	
253	17	-	18741	1.590	Dry <2mm rock	
254	17	-	20292	1.625	Dry <2mm rock	
255	17	-	7671	1.530	Dry <2mm rock	
256	18	-	9003	1.635	Dry <2mm rock	
257	18	-	13944	1.670	Dry <2mm rock	
258	18	-	58840	1.745	Dry <2mm rock	
259	18	-	58924	1.690	Dry <2mm rock	
260	18	-	36992	1.630	Dry <2mm rock	
261	18	AC07	16203	1.725	Dry <2mm rock	
262	18	AC07	16055	1.715	Dry <2mm rock	
263	18	AC07	18607	1.890	Dry <2mm rock	
264	18	AC07	16003	1.780	Dry <2mm rock	
265	18	AC07	16246	1.770	Dry <2mm rock	
266	18	AC07	16412	1.700	Dry <2mm rock	
267	18	AC07	20690	1.600	Dry <2mm rock	
268	18	AC07	21554	1.870	Dry <2mm rock	
269	18	AC07	16630	1.785	Dry <2mm rock	
270	18	AC07	20822	1.800	Dry <2mm rock	
271	19	AC08	23467	1.670	Dry <2mm rock	
272	19	AC08	28066	1.795	Dry <2mm rock	
273	19	AC08	24226	1.680	Dry <2mm rock	
274	19	AC08	28015	1.645	Dry <2mm rock	
275	19	AC08	29876	1.745	Dry <2mm rock	
276	19	AC08	23329	1.735	Dry <2mm rock	
277	19	AC08	24170	1.730	Dry <2mm rock	
278	19	AC08	28150	1.810	Dry <2mm rock	
279	19	AC08	29832	1.655	Dry <2mm rock	
280	19	AC08	23390	1.600	Dry <2mm rock	
281	19	AC09	110517	1.675	Dry <2mm rock	
282	19	AC09	747028	1.750	Dry <2mm rock	
283	19	AC09	37835	1.695	Dry <2mm rock	
284	19	AC09	747079	1.785	Dry <2mm rock	
285	19	AC09	37793	1.645	Dry <2mm rock	
286	20	AC09	37873	1.660	Dry <2mm rock	
287	20	AC10	170684	1.660	Dry <2mm rock	
288	20		14839	1.545	Dry <2mm rock	
289	20		601051	1.855	Dry <2mm rock	
290	20		13463	1.665	Dry <2mm rock	
291	20		601474	1.710	Dry <2mm rock	
292	20		3884	1.685	Dry <2mm rock	
293	20		3803	1.720	Dry <2mm rock	
294	20		601339	1.715	Dry <2mm rock	
295	20		13339	1.635	Dry <2mm rock	
296	20		14806	1.665	Dry <2mm rock	
297	20		9535	1.620	Dry <2mm rock	
298	20		136626	1.655	Dry <2mm rock	*Listed as 136626 on client copy
299	20		58755	1.640	Dry <2mm rock	
300	20		36685	1.630	Dry <2mm rock	
301	21		7548	1.630	Dry <2mm rock	
302	21		18839	1.630	Dry <2mm rock	
303	21		8489	1.610	Dry <2mm rock	

S. No.	Bucket No.	Drill Year	Sample ID (Assay #)	Dry Sample Wt. (Kg)	Sample Type & Condition	Maxxam Notes
124	9	AC10	816264	1.630	Dry <2mm rock	
125	9	AC10	112772	1.630	Dry <2mm rock	
126	9	AC10	172380	1.645	Dry <2mm rock	
127	9	AC10	173631	1.585	Dry <2mm rock	
128	9	AC10	111049	1.655	Dry <2mm rock	
129	9	AC10	228065	1.525	Dry <2mm rock	
130	9	AC10	816704	1.690	Dry <2mm rock	
131	9	AC10	172707	1.800	Dry <2mm rock	
132	9	AC10	816465	1.735	Dry <2mm rock	
133	9	AC10	171852	1.715	Dry <2mm rock	
134	9	AC10	173161	1.605	Dry <2mm rock	
135	9	AC10	173308	1.610	Dry <2mm rock	
136	10	AC10	164015	1.635	Dry <2mm rock	
137	10	AC10	112388	1.600	Dry <2mm rock	
138	10	AC10	112373	1.780	Dry <2mm rock	
139	10	AC10	173420	1.750	Dry <2mm rock	
140	10	AC10	164872	1.645	Dry <2mm rock	
141	10	AC10	164646	1.655	Dry <2mm rock	
142	10	AC10	170804	1.475	Dry <2mm rock	
143	10	AC10	816755	1.570	Dry <2mm rock	
144	10	AC10	171282	1.685	Dry <2mm rock	
145	10	AC10	90355	1.665	Dry <2mm rock	
146	10	AC10	816860	1.665	Dry <2mm rock	
147	10	AC10	228353	1.720	Dry <2mm rock	
148	10	AC10	112901	1.480	Dry <2mm rock	
149	10	AC10	170764	1.520	Dry <2mm rock	
150	10	AC10	110718	1.605	Dry <2mm rock	
151	11	AC10	173801	1.535	Dry <2mm rock	
152	11	AC10	112924	1.655	Dry <2mm rock	
153	11	AC10	727276	1.660	Dry <2mm rock	
154	11	AC10	170704	1.705	Dry <2mm rock	
155	11	AC10	172009	1.605	Dry <2mm rock	
156	11	AC10	173627	1.610	Dry <2mm rock	
157	11	AC10	172822	1.495	Dry <2mm rock	
158	11	AC10	164695	1.575	Dry <2mm rock	
159	11	AC10	163315	1.830	Dry <2mm rock	
160	11	AC10	172543	1.555	Dry <2mm rock	
161	11	AC10	816782	1.725	Dry <2mm rock	
162	11	AC10	816774	1.640	Dry <2mm rock	
163	11	AC10	89891	1.485	Dry <2mm rock	
164	11	AC10	229236	1.590	Dry <2mm rock	
165	11	AC10	17809	1.645	Dry <2mm rock	
166	12	AC10	163633	1.555	Dry <2mm rock	
167	12	AC10	816923	1.715	Dry <2mm rock	
168	12	AC10	163468	1.615	Dry <2mm rock	
169	12	AC10	163499	1.740	Dry <2mm rock	
170	12	AC10	816376	1.555	Dry <2mm rock	
171	12	AC10	90228	1.625	Dry <2mm rock	
172	12	AC10	817043	1.735	Dry <2mm rock	
173	12	AC10	163033	1.670	Dry <2mm rock	
174	12	AC10	817063	1.550	Dry <2mm rock	
175	12	AC10	164296	1.630	Dry <2mm rock	
176	12	AC10	816916	1.875	Dry <2mm rock	
177	12	AC10	816215	1.650	Dry <2mm rock	
178	12	AC10	164484	1.655	Dry <2mm rock	
179	12	AC10	164333	1.625	Dry <2mm rock	
180	12	AC10	164148	1.585	Dry <2mm rock	

S. No.	Bucket No.	Drill Year	Sample ID (Assay #)	Dry Sample Wt. (Kg)	Sample Type & Condition	Maxxam Notes
304	21		7510	1.780	Dry <2mm rock	
305	21		13711	1.745	Dry <2mm rock	
306	21		20643	1.605	Dry <2mm rock	
307	21		9670	1.290	Dry <2mm rock	
308	21		15771	1.665	Dry <2mm rock	
309	21		10844	1.595	Dry <2mm rock	
310	21		8189	1.710	Dry <2mm rock	
311	21		9540	1.660	Dry <2mm rock	
312	21		19965	1.795	Dry <2mm rock	
313	21		20199	1.650	Dry <2mm rock	
314	21		18259	1.690	Dry <2mm rock	
315	21		36808	1.560	Dry <2mm rock	
316	22		9528	1.625	Dry <2mm rock	
317	22		18886	1.705	Dry <2mm rock	
318	22		20360	1.780	Dry <2mm rock	
319	22		14234	1.820	Dry <2mm rock	
320	22		36849	1.800	Dry <2mm rock	
321	22		10886	1.405	Dry <2mm rock	
322	22		18631	1.730	Dry <2mm rock	
323	22		12757	1.610	Dry <2mm rock	
324	22		7702	1.645	Dry <2mm rock	
325	22		20382	1.710	Dry <2mm rock	
326	22		58977	1.755	Dry <2mm rock	
327	22	AC	18190	1.590	Dry <2mm rock	
328	22	AC	18215	1.700	Dry <2mm rock	
329	22	AC	18211	1.655	Dry <2mm rock	
330	22	AC	21314	1.585	Dry <2mm rock	
331	23	AC07	20028	1.635	Dry <2mm rock	
332	23	AC09	75849	1.845	Dry <2mm rock	*Listed as 75849 on client copy
333	23	AC08	32299	1.690	Dry <2mm rock	
334	23	AC09	110114	1.580	Dry <2mm rock	
335	23	AC09	110234	1.685	Dry <2mm rock	
336	23	AC09	109604	1.795	Dry <2mm rock	
337	23	AC09	747960	1.885	Dry <2mm rock	
338	23	AC09	76011	1.580	Dry <2mm rock	
339	23	AC09	77202	1.550	Dry <2mm rock	
340	23	AC09	747877	1.865	Dry <2mm rock	
341	23	AC09	109595	1.760	Dry <2mm rock	
342	23	AC09	110101	1.630	Dry <2mm rock	
343	23	AC09	41030	1.805	Dry <2mm rock	
344	23	AC09	747298	1.705	Dry <2mm rock	
345	23	AC09	36467	1.765	Dry <2mm rock	
346	24	AC09	75789	1.660	Dry <2mm rock	
347	24	AC10	112947	1.625	Dry <2mm rock	
348	24	AC10	89100	1.700	Dry <2mm rock	
349	24	AC10	172532	1.770	Dry <2mm rock	
350	24	AC10	164662	1.810	Dry <2mm rock	
351	24	AC10	727941	1.705	Dry <2mm rock	
352	24	AC10	727644	1.670	Dry <2mm rock	
353	24	AC10	112948	1.780	Dry <2mm rock	
354	24	AC10	78119	1.740	Dry <2mm rock	

Total sample wt. rec'd (kg): **588**

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Table 5b: List of 43 (of 354) Samples Chosen for NAG-Extract Analysis & MEND-Shakeflask Extraction (by email to to Tim & Ivy from Claudio Andrade on November 22, 2011)

S. No.	KCB/ Maxxam Sample List	Acme Sample List	DDH	KCB/Site Sample List	From (m)	To (m)	Interval (m)	Lith
1	BUCKET 1 747643	747643	RKD-146	AC09-747643	132	135	3	FTf
2	BUCKET 10 170764	170764	RKD-134B	AC10-170764	181.5	183.5	2	TON
3	BUCKET 11 163315	163315	EWD-51	AC10-163315	138	141	3	DIO
4	BUCKET 11 816782	816782	AHD-123	AC10-816782	213	215.5	2.5	MVOL
5	BUCKET 12 163033	163033	EWD-49	AC10-163033	45	47	2	DIO
6	BUCKET 12 164296	164296	EWD-52	AC10-164296	51	53	2	CSCT
7	BUCKET 12 164333	164333	EWD-52	AC10-164333	155	158	3	VOL
8	BUCKET 12 816215	816215	MKD-67	AC10-816215	75	78	3	VOL
9	BUCKET 13 163044	163044	EWD-49	AC10-163044	169	172	3	SSCT
10	BUCKET 14 29122	29122	NAHD-21	AC08-29122	95	97	2	SSCT
11	BUCKET 14 33887	33887	SMKD-21	AC08-33887	39	42	3	VOL
12	BUCKET 15 36541	36541	RKD-22	36541	77	79	2	MVOL
13	BUCKET 16 37658	37658	RKD-23	37658	251	253	2	TON
14	BUCKET 17 18498	18498	RKD-43	18498	123	125	2	VOL
15	BUCKET 17 18741	18741	WHD-9	18741	63	66	3	VOL
16	BUCKET 18 13944	13944	RKD-30	13944	170	173	3	ATf
17	BUCKET 18 20822	20822	RKD-52	20822	335	336	1	FTf
18	BUCKET 18 58840	58840	AHD-10	58840	76	77.5	1.5	VOL
19	BUCKET 19 23390	23390	RKD-101	AC08-23390	465	468	3	SSCT
20	BUCKET 19 747028	747028	RKD-139W	AC09-747028	801	804	3	FTf
21	BUCKET 2 109375	109375	NAHD-58	AC09-109375	95	97	2	CSCT
22	BUCKET 2 109417	109417	NAHD-58	AC09-109417	187	189	2	CSCT
23	BUCKET 2 112125	112125	AHD-96	AC09-112125	21	24	3	SAP
24	BUCKET 20 13463	13463	RKD-27	13463	556	558	2	TON
25	BUCKET 20 37873	37873	RKD-136	AC09-37873	571	573	2	TON
26	BUCKET 20 3803	3803	RKD-37WC	3803	892.5	894	1.5	TON
27	BUCKET 20 3884	3884	RKD-37WC	3884	1017.6	1020.6	3	MVOL
28	BUCKET 21 19965	19965	RKD-52	19965	229	231	2	FTf
29	BUCKET 21 36808	36808	RKD-134B	AC09-36808	266	269	3	TON
30	BUCKET 21 7510	7510	WHD-2	7501	0	2	2	SC
31	BUCKET 22 14234	14234	RKD-28	13711	123	126	3	VOL
32	BUCKET 22 18190	18190	SMKD-7	18190	4.5	6	1.5	SAP
33	BUCKET 22 18211	18211	SMKD-7	18211	45	46.5	1.5	QFP
34	BUCKET 22 18631	18631	WHD-7	18631	106.1	106.75	0.65	QV
35	BUCKET 23 109604	109604	NAHD-51	AC09-109604	78	81	3	AP
36	BUCKET 23 110234	110234	WHD-41	AC09-110234	88	90	2	MSED
37	BUCKET 23 75849	75849	MKD-56	AC09-75849	20.5	23.5	3	SAP
38	BUCKET 3 747753	747753	RKD-147	AC09-747753	190	192	2	ATF
39	BUCKET 3 77796	77796	AHD-76	AC09-77815	24	26	2	SAP
40	BUCKET 4 108756	108756	AHD-82	AC09-108756	76	78	2	DIO
41	BUCKET 5 111811	111811	WHD-33	AC09-111811	46	48	2	MVOL
42	BUCKET 6 738740	738740	MKD-39	AC09-738740	55	58	3	QV
43	BUCKET 8 89805	89805	MKD-90	AC10-89805	59.2	62	2.8	MVOL

S. No. - from total sample list

S. No.	KCB/ Maxxam Sample List
1	BUCKET 1 747643
149	BUCKET 10 170764
159	BUCKET 11 163315
161	BUCKET 11 816782
173	BUCKET 12 163033
175	BUCKET 12 164296
179	BUCKET 12 164333
177	BUCKET 12 816215
183	BUCKET 13 163044
198	BUCKET 14 29122
203	BUCKET 14 33887
218	BUCKET 15 36541
228	BUCKET 16 37658
247	BUCKET 17 18498
253	BUCKET 17 18741
257	BUCKET 18 13944
270	BUCKET 18 20822
258	BUCKET 18 58840
280	BUCKET 19 23390
282	BUCKET 19 747028
24	BUCKET 2 109375
30	BUCKET 2 109417
19	BUCKET 2 112125
290	BUCKET 20 13463
286	BUCKET 20 37873
293	BUCKET 20 3803
292	BUCKET 20 3884
312	BUCKET 21 19965
315	BUCKET 21 36808
304	BUCKET 21 7510
319	BUCKET 22 14234
327	BUCKET 22 18190
329	BUCKET 22 18211
322	BUCKET 22 18631
336	BUCKET 23 109604
335	BUCKET 23 110234
332	BUCKET 23 75849
37	BUCKET 3 747753
42	BUCKET 3 77796
47	BUCKET 4 108756
62	BUCKET 5 111811
77	BUCKET 6 738740
112	BUCKET 8 89805

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Sample Summary:	Klohn Crippen, Guyana Goldfields Inc. - Aurora, Rec'd 6-Oct-11 & 18-Oct-11 Page 10 of 11
Date Samples Received:	October 6 & 18, 2011.
Analysis Relinquished by:	Claudio Andrade by COC dated October 6, 2011.
Sample Prep:	ABA, Metals, NAG-Extract: Split & pulverized samples to >80% of <200 mesh. SPLP: Used as-received <2mm particle size.
Date of Analysis:	ABA: 22-Nov-11 to 2-Dec-11; S-Spec: 13 to 25-Nov-11; NAG-Extracts: 28-Nov-11; MEND-SFE: 28/29-Nov-11.
Other Analysis Requested:	None.

Name of Client:	Klohn Crippen
Name of Project:	Guyana Gold Aurora
P.O. No:	M02011-PO089
Contact Person:	Claudio Andrade at Klohn Crippen
E-Mail Address of Report Recipient:	Claudio Andrade: candrade@klohn.com Alex Riley: ariley@guygold.com Savitri Hassan: shassan@guygold.com
Mailing Address of Claudio Andrade:	Avenida Pedro de Osma 418 Barranco, Lima, Peru.
Contact No of Claudio Andrade:	General: +51 (1) 610 4800
Fax No of Claudio Andrade:	+51(1) 610 4800 x1
Billing Address:	Attn: Savitri Hassan (shassan@guygold.com) Guyana Goldfields Inc. 141 Adelaide St. West, Suite 1608, Toronto, ON., M5H 3L5.
Contact No:	416-628-5936
Fax No:	416-628-5935

Sign: Ivy Rajan

Report Released by:	Ivy Rajan
Position:	Lab Manager, ARD Division, Maxxam Analytics, Inc.
Report Verified By:	Tim O'Hearn
Position:	
Report Validated by:	Tim O'Hearn
Position:	Director, ARD Division, Maxxam Analytics, Inc.
ARD Project No:	2-21-907
Acme File No:	VAN11005982 for 169 (of 354 samples) & VAN11005978 for 185 (of 354 samples).
Contact No:	604-734-7276 x 5029; Direct: 604-638-5029 (Ivy Rajan)
Contact No:	604-734-7276 x 5031; Direct: 604-638-5031 (Tim O'Hearn)