

ASSESSMENT REPORT

2011 EXPLORATION PROGRAM for the

SAPPHIRE PROPERTY

Sapphire 1-64 YD90030 – YD90093
Sapphire 65-460 YD136681 – YD137076
Sapphire 461-667 YE81301 – YE81507

Longitude 61°N 05.931'; Latitude 137°W 35.965'
NTS 115H/04

Whitehorse Mining District **YUKON TERRITORY**

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FOR:



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SUMMARY

The Sapphire prospect falls within the Ryan Gold Corporation's Kluane project area, situated in the Ruby Ranges of southwest Yukon within the Whitehorse Mining District. During the 2011 field season, the prospect comprised 460 contiguous claims spanning ~93 km², ~3 km west-southwest of Killermun Lake and ~32 km north of the community of Haines Junction. Claims are nestled in the traditional territory of the Champagne and Aishihik First Nation and registered with the Whitehorse Mining Recorder.

In 2011, exploration of the Sapphire prospect included a regional soil survey and bedrock mapping and rock sampling over 236 of the 460 claims, which was completed over 13 days in July. Bedrock mapping and sampling were carried out by two Ryan Gold Corp employees over five days in early July (7 – 12th) while the regional soil survey was carried out over eight days (July 20-27th) by Ground Truth Exploration (GT) with a ten person crew. Details of the work performed are provided in this report.

Bedrock mapping in the area has revealed the presence of two sets of quartz veins that are ubiquitously found in the Kluane schists, one set that is concordant with and a second set oriented oblique to the main foliation. Whether quartz veining is associated with Eocene magmatism and emplacement of the Hayden Lake suite, or whether quartz veining and associated mineralization predates Eocene magmatism remains to be resolved. Based on the Au values exceeding 200 ppb in quartz vein talus grab samples, work must be conducted to vector in on which set of quartz veins yields higher Au values. Follow-up mapping and possibly trenching should also be conducted in lieu of recent soil geochemical results to ground truth the correlation of Au enrichment with cross-cutting quartz veins. Au enrichment associated with the contact between the Kluane schist and Hayden Lake pluton should also be explored.

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1. INTRODUCTION

To maintain title of a mineral claim as outlined in the regulations of the Yukon Quartz Mining Act, the holder of the claim is required to perform and document assessment work within one year of staking the claim. Quantitatively, the minimum dollar value of assessment work conducted per claim should equate to \$100.00 per year. If work could not be completed, the claim holder might pay the equivalent amount per claim unit per year to the Yukon Government as “Cash in Lieu” to maintain title to the claims.

This document is a summary of work that was completed on the April claims (1-278) that are currently registered under the co-ownership of 45127 Yukon Inc. (30%) and the Ryan Gold Corp. (70%).

2. PROPERTY, LOCATION AND ACCESS

The April prospect is located in the Ruby Ranges of southwest Yukon, within the Whitehorse Mining District in NTS map sheets 115J/03 and 115J/04, centered over longitude 62° 02.098' N and latitude 139° 31.041' W. The property comprises 280 contiguous claims spanning ~57 km² situated ~ 12 km east - northeast of the Donjek River and ~ 80 km north – northwest of the community of Burwash Landing (Figure 1). Access to the property is by helicopter only from Burwash Landing or Beaver Creek, Yukon. Claims are nestled in the traditional territory of the Kluane - White River First Nation (Figure 1) and registered with the Whitehorse Mining Recorder. All 280 claims are listed under the co-ownership of 45127 Yukon Inc. (30%) and the Ryan Gold Corp. (70%).

The April prospect is situated at the in an area of the territory that was at the boundary between glaciated and unglaciated terrain (Figure 2). For the most part, hill tops in the project area were affected by the Pre-Reid glaciation (~ 3 Ma) with valley bottoms, particularly to the south, also affected by the Gladstone and Reid glaciations ~ 200 thousand years ago. The topography in and around the April prospect is characterized by gently undulating hills that are blanketed with glaciofluvial outwash and till. Valley bottoms are moderate to densely vegetated with bedrock exposures restricted to gullies where creeks have incised deeply into the glacial cover. At higher elevations the slopes are covered in blocky felsenmeer boulder fields and alpine vegetation with bedrock outcropping on slopes exceeding ~25-30°.

3. EXPLORATION HISTORY

Exploration activity in and around the April prospect has been restricted to areas to the south the Ruby Ranges has included placer mining activity along several drainages including the McKinley and Ruby Creeks (515 oz), and to the northwest in the Gladstone (35606 oz) and Fourth of July Creeks (14288 oz), since the late 70s through to the present (J. Bond, pers. comm.).

In 1986, a regional stream sediment survey carried out by the Geological Survey of Canada (Open File 1219) highlighted anomalous gold and arsenic values in several drainages of the Ruby Ranges and as a result, a number of quartz claims were staked. In the vicinity of the Sapphire prospect, a number of prospects around Killerman Lake were staked by Silverquest Resources Ltd (Shut, Kil, Kin and Live) (Wengzynowski, 1995); United Keno Hill Mines Ltd. (Ruby)(Walton, 1988); and J.P. Ross (Spruce, Cliff and Wall)(Ross, 1987). Follow-up reconnaissance contour geochemical sampling and prospecting conducted by Silverquest identified a number of gold and arsenic anomalies in the vicinity of the Shut claims (Figure 2) but did not substantiate the GSC anomalies on the Kil, Kin and Live properties.

In summer 1987, on the Lib claims (Figure 2), the DalBianco Exploration Syndicate identified an arsenopyrite bearing quartz-carbonate vein that was exposed over four hand dug trenches, spanning a strike length of ~ 40 m and samples assaying up to 89 g/t gold. During the same field season,

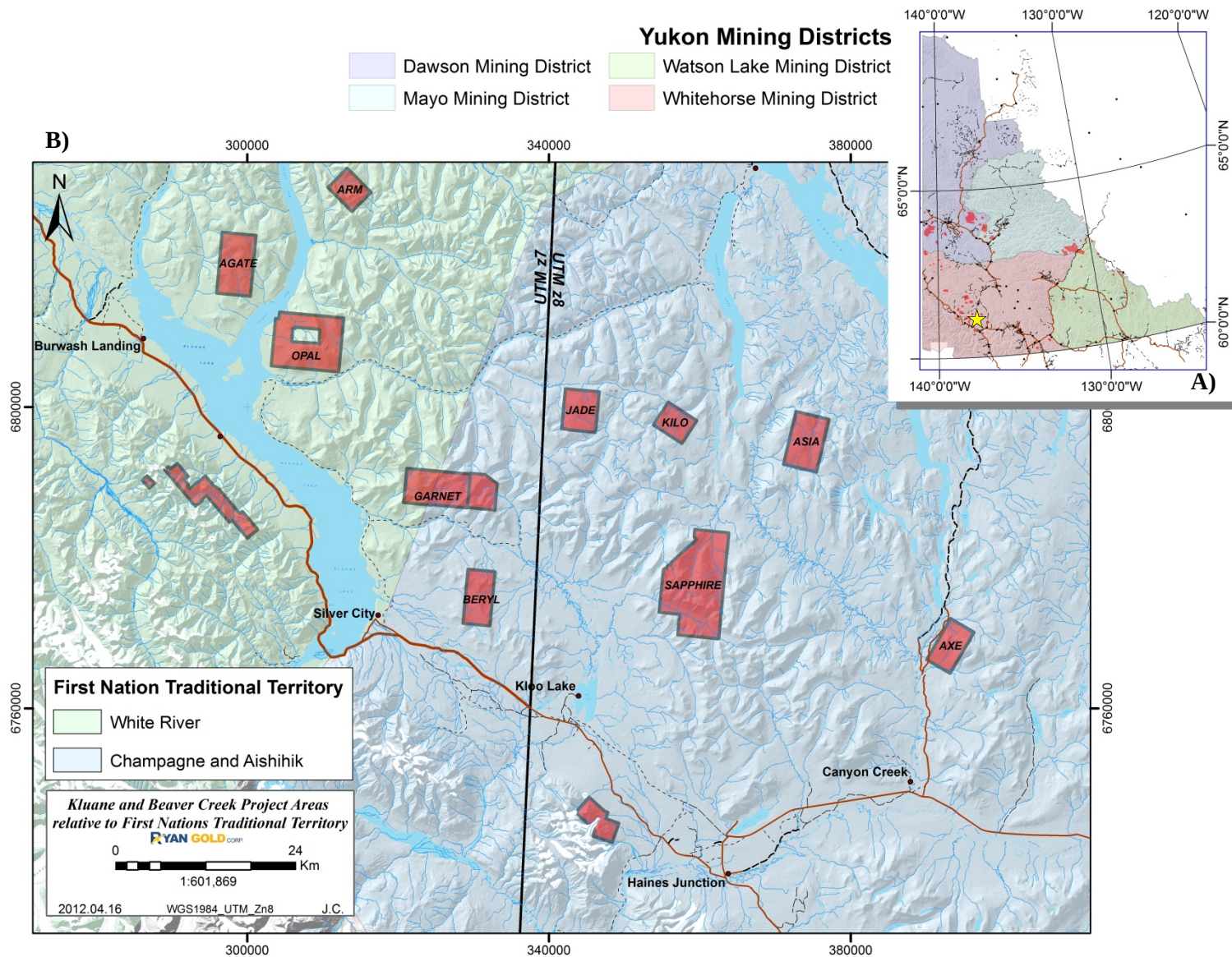


Figure 1: (a) Index map illustrating distribution of Yukon Mining districts. Yellow star indicates location of the map presented in (b). **(b)** Ryan Gold Corp. properties situated in the Beaver Creek and Kluane project areas. The Kluane area encompasses 9 prospects including Agate, Opal, Garnet/Topaz, Beryl, Jade, Kilo, Sapphire, Asia and Axe. The Beaver Creek project area encompasses two prospects, the Beaver and Haine which are not discussed in this report.

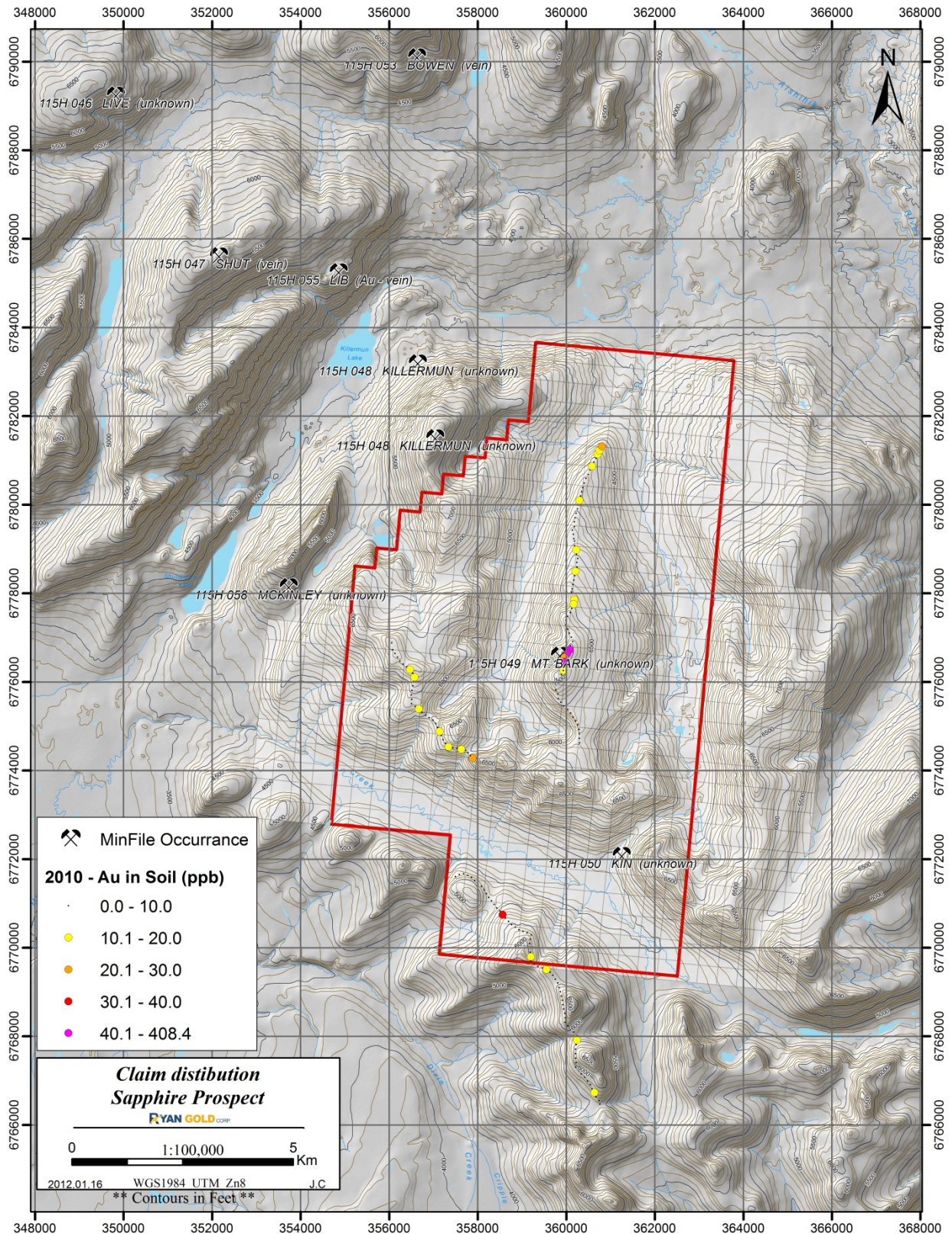


Figure 2: Claim distribution map of the 460 claim blocks/units that comprised the Sapphire prospect during the 2011 field season (outlined in red), relative to the additional 206 claim units that were staked in October 2011. # = MINFILE occurrences from the Yukon Geological Survey database (YGS IDS, 2011).

Silverquest expanded its Shut claim block to include soil geochemical anomalies highlighted by the previous year's work. Exploration of the expanded Shut block led to the discovery of arsenopyrite-bearing quartz-carbonate float material at lower Shut Creek which assayed 122 g/t gold. Also in that season, United Keno Hill performed soil sampling with prospecting outlining significant gold and arsenic anomalies on their Ruby claims located at the head of Shut Creek (see assessment report Mt. Bark; Walton, 1988).

In spring 1988, the DalBianco Exploration Syndicate optioned the Lib and Beth claims to Silverquest who in turn optioned them to Pezgold Resource Corporation. Exploration that summer included grid soil geochemical surveys and prospecting on the Lib and Shut claims which lead to the discovery of coincident north-trending gold and arsenic anomalies on both properties and identification of a second arsenopyrite-rich vein parallel to the DalBianco vein on the Lib claims. In midsummer Pezgold Resources staked additional claims (Angus and Topgun) to include anomalies on the Shut and Lib claim blocks (Main, 1989). Meanwhile J.P. Ross expanded its Cliff claims on the east side of Killermun Lake and staked the Stroker claims adjoining the Arc claim block. The Arc and Stroker were briefly optioned in 1989 to Noranda Exploration Co. Ltd. who carried out an exploration program that highlighted widespread arsenic anomalies with sporadic gold values. In 1990, the southernmost Ruby claim block originally staked by United Keno Hill (1986), was re-staked by J.P. Ross as the Joy claims (i.e. Mt. Bark MinFile; Walton, 1988).

In 1991 Silverquest changed its name to Cash Resources Ltd. Between 1991 and 1993 J.P. Ross restaked the Ruby 7-12 and Beth under the claim name of Malou, and Lib claims to form the Delor block. Exploration of the Malou block led to the discovery of quartz - carbonate vein float with up to 102 g/t gold. By the close of the 1993 field season, the Malou and neighboring Delor claims were optioned by J.P. Ross to Cash Resources Ltd. who eventually amalgamated the claims with its 100% owned Shut and Angus blocks to form the Ruby Range project in 1994. The group of prospects were later optioned to NDU Resources Ltd in spring 1995.

Following an exploration program that included drilling three diamond drill holes, and digging of 2 excavator trenches (Ross Zone) and 6 excavator trenches (Shut zone), NDU dropped their option on the Ruby Range project in late 1995. By spring 1997, ownership of the Delor claims was transferred back to J.P. Ross. Five years later in spring 2002, Cash Minerals Ltd - formally Cash Resources Ltd, re-optioned the Malou and Delor claims from J.P. Ross and again amalgamated the claims with the Shut and Angus claims to form the Ruby Range project.

Properties comprising the Ruby Range project area of Cash Minerals were later renamed the Kluane property. The Ruby Range project area was then expanded by Archer Cathro to include the the JPR and the Gladstone properties which were staked to the west and northwest of the Kluane property. In 2009, the project area was acquired by Rockhaven Resources who have since conducted silt and soil sampling survey of the JPR and Gladstone properties and revisited known vein exposures at the Rikus and DalBiancho zones on the Kluane property.

4. REGIONAL GEOLOGY

Geological unit names utilized here, and concepts pertaining to the regional geology are taken from the Yukon Geological Survey's (YGS) recent bedrock mapping results for the southwestern Yukon Coast Belt (Israel et al., 2011b). It is recommended that the reader refer to the YGS publication for geological details that will not be discussed here.

The Sapphire prospect is situated north of the Alaska Highway in the Ruby Ranges of southwest Yukon (Figure 3). The area is underlain by a northeast dipping structural stack of rocks that is representative of a ~ 40 km thick crustal section (Figure 4).

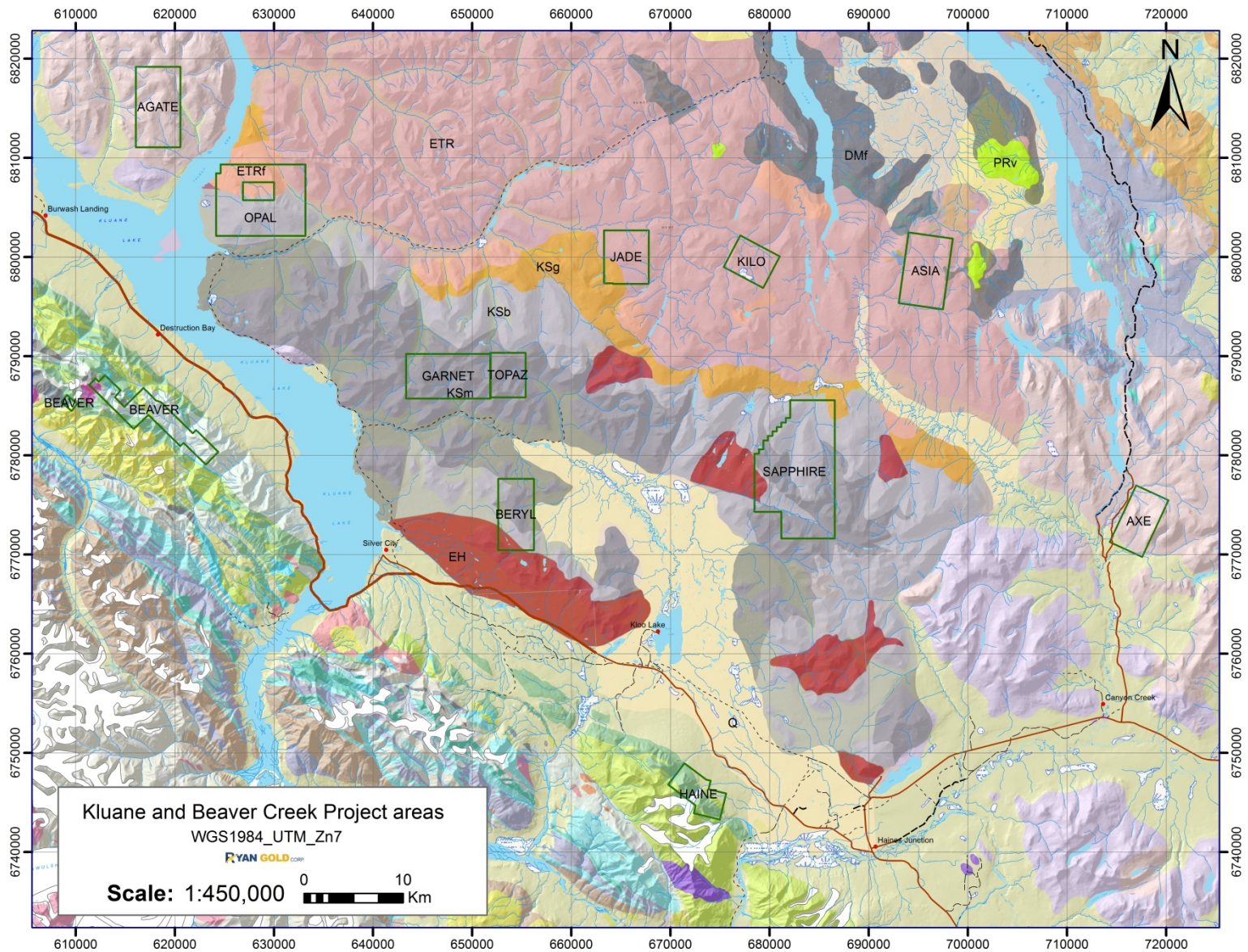


Figure 3: Ryan Gold Corp's Kluane and Beaver Creek project areas and underlying bedrock geology. Prospects within each project area are outlined in green. The Kluane area encompasses 9 prospects including Agate, Opal, Garnet/Topaz, Beryl, Jade, Kilo, Sapphire, Asia and Axe. The Beaver Creek project area encompasses two prospects, the Beaver and Haine which are not discussed in this report. Underlying regional geology map are taken from Gordey and Makepeace (2001), and Israel et al. (2011b). Corresponding geological legend can be found on the next page.

Geological Legend

Quaternary

- Q** unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial gravel, sand and silt; locally volcanic ash; soil and organic deposits.

Eocene

- EH** Hayden Lake suite (ca. 48 Ma): light and dark grey, hornblende, +/- biotite, diorite to quartz diorite; massive, medium to coarse-grained.

Paleocene

- PRv** Rhyolite Creek Complex (ca. 57 Ma): intermediate to felsic volcanic rocks; see Israel et al (2010) for details.
- PRg** Ruby Range Batholith (ca. 64-57 Ma): medium to coarse-grained, pinkish/grey, biotite granite.
- PRgd** Ruby Range Batholith (ca. 64-57 Ma): medium- coarse grained, light grey to pinkish, biotite +/- hornblende granodiorite.
- PRtd** Ruby Range Batholith (ca. 64-57 Ma): fine to coarse grained, salt and pepper, hornblende +/- biotite, quartz diorite; fine- to medium-grained, beige to grey tonalite.
- PRf** Strongly to moderately deformed equivalents to the undeformed Ruby Range batholith.

Late Cretaceous

- KSb** Kluane Schist: dark grey to black, fine-grained, quartz, biotite schist; deliniation of the boundary between this and KSm within the Sapphire prospect has been taken directly from Israel et al. (2011b).
- KSm** Kluane Schist: light to dark grey, fine-grained, quartz, muscovite schist; deliniation of the boundary between this and KSb within the Sapphire prospect has been taken directly from Israel et al. (2011b).

Late Cretaceous and older

- KSg** Orange to grey/black, medium to coarse-grained orthogneiss and paragneiss; mafic layers composed of biotite +/- hornblende, leucocratic layers consist of quartz, potassium feldspar and plagioclase. Basement to Yukon-Tanana terrane or migmatitized Kluane Schist.

Upper Devonian - Lower Mississippian

- DMf** Finlayson Assemblage: polydeformed and metamorphosed carbonaceous pelite, quartzite and psammite; quartz-muscovite schist; light grey to beige marble; mafic to felsic metavolcanic rocks. Unit PYT reclassified as unit DMf, see Israel et al (2011) for details.
- PYT**

Figure 3 (cont'd): Geological legend corresponding with the regional bedrock geology map presented on the previous page. Taken from Gordey and Makepeace (2001), and Israel et al. (2011b).

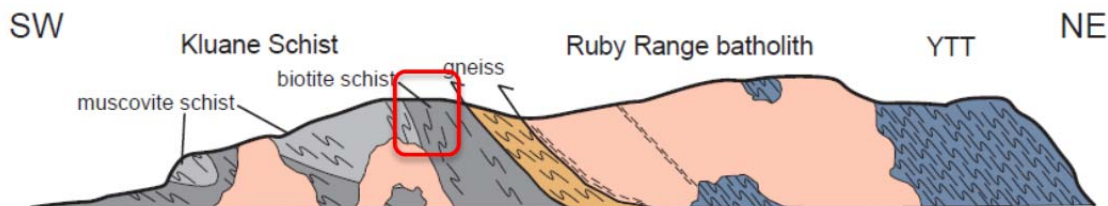


Figure 4: Schematic cross-section of Israel et al (2011b), illustrating the structural relationships between lithological units underlying the Kluane project area. Highlighted in red is the approximated position of the Sapphire prospect within the crustal stack.

The late Cretaceous (< 94 Ma) Kluane schist occupies the lowest structural levels of the crustal section and is structurally overlain by older (Paleozoic) metasedimentary and metavolcanic rocks of the Yukon Tanana Terrain (YTT). Separating, or ‘stitching’ the two structural elements together is the Ruby Range batholith that was emplaced into the structural stack syn- to post-deformation, during the late Paleocene (ca. 64-57 Ma). A continuous belt of ortho- and paragneisses of unknown affinity (i.e. Kluane Schist vs. YTT) has been mapped south of the batholith, separating the Kluane schist from structurally lowest portions of the Ruby Range batholith.

5. EXPLORATION PROGRAM

The original 64 Sapphire claims were staked in September 2010 (Figure 5) to investigate the elevated Au values obtained in soils collected by United Keno Hill on their Ruby 29-34 claims (Walton, 1988). In January 2011, 404 additional claims were staked so that by the beginning of the 2011 field season the property comprised 460 claims spanning ~93 km². Work reported in this assessment report was focused on these 460 claims. The surrounding 206 claims were staked in October 2011 and will not be discussed further.

Exploration of the Sapphire prospect included a regional soil survey and bedrock mapping/rock sampling over 236 of the 460 claims (see Appendix A for list of claims worked), which was completed over 13 days in July. Bedrock mapping and sampling were carried out by two Ryan Gold Corp employees over five days in early July (7 – 12th) while the regional soil survey was carried out over eight days (July 20-27th) by Ground Truth Exploration (GT) with a ten person crew. Highlights of the work are provided below.

Rock samples were shipped and processed by ACME at their lab facilities in Whitehorse, Yukon. Samples were processed and analyzed as outlined by the 1DX analytical package, permitting analyses of 36 elements by ICP-MS and Au by fire assay (Exploration Package 2Geo – Group 1DX (Aqua Regia/ICP-MS 0.5g) + Group 3B (fire geochem Au)).

5.1 Prospect Geology

Bedrock immediately underlying the Sapphire prospect comprises the late Cretaceous Kluane Schist (Figure 6; Israel et al. 2011b), also referred to as the ‘undivided metamorphic rocks of the Coast plutonic complex’ by Wheeler and McFeely (1991), and the ‘Kluane metamorphic assemblage’ by Mezger et al. (2001). Within the prospect area, rocks of this unit are medium grained, well foliated quartz- biotite-muscovite schists with quartz veins of varying thickness both parallel and oblique to the main north-northwest striking, east dipping foliation (Appendix B, Plate 1).

In the south part of the block immediately north of the McKinley Creek valley and fault, north-northeast trending saddles commonly host 1-2m wide, northeast-southwest oriented diorite – granodiorite dikes (Appendix B, Plate 2). Also observed in, or in close proximity to saddles are boulders of dull brown –

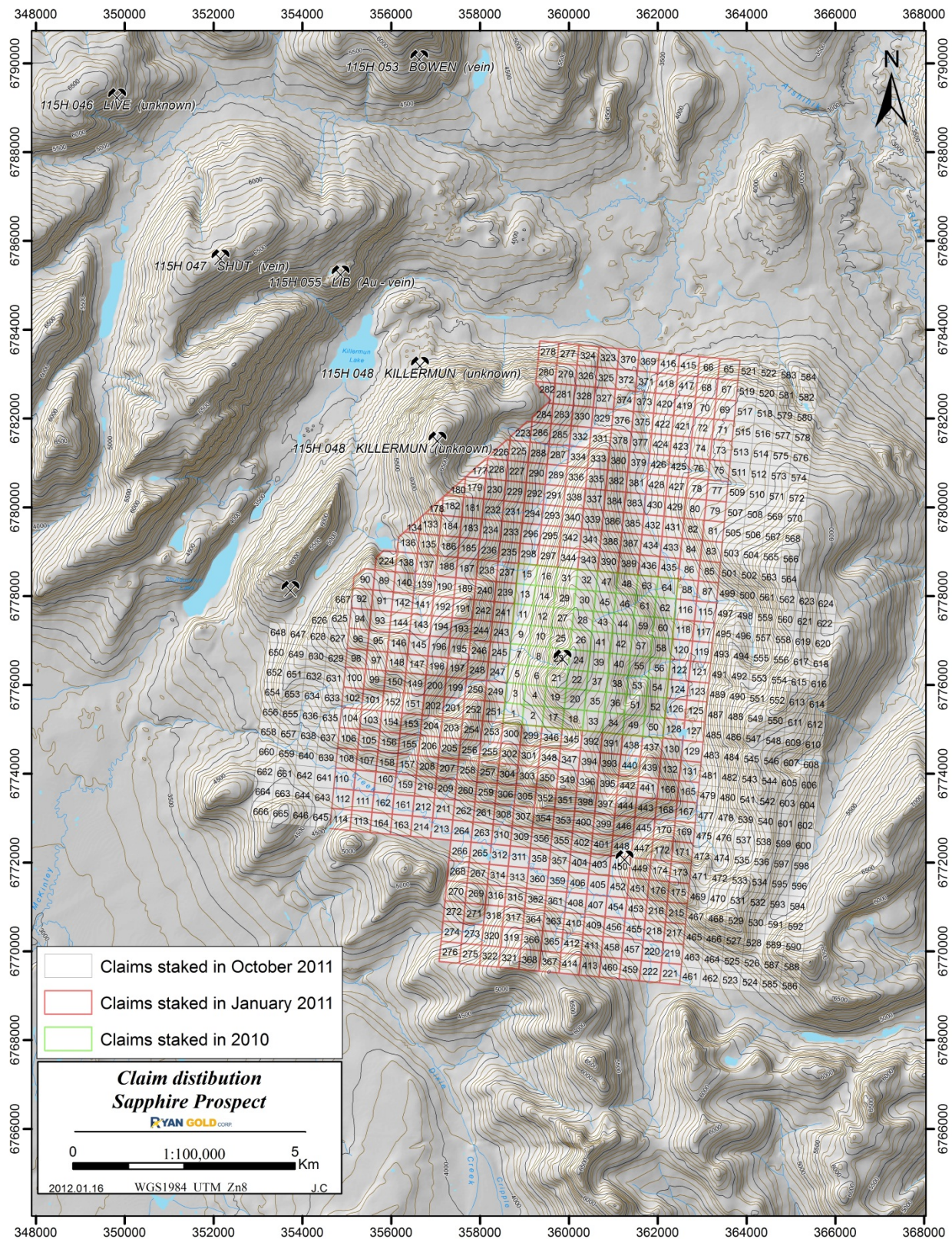


Figure 5: Claim distribution map of the 666 claim blocks/units comprising the Sapphire prospect illustrating the order of claim staking between 2010 to the present. # = MINFILE occurrences from the Yukon Geological Survey database (YGS IDS, 2011).

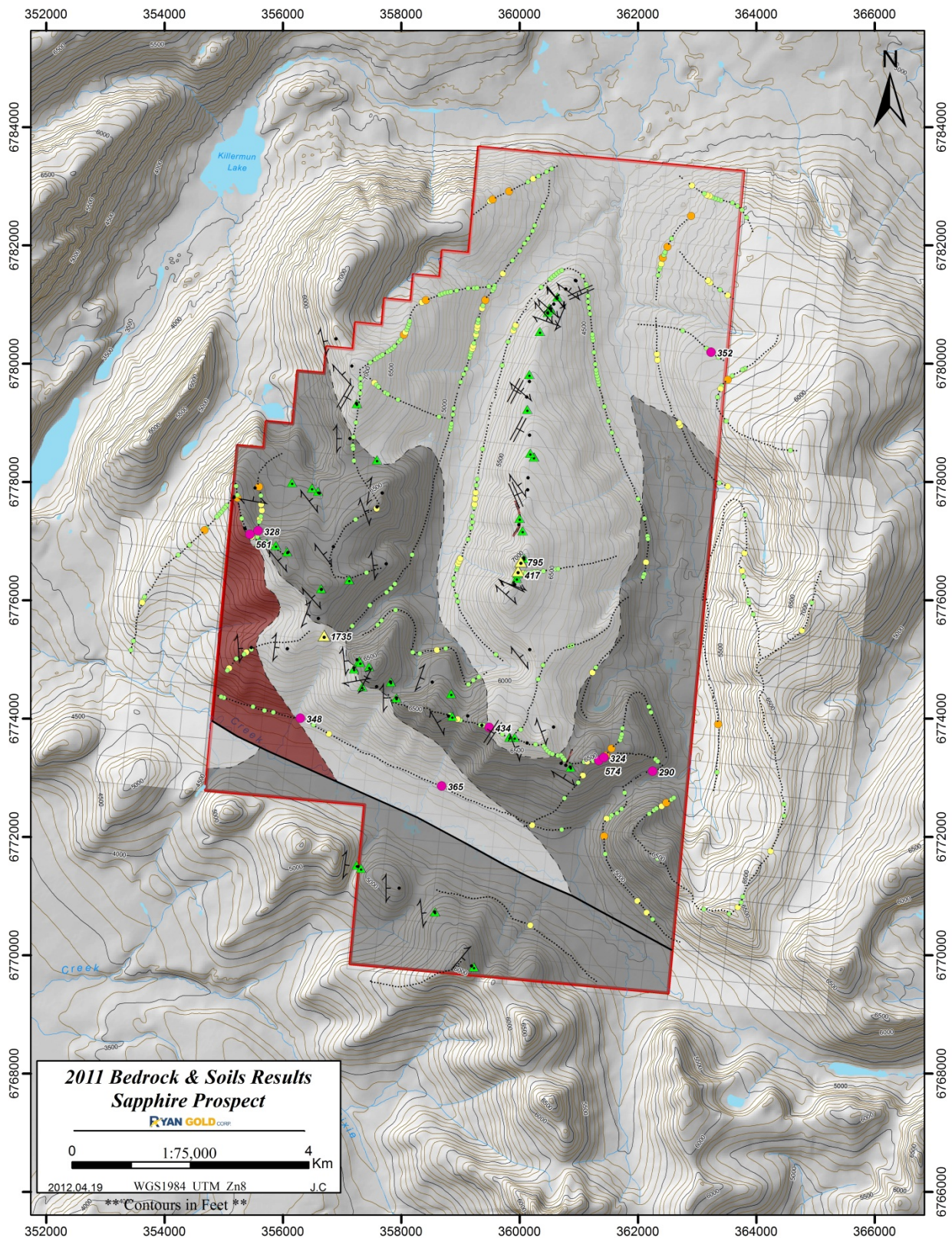


Figure 6: Geological map for the Sapphire prospect based on field observations made by the author during the 2011 mapping season. Corresponding geological legend is available for reference on the following page. Modification of the contact between the Hayden Lake pluton and Kluane Schist is based on observations made by the author during 2011 mapping season.

Geological Legend

Quaternary

- Q** unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial gravel, sand and silt; locally volcanic ash; soil and organic deposits.

Eocene

- EH** Hayden Lake suite (ca. 48 Ma): light and dark grey, hornblende, +/- biotite, diorite to quartz diorite; massive, medium to coarse-grained.

Late Cretaceous

- KSb** Kluane Schist: dark grey to black, fine-grained, quartz, biotite schist; deliniation of the boundary between this and KSm within the Sapphire prospect has been taken directly from Israel et al. (2011b).
- KSm** Kluane Schist: light to dark grey, fine-grained, quartz, muscovite schist; deliniation of the boundary between this and KSb within the Sapphire prospect has been taken directly from Israel et al. (2011b).

Legend: Contacts & Symbols

		Rock Geochem		Fault (inferred)	2011 - Au in Soil (ppb)
		Bedrock Station		Lithological contact (inferred)	 0 - 10
		Vein			 11 - 35
		Foliation			 36 - 94
					 95 - 220
					 221 - 574

Figure 6 (cont'd): Geological legend corresponding to the bedrock geology map for the Sapphire prospect presented on the previous page. Colour scheme is consistent with the regional geology map of Israel et al (2011a).

green weathering, fine grained, locally plagioclase phyrlic and pyrite bearing dacite (Appendix B, Plate 3). Nowhere within the mapped segments of the prospect was the dacitic unit observed in outcrop.

Finally, in the southwest corner of the Sapphire block is a medium grain, undeformed, biotite-granodiorite that intrudes the Kluane Schist. At the contact between the two units, the granodiorite appears intercalated with the schist, suggesting emplacement of the pluton syn- to post- deformation (Appendix B, Plate 4). Based on Israel et al. (2011a,b), the granodiorite is part of the mid-late Eocene Hayden Lake plutonic suite.

5.1.1 Alteration & Mineralization

With the exception of the three anomalous Au in soil values that were obtained in proximity to the peak of the main ridge running through the center of the prospect area (Figure 2), evidence for alteration and/or mineralization in outcrop is minimal to none. Quartz mica schists weather a rusty-brown colour probably due to the oxidation of biotite. Schists carry little to no visible sulphides and do not display weathering textures or patterns that would suggest their presence. Quartz veining however, is ubiquitous throughout the unit and can broadly be divided into two groups – i) those oriented parallel to the main foliation and ii) those that cross-cut foliation and are oriented parallel to a regularly spaced north-northeast trending fracture set, and less ubiquitous diorite – granodiorite dikes. To date, visible sulphides have not been observed in quartz veins of either set, though select veins are characterized by patches that appear smoky grey implying a potential for fine arsenopyrite. Minor pyrite is observed in diorite – granodiorite dikes and select boulders of plagioclase phyrlic dacite. Of the 46 rock samples that were collected, three talus grab samples of quartz vein material yielded Au values in excess of 200 ppb (Figure 6; Appendix C).

5.2 Soil Geochemistry

In late July, a ten person Ground Truth Exploration (GT) crew collected carried out a reconnaissance level soil survey of the Sapphire prospect. In total, 2119 soil samples were collected - 1710 samples were collected within the 2011 property boundary (Figure 6), in kraft bags at 50 m intervals. To ensure that samples were taken from the 'C' soil horizon, soils were collected from pits drilled with hand manipulated soil augers to depths of ~ 40-70 cm. Photographs and details of each sample location are recorded in GT's company database.

Soil samples were shipped and processed by ACME at their lab facilities in Whitehorse, Yukon. Samples were processed and analyzed as outlined by the 1DX2 analytical package, permitting analyses of 36 elements by ICP-MS using 15 g of each sample. Geochemical results of the soil survey are presented in Appendix C, Au in soil results are presented in Figure 6.

Geochemical results suggest that in specific locations on the property, enriched Au in soil values may be correlated with quartz veins that cross-cut the main foliation in the schists. New soil results also indicate a potential correlation for enriched Au with proximity to the contact between the Eocene Hayden Lake suite intrusive and Kluane Schist in the southwest corner of the property and may be the result of contact metamorphism.

6. PROJECT COSTS

In total, \$119,249.70 was spent on the Sapphire prospect. Costs were incurred in conducting both the bedrock mapping/rock sampling and reconnaissance soil survey programs. A detailed breakdown of expenditures for both is available for review in Appendix A.

7. CONCLUSIONS & RECOMMENDATIONS

Based on the results presented above, conclusions and recommendations for future work on the Sapphire property include:

1. Bedrock mapping in the area has revealed the presence of two sets of quartz veins that are ubiquitously found in the Kluane schists – one set that are concordant with the foliation in the encompassing metasediments and a second set oriented oblique to the main foliation. Whether or not quartz veining is associated with Eocene magmatism and emplacement of the Hayden Lake suite, or whether quartz veining and associated mineralization predates Eocene magmatism remains to be resolved.
2. Based on the Au values exceeding 200 ppb in quartz vein talus grab samples, work must be conducted to vector in on which set of quartz veins yields higher Au values.
3. Follow-up mapping and possibly trenching should also be conducted in lieu of recent soil geochemical results to ground truth the correlation of Au enrichment with cross-cutting quartz veins.
4. Au enrichment associated with the contact between the Kluane schist and Hayden Lake pluton should also be explored.

5. STATEMENT OF QUALIFICATIONS

I, Joyia Chakungal, of residential address in Mendenhall Subdivision, Yukon Territory do hereby certify that:

1. I am a graduate of the University of Western Ontario (1999) and Dalhousie University (2002 & 2007) with a Bachelor of Science, Master of Science and PhD in Earth Sciences.
2. Since 2006, upon completion of the PhD degree, I have practiced my profession as a full-time geologist.
3. I was hired by the Ryan Gold Corp. in the spring of 2011, and have actively engaged in mineral exploration in Yukon since that time.
4. I personally supervised the bedrock mapping and rock sampling program carried out on the property discussed in this report.
5. I have completed this report on behalf of my employer, the Ryan Gold Corp.

Joyia Chakungal, PhD

6. REFERENCES

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APPENDIX A

List of Claims & Certificates of Work

CERTIFICATE OF WORK

Schedule C

SAPHIRE/SAPPHIRE Property

SOIL SAMPLING PROGRAM:

A total of 65 man days were required to collect a total of 2,173 soil samples on the SAPHIRE Properties from July 20 to 27, 2011

Description		Rate	Unit	Total
WAGES:				
Soil Samplers	per day	\$ 350.00	52	\$ 18,200.00
Project Forman	per day	\$ 400.00	13	\$ 5,200.00
DATA MANAGEMENT & PROCESSING SERVICES:				
GIS/Job Layout/Mapping/Results Plotting	per hour	\$ 75.00	5	\$ 375.00
Data Processing: In the field	per hour	\$ 60.00	13	\$ 780.00
Database Management/Chain of Custody, Barcoded Samples	\$0.50/sample	\$ 0.50	2173	\$ 1,086.50
Georeferenced In situ Sample & Sample Site Photos	\$0.50/photo	\$ 0.50	2491	\$ 1,245.50
CONSUMABLE SAMPLING SUPPLIES:				
Flagging, Metal ID Tags, Sample Bags, Ore Bags, Rice Bags, etc.	per sample	\$ 1.00	2173	\$ 2,173.00
EQUIPMENT RENTAL (per unit, per day):				
Chainsaw drop kit: 1 per helicopter load, or as required	per day	\$ 35.00	13	\$ 455.00
Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	\$ 35.00	13	\$ 455.00
Radio: ICOM Handheld: 1 per person	per day	\$ 5.00	65	\$ 325.00
Computer/Software: 1 per camp nightly data download	per day	\$ 50.00	8	\$ 400.00
Handheld GPS/Barcode Scanner/Camera/Data Recorder	per day	\$ 15.00	65	\$ 975.00
ACCOMODATION and FOOD:				
Remote Camp Fee: full fly camp/kitchen/generator	per man day	\$ 35.00	65	\$ 2,275.00
Food	per man day	\$ 50.00	65	\$ 3,250.00
MOBILIZATION/DEMOBILIZATION/OPERATIONAL EXPENSES:				\$ 10,722.39
HELICOPTER SUPPORT:				
Trans North (Inv. 51314,16,21,23,24,28,32,37,40)	per hour	\$ 1,485.00	19.75	\$ 29,328.75
FUEL	per litre	\$ 1.55	2962.5	\$ 4,591.88
ANALYTICAL ANALYSIS COSTS:				
Acme Laboratories, Vancouver, B.C./SOILS	per sample	\$ 24.00	2173	\$ 52,152.00
REPORT WRITING:				\$ 1,000.00
SOIL SAMPLING PROGRAM =				\$ 134,990.02

divided by 2173 =

\$ 62.12

PER SAMPLE

1710 soils samples were taken within the claim boundaries of the SAPHIRE/SAPPHIRE Property

1710 soil samples X \$62.12/sample =

\$ 106,225.20

SOIL SAMPLING

GEOLOGICAL MAPPING & ROCK SAMPLING PROGRAM:

2 Geologists performed Geological Mapping and collected 47 Rock Samples on July 7 + 9 to 12, 2011

Description		Rate	Unit	Total
WAGES:				
Project Geologist	per day	\$ 425.00	4	\$ 1,700.00
Geologist	per day	\$ 300.00	5	\$ 1,500.00
DATA MANAGEMENT & PROCESSING SERVICES:				
GIS/Job Layout/Mapping Results Plotting	per hour	\$ 75.00	3	\$ 225.00
CONSUMABLE SAMPLING SUPPLIES:				
Flagging, Metal ID Tags, Sample Bags, etc.	per sample	\$ 1.00	47	\$ 47.00
EQUIPMENT RENTAL (per unit, per day):				
Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	\$ 35.00	5	\$ 175.00
Radio: ICOM Handheld: 1 per person	per day	\$ 5.00	9	\$ 45.00
Handheld GPS/Camera/Data Recorder	per day	\$ 15.00	5	\$ 75.00
ACCOMODATION and FOOD:				
Haines Junction Accomodation	per man day	\$ 55.00	9	\$ 495.00
Food	per man day	\$ 50.00	9	\$ 450.00
HELICOPTER SUPPORT:				
Trans North (Inv. 51285,90,93,95,96))	per hour	\$ 1,485.00	3.8	\$ 5,643.00
FUEL	per litre	\$ 1.55	570	\$ 883.50
ANALYTICAL ANALYSIS COSTS:				
Acme Laboratories, Vancouver, B.C./Rock	per sample	\$ 38.00	47	\$ 1,786.00

\$ 13,024.50

MAPPING PROGRAM

PROGRAM TOTAL = \$ 119,249.70

List of Sapphire claims on which work was conducted during the 2011 field season.

Grant #	Claim	Claim #	Owner
YD90030	Sapphire	1	45127 Yukon Inc. (30%); RYG (70%)
YD90031	Sapphire	2	45127 Yukon Inc. (30%); RYG (70%)
YD90032	Sapphire	3	45127 Yukon Inc. (30%); RYG (70%)
YD90033	Sapphire	4	45127 Yukon Inc. (30%); RYG (70%)
YD90034	Sapphire	5	45127 Yukon Inc. (30%); RYG (70%)
YD90036	Sapphire	7	45127 Yukon Inc. (30%); RYG (70%)
YD90038	Sapphire	9	45127 Yukon Inc. (30%); RYG (70%)
YD90039	Sapphire	10	45127 Yukon Inc. (30%); RYG (70%)
YD90041	Sapphire	12	45127 Yukon Inc. (30%); RYG (70%)
YD90043	Sapphire	14	45127 Yukon Inc. (30%); RYG (70%)
YD90045	Sapphire	16	45127 Yukon Inc. (30%); RYG (70%)
YD90046	Sapphire	17	45127 Yukon Inc. (30%); RYG (70%)
YD90047	Sapphire	18	45127 Yukon Inc. (30%); RYG (70%)
YD90050	Sapphire	21	45127 Yukon Inc. (30%); RYG (70%)
YD90052	Sapphire	23	45127 Yukon Inc. (30%); RYG (70%)
YD90053	Sapphire	24	45127 Yukon Inc. (30%); RYG (70%)
YD90054	Sapphire	25	45127 Yukon Inc. (30%); RYG (70%)
YD90055	Sapphire	26	45127 Yukon Inc. (30%); RYG (70%)
YD90056	Sapphire	27	45127 Yukon Inc. (30%); RYG (70%)
YD90058	Sapphire	29	45127 Yukon Inc. (30%); RYG (70%)
YD90059	Sapphire	30	45127 Yukon Inc. (30%); RYG (70%)
YD90060	Sapphire	31	45127 Yukon Inc. (30%); RYG (70%)
YD90061	Sapphire	32	45127 Yukon Inc. (30%); RYG (70%)
YD90062	Sapphire	33	45127 Yukon Inc. (30%); RYG (70%)
YD90063	Sapphire	34	45127 Yukon Inc. (30%); RYG (70%)
YD90068	Sapphire	39	45127 Yukon Inc. (30%); RYG (70%)
YD90069	Sapphire	40	45127 Yukon Inc. (30%); RYG (70%)
YD90078	Sapphire	49	45127 Yukon Inc. (30%); RYG (70%)
YD90080	Sapphire	51	45127 Yukon Inc. (30%); RYG (70%)
YD90081	Sapphire	52	45127 Yukon Inc. (30%); RYG (70%)
YD90082	Sapphire	53	45127 Yukon Inc. (30%); RYG (70%)
YD90083	Sapphire	54	45127 Yukon Inc. (30%); RYG (70%)
YD90084	Sapphire	55	45127 Yukon Inc. (30%); RYG (70%)
YD90085	Sapphire	56	45127 Yukon Inc. (30%); RYG (70%)
YD90086	Sapphire	57	45127 Yukon Inc. (30%); RYG (70%)
YD90087	Sapphire	58	45127 Yukon Inc. (30%); RYG (70%)
YD90089	Sapphire	60	45127 Yukon Inc. (30%); RYG (70%)
YD90090	Sapphire	61	45127 Yukon Inc. (30%); RYG (70%)
YD90091	Sapphire	62	45127 Yukon Inc. (30%); RYG (70%)
YD90092	Sapphire	63	45127 Yukon Inc. (30%); RYG (70%)
YD136682	Sapphire	66	45127 Yukon Inc. (30%); RYG (70%)
YD136683	Sapphire	67	45127 Yukon Inc. (30%); RYG (70%)
YD136684	Sapphire	68	45127 Yukon Inc. (30%); RYG (70%)
YD136686	Sapphire	70	45127 Yukon Inc. (30%); RYG (70%)
YD136688	Sapphire	72	45127 Yukon Inc. (30%); RYG (70%)
YD136689	Sapphire	73	45127 Yukon Inc. (30%); RYG (70%)
YD136690	Sapphire	74	45127 Yukon Inc. (30%); RYG (70%)
YD136693	Sapphire	77	45127 Yukon Inc. (30%); RYG (70%)
YD136694	Sapphire	78	45127 Yukon Inc. (30%); RYG (70%)
YD136695	Sapphire	79	45127 Yukon Inc. (30%); RYG (70%)
YD136697	Sapphire	81	45127 Yukon Inc. (30%); RYG (70%)
YD136699	Sapphire	83	45127 Yukon Inc. (30%); RYG (70%)
YD136700	Sapphire	84	45127 Yukon Inc. (30%); RYG (70%)
YD136701	Sapphire	85	45127 Yukon Inc. (30%); RYG (70%)
YD136702	Sapphire	86	45127 Yukon Inc. (30%); RYG (70%)
YD136703	Sapphire	87	45127 Yukon Inc. (30%); RYG (70%)
YD136705	Sapphire	89	45127 Yukon Inc. (30%); RYG (70%)
YD136707	Sapphire	91	45127 Yukon Inc. (30%); RYG (70%)
YD136708	Sapphire	92	45127 Yukon Inc. (30%); RYG (70%)
YD136709	Sapphire	93	45127 Yukon Inc. (30%); RYG (70%)
YD136710	Sapphire	94	45127 Yukon Inc. (30%); RYG (70%)
YD136711	Sapphire	95	45127 Yukon Inc. (30%); RYG (70%)
YD136712	Sapphire	96	45127 Yukon Inc. (30%); RYG (70%)

YD136972	Sapphire	356	45127 Yukon Inc. (30%); RYG (70%)
YD136977	Sapphire	361	45127 Yukon Inc. (30%); RYG (70%)
Grant #	Claim	Claim #	Owner
YD136978	Sapphire	362	45127 Yukon Inc. (30%); RYG (70%)
YD136979	Sapphire	363	45127 Yukon Inc. (30%); RYG (70%)
YD136984	Sapphire	368	45127 Yukon Inc. (30%); RYG (70%)
YD136996	Sapphire	380	45127 Yukon Inc. (30%); RYG (70%)
YD136998	Sapphire	382	45127 Yukon Inc. (30%); RYG (70%)
YD136999	Sapphire	383	45127 Yukon Inc. (30%); RYG (70%)
YD137000	Sapphire	384	45127 Yukon Inc. (30%); RYG (70%)
YD137001	Sapphire	385	45127 Yukon Inc. (30%); RYG (70%)
YD137003	Sapphire	387	45127 Yukon Inc. (30%); RYG (70%)
YD137005	Sapphire	389	45127 Yukon Inc. (30%); RYG (70%)
YD137007	Sapphire	391	45127 Yukon Inc. (30%); RYG (70%)
YD137008	Sapphire	392	45127 Yukon Inc. (30%); RYG (70%)
YD137009	Sapphire	393	45127 Yukon Inc. (30%); RYG (70%)
YD137010	Sapphire	394	45127 Yukon Inc. (30%); RYG (70%)
YD137012	Sapphire	396	45127 Yukon Inc. (30%); RYG (70%)
YD137013	Sapphire	397	45127 Yukon Inc. (30%); RYG (70%)
YD137014	Sapphire	398	45127 Yukon Inc. (30%); RYG (70%)
YD137015	Sapphire	399	45127 Yukon Inc. (30%); RYG (70%)
YD137017	Sapphire	401	45127 Yukon Inc. (30%); RYG (70%)
YD137018	Sapphire	402	45127 Yukon Inc. (30%); RYG (70%)
YD137019	Sapphire	403	45127 Yukon Inc. (30%); RYG (70%)
YD137020	Sapphire	404	45127 Yukon Inc. (30%); RYG (70%)
YD137025	Sapphire	409	45127 Yukon Inc. (30%); RYG (70%)
YD137026	Sapphire	410	45127 Yukon Inc. (30%); RYG (70%)
YD137027	Sapphire	411	45127 Yukon Inc. (30%); RYG (70%)
YD137031	Sapphire	415	45127 Yukon Inc. (30%); RYG (70%)
YD137035	Sapphire	419	45127 Yukon Inc. (30%); RYG (70%)
YD137037	Sapphire	421	45127 Yukon Inc. (30%); RYG (70%)
YD137039	Sapphire	423	45127 Yukon Inc. (30%); RYG (70%)
YD137041	Sapphire	425	45127 Yukon Inc. (30%); RYG (70%)
YD137043	Sapphire	427	45127 Yukon Inc. (30%); RYG (70%)
YD137044	Sapphire	428	45127 Yukon Inc. (30%); RYG (70%)
YD137045	Sapphire	429	45127 Yukon Inc. (30%); RYG (70%)
YD137047	Sapphire	431	45127 Yukon Inc. (30%); RYG (70%)
YD137052	Sapphire	436	45127 Yukon Inc. (30%); RYG (70%)
YD137053	Sapphire	437	45127 Yukon Inc. (30%); RYG (70%)
YD137054	Sapphire	438	45127 Yukon Inc. (30%); RYG (70%)
YD137055	Sapphire	439	45127 Yukon Inc. (30%); RYG (70%)
YD137057	Sapphire	441	45127 Yukon Inc. (30%); RYG (70%)
YD137059	Sapphire	443	45127 Yukon Inc. (30%); RYG (70%)
YD137060	Sapphire	444	45127 Yukon Inc. (30%); RYG (70%)
YD137061	Sapphire	445	45127 Yukon Inc. (30%); RYG (70%)
YD137063	Sapphire	447	45127 Yukon Inc. (30%); RYG (70%)
YD137065	Sapphire	449	45127 Yukon Inc. (30%); RYG (70%)
YD137067	Sapphire	451	45127 Yukon Inc. (30%); RYG (70%)
YD137074	Sapphire	458	45127 Yukon Inc. (30%); RYG (70%)
YD137075	Sapphire	459	45127 Yukon Inc. (30%); RYG (70%)
YD137076	Sapphire	460	45127 Yukon Inc. (30%); RYG (70%)

APPENDIX B

SAPPHIRE PROSPECT - FIELD PHOTOS

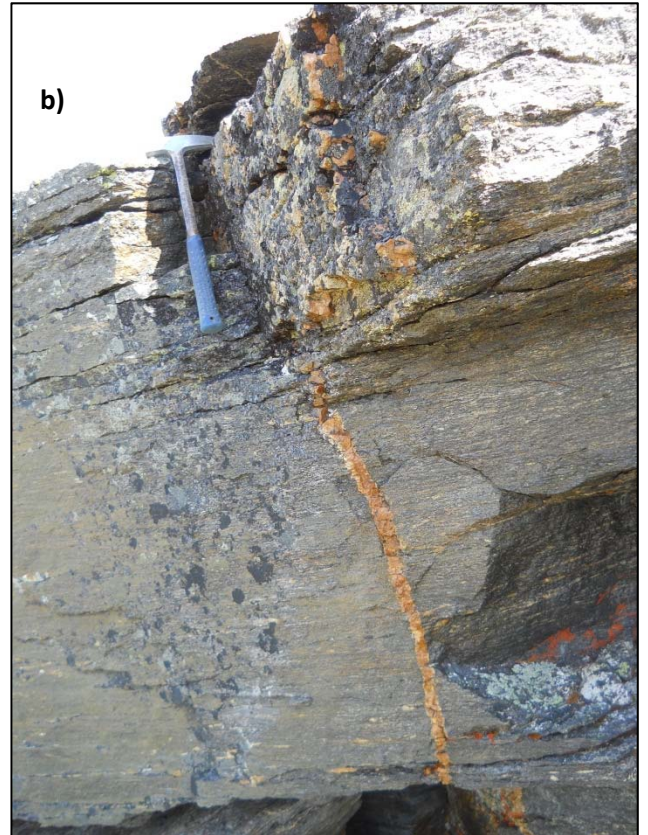


Plate 1: a) Quartz veining parallel to foliation in Kluane Schists.
b) Quartz veining perpendicular to foliation in Kluane Schists.



Plate 2: A diorite dike cross-cutting unit KSb in the southeast corner of the Sapphire prospect.



Plate 3: Plagioclase phyric dacite boulder of a high level intrusive/extrusive unit that was nowhere mapped in outcrop on the Sapphire property.



Plate 4: **a)** Contact between Hayden Lake pluton (rock hammer handle is resting on a sliver of granodiorite) and the Kluane Schist (rock hammer head is resting against KSb). **b)** Close-up of biotite $\pm$ hornblende granodiorite of the Hayden Lake Suite.



APPENDIX C

Geochemical Results

******Rock samples collected from the Sapphire prospect are highlighted in yellow (pp 24-51).



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Sapphire Prospect
Rock Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Ian Gendall
Receiving Lab: Canada-Whitehorse
Received: July 13, 2011
Report Date: July 28, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI11000568.1

CLIENT JOB INFORMATION

Project: BeaverCreek
Shipment ID: Haine001
P.O. Number
Number of Samples: 151

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Hua Jin

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	136	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01+3B04	150	Fire assay fusion Au by ICP-ES	50	Completed	VAN
1DX1	150	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Sapphire Prospect
Rock Geochemistry

Client:

Ryan Gold Corp.

600 - 666 Burrard St.

Vancouver BC V6C 1H2 Canada

Project:

BeaverCreek

Report Date:

July 28, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000568.1

	Method	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
40009	Rock	3.37	10	0.2	114.9	37.6	18	0.2	2.3	1.4	951	0.61	32.0	7.8	<0.1	78	0.4	17.1	<0.1	4
40010	Rock	2.97	11	0.2	124.0	0.8	77	0.1	61.4	34.6	826	5.92	19.9	12.6	0.3	41	0.1	1.7	<0.1	158
40011	Rock	2.35	367	0.3	51.4	1.8	26	0.3	26.5	27.2	324	3.50	11.7	303.2	<0.1	39	0.1	0.5	<0.1	64
41938	Rock Pulp	0.13	<2	1.3	24.2	5.0	42	<0.1	81.0	20.9	414	3.16	0.8	<0.5	1.4	197	<0.1	<0.1	<0.1	57
40012	Rock	2.68	24	0.2	2359	0.4	101	0.8	103.6	51.5	1079	6.98	2.8	10.5	0.2	51	0.8	0.3	<0.1	123
40753	Rock	1.86	<2	0.5	136.5	0.3	78	<0.1	72.4	37.1	865	5.39	3.5	2.1	0.2	57	<0.1	<0.1	<0.1	136
40754	Rock	2.65	3	0.2	69.3	0.2	40	<0.1	48.5	22.1	340	2.84	1.1	1.3	0.1	17	<0.1	0.2	<0.1	66
40755	Rock	2.07	<2	0.3	149.7	0.4	49	<0.1	26.2	23.8	702	4.06	15.0	2.2	0.2	30	<0.1	0.1	<0.1	154
40756	Rock	2.44	12	0.8	158.2	0.8	105	0.3	35.0	32.8	1294	7.48	7.8	6.9	0.1	97	0.2	0.1	<0.1	274
40013	Rock	2.29	<2	0.1	2.2	0.3	2	<0.1	1.2	0.5	28	0.25	0.8	1.8	<0.1	11	<0.1	0.2	<0.1	2
40014	Rock	1.47	<2	<0.1	4.2	2.4	17	<0.1	1.4	1.3	136	0.84	3.4	1.1	11.4	12	<0.1	<0.1	<0.1	14
40015	Rock	3.50	<2	0.2	2.5	0.5	1	<0.1	1.4	0.4	29	0.35	21.2	1.7	<0.1	<1	<0.1	0.4	<0.1	<2
41998	Rock	2.24	<2	0.3	4.0	0.5	9	<0.1	5.4	1.8	74	0.73	18.2	2.7	0.3	1	<0.1	<0.1	<0.1	6
41999	Rock	1.89	<2	0.2	2.6	<0.1	<1	<0.1	1.5	0.6	26	0.24	6.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2
41945	Rock Pulp	0.13	967	1.7	21.3	39.8	48	0.3	61.2	16.9	345	4.48	2.7	971.0	1.7	112	0.2	0.2	0.3	37
40758	Rock	2.56	<2	0.4	9.8	1.0	16	<0.1	7.3	2.8	134	1.29	1.4	1.8	0.7	6	<0.1	<0.1	<0.1	28
40759	Rock	2.67	4	0.3	8.3	2.1	12	<0.1	5.2	1.1	81	0.75	90.1	2.5	0.3	15	<0.1	0.1	<0.1	15
40760	Rock	2.62	<2	0.2	2.0	0.5	3	<0.1	1.8	0.8	42	0.35	5.8	1.1	<0.1	4	<0.1	0.2	<0.1	3
40761	Rock	2.09	<2	0.6	20.4	6.7	75	<0.1	30.3	11.8	467	3.02	41.6	<0.5	1.0	58	0.1	0.1	0.2	60
40762	Rock	2.36	<2	0.3	4.3	0.6	4	<0.1	3.5	0.8	43	0.48	7.4	0.8	0.2	2	<0.1	0.2	<0.1	5
40763	Rock	1.43	3	0.2	1.3	0.4	5	<0.1	1.9	0.7	37	0.41	81.1	3.8	0.1	<1	<0.1	0.3	<0.1	2
40764	Rock	0.92	417	0.9	38.8	7.7	75	0.2	36.9	6.3	138	4.15	2715	226.2	2.1	20	0.1	3.8	0.1	19
40765	Rock	1.67	<2	0.2	10.4	3.9	8	<0.1	2.8	0.9	58	0.64	10.7	2.6	0.2	5	<0.1	0.9	<0.1	4
40803	Rock	4.18	23	0.8	45.2	4.5	99	0.1	41.1	37.5	1338	8.99	73.8	13.6	0.2	27	0.2	0.2	<0.1	337
40016	Rock	2.01	8	0.5	910.9	0.6	54	0.2	61.4	29.4	701	4.90	1.5	10.2	0.1	126	0.1	<0.1	<0.1	116
40017	Rock	3.06	18	0.8	20.4	6.5	68	<0.1	5.9	5.8	476	1.98	327.2	17.9	0.4	31	0.5	0.8	0.3	5
41939	Rock Pulp	0.13	<2	1.4	26.7	5.2	45	<0.1	88.4	22.1	434	3.21	0.7	0.8	1.6	189	<0.1	<0.1	<0.1	56
41965	Rock	2.31	292	0.3	35.8	1.0	18	0.2	14.9	9.6	935	2.02	519.5	280.8	<0.1	147	<0.1	1.8	<0.1	40
41966	Rock	1.58	1308	0.5	55.5	2.3	30	0.4	24.6	16.5	2025	2.98	2187	1320	<0.1	319	0.1	4.1	<0.1	55
41967	Rock	1.66	160	0.6	28.6	0.8	18	0.1	15.6	8.6	749	1.47	217.1	212.2	<0.1	73	0.2	1.0	<0.1	41



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Client:

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600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project:

BeaverCreek

Report Date:

July 28, 2011

Page:

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Part 2

CERTIFICATE OF ANALYSIS

WHI11000568.1

Method	Analyte	Unit	MDL	1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
				0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
40009	Rock			0.003	<1	8	0.05	8	<0.001	<20	0.06	0.003	<0.01	<0.1	0.09	3.5	<0.1	0.39	<1	2.4	<0.2
40010	Rock			0.065	3	115	2.88	24	0.343	<20	2.67	0.025	0.08	<0.1	0.51	7.4	<0.1	0.58	10	5.1	<0.2
40011	Rock			0.055	<1	51	0.79	12	0.405	<20	1.31	0.005	<0.01	<0.1	0.06	2.7	<0.1	1.08	4	6.2	<0.2
41938	Rock Pulp			0.107	11	56	1.64	45	0.444	<20	1.46	0.552	0.36	<0.1	<0.01	0.2	<0.1	<0.05	5	<0.5	<0.2
40012	Rock			0.083	2	150	3.10	105	0.378	<20	3.39	0.007	0.03	<0.1	0.11	5.3	<0.1	0.13	13	1.3	<0.2
40753	Rock			0.065	2	103	2.58	42	0.297	<20	3.12	0.056	0.09	0.1	<0.01	4.0	<0.1	0.26	9	<0.5	<0.2
40754	Rock			0.054	2	143	1.56	10	0.233	<20	1.63	0.031	0.02	0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
40755	Rock			0.107	2	31	1.79	78	0.220	<20	1.98	0.045	0.01	<0.1	0.01	5.8	<0.1	<0.05	7	1.1	<0.2
40756	Rock			0.076	2	44	4.03	24	0.315	<20	4.14	0.010	0.02	<0.1	0.05	18.0	<0.1	0.42	12	8.2	<0.2
40013	Rock			0.001	<1	8	0.03	24	0.006	<20	0.07	0.006	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
40014	Rock			0.002	18	6	0.18	48	0.043	<20	0.52	0.060	0.16	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
40015	Rock			0.012	<1	15	0.02	3	<0.001	<20	0.05	<0.001	0.01	0.5	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
41998	Rock			0.010	1	16	0.13	22	0.009	<20	0.28	0.006	0.07	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
41999	Rock			<0.001	<1	15	<0.01	2	0.002	<20	0.02	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
41945	Rock Pulp			0.078	9	45	1.27	49	0.282	<20	1.18	0.512	0.32	<0.1	<0.01	0.5	0.5	2.73	4	1.3	<0.2
40758	Rock			0.034	3	29	0.27	107	0.059	<20	0.63	0.026	0.33	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
40759	Rock			0.004	1	11	0.20	33	0.022	<20	0.49	0.061	0.10	<0.1	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
40760	Rock			0.002	<1	16	0.04	8	0.003	<20	0.11	0.010	0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
40761	Rock			0.127	6	76	1.48	222	0.149	<20	2.03	0.109	0.45	<0.1	<0.01	4.3	0.1	0.16	8	<0.5	<0.2
40762	Rock			0.006	<1	20	0.06	13	0.006	<20	0.15	0.007	0.05	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
40763	Rock			0.009	<1	16	0.07	10	0.001	<20	0.14	0.003	0.03	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
40764	Rock			0.077	7	18	0.19	67	<0.001	<20	0.67	0.018	0.24	<0.1	0.01	2.2	<0.1	0.25	2	0.7	<0.2
40765	Rock			0.018	<1	18	0.09	13	<0.001	<20	0.28	0.027	0.06	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
40803	Rock			0.084	2	51	2.48	19	0.308	<20	2.74	0.028	<0.01	<0.1	0.02	9.2	<0.1	2.77	12	6.4	<0.2
40016	Rock			0.058	1	94	2.29	61	0.304	<20	2.54	0.027	0.05	<0.1	<0.01	1.7	<0.1	<0.05	12	0.6	<0.2
40017	Rock			0.069	5	4	0.09	109	0.003	<20	0.44	0.041	0.24	<0.1	0.08	0.7	<0.1	0.14	1	<0.5	<0.2
41939	Rock Pulp			0.101	12	57	1.64	45	0.447	<20	1.50	0.568	0.34	<0.1	<0.01	0.1	<0.1	<0.05	6	<0.5	<0.2
41965	Rock			0.016	<1	39	1.35	40	0.044	<20	0.88	0.009	0.04	<0.1	0.02	3.1	<0.1	0.13	2	<0.5	<0.2
41966	Rock			0.017	3	41	2.00	135	0.021	<20	0.97	0.006	0.07	0.1	0.04	8.8	<0.1	0.46	2	0.7	<0.2
41967	Rock			0.024	<1	38	0.83	37	0.043	<20	0.87	0.002	0.02	<0.1	<0.01	1.7	<0.1	0.07	2	0.7	<0.2



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July 28, 2011

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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
41968	Rock	2.53	91	10.3	16.7	0.5	9	0.1	4.1	2.9	605	0.82	438.2	120.9	<0.1	149	<0.1	1.9	<0.1	16
41969	Rock	1.85	11	0.4	488.3	0.7	11	0.2	6.7	4.5	405	1.30	2.7	21.9	<0.1	83	0.1	0.4	<0.1	52
41970	Rock	0.75	3071	21.7	1546	19.9	405	9.7	5.6	10.9	92	14.14	229.6	3190	<0.1	13	1.3	2.9	1.5	64
41971	Rock	2.25	<2	<0.1	15.0	0.3	21	<0.1	5.1	4.3	896	3.65	524.1	5.7	<0.1	214	<0.1	5.0	<0.1	60
41946	Rock Pulp	0.13	975	1.6	23.4	38.0	52	0.3	62.8	17.4	358	4.64	3.2	1070	1.6	114	0.2	0.2	0.3	37
41972	Rock	1.61	3	0.2	56.5	0.9	44	<0.1	23.2	13.9	701	3.58	21.6	<0.5	<0.1	169	<0.1	0.3	<0.1	96
41973	Rock	1.10	33	1.6	2784	0.5	34	0.6	51.7	19.7	348	3.00	16.3	29.1	0.2	36	0.4	0.5	<0.1	86
41974	Rock	1.53	22	0.5	2487	0.6	43	0.2	20.9	18.2	920	3.97	12.1	<0.5	<0.1	70	0.1	0.2	<0.1	136
41975	Rock	1.99	46	0.7	9967	4.5	76	5.5	21.1	23.0	1207	5.04	37.0	46.1	<0.1	13	3.2	<0.1	<0.1	106
41976	Rock	2.90	229	0.5	4285	0.6	64	0.4	25.9	15.2	776	3.46	9.0	20.1	0.1	44	0.6	<0.1	<0.1	102
41977	Rock	2.51	226	29.3	32.5	1.0	5	0.4	2.1	1.1	163	0.48	337.6	218.3	<0.1	53	<0.1	1.5	<0.1	5
41978	Rock	2.90	119	3.3	503.8	13.2	53	1.2	23.9	14.5	930	3.24	541.8	115.4	0.1	79	0.7	2.4	0.8	63
41979	Rock	0.48	19	0.5	401.2	0.6	58	0.4	24.2	25.4	745	4.64	9.1	21.8	0.2	51	0.2	0.1	<0.1	121
41940	Rock Pulp	0.13	<2	1.3	29.1	4.8	47	<0.1	90.6	22.6	435	3.22	0.8	1.3	1.4	200	<0.1	<0.1	<0.1	56
41980	Rock	0.95	74	4.1	108.5	7.5	82	0.7	13.6	8.3	65	1.77	183.9	75.2	<0.1	4	0.4	2.1	3.9	15
41981	Rock	1.31	122	1.3	244.8	2.7	55	0.3	44.7	20.1	296	3.94	137.6	114.6	0.3	31	0.6	2.1	<0.1	141
41982	Rock	1.04	3	<0.1	102.6	0.6	62	<0.1	26.8	18.6	929	4.44	14.8	2.0	<0.1	149	<0.1	2.5	<0.1	168
41983	Rock	1.82	49	85.9	10.6	1.1	7	0.1	9.6	4.0	831	0.84	223.7	49.5	<0.1	111	<0.1	1.4	0.1	10
41986	Rock	2.05	4	2.5	376.4	0.8	76	0.2	43.6	30.1	297	5.02	4.3	2.4	0.4	15	0.1	0.2	0.3	153
41987	Rock	1.47	<2	5.1	363.6	0.9	73	0.1	43.9	22.2	301	4.15	3.9	1.7	0.9	36	0.2	0.1	0.2	139
41988	Rock	2.03	57	2.9	180.0	3.8	66	0.5	52.3	29.5	1334	5.52	541.0	51.4	0.1	178	0.2	6.4	0.7	130
41989	Rock	2.44	200	285.8	56.8	4.5	37	0.3	37.8	16.6	1201	3.25	643.7	189.6	<0.1	62	0.2	2.0	0.4	79
41947	Rock Pulp	0.13	1022	1.6	30.5	38.8	52	0.3	65.7	18.4	360	4.68	2.7	998.0	1.8	113	0.3	0.2	0.3	38
41990	Rock	1.40	54	103.0	16.0	1.8	10	0.1	3.8	2.4	511	0.76	243.5	57.6	<0.1	45	0.1	1.0	0.2	8
41991	Rock	1.41	274	4.6	5034	3.0	81	7.7	13.9	11.0	266	3.57	39.3	349.8	<0.1	7	0.8	0.4	0.2	72
41992	Rock	1.61	59	0.7	4701	0.7	101	2.0	64.3	36.0	602	6.36	8.4	52.5	0.1	7	1.7	0.2	0.2	186
41993	Rock	1.32	158	0.9	211.8	1.8	45	1.2	26.1	14.4	840	3.91	273.2	175.1	<0.1	74	0.2	0.8	0.2	96
41994	Rock	2.07	100	0.7	6891	0.7	65	3.8	46.5	26.2	399	2.17	8.4	39.4	<0.1	43	3.8	0.3	<0.1	47
41995	Rock	2.36	4	0.3	11.9	1.9	98	<0.1	28.6	13.3	6322	2.08	7.9	<0.5	0.2	177	0.2	1.5	<0.1	5
41941	Rock Pulp	0.12	<2	1.3	27.8	5.8	43	<0.1	83.1	21.8	418	3.01	0.6	4.9	1.8	173	<0.1	<0.1	<0.1	54



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Report Date:

July 28, 2011

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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
41968	Rock	0.005	<1	16	0.21	14	0.001	<20	0.11	0.008	0.02	<0.1	0.11	1.7	<0.1	<0.05	<1	<0.5	<0.2
41969	Rock	0.024	1	31	0.26	6	0.227	<20	0.82	0.007	<0.01	<0.1	0.06	2.1	<0.1	<0.05	3	<0.5	<0.2
41970	Rock	0.015	<1	31	0.12	62	0.012	<20	0.20	0.040	0.06	<0.1	>50	1.5	<0.1	0.42	4	23.7	<0.2
41971	Rock	0.009	<1	16	6.85	17	0.002	<20	0.17	0.010	<0.01	0.8	0.90	4.3	<0.1	<0.05	<1	<0.5	<0.2
41946	Rock Pulp	0.088	9	45	1.28	62	0.267	<20	1.20	0.543	0.34	<0.1	<0.01	0.6	0.6	2.82	4	1.2	0.2
41972	Rock	0.006	<1	46	5.04	13	0.002	<20	0.22	0.009	<0.01	<0.1	0.27	8.0	<0.1	0.06	1	<0.5	<0.2
41973	Rock	0.060	2	100	1.34	7	0.327	<20	1.65	0.030	0.01	0.1	0.44	3.6	<0.1	0.09	6	1.1	<0.2
41974	Rock	0.038	2	38	1.27	36	0.089	<20	1.68	0.016	0.02	<0.1	0.03	9.3	<0.1	0.18	6	1.6	<0.2
41975	Rock	0.018	<1	33	1.59	13	0.074	<20	1.97	<0.001	0.02	<0.1	0.04	4.0	<0.1	0.53	6	6.9	<0.2
41976	Rock	0.050	2	78	0.96	51	0.183	<20	1.26	0.033	0.04	<0.1	0.07	4.2	<0.1	0.25	6	1.6	<0.2
41977	Rock	0.003	<1	19	0.25	7	0.001	<20	0.03	0.003	<0.01	<0.1	0.08	0.8	0.2	<0.05	<1	<0.5	<0.2
41978	Rock	0.035	1	35	0.83	23	0.037	<20	0.79	0.024	0.07	2.4	0.05	6.2	<0.1	0.18	3	1.2	0.5
41979	Rock	0.110	3	25	1.45	22	0.191	<20	2.19	0.006	0.07	0.2	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
41940	Rock Pulp	0.111	11	57	1.60	50	0.437	<20	1.54	0.582	0.36	<0.1	<0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
41980	Rock	0.005	<1	8	0.03	8	0.018	<20	0.16	0.002	<0.01	1.0	0.08	0.7	<0.1	<0.05	1	0.8	3.0
41981	Rock	0.106	3	89	1.14	101	0.240	<20	2.19	0.152	0.14	0.7	0.06	8.5	<0.1	0.06	10	0.9	0.4
41982	Rock	0.020	1	24	4.95	7	0.002	<20	0.20	0.007	0.01	0.1	0.31	9.9	<0.1	<0.05	<1	0.6	<0.2
41983	Rock	0.007	<1	35	2.00	9	0.004	<20	0.09	0.005	<0.01	<0.1	0.04	1.5	0.1	0.17	<1	<0.5	0.3
41986	Rock	0.195	5	45	2.24	26	0.098	<20	2.39	0.114	0.41	30.1	<0.01	5.7	0.2	0.95	10	2.3	<0.2
41987	Rock	0.263	9	49	2.28	37	0.118	<20	2.31	0.096	0.21	>100	<0.01	3.8	<0.1	1.07	8	5.3	<0.2
41988	Rock	0.049	2	70	2.87	104	0.046	<20	1.49	0.033	0.35	0.3	0.06	15.3	0.2	0.65	4	1.2	0.2
41989	Rock	0.022	2	55	1.46	21	0.026	<20	1.37	0.010	0.19	0.6	0.08	8.4	0.7	0.22	4	0.8	<0.2
41947	Rock Pulp	0.084	9	47	1.29	63	0.269	<20	1.22	0.531	0.33	<0.1	<0.01	0.7	0.5	2.85	4	0.7	<0.2
41990	Rock	0.005	<1	10	0.12	5	0.003	<20	0.11	0.005	0.02	<0.1	0.04	0.9	<0.1	0.18	<1	<0.5	<0.2
41991	Rock	0.025	<1	49	0.54	30	0.076	<20	0.72	0.049	0.05	0.2	0.10	2.2	<0.1	0.44	3	7.7	<0.2
41992	Rock	0.078	1	136	2.60	34	0.314	<20	3.03	0.075	0.16	0.2	0.04	4.1	<0.1	0.75	12	2.9	<0.2
41993	Rock	0.022	1	60	1.12	20	0.022	<20	1.18	0.021	0.04	0.2	0.02	7.5	<0.1	0.18	4	2.1	<0.2
41994	Rock	0.063	<1	36	0.38	16	0.109	<20	0.44	0.072	0.01	<0.1	0.04	1.5	<0.1	0.72	2	6.2	<0.2
41995	Rock	0.040	7	6	6.10	140	0.001	<20	0.08	0.009	0.02	<0.1	0.03	2.8	<0.1	<0.05	<1	0.9	<0.2
41941	Rock Pulp	0.112	12	53	1.56	46	0.390	<20	1.44	0.566	0.30	<0.1	<0.01	0.2	<0.1	<0.05	5	<0.5	<0.2



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Project: BeaverCreek
Report Date: July 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000568.1

	Method	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
41996	Rock	1.26	<2	0.2	25.2	0.2	<1	<0.1	1.0	0.4	29	0.28	10.4	2.9	<0.1	<1	<0.1	<0.1	<0.1	<2
41997	Rock	1.86	<2	0.3	3.9	0.8	2	<0.1	1.7	0.6	55	0.30	5.0	3.0	<0.1	2	<0.1	<0.1	<0.1	<2
42000	Rock	1.46	<2	0.3	9.3	0.7	4	<0.1	3.3	1.8	74	0.55	18.0	0.5	<0.1	2	<0.1	<0.1	<0.1	5
40018	Rock	1.99	<2	0.2	4.3	0.5	1	<0.1	2.3	0.6	39	0.52	3.8	3.3	<0.1	1	<0.1	<0.1	<0.1	<2
40019	Rock	1.42	<2	0.1	3.2	0.2	1	<0.1	1.4	0.4	47	0.31	2.3	3.3	<0.1	1	<0.1	<0.1	<0.1	<2
41948	Rock Pulp	0.13	930	1.5	22.4	43.1	44	0.2	56.6	17.6	341	4.29	3.1	860.9	1.8	101	0.1	0.3	0.3	35
40020	Rock	1.65	<2	0.3	7.0	0.9	7	<0.1	4.1	1.4	69	0.63	4.5	2.5	0.2	1	<0.1	0.2	<0.1	4
40021	Rock	1.44	<2	0.2	3.7	0.3	3	<0.1	4.1	2.0	62	0.34	2.8	2.2	<0.1	<1	<0.1	0.1	<0.1	<2
40804	Rock	3.50	3	0.3	172.1	0.3	59	<0.1	37.6	34.5	658	4.76	3.4	3.4	0.1	38	<0.1	0.1	<0.1	155
40805	Rock	2.44	7	0.3	146.4	1.2	71	<0.1	42.0	34.2	786	5.14	3.8	1.3	0.3	28	0.1	0.2	<0.1	160
40806	Rock	3.25	6	0.3	163.7	0.2	55	<0.1	52.1	32.3	1191	4.41	2.9	2.6	<0.1	33	0.1	0.1	<0.1	137
40807	Rock	3.32	4	0.4	108.6	0.4	39	<0.1	34.7	24.8	1734	3.44	4.1	4.6	<0.1	27	0.2	<0.1	<0.1	125
40808	Rock	3.30	28	0.2	144.4	0.7	51	<0.1	30.5	29.3	1054	4.01	6.3	3.3	0.1	57	0.2	0.1	<0.1	136
41942	Rock Pulp	0.13	<2	1.4	27.4	5.9	44	<0.1	84.0	22.3	418	3.18	<0.5	0.7	1.7	197	<0.1	<0.1	<0.1	55
40809	Rock	2.71	7	0.2	76.8	0.3	27	<0.1	31.3	15.3	911	2.96	3.3	3.5	<0.1	38	<0.1	<0.1	<0.1	91
40810	Rock	2.67	11	0.4	122.1	0.3	39	<0.1	51.9	25.6	1195	3.71	3.8	6.1	<0.1	41	<0.1	0.1	<0.1	147
40811	Rock	3.33	2	0.3	121.9	0.2	39	<0.1	53.5	25.5	845	3.75	2.5	1.1	0.1	52	0.1	<0.1	<0.1	158
40812	Rock	3.09	2	0.3	130.7	0.2	41	<0.1	53.8	27.0	819	3.95	1.4	<0.5	0.1	37	<0.1	<0.1	<0.1	158
40813	Rock	2.79	83	0.2	125.1	0.3	38	<0.1	32.0	23.9	755	3.50	4.0	<0.5	<0.1	37	<0.1	0.2	<0.1	114
40814	Rock	3.18	12	0.2	90.2	0.1	27	<0.1	23.1	16.9	694	2.47	1.9	0.7	<0.1	42	<0.1	0.1	<0.1	86
40815	Rock	3.24	4	0.2	149.6	0.2	38	<0.1	32.3	24.0	763	3.62	1.4	2.4	<0.1	36	<0.1	0.2	<0.1	118
40816	Rock	3.47	7	0.2	144.2	0.2	40	<0.1	33.0	24.8	777	4.14	1.4	2.6	<0.1	42	0.1	0.2	<0.1	128
40817	Rock	3.11	5	0.4	164.7	0.3	56	<0.1	45.4	33.9	970	4.92	1.6	1.8	<0.1	19	0.1	<0.1	<0.1	191
40818	Rock	2.96	5	0.3	140.4	0.2	48	<0.1	37.4	31.3	962	4.61	2.2	5.5	<0.1	29	0.1	<0.1	<0.1	163
40819	Rock	2.79	10	1.1	90.4	2.5	44	<0.1	38.8	20.5	903	3.29	5.9	4.8	0.2	75	0.5	<0.1	<0.1	107
41949	Rock Pulp	0.13	1035	1.7	22.7	45.5	47	0.3	59.8	18.3	326	4.44	3.0	1014	1.9	113	0.3	0.3	0.2	37
40820	Rock	3.05	3	0.2	157.3	0.5	60	<0.1	67.9	37.7	1134	5.16	3.8	1.1	0.2	34	0.1	<0.1	<0.1	182
40821	Rock	2.68	7	0.2	110.7	0.5	41	<0.1	50.5	25.1	734	3.38	2.5	<0.5	0.1	34	0.2	<0.1	<0.1	132
40822	Rock	3.12	3	0.3	122.1	0.2	48	<0.1	62.3	29.2	857	4.23	2.4	<0.5	<0.1	37	<0.1	<0.1	<0.1	137
41943	Rock Pulp	0.13	<2	1.3	27.7	5.8	43	<0.1	84.0	22.4	431	3.13	0.7	<0.5	1.9	188	<0.1	<0.1	<0.1	55



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Rock Geochemistry

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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
41996	Rock	<0.001	<1	8	<0.01	2	0.002	<20	0.02	0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	0.5	<0.2
41997	Rock	0.002	<1	15	0.03	6	0.001	<20	0.05	0.005	0.01	0.2	<0.01	0.1	<0.1	<0.05	<1	0.6	<0.2
42000	Rock	0.016	<1	14	0.07	18	0.006	<20	0.16	0.008	0.04	<0.1	<0.01	0.3	<0.1	<0.05	<1	0.6	<0.2
40018	Rock	0.016	<1	15	0.03	3	<0.001	<20	0.06	0.002	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
40019	Rock	0.001	<1	12	0.03	5	<0.001	<20	0.07	0.003	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
41948	Rock Pulp	0.085	9	41	1.22	55	0.258	<20	1.11	0.507	0.29	<0.1	<0.01	0.6	0.5	2.65	4	0.7	<0.2
40020	Rock	0.007	<1	21	0.08	4	0.002	<20	0.15	0.002	0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
40021	Rock	0.012	<1	12	0.03	2	<0.001	<20	0.04	<0.001	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
40804	Rock	0.046	1	39	3.03	41	0.367	<20	2.98	0.020	0.04	0.1	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
40805	Rock	0.065	3	67	2.81	59	0.400	<20	2.89	0.053	0.04	0.1	0.03	5.6	<0.1	<0.05	9	<0.5	<0.2
40806	Rock	0.056	1	123	2.43	38	0.359	<20	2.63	0.018	0.03	<0.1	0.02	3.9	<0.1	0.08	6	0.9	<0.2
40807	Rock	0.037	<1	159	1.95	47	0.268	<20	2.46	0.019	0.05	<0.1	<0.01	4.7	<0.1	0.06	6	0.8	<0.2
40808	Rock	0.072	1	53	2.17	57	0.242	<20	2.87	0.021	0.03	<0.1	0.01	5.9	<0.1	<0.05	7	<0.5	<0.2
41942	Rock Pulp	0.109	13	58	1.66	53	0.428	<20	1.51	0.580	0.37	<0.1	<0.01	0.3	<0.1	<0.05	6	<0.5	<0.2
40809	Rock	0.026	<1	85	1.75	35	0.153	<20	2.00	0.017	0.02	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
40810	Rock	0.034	1	131	2.05	40	0.242	<20	3.31	0.021	0.01	<0.1	<0.01	6.3	<0.1	<0.05	8	<0.5	<0.2
40811	Rock	0.036	1	154	2.08	56	0.272	<20	3.18	0.027	0.02	<0.1	<0.01	7.1	<0.1	<0.05	7	<0.5	<0.2
40812	Rock	0.036	1	151	2.07	28	0.273	<20	3.60	0.022	<0.01	<0.1	<0.01	6.1	<0.1	<0.05	8	0.5	<0.2
40813	Rock	0.048	<1	144	1.83	61	0.289	<20	2.38	0.032	0.06	<0.1	<0.01	4.7	<0.1	0.08	5	<0.5	<0.2
40814	Rock	0.027	<1	106	1.22	46	0.224	<20	1.66	0.025	0.06	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
40815	Rock	0.053	<1	145	1.92	72	0.309	<20	2.41	0.034	0.10	<0.1	0.01	5.3	<0.1	0.07	5	<0.5	<0.2
40816	Rock	0.050	<1	149	2.15	51	0.328	<20	2.71	0.032	0.07	<0.1	<0.01	5.7	<0.1	0.09	6	0.7	<0.2
40817	Rock	0.049	<1	104	2.55	50	0.376	<20	3.63	0.027	0.07	<0.1	<0.01	6.1	<0.1	<0.05	9	<0.5	<0.2
40818	Rock	0.039	<1	43	2.71	42	0.313	<20	3.17	0.019	0.05	<0.1	<0.01	5.6	<0.1	<0.05	9	<0.5	<0.2
40819	Rock	0.031	1	105	2.02	40	0.172	<20	2.23	0.009	0.03	<0.1	<0.01	4.0	<0.1	0.07	6	2.5	<0.2
41949	Rock Pulp	0.084	10	47	1.26	64	0.289	<20	1.18	0.521	0.37	<0.1	0.01	0.7	0.5	2.64	4	0.6	<0.2
40820	Rock	0.052	2	227	3.11	53	0.296	<20	4.40	0.016	0.05	<0.1	<0.01	8.4	<0.1	<0.05	10	<0.5	<0.2
40821	Rock	0.034	1	146	1.96	56	0.219	<20	2.77	0.016	0.04	<0.1	<0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
40822	Rock	0.036	<1	140	2.24	42	0.241	<20	3.30	0.026	0.01	<0.1	<0.01	5.7	<0.1	<0.05	7	<0.5	<0.2
41943	Rock Pulp	0.111	12	54	1.60	52	0.415	<20	1.48	0.568	0.34	<0.1	<0.01	0.5	<0.1	<0.05	6	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT Wgt kg 0.01	3B-50 Au ppb 2	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01
40823	Rock	2.93	3	0.5	120.8	0.3	45	<0.1	49.8	32.4	823	4.29	2.1	3.7	0.1	34	0.1	<0.1	<0.1	162	3.67
40824	Rock	2.89	6	0.5	116.5	0.2	38	<0.1	34.2	26.6	739	3.73	2.0	1.2	<0.1	44	<0.1	<0.1	<0.1	141	4.30
40825	Rock	2.51	5	1.0	66.9	10.8	99	0.4	65.0	14.9	863	1.85	13.7	<0.5	0.9	68	0.4	0.4	0.1	18	2.02
40826	Rock	2.89	<2	1.3	37.5	8.7	67	0.1	13.7	12.2	876	2.48	16.8	<0.5	1.6	66	0.5	0.2	0.2	28	1.09
40827	Rock	2.83	<2	0.8	30.0	9.4	62	0.1	18.8	13.7	747	2.28	17.2	<0.5	1.3	62	0.2	0.2	0.1	24	0.91
40828	Rock	2.66	157	0.4	119.0	0.6	52	0.1	41.6	31.7	1013	4.91	441.9	164.4	<0.1	49	0.2	1.6	<0.1	129	2.53
40829	Rock	2.94	19	0.6	116.0	0.6	48	<0.1	35.7	26.0	685	4.02	75.0	24.7	0.1	48	0.2	1.0	<0.1	133	2.72
40830	Rock	2.73	4	0.9	122.8	0.6	60	<0.1	37.2	28.2	1587	4.52	9.9	10.6	0.1	96	0.1	0.2	<0.1	199	5.33
41950	Rock Pulp	0.13	1010	1.6	22.9	47.9	47	0.3	61.2	17.6	360	4.64	3.4	944.2	2.0	107	0.2	0.3	1.2	38	0.48
40831	Rock	2.80	2	0.2	138.3	0.2	70	<0.1	41.9	36.2	847	5.82	4.2	0.8	0.1	81	0.2	<0.1	<0.1	210	4.02
40832	Rock	2.77	2	1.9	99.4	0.5	37	<0.1	47.8	21.5	755	3.43	3.5	2.5	0.1	24	0.1	<0.1	<0.1	127	2.31
40833	Rock	3.26	<2	0.2	146.1	0.2	57	<0.1	69.1	34.8	866	5.48	1.9	2.9	<0.1	13	0.1	<0.1	<0.1	169	1.96
40834	Rock	3.12	2	0.3	127.8	0.2	48	<0.1	61.4	31.4	1034	4.38	1.8	<0.5	0.1	41	<0.1	<0.1	<0.1	154	4.62
40835	Rock	3.20	66	0.3	111.1	0.6	38	<0.1	46.7	24.5	803	3.47	2.2	1.9	0.1	58	<0.1	0.1	<0.1	132	5.20
41944	Rock Pulp	0.13	<2	1.1	26.8	5.8	41	<0.1	77.6	19.8	397	2.93	1.4	1.0	1.6	183	<0.1	<0.1	<0.1	51	0.59
40836	Rock	2.96	<2	0.3	139.4	0.3	47	<0.1	56.4	27.9	792	4.18	2.3	0.9	<0.1	23	<0.1	0.1	<0.1	159	2.69
40837	Rock	3.62	<2	0.3	88.9	0.5	36	<0.1	40.1	20.5	806	3.56	1.7	<0.5	<0.1	58	<0.1	<0.1	<0.1	117	5.80
40838	Rock	3.31	44	0.2	108.3	0.3	41	<0.1	35.2	24.1	697	3.83	1.4	<0.5	<0.1	36	<0.1	<0.1	<0.1	135	4.11
40839	Rock	2.96	19	0.5	124.6	0.3	41	<0.1	36.3	26.3	738	3.60	2.3	4.3	<0.1	33	<0.1	<0.1	<0.1	148	3.84
40840	Rock	2.94	<2	0.2	2.8	1.8	20	<0.1	5.4	2.2	5574	1.09	4.3	<0.5	0.2	156	<0.1	0.3	<0.1	6	9.37
40841	Rock	3.22	<2	0.2	1.8	2.4	19	<0.1	6.8	2.5	5606	1.05	4.9	<0.5	0.3	167	<0.1	0.2	<0.1	5	11.42
40842	Rock	3.44	2	0.3	7.4	1.3	26	<0.1	8.5	3.8	6184	1.11	6.9	<0.5	0.3	145	<0.1	1.1	<0.1	4	10.19
40843	Rock	3.22	2	0.2	4.5	1.5	20	<0.1	7.6	2.9	4877	1.00	3.4	<0.5	0.3	134	<0.1	0.5	<0.1	4	9.12
40844	Rock	3.21	<2	0.2	4.9	1.7	22	<0.1	7.3	3.0	5906	1.10	4.6	<0.5	0.3	170	<0.1	0.3	<0.1	4	10.73
40845	Rock	3.26	<2	0.2	2.4	2.4	19	<0.1	6.7	2.4	4570	0.92	3.7	<0.5	0.2	170	<0.1	0.3	<0.1	3	9.11
40846	Rock	3.18	<2	0.2	9.1	2.3	23	<0.1	7.7	2.8	5502	0.97	4.3	<0.5	0.2	156	<0.1	0.8	<0.1	4	9.32
40847	Rock	3.07	<2	0.1	1.8	6.0	15	<0.1	6.8	2.2	4490	0.83	3.5	<0.5	0.2	138	<0.1	0.4	<0.1	4	8.32
40848	Rock	3.29	2	0.1	5.5	2.9	19	<0.1	6.4	2.4	4883	0.98	4.8	<0.5	0.3	141	<0.1	0.6	<0.1	3	8.87
40849	Rock	2.57	2	0.2	10.6	2.1	18	<0.1	4.9	2.1	3505	0.77	3.8	<0.5	0.3	138	<0.1	0.8	<0.1	4	7.38
40850	Rock	3.11	4	0.1	9.0	2.7	20	<0.1	7.3	2.5	4425	0.88	6.4	<0.5	0.5	136	<0.1	0.7	<0.1	3	8.00



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Part 2

CERTIFICATE OF ANALYSIS

WHI11000568.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
40823	Rock	0.036	<1	106	2.32	34	0.250	<20	3.65	0.024	0.01	<0.1	<0.01	6.6	<0.1	<0.05	9	<0.5
40824	Rock	0.031	<1	60	1.91	33	0.229	<20	3.18	0.025	0.01	<0.1	<0.01	5.5	<0.1	<0.05	8	<0.5
40825	Rock	0.020	9	19	0.56	151	0.027	<20	0.81	0.006	0.12	<0.1	0.03	1.5	<0.1	<0.05	3	2.5
40826	Rock	0.038	4	16	0.73	265	0.131	<20	1.50	0.020	0.17	0.1	0.05	2.6	<0.1	<0.05	4	0.9
40827	Rock	0.067	5	20	0.68	197	0.081	<20	1.36	0.016	0.15	0.1	0.04	2.0	<0.1	<0.05	4	0.8
40828	Rock	0.030	1	73	2.90	194	0.144	<20	2.50	0.019	0.10	<0.1	0.01	13.0	<0.1	0.09	6	0.6
40829	Rock	0.033	2	57	2.11	213	0.183	<20	2.19	0.033	0.09	<0.1	<0.01	8.3	<0.1	0.07	6	0.8
40830	Rock	0.040	3	43	2.88	26	0.186	<20	2.72	0.011	<0.01	<0.1	<0.01	14.3	<0.1	<0.05	9	<0.5
41950	Rock Pulp	0.086	10	48	1.30	62	0.293	<20	1.21	0.530	0.34	<0.1	0.01	0.7	0.5	2.78	4	0.6
40831	Rock	0.053	2	45	4.13	69	0.120	<20	3.93	0.004	0.05	<0.1	<0.01	13.6	<0.1	<0.05	10	0.8
40832	Rock	0.034	1	133	2.11	30	0.213	<20	2.58	0.016	0.02	<0.1	<0.01	5.5	<0.1	<0.05	6	0.9
40833	Rock	0.042	<1	185	3.30	61	0.295	<20	4.09	0.021	0.05	<0.1	0.01	6.0	<0.1	<0.05	9	<0.5
40834	Rock	0.032	1	153	2.89	25	0.225	<20	4.00	0.010	0.02	<0.1	<0.01	6.6	<0.1	<0.05	9	<0.5
40835	Rock	0.028	1	131	2.16	25	0.225	<20	3.13	0.016	0.02	<0.1	0.07	6.1	<0.1	<0.05	7	<0.5
41944	Rock Pulp	0.099	12	51	1.50	47	0.417	<20	1.42	0.555	0.31	<0.1	0.02	0.5	<0.1	<0.05	5	<0.5
40836	Rock	0.036	<1	167	2.45	36	0.275	<20	3.33	0.029	0.03	<0.1	0.04	6.1	<0.1	<0.05	8	<0.5
40837	Rock	0.025	<1	106	2.09	35	0.208	<20	2.75	0.015	0.02	<0.1	0.04	5.1	<0.1	0.06	6	<0.5
40838	Rock	0.030	<1	67	2.20	38	0.239	<20	3.04	0.018	0.02	<0.1	0.01	6.1	<0.1	<0.05	7	<0.5
40839	Rock	0.031	1	62	1.92	34	0.236	<20	3.21	0.022	0.02	<0.1	0.01	6.5	<0.1	0.07	8	<0.5
40840	Rock	0.085	9	3	5.12	249	0.003	<20	0.11	0.011	0.04	<0.1	0.03	2.6	<0.1	0.09	<1	<0.5
40841	Rock	0.023	8	3	5.81	169	0.002	<20	0.07	0.011	0.02	<0.1	0.02	2.4	<0.1	0.11	<1	<0.5
40842	Rock	0.015	9	2	6.29	178	<0.001	<20	0.07	0.006	0.04	<0.1	0.05	2.0	<0.1	0.10	<1	<0.5
40843	Rock	0.016	6	2	5.12	131	<0.001	<20	0.05	0.010	0.02	<0.1	0.03	1.9	<0.1	0.08	<1	<0.5
40844	Rock	0.020	9	3	6.02	201	<0.001	<20	0.07	0.009	0.03	<0.1	0.03	2.3	<0.1	0.10	<1	<0.5
40845	Rock	0.018	7	3	4.45	227	<0.001	<20	0.06	0.010	0.02	<0.1	0.03	1.8	<0.1	0.08	<1	<0.5
40846	Rock	0.020	7	3	5.23	265	<0.001	<20	0.06	0.012	0.02	<0.1	0.09	1.8	<0.1	0.09	<1	<0.5
40847	Rock	0.029	7	3	4.35	215	<0.001	<20	0.05	0.011	0.02	<0.1	0.02	1.7	<0.1	0.07	<1	<0.5
40848	Rock	0.024	7	3	4.89	286	<0.001	<20	0.10	0.007	0.04	<0.1	0.03	1.4	<0.1	0.10	<1	<0.5
40849	Rock	0.021	6	2	3.30	271	0.001	<20	0.13	0.005	0.06	<0.1	0.03	1.4	<0.1	0.09	<1	<0.5
40850	Rock	0.033	10	3	3.35	318	0.001	<20	0.12	0.007	0.07	<0.1	0.04	1.5	<0.1	0.10	<1	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
41913	Rock	3.03	3	0.1	11.5	2.1	20	<0.1	6.3	3.2	4058	0.88	2.8	<0.5	0.3	129	0.1	0.7	<0.1	3
41914	Rock	3.14	2	0.2	9.3	2.7	24	<0.1	7.9	3.3	3918	0.79	4.7	0.7	0.3	118	0.2	0.6	<0.1	3
41915	Rock	2.92	3	0.1	11.7	2.4	23	<0.1	7.2	2.7	5782	1.07	7.0	<0.5	0.3	177	<0.1	1.0	<0.1	5
41916	Rock	2.91	3	<0.1	12.7	2.0	23	<0.1	7.4	3.2	5117	1.03	3.5	<0.5	0.3	145	0.1	0.8	<0.1	3
41917	Rock	3.22	5	0.1	12.0	22.7	26	0.1	9.4	3.5	3913	0.87	16.3	<0.5	0.3	129	0.1	1.3	0.1	4
41918	Rock	3.58	<2	0.4	179.3	0.7	50	<0.1	49.8	25.6	1065	3.99	25.6	<0.5	0.2	228	<0.1	0.2	<0.1	122
41919	Rock	3.52	4	0.2	64.1	0.6	39	<0.1	48.0	22.4	734	3.80	12.2	<0.5	<0.1	172	<0.1	<0.1	<0.1	97
41920	Rock	2.94	<2	0.3	48.3	1.1	27	<0.1	25.2	13.0	611	2.27	14.4	<0.5	0.2	327	<0.1	0.1	<0.1	49
41921	Rock	3.69	17	1.4	152.8	1.0	66	<0.1	64.1	28.5	719	4.75	19.2	<0.5	0.3	112	0.1	0.1	<0.1	99
41922	Rock	3.05	<2	0.4	201.4	0.9	75	<0.1	58.6	31.2	790	6.04	29.4	<0.5	0.2	108	0.2	0.2	<0.1	182
41923	Rock	3.05	<2	0.1	121.1	0.7	59	<0.1	58.4	31.4	867	5.09	10.3	<0.5	0.2	113	<0.1	<0.1	<0.1	97
41924	Rock	3.29	94	0.2	91.0	0.8	58	<0.1	47.7	26.6	906	5.13	4.9	1.8	0.1	230	<0.1	<0.1	<0.1	134
41701	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
41925	Rock	3.36	3	0.2	109.3	0.6	60	<0.1	85.4	32.2	816	5.54	10.1	<0.5	0.2	123	0.1	<0.1	<0.1	116
41926	Rock	2.68	<2	0.1	71.6	0.7	59	<0.1	76.7	32.1	813	5.31	8.0	<0.5	0.2	57	<0.1	<0.1	<0.1	117
41927	Rock	2.72	257	0.6	98.3	0.6	49	<0.1	40.3	23.1	671	3.87	15.6	<0.5	0.2	156	0.1	<0.1	<0.1	97
41928	Rock	3.01	2	0.5	112.6	0.7	56	<0.1	48.4	25.3	696	4.60	15.3	<0.5	0.2	136	0.1	<0.1	<0.1	118
41929	Rock	3.11	<2	0.6	84.1	0.9	47	<0.1	38.8	21.0	727	3.80	13.7	<0.5	0.2	219	<0.1	<0.1	<0.1	95
41930	Rock	3.15	4	0.6	110.6	2.0	53	<0.1	46.7	23.2	778	4.05	31.5	<0.5	0.2	230	0.2	<0.1	0.2	108
41931	Rock	2.77	<2	0.3	173.1	0.7	65	<0.1	76.3	30.2	671	5.09	12.6	4.2	0.3	98	<0.1	<0.1	<0.1	114
41932	Rock	3.43	8	0.9	127.3	0.9	75	<0.1	65.3	29.7	792	4.85	22.2	2.8	0.3	167	0.1	0.1	<0.1	97
41933	Rock	3.15	<2	0.7	121.3	0.8	63	<0.1	62.6	27.8	835	4.52	23.1	3.5	0.2	171	0.1	0.1	<0.1	108
41934	Rock	3.24	4	2.1	116.5	1.3	62	<0.1	54.7	27.6	871	4.69	29.1	4.4	0.3	178	0.1	0.2	<0.1	130
41935	Rock	2.90	3	0.6	110.5	0.8	58	<0.1	52.1	25.3	919	4.29	49.2	4.1	0.2	175	0.2	0.3	<0.1	108
41936	Rock	2.50	6	0.5	135.1	1.1	67	<0.1	56.3	29.6	831	4.88	43.7	4.7	0.2	131	0.2	0.2	<0.1	138
41937	Rock	2.61	<2	0.5	119.7	1.4	55	<0.1	51.5	26.0	821	4.27	19.0	0.6	0.2	178	<0.1	0.2	<0.1	109
40769	Rock	1.83	4	0.3	12.2	2.0	8	<0.1	15.1	4.1	152	1.43	6.4	3.1	1.3	9	<0.1	<0.1	<0.1	29
40770	Rock	1.98	<2	0.7	19.5	4.1	109	<0.1	47.8	20.2	428	4.01	6.2	1.8	1.0	103	0.1	<0.1	<0.1	99
40766	Rock	2.50	3	0.5	99.0	0.9	73	<0.1	54.9	28.4	1152	5.00	20.8	5.9	0.1	15	<0.1	<0.1	<0.1	239
40768	Rock	2.13	<2	0.5	62.1	3.8	75	<0.1	36.5	22.6	926	4.72	4.9	1.1	0.7	45	<0.1	0.2	<0.1	121



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Part 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
				0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
41913	Rock			0.021	6	2	3.41	229	<0.001	<20	0.09	0.007	0.05	<0.1	0.02	1.2	<0.1	0.07	<1	<0.5	<0.2
41914	Rock			0.027	7	<1	3.25	216	<0.001	<20	0.10	0.008	0.05	<0.1	0.03	1.5	<0.1	0.07	<1	<0.5	<0.2
41915	Rock			0.027	7	3	5.17	238	<0.001	<20	0.09	0.012	0.04	<0.1	0.05	2.2	<0.1	0.09	<1	<0.5	<0.2
41916	Rock			0.031	7	2	4.05	251	0.001	<20	0.10	0.008	0.05	<0.1	0.02	2.2	<0.1	0.09	<1	<0.5	<0.2
41917	Rock			0.019	7	2	3.63	223	<0.001	<20	0.10	0.010	0.04	<0.1	0.07	1.7	<0.1	0.08	<1	<0.5	<0.2
41918	Rock			0.037	2	68	2.55	58	0.166	<20	2.39	0.011	0.06	<0.1	<0.01	9.7	<0.1	0.10	8	<0.5	<0.2
41919	Rock			0.029	1	63	2.20	46	0.221	<20	2.44	0.027	0.10	<0.1	0.02	5.1	<0.1	0.06	7	<0.5	<0.2
41920	Rock			0.026	2	36	1.31	42	0.098	<20	1.14	0.007	0.11	<0.1	0.01	5.6	<0.1	0.12	3	<0.5	<0.2
41921	Rock			0.207	4	94	3.04	50	0.145	<20	2.89	0.007	0.21	0.1	0.01	7.8	<0.1	<0.05	9	<0.5	<0.2
41922	Rock			0.060	3	89	3.80	66	0.252	<20	3.62	0.007	0.52	<0.1	0.01	17.1	<0.1	<0.05	11	<0.5	<0.2
41923	Rock			0.040	2	67	3.64	46	0.271	<20	3.32	0.003	0.26	<0.1	0.01	8.4	<0.1	<0.05	8	<0.5	<0.2
41924	Rock			0.041	3	79	3.57	39	0.068	<20	3.11	0.005	0.11	<0.1	<0.01	11.2	<0.1	0.07	10	0.7	<0.2
41701	Rock			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
41925	Rock			0.048	3	108	4.04	45	0.155	<20	3.55	0.003	0.16	<0.1	0.01	10.5	<0.1	<0.05	9	<0.5	<0.2
41926	Rock			0.044	2	122	3.74	45	0.305	<20	3.33	0.008	0.33	<0.1	0.02	9.5	<0.1	<0.05	9	<0.5	<0.2
41927	Rock			0.058	2	72	2.13	38	0.265	<20	2.23	0.010	0.21	<0.1	<0.01	6.6	<0.1	0.05	7	<0.5	<0.2
41928	Rock			0.055	3	81	2.79	53	0.278	<20	2.81	0.007	0.36	<0.1	<0.01	10.8	<0.1	<0.05	8	<0.5	<0.2
41929	Rock			0.053	2	63	2.26	45	0.267	<20	2.30	0.007	0.26	<0.1	0.01	8.0	<0.1	0.08	6	<0.5	<0.2
41930	Rock			0.049	3	79	2.65	43	0.270	<20	2.35	0.010	0.21	<0.1	0.01	8.8	<0.1	0.08	7	0.6	<0.2
41931	Rock			0.071	3	151	3.29	39	0.247	<20	3.09	0.006	0.17	<0.1	<0.01	7.1	<0.1	<0.05	9	<0.5	<0.2
41932	Rock			0.073	2	88	3.11	42	0.182	<20	3.04	0.002	0.20	<0.1	1.25	6.3	<0.1	0.07	9	1.1	<0.2
41933	Rock			0.072	2	90	2.89	36	0.180	<20	2.85	0.004	0.20	<0.1	0.03	8.3	<0.1	0.06	8	0.9	<0.2
41934	Rock			0.293	4	99	2.80	32	0.118	<20	2.82	0.008	0.08	0.2	0.31	7.5	<0.1	0.08	8	0.8	<0.2
41935	Rock			0.066	3	71	2.57	85	0.200	<20	2.57	0.005	0.13	<0.1	<0.01	7.7	<0.1	0.07	8	1.3	<0.2
41936	Rock			0.073	3	86	2.79	53	0.214	<20	2.76	0.009	0.11	<0.1	0.14	7.7	<0.1	0.05	9	0.9	<0.2
41937	Rock			0.067	3	77	2.59	36	0.172	<20	2.53	0.006	0.10	<0.1	<0.01	7.9	<0.1	0.07	7	1.4	<0.2
40769	Rock			0.044	4	20	0.40	47	0.036	<20	0.82	0.029	0.21	<0.1	0.46	1.9	<0.1	<0.05	2	<0.5	<0.2
40770	Rock			0.303	18	67	2.13	905	0.349	<20	2.94	0.189	1.63	<0.1	<0.01	3.6	0.3	<0.05	11	<0.5	<0.2
40766	Rock			0.055	2	142	2.81	8	0.278	<20	2.83	0.029	<0.01	<0.1	0.05	8.8	<0.1	0.12	10	0.9	<0.2
40768	Rock			0.081	3	67	1.77	45	0.227	<20	2.85	0.032	0.09	0.2	<0.01	4.9	<0.1	0.09	9	0.8	<0.2



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CERTIFICATE OF ANALYSIS

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	Method	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
40701	Rock Pulp	0.13	964	1.5	24.5	46.8	45	0.3	60.6	18.1	355	4.37	2.3	970.5	2.2	113	0.2	0.3	0.2	37



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CERTIFICATE OF ANALYSIS

WHI11000568.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
40701	Rock Pulp	0.085	9	30	1.27	60	0.273	<20	1.16	0.523	0.32	<0.1	<0.01	0.6	0.5	2.70	4	1.0



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QUALITY CONTROL REPORT

WHI11000568.1

Method	Analyte	Unit	MDL	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
				Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
				kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
				0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																							
40013	Rock	2.29	<2	0.1	2.2	0.3	2	<0.1	1.2	0.5	28	0.25	0.8	1.8	<0.1	11	<0.1	0.2	<0.1	2	0.04		
REP 40013	QC	<2																					
41945	Rock Pulp	0.13	967	1.7	21.3	39.8	48	0.3	61.2	16.9	345	4.48	2.7	971.0	1.7	112	0.2	0.2	0.3	37	0.48		
REP 41945	QC	1.5 25.5 41.3 47 0.3 59.1 17.1 355 4.45 2.8 1047 1.8 112 0.2 0.2 0.3 37 0.50																					
41981	Rock	1.31	122	1.3	244.8	2.7	55	0.3	44.7	20.1	296	3.94	137.6	114.6	0.3	31	0.6	2.1	<0.1	141	2.21		
REP 41981	QC	1.2 255.7 2.8 57 0.3 46.1 20.6 304 4.06 138.3 115.4 0.3 31 0.6 2.4 <0.1 143 2.31																					
41948	Rock Pulp	0.13	930	1.5	22.4	43.1	44	0.2	56.6	17.6	341	4.29	3.1	860.9	1.8	101	0.1	0.3	0.3	35	0.43		
REP 41948	QC	961																					
REP 40817	QC	5																					
40826	Rock	2.89	<2	1.3	37.5	8.7	67	0.1	13.7	12.2	876	2.48	16.8	<0.5	1.6	66	0.5	0.2	0.2	28	1.09		
REP 40826	QC	1.3 37.1 8.6 62 0.1 13.3 11.5 807 2.40 16.8 <0.5 1.5 59 0.6 0.2 0.1 27 1.02																					
41944	Rock Pulp	0.13	<2	1.1	26.8	5.8	41	<0.1	77.6	19.8	397	2.93	1.4	1.0	1.6	183	<0.1	<0.1	<0.1	51	0.59		
REP 41944	QC	<2																					
41919	Rock	3.52	4	0.2	64.1	0.6	39	<0.1	48.0	22.4	734	3.80	12.2	<0.5	<0.1	172	<0.1	<0.1	<0.1	97	6.89		
REP 41919	QC	<0.1 64.7 0.6 38 <0.1 47.0 23.1 724 3.85 12.0 <0.5 0.1 176 <0.1 <0.1 <0.1 95 6.98																					
Core Reject Duplicates																							
41998	Rock	2.24	<2	0.3	4.0	0.5	9	<0.1	5.4	1.8	74	0.73	18.2	2.7	0.3	1	<0.1	<0.1	<0.1	6	0.02		
DUP 41998	QC	<2 0.3 3.3 0.7 9 <0.1 6.0 1.8 79 0.76 17.6 1.1 0.3 1 <0.1 0.2 <0.1 6 0.02																					
41983	Rock	1.82	49	85.9	10.6	1.1	7	0.1	9.6	4.0	831	0.84	223.7	49.5	<0.1	111	<0.1	1.4	0.1	10	3.72		
DUP 41983	QC	45 84.5 8.7 1.3 6 <0.1 9.0 3.8 801 0.78 233.5 46.7 <0.1 106 <0.1 1.4 0.1 10 3.70																					
40817	Rock	3.11	5	0.4	164.7	0.3	56	<0.1	45.4	33.9	970	4.92	1.6	1.8	<0.1	19	0.1	<0.1	<0.1	191	2.31		
DUP 40817	QC	7 0.2 156.6 0.1 54 <0.1 39.3 31.9 972 4.90 1.7 15.8 <0.1 19 0.2 <0.1 <0.1 189 2.37																					
40848	Rock	3.29	2	0.1	5.5	2.9	19	<0.1	6.4	2.4	4883	0.98	4.8	<0.5	0.3	141	<0.1	0.6	<0.1	3	8.87		
DUP 40848	QC	<2 0.1 5.0 2.9 19 <0.1 6.4 2.4 4957 1.02 4.9 <0.5 0.3 144 <0.1 0.5 <0.1 4 8.88																					
Reference Materials																							
STD DS8	Standard	13.1 113.2 123.4 328 1.8 39.1 7.8 616 2.55 27.7 170.1 6.6 69 2.5 4.2 6.5 44 0.73																					
STD DS8	Standard	13.4 110.7 133.6 303 1.7 35.9 7.3 555 2.34 24.1 106.0 7.6 64 2.0 4.5 7.3 40 0.65																					
STD DS8	Standard	12.1 107.4 124.0 301 1.7 36.7 7.3 599 2.38 25.7 97.3 6.2 57 2.1 4.6 5.9 40 0.67																					



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Part 2

QUALITY CONTROL REPORT

WHI11000568.1

Method	Analyte	Unit	MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
				P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																					
40013	Rock	0.001	<1	8	0.03	24	0.006	<20	0.07	0.006	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2		
REP 40013	QC																				
41945	Rock Pulp	0.078	9	45	1.27	49	0.282	<20	1.18	0.512	0.32	<0.1	<0.01	0.5	0.5	2.73	4	1.3	<0.2		
REP 41945	QC	0.083	9	46	1.27	54	0.291	<20	1.19	0.516	0.32	<0.1	0.01	0.6	0.5	2.69	4	1.0	<0.2		
41981	Rock	0.106	3	89	1.14	101	0.240	<20	2.19	0.152	0.14	0.7	0.06	8.5	<0.1	0.06	10	0.9	0.4		
REP 41981	QC	0.112	3	94	1.19	100	0.265	<20	2.35	0.168	0.15	0.7	0.07	8.8	<0.1	0.06	11	1.0	0.3		
41948	Rock Pulp	0.085	9	41	1.22	55	0.258	<20	1.11	0.507	0.29	<0.1	<0.01	0.6	0.5	2.65	4	0.7	<0.2		
REP 41948	QC																				
REP 40817	QC																				
40826	Rock	0.038	4	16	0.73	265	0.131	<20	1.50	0.020	0.17	0.1	0.05	2.6	<0.1	<0.05	4	0.9	<0.2		
REP 40826	QC	0.036	4	14	0.69	260	0.114	<20	1.41	0.019	0.15	<0.1	0.03	2.3	<0.1	<0.05	4	0.8	<0.2		
41944	Rock Pulp	0.099	12	51	1.50	47	0.417	<20	1.42	0.555	0.31	<0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2		
REP 41944	QC																				
41919	Rock	0.029	1	63	2.20	46	0.221	<20	2.44	0.027	0.10	<0.1	0.02	5.1	<0.1	0.06	7	<0.5	<0.2		
REP 41919	QC	0.028	1	64	2.22	48	0.226	<20	2.45	0.028	0.11	<0.1	0.02	5.2	<0.1	0.06	7	<0.5	<0.2		
Core Reject Duplicates																					
41998	Rock	0.010	1	16	0.13	22	0.009	<20	0.28	0.006	0.07	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2		
DUP 41998	QC	0.010	1	17	0.13	23	0.009	<20	0.29	0.005	0.07	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2		
41983	Rock	0.007	<1	35	2.00	9	0.004	<20	0.09	0.005	<0.01	<0.1	0.04	1.5	0.1	0.17	<1	<0.5	0.3		
DUP 41983	QC	0.007	<1	35	1.99	8	0.001	<20	0.07	0.003	<0.01	<0.1	0.05	1.5	0.1	0.17	<1	<0.5	<0.2		
40817	Rock	0.049	<1	104	2.55	50	0.376	<20	3.63	0.027	0.07	<0.1	<0.01	6.1	<0.1	<0.05	9	<0.5	<0.2		
DUP 40817	QC	0.046	<1	103	2.54	53	0.380	<20	3.58	0.029	0.07	<0.1	<0.01	6.2	<0.1	<0.05	9	<0.5	<0.2		
40848	Rock	0.024	7	3	4.89	286	<0.001	<20	0.10	0.007	0.04	<0.1	0.03	1.4	<0.1	0.10	<1	<0.5	<0.2		
DUP 40848	QC	0.026	7	3	4.97	302	<0.001	<20	0.11	0.007	0.05	<0.1	0.03	1.4	<0.1	0.10	<1	<0.5	<0.2		
Reference Materials																					
STD DS8	Standard	0.082	14	119	0.62	312	0.111	<20	0.95	0.090	0.43	2.2	0.20	2.1	5.1	0.17	5	5.3	5.1		
STD DS8	Standard	0.071	14	112	0.56	297	0.110	<20	0.84	0.082	0.37	2.5	0.20	2.0	5.4	0.16	5	5.2	5.4		
STD DS8	Standard	0.076	11	108	0.59	259	0.097	<20	0.85	0.075	0.37	2.9	0.21	1.8	5.2	0.17	4	5.9	4.0		



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Part 1

QUALITY CONTROL REPORT

WHI11000568.1

		WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD DS8	Standard			13.5	108.5	126.9	316	1.9	37.9	7.1	595	2.46	25.1	117.9	5.4	57	2.2	4.0	5.4	43	0.70
STD DS8	Standard			13.4	100.1	136.5	332	1.8	39.0	7.3	592	2.52	26.7	113.5	5.9	69	2.2	4.0	5.9	44	0.71
STD OREAS45CA	Standard			0.9	521.6	21.6	65	0.3	262.1	93.9	955	16.94	5.1	46.5	7.2	16	<0.1	0.1	0.2	215	0.44
STD OREAS45CA	Standard			0.9	462.9	20.1	55	0.3	236.0	84.1	818	14.09	4.0	33.2	7.0	14	0.1	0.1	0.2	198	0.39
STD OREAS45CA	Standard			1.1	493.1	21.2	60	0.3	251.2	95.4	960	15.64	4.7	46.2	7.1	15	0.1	0.2	0.1	214	0.42
STD OREAS45CA	Standard			0.7	511.0	18.6	67	0.3	254.0	91.5	945	16.62	4.0	46.4	6.4	15	0.1	<0.1	0.2	211	0.43
STD OREAS45CA	Standard			1.1	505.0	18.7	57	0.3	252.3	89.2	955	16.31	3.7	38.9	6.4	14	0.1	<0.1	0.2	212	0.45
STD OXC88	Standard		201																		
STD OXC88	Standard		196																		
STD OXC88	Standard		204																		
STD OXC88	Standard		195																		
STD OXC88	Standard		197																		
STD OXC88	Standard		197																		
STD OXH82	Standard		1252																		
STD OXH82	Standard		1300																		
STD OXH82	Standard		1365																		
STD OXH82	Standard		1280																		
STD OXH82	Standard		1301																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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QUALITY CONTROL REPORT

WHI11000568.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	0.080	12	112	0.61	293	0.093	<20	0.90	0.088	0.41	2.8	0.17	2.0	5.5	0.17	5	5.1	4.9
STD DS8	Standard	0.079	13	116	0.61	266	0.106	<20	0.91	0.082	0.44	2.7	0.19	1.8	5.5	0.17	5	6.5	5.2
STD OREAS45CA	Standard	0.043	16	759	0.14	176	0.136	<20	3.77	0.013	0.08	<0.1	0.03	38.4	0.1	<0.05	21	0.8	<0.2
STD OREAS45CA	Standard	0.034	15	611	0.14	150	0.135	<20	3.26	0.010	0.07	<0.1	0.04	35.4	<0.1	<0.05	17	<0.5	<0.2
STD OREAS45CA	Standard	0.041	15	652	0.13	164	0.120	<20	3.48	0.010	0.07	<0.1	0.03	35.6	<0.1	<0.05	19	1.0	<0.2
STD OREAS45CA	Standard	0.038	15	826	0.14	166	0.118	<20	3.78	0.005	0.07	<0.1	0.03	36.0	<0.1	<0.05	19	0.9	<0.2
STD OREAS45CA	Standard	0.038	16	783	0.13	162	0.125	<20	3.59	0.012	0.07	<0.1	0.04	34.3	<0.1	<0.05	19	0.6	<0.2
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5	
STD OXC88 Expected																			
STD OXH82 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

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		WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
G1	Prep Blank		<2	0.1	1.9	2.8	48	<0.1	3.2	3.8	544	2.02	<0.5	3.6	3.8	62	<0.1	0.2	<0.1	39	0.49
G1	Prep Blank		<2	0.1	1.8	2.2	45	<0.1	3.0	3.7	520	1.96	<0.5	1.3	3.6	68	<0.1	<0.1	<0.1	39	0.47



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Part 2

QUALITY CONTROL REPORT

WHI11000568.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Tl ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank																		
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BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.074	8	7	0.55	182	0.116	<20	0.95	0.082	0.48	0.1	<0.01	1.6	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	0.076	8	7	0.53	185	0.111	<20	0.93	0.072	0.48	<0.1	<0.01	1.6	0.3	<0.05	5	<0.5	<0.2



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Sapphire Prospect
Rock Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Ian Gendall
Receiving Lab: Canada-Whitehorse
Received: July 19, 2011
Report Date: August 14, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000651.1

CLIENT JOB INFORMATION

Project: BeaverCreek
Shipment ID: Haine002
P.O. Number
Number of Samples: 48

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Hua Jin

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	44	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01+3B04	48	Fire assay fusion Au by ICP-ES	50	Completed	VAN
1DX1	48	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Sapphire Prospect
Rock Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: BeaverCreek
Report Date: August 14, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000651.1

	Method Analyte Unit MDL	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
40719	Rock	3.55	2	0.2	219.4	0.6	65	<0.1	50.7	33.2	913	5.24	3.3	1.5	0.2	27	<0.1	<0.1	<0.1	126	1.40
40784	Rock	2.00	3	1.0	40.9	6.7	114	<0.1	79.1	29.4	532	3.76	5.3	2.2	5.1	55	0.2	<0.1	0.2	73	0.70
40718	Rock	2.81	<2	0.1	97.0	0.5	53	<0.1	42.8	26.0	842	3.95	17.8	1.6	0.1	38	<0.1	<0.1	<0.1	97	3.06
40028	Rock	1.48	<2	0.5	25.8	1.9	51	<0.1	24.5	6.3	224	2.57	2.2	1.1	3.2	20	<0.1	<0.1	<0.1	64	0.10
40715	Rock	3.26	<2	0.1	96.5	0.3	26	<0.1	27.3	16.4	452	2.85	3.6	0.8	0.1	50	<0.1	<0.1	<0.1	71	2.01
40773	Rock	1.91	<2	1.1	21.8	3.3	52	<0.1	26.9	10.2	266	2.21	8.0	0.9	1.5	34	0.1	<0.1	0.1	47	0.41
40711	Rock	3.17	8	0.2	145.6	0.3	69	<0.1	49.5	28.8	901	4.91	21.9	1.6	0.2	25	<0.1	<0.1	<0.1	126	2.02
40030	Rock	1.64	<2	0.1	2.1	1.3	2	<0.1	2.3	0.8	86	0.33	1.9	<0.5	<0.1	6	<0.1	<0.1	<0.1	<2	0.07
40720	Rock Pulp	0.15	936	1.7	25.4	47.5	50	0.3	65.4	18.9	404	4.86	3.5	887.8	2.0	138	0.3	0.2	0.3	38	0.59
40709	Rock	2.80	6	0.1	311.2	0.6	92	0.1	55.3	32.7	1108	5.60	8.3	5.4	0.2	28	<0.1	<0.1	<0.1	134	2.36
40778	Rock	1.64	<2	0.3	21.3	3.8	47	<0.1	19.1	5.8	233	1.95	17.9	<0.5	2.3	13	0.1	<0.1	<0.1	26	0.21
40712	Rock	2.87	8	0.3	167.9	1.0	74	<0.1	49.6	28.8	1052	5.12	193.5	3.9	0.2	61	<0.1	0.1	<0.1	152	6.19
40704	Rock	2.96	12	0.2	337.8	0.4	117	<0.1	61.5	36.2	1060	6.03	8.3	<0.5	0.2	24	0.1	<0.1	<0.1	161	1.77
40033	Rock	1.74	<2	0.9	52.4	2.9	99	0.1	45.7	16.0	491	4.58	2.0	<0.5	1.6	13	<0.1	<0.1	0.1	187	0.20
40783	Rock	2.11	<2	1.1	59.0	2.5	109	0.1	31.4	10.8	447	5.09	3.7	0.5	5.4	17	<0.1	<0.1	0.2	64	0.22
40717	Rock	3.52	10	0.1	206.6	0.3	38	<0.1	43.7	23.1	855	4.00	3.2	1.7	0.1	74	<0.1	<0.1	<0.1	104	5.03
40032	Rock	1.61	<2	0.2	83.2	2.3	59	0.1	1.2	13.0	345	3.97	4.2	2.6	3.3	97	<0.1	<0.1	<0.1	70	0.86
40781	Rock	2.18	<2	0.3	11.5	8.5	35	<0.1	11.9	6.1	853	1.57	5.6	<0.5	1.8	532	0.2	<0.1	<0.1	23	6.88
40780	Rock	1.81	<2	0.4	21.6	5.5	33	<0.1	23.1	6.0	304	1.18	1.2	1.0	1.1	25	0.2	<0.1	<0.1	16	0.69
40716	Rock	3.40	<2	0.1	39.0	0.4	29	<0.1	35.9	19.7	502	3.17	3.3	<0.5	0.1	38	<0.1	<0.1	<0.1	88	1.39
40031	Rock	1.94	<2	0.3	13.2	1.6	23	<0.1	8.3	2.8	156	1.32	3.3	<0.5	1.2	26	<0.1	<0.1	<0.1	24	0.37
40779	Rock	1.52	2	0.9	32.3	3.1	110	0.1	50.2	15.9	514	4.48	33.0	<0.5	5.1	17	0.1	<0.1	0.2	79	0.20
40772	Rock	2.56	7	1.2	21.2	2.9	99	0.1	22.2	10.1	714	3.81	10.4	1.5	1.1	18	<0.1	<0.1	0.2	36	0.08
40708	Rock	3.67	3	0.1	116.7	1.2	74	<0.1	52.0	28.1	1058	4.48	19.5	2.8	0.1	71	<0.1	<0.1	<0.1	118	5.56
40023	Rock	1.55	2	0.2	2.2	1.3	4	<0.1	3.6	1.0	73	0.41	1.0	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	0.01
40029	Rock	1.62	2	0.2	5.0	2.5	7	<0.1	10.0	2.8	146	0.48	1.9	1.5	0.2	129	<0.1	<0.1	0.1	4	1.27
40771	Rock	2.02	37	1.0	1.7	1.0	<1	<0.1	0.6	0.3	44	0.33	2.1	3.7	<0.1	3	<0.1	<0.1	<0.1	<2	<0.01
40777	Rock	1.86	1735	0.8	30.4	5.3	73	0.4	52.5	14.4	297	2.82	4628	749.1	3.5	25	0.1	0.9	1.9	55	0.20
40713	Rock	3.13	5	0.2	99.5	0.3	51	<0.1	38.3	23.9	960	4.07	8.0	42.4	0.1	47	<0.1	<0.1	<0.1	101	2.95
40027	Rock	1.87	17	0.4	20.8	3.9	77	<0.1	58.1	21.2	416	3.66	348.1	15.4	1.2	124	0.1	0.2	0.2	94	1.05



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Project:

BeaverCreek

Report Date:

August 14, 2011

Page:

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Part 2

CERTIFICATE OF ANALYSIS

WHI11000651.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
40719	Rock	0.057	2	156	2.35	10	0.293	<20	2.69	0.033	<0.01	<0.1	<0.01	5.2	<0.1	<0.05	9	<0.5	<0.2
40784	Rock	0.289	20	61	1.10	70	0.045	<20	2.22	0.020	0.26	<0.1	<0.01	5.5	0.1	<0.05	7	1.2	<0.2
40718	Rock	0.039	2	124	1.81	18	0.221	<20	2.06	0.045	0.03	<0.1	<0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
40028	Rock	0.051	9	42	0.71	184	0.093	<20	1.47	0.043	0.63	<0.1	<0.01	4.6	0.2	0.07	5	<0.5	<0.2
40715	Rock	0.060	1	80	1.16	8	0.240	<20	1.67	0.032	<0.01	<0.1	<0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
40773	Rock	0.082	4	39	0.68	138	0.044	<20	1.60	0.113	0.24	<0.1	<0.01	3.3	<0.1	0.10	5	<0.5	<0.2
40711	Rock	0.053	3	148	2.11	26	0.242	<20	2.54	0.030	0.07	<0.1	0.02	5.0	<0.1	<0.05	9	<0.5	<0.2
40030	Rock	<0.001	<1	2	0.02	10	0.002	<20	0.10	0.016	0.03	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
40720	Rock Pulp	0.077	10	51	1.36	64	0.328	<20	1.38	0.620	0.39	<0.1	0.01	0.8	0.5	2.87	5	1.7	<0.2
40709	Rock	0.064	2	141	2.62	14	0.349	<20	3.16	0.026	0.02	<0.1	0.03	4.7	<0.1	<0.05	10	<0.5	<0.2
40778	Rock	0.088	5	38	0.54	32	0.020	<20	0.97	0.037	0.09	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
40712	Rock	0.052	3	133	2.02	32	0.203	<20	2.52	0.028	0.02	<0.1	0.02	8.0	<0.1	<0.05	11	<0.5	<0.2
40704	Rock	0.061	2	138	2.80	33	0.300	<20	3.31	0.023	0.09	<0.1	0.01	4.8	<0.1	<0.05	11	<0.5	<0.2
40033	Rock	0.080	5	115	1.27	512	0.452	<20	3.19	0.060	1.42	0.1	<0.01	13.3	0.3	0.08	11	0.7	<0.2
40783	Rock	0.100	7	53	1.34	78	0.060	<20	2.51	0.015	0.39	<0.1	<0.01	3.0	0.2	0.10	7	0.5	<0.2
40717	Rock	0.045	2	133	1.79	19	0.232	<20	2.08	0.029	0.02	<0.1	0.01	7.8	<0.1	<0.05	8	<0.5	<0.2
40032	Rock	0.212	13	3	1.11	1057	0.413	<20	2.28	0.187	1.28	2.0	<0.01	2.4	0.3	0.23	8	<0.5	<0.2
40781	Rock	0.098	4	33	0.49	22	0.015	<20	0.76	0.042	0.03	<0.1	0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
40780	Rock	0.033	3	17	0.29	22	0.005	<20	0.73	0.054	0.11	<0.1	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
40716	Rock	0.054	2	129	1.40	11	0.301	<20	1.77	0.039	0.01	<0.1	<0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
40031	Rock	0.163	3	18	0.34	98	0.028	<20	0.65	0.020	0.21	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
40779	Rock	0.091	16	69	1.28	117	0.077	<20	2.52	0.021	0.44	<0.1	<0.01	4.8	0.2	<0.05	7	<0.5	<0.2
40772	Rock	0.036	3	12	1.24	41	0.011	<20	2.31	0.018	0.16	<0.1	<0.01	1.5	<0.1	<0.05	7	<0.5	<0.2
40708	Rock	0.048	2	145	2.12	22	0.251	<20	2.81	0.017	0.04	<0.1	0.01	6.8	<0.1	<0.05	9	<0.5	<0.2
40023	Rock	0.001	<1	3	0.03	12	0.003	<20	0.08	0.004	0.02	<0.1	0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
40029	Rock	0.007	<1	5	0.09	14	0.004	<20	0.21	0.016	0.03	21.6	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
40771	Rock	0.002	<1	<1	<0.01	6	<0.001	<20	0.02	0.001	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
40777	Rock	0.080	9	48	0.80	158	0.036	<20	1.48	0.027	0.27	0.4	0.01	3.6	<0.1	0.13	5	0.9	<0.2
40713	Rock	0.049	2	127	1.72	8	0.313	<20	2.11	0.043	<0.01	<0.1	<0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
40027	Rock	0.145	6	186	2.35	684	0.237	<20	3.34	0.237	1.51	2.4	<0.01	4.1	0.3	<0.05	10	<0.5	<0.2



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Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000651.1

	Method	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
40782	Rock	2.35	<2	0.6	111.4	5.0	110	<0.1	65.1	19.6	443	3.77	7.7	0.9	2.4	18	0.1	<0.1	0.1	53
40710	Rock	2.23	5	0.2	858.8	1.4	96	<0.1	61.4	34.3	902	5.66	46.0	0.9	0.2	38	0.2	<0.1	<0.1	165
40722	Rock Pulp	0.15	<2	1.3	28.1	5.6	41	<0.1	80.8	21.6	441	3.19	0.6	<0.5	1.7	206	<0.1	<0.1	<0.1	54
40776	Rock	1.63	<2	<0.1	3.6	1.6	6	<0.1	8.2	2.0	64	0.33	3.0	0.6	<0.1	4	<0.1	<0.1	<0.1	<2
40714	Rock	3.52	4	<0.1	94.7	0.4	50	<0.1	34.7	26.7	927	4.56	3.6	1.3	0.2	62	<0.1	<0.1	<0.1	142
40702	Rock	3.01	18	0.2	246.5	0.4	33	<0.1	24.6	13.7	654	2.41	1.9	1.2	<0.1	42	<0.1	<0.1	<0.1	66
40774	Rock	1.92	4	0.8	32.8	2.5	90	0.1	31.0	9.1	388	3.58	3.1	2.2	3.1	20	<0.1	<0.1	0.2	111
40026	Rock	1.56	<2	0.1	5.1	0.2	3	<0.1	2.4	0.8	74	0.38	1.3	0.7	<0.1	3	<0.1	<0.1	<0.1	<2
40705	Rock	3.21	40	0.1	654.0	0.4	103	0.1	57.5	33.0	978	5.33	11.9	3.0	0.1	26	0.1	<0.1	<0.1	156
40025	Rock	1.57	<2	0.2	6.9	0.7	10	<0.1	4.2	1.3	104	0.39	1.1	<0.5	<0.1	18	<0.1	<0.1	<0.1	<2
40024	Rock	2.02	<2	0.1	49.0	2.9	30	0.3	4.2	14.2	253	2.96	2.7	1.0	0.6	354	<0.1	<0.1	0.1	91
40706	Rock	3.65	<2	0.1	257.1	0.3	83	<0.1	47.5	28.7	1023	5.10	6.4	1.4	0.2	33	<0.1	<0.1	<0.1	141
40775	Rock	1.73	6	0.3	11.9	2.8	34	<0.1	24.7	7.8	187	1.49	36.4	4.0	1.3	8	<0.1	<0.1	<0.1	32
40721	Rock Pulp	0.15	1019	1.4	22.7	47.9	46	0.3	59.2	18.0	364	4.60	2.8	967.8	2.0	119	0.2	0.2	0.3	37
40703	Rock	3.43	9	0.1	224.8	0.5	88	<0.1	46.8	29.4	1083	4.83	11.2	3.6	0.2	34	0.1	<0.1	<0.1	150
40022	Rock	1.69	3	0.3	5.7	0.9	6	<0.1	5.2	1.7	88	0.96	5.1	2.9	0.7	4	<0.1	<0.1	<0.1	20
40707	Rock	2.93	<2	0.1	147.0	0.5	92	<0.1	58.2	34.6	983	5.62	15.4	3.5	0.2	23	<0.1	<0.1	<0.1	139
40723	Rock Pulp	0.15	3	1.3	28.5	6.1	43	<0.1	84.8	21.3	429	3.18	<0.5	0.8	1.8	212	<0.1	<0.1	<0.1	55



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Part 2

CERTIFICATE OF ANALYSIS

WHI11000651.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
40782	Rock	0.065	6	38	0.96	64	0.044	<20	1.88	0.041	0.27	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
40710	Rock	0.049	3	198	2.57	22	0.334	<20	2.95	0.035	0.04	<0.1	0.03	10.6	<0.1	0.08	10	0.6	<0.2
40722	Rock Pulp	0.105	12	58	1.67	51	0.431	<20	1.56	0.606	0.34	<0.1	<0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
40776	Rock	0.005	<1	2	0.02	4	0.002	<20	0.05	0.006	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
40714	Rock	0.072	3	62	1.77	18	0.173	<20	2.27	0.064	0.01	<0.1	<0.01	8.8	<0.1	<0.05	7	<0.5	<0.2
40702	Rock	0.042	1	58	1.00	5	0.207	<20	1.31	0.089	<0.01	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
40774	Rock	0.100	9	72	1.07	464	0.142	<20	2.69	0.085	1.06	<0.1	<0.01	8.1	0.2	<0.05	8	<0.5	<0.2
40026	Rock	0.002	<1	2	0.03	5	0.003	<20	0.04	0.002	<0.01	2.0	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
40705	Rock	0.059	2	144	2.30	42	0.335	<20	3.04	0.070	0.09	<0.1	0.04	4.6	<0.1	<0.05	10	<0.5	<0.2
40025	Rock	<0.001	<1	1	0.02	16	0.003	<20	0.06	0.002	<0.01	1.0	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
40024	Rock	0.126	2	26	1.18	379	0.169	<20	4.68	0.591	0.59	<0.1	<0.01	5.3	0.1	0.45	10	1.1	<0.2
40706	Rock	0.071	2	123	2.07	27	0.287	<20	2.72	0.071	0.04	<0.1	<0.01	3.0	<0.1	<0.05	9	<0.5	<0.2
40775	Rock	0.019	4	20	0.38	70	0.027	<20	0.76	0.051	0.16	0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
40721	Rock Pulp	0.090	10	46	1.30	61	0.293	<20	1.17	0.534	0.33	<0.1	<0.01	0.6	0.5	2.77	4	0.7	<0.2
40703	Rock	0.056	2	124	2.25	23	0.287	<20	2.93	0.053	0.05	<0.1	0.01	5.0	<0.1	<0.05	9	<0.5	<0.2
40022	Rock	0.019	2	7	0.19	76	0.029	<20	0.37	0.010	0.20	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
40707	Rock	0.068	2	146	2.49	20	0.300	<20	3.29	0.066	0.03	<0.1	<0.01	5.8	<0.1	<0.05	10	<0.5	<0.2
40723	Rock Pulp	0.111	13	54	1.62	55	0.428	<20	1.52	0.595	0.35	<0.1	<0.01	0.3	<0.1	<0.05	6	<0.5	<0.2



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Sapphire Prospect
Rock Geochemistry

Client: **Ryan Gold Corp.**
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Vancouver BC V6C 1H2 Canada

Project: BeaverCreek
Report Date: August 14, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000651.1

	Method Analyte Unit MDL	WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
Pulp Duplicates																					
40781	Rock	2.18	<2	0.3	11.5	8.5	35	<0.1	11.9	6.1	853	1.57	5.6	<0.5	1.8	532	0.2	<0.1	<0.1	23	6.88
REP 40781	QC			0.3	13.1	7.9	32	<0.1	11.8	6.1	832	1.55	4.9	<0.5	1.6	524	0.3	<0.1	<0.1	23	6.70
40774	Rock	1.92	4	0.8	32.8	2.5	90	0.1	31.0	9.1	388	3.58	3.1	2.2	3.1	20	<0.1	<0.1	0.2	111	0.23
REP 40774	QC			0.8	33.4	2.5	96	0.2	31.4	9.3	382	3.52	3.2	1.4	3.3	20	<0.1	<0.1	0.2	109	0.23
Core Reject Duplicates																					
40028	Rock	1.48	<2	0.5	25.8	1.9	51	<0.1	24.5	6.3	224	2.57	2.2	1.1	3.2	20	<0.1	<0.1	<0.1	64	0.10
DUP 40028	QC		<2	0.4	25.8	2.3	54	<0.1	23.9	6.5	225	2.57	2.0	<0.5	3.2	21	<0.1	<0.1	0.1	64	0.10
40705	Rock	3.21	40	0.1	654.0	0.4	103	0.1	57.5	33.0	978	5.33	11.9	3.0	0.1	26	0.1	<0.1	<0.1	156	2.81
DUP 40705	QC		24	0.2	637.1	0.2	93	0.1	55.9	32.5	977	5.22	13.5	9.2	0.1	23	0.1	<0.1	<0.1	149	2.67
Reference Materials																					
STD DS8	Standard			13.4	109.4	126.8	316	1.8	37.9	7.7	602	2.48	27.4	132.4	6.5	71	2.4	4.2	7.2	42	0.67
STD DS8	Standard			13.4	113.6	126.7	313	1.7	37.5	7.7	628	2.54	26.8	88.2	6.9	70	2.1	4.5	7.1	42	0.73
STD OREAS45CA	Standard			0.7	499.8	20.8	64	0.3	244.5	90.6	962	15.80	3.2	39.1	7.0	16	<0.1	<0.1	0.2	210	0.42
STD OREAS45CA	Standard			0.9	521.2	21.1	61	0.3	260.4	97.0	965	17.11	3.2	35.9	7.1	17	<0.1	<0.1	0.2	215	0.43
STD OXC88	Standard		193																		
STD OXC88	Standard		191																		
STD OXC88	Standard		193																		
STD OXC88	Standard		203																		
STD OXH82	Standard		1193																		
STD OXH82	Standard		1204																		
STD OXH82	Standard		1321																		
STD OXH82	Standard		1376																		
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<2																		
BLK	Blank		<2																		



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Rock Geochemistry

Client: **Ryan Gold Corp.**
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Project: BeaverCreek
Report Date: August 14, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000651.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
40781	Rock	0.098	4	33	0.49	22	0.015	<20	0.76	0.042	0.03	<0.1	0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
REP 40781	QC	0.094	4	31	0.49	23	0.015	<20	0.75	0.041	0.03	<0.1	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
40774	Rock	0.100	9	72	1.07	464	0.142	<20	2.69	0.085	1.06	<0.1	<0.01	8.1	0.2	<0.05	8	<0.5	<0.2
REP 40774	QC	0.101	10	75	1.06	460	0.146	<20	2.65	0.083	1.05	<0.1	<0.01	8.0	0.2	<0.05	8	<0.5	<0.2
Core Reject Duplicates																			
40028	Rock	0.051	9	42	0.71	184	0.093	<20	1.47	0.043	0.63	<0.1	<0.01	4.6	0.2	0.07	5	<0.5	<0.2
DUP 40028	QC	0.047	9	43	0.73	192	0.093	<20	1.52	0.048	0.61	<0.1	<0.01	4.4	0.2	0.07	5	<0.5	<0.2
40705	Rock	0.059	2	144	2.30	42	0.335	<20	3.04	0.070	0.09	<0.1	0.04	4.6	<0.1	<0.05	10	<0.5	<0.2
DUP 40705	QC	0.057	2	142	2.23	36	0.305	<20	2.92	0.058	0.08	<0.1	0.04	4.0	<0.1	<0.05	9	<0.5	<0.2
Reference Materials																			
STD DS8	Standard	0.087	14	118	0.60	320	0.115	<20	0.92	0.098	0.43	2.5	0.22	2.0	5.3	0.17	5	5.3	5.0
STD DS8	Standard	0.079	14	117	0.64	290	0.121	<20	0.92	0.093	0.39	2.9	0.19	2.0	5.3	0.17	5	4.9	4.7
STD OREAS45CA	Standard	0.040	16	675	0.15	175	0.131	<20	3.61	0.008	0.07	<0.1	0.03	36.6	<0.1	<0.05	18	<0.5	<0.2
STD OREAS45CA	Standard	0.036	16	700	0.15	170	0.144	<20	3.83	0.010	0.07	<0.1	0.03	36.3	<0.1	<0.05	19	<0.5	<0.2
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5	
BLK	Blank																		
BLK	Blank																		



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Project: BeaverCreek

Report Date: August 14, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000651.1

		WGHT	3B-50	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank		<2	0.1	1.6	3.7	46	<0.1	3.7	4.3	599	2.02	<0.5	1.6	4.8	65	<0.1	<0.1	<0.1	36	0.44
G1	Prep Blank		<2	<0.1	1.4	2.6	47	<0.1	3.6	4.2	560	1.93	<0.5	<0.5	4.7	61	<0.1	<0.1	<0.1	35	0.43



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Project:

BeaverCreek

Report Date:

August 14, 2011

Page:

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Part 2

QUALITY CONTROL REPORT

WHI11000651.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Tl ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1	Prep Blank	0.069	9	8	0.60	209	0.136	<20	0.94	0.078	0.43	<0.1	<0.01	1.7	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	0.079	8	7	0.60	204	0.125	<20	0.90	0.063	0.44	<0.1	<0.01	1.6	0.2	<0.05	5	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
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Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: September 04, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000957.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 274

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	274	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	274	Dry at 60C			VAN
1DX2	274	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

SAP

Report Date:

September 04, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000957.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064473	Soil	0.7	44.4	5.1	87	0.2	40.6	15.4	516	3.56	12.3	0.7	4.9	2.7	35	0.1	0.3	0.2	84	0.48	0.093
1064472	Soil	0.9	41.8	5.4	89	0.1	42.0	15.7	509	3.74	14.6	0.7	3.8	2.7	35	0.1	0.3	0.2	86	0.45	0.086
1064475	Soil	1.1	72.5	6.0	96	0.9	56.2	17.3	551	3.84	18.8	1.6	7.3	3.5	41	<0.1	0.3	0.2	85	0.52	0.101
1064477	Soil	0.7	57.5	5.3	85	0.8	44.3	13.6	421	3.26	10.8	1.2	6.3	1.7	43	0.1	0.2	0.2	78	0.51	0.094
1064479	Soil	0.9	46.2	5.6	94	0.3	42.5	14.5	510	3.58	13.7	0.7	2.5	2.2	32	<0.1	0.3	0.2	94	0.40	0.072
1064476	Soil	1.8	193.7	11.5	106	4.5	139.3	27.1	494	6.18	59.1	8.9	20.8	7.4	70	0.1	0.7	0.3	124	0.88	0.153
1064478	Soil	0.9	46.7	5.3	94	0.3	42.8	14.6	512	3.59	14.0	0.7	6.3	2.1	33	0.1	0.3	0.2	94	0.42	0.076
1064480	Soil	0.9	42.8	4.7	88	0.3	43.2	14.6	462	3.50	15.0	0.6	14.4	2.2	33	0.2	0.2	0.1	86	0.43	0.086
1064481	Soil	0.8	65.9	4.8	104	0.5	53.4	17.5	629	3.94	18.6	0.9	4.4	1.9	51	0.1	0.3	0.2	100	0.59	0.100
1064482	Soil	0.7	38.4	3.7	89	0.2	40.1	15.0	496	3.30	13.0	0.5	9.2	1.6	37	0.2	0.2	0.1	86	0.48	0.094
1064483	Soil	0.8	54.5	4.5	83	0.5	40.9	15.2	630	3.37	18.8	0.8	2.6	1.4	40	<0.1	0.2	0.1	93	0.54	0.103
1064485	Soil	0.8	40.2	5.2	95	0.1	43.9	17.0	595	4.06	19.9	0.6	5.7	1.8	35	<0.1	0.2	0.2	104	0.53	0.083
1064484	Soil	0.8	35.4	5.8	98	0.4	32.2	17.6	708	3.35	41.8	0.5	26.9	1.7	28	0.4	0.2	0.2	90	0.33	0.081
1064486	Soil	1.1	86.6	5.8	105	0.5	55.6	16.7	552	4.12	20.3	0.8	7.0	2.0	41	0.2	0.4	0.2	103	0.57	0.091
1064487	Soil	1.3	76.8	5.8	109	0.2	56.4	18.6	711	4.05	18.6	0.6	2.0	2.0	33	0.2	0.4	0.2	99	0.44	0.085
1064496	Soil	0.5	34.0	5.0	92	0.1	35.2	12.7	489	3.27	13.8	0.7	4.8	2.0	43	0.3	0.3	0.2	72	0.78	0.076
1064494	Soil	0.8	43.4	5.2	93	0.4	39.3	14.6	497	3.44	39.8	0.8	22.4	1.7	44	<0.1	0.3	0.2	86	0.57	0.100
1064492	Soil	0.8	31.1	4.5	94	0.2	33.9	15.0	677	3.12	15.4	0.4	1.9	1.4	43	0.5	0.3	0.1	75	0.65	0.101
1064493	Soil	1.1	42.3	5.9	95	0.2	41.8	17.4	623	3.97	69.4	0.7	9.8	2.2	36	<0.1	0.2	0.2	100	0.45	0.088
1064491	Soil	0.7	55.5	3.6	95	0.1	52.1	16.3	518	3.94	18.2	0.5	1.8	1.9	30	<0.1	0.2	0.2	103	0.36	0.119
1064495	Soil	0.8	43.4	5.3	104	0.2	37.8	13.1	474	3.28	21.6	0.7	12.3	1.7	67	0.4	0.3	0.1	84	0.86	0.080
1081783	Soil	0.8	41.0	6.4	89	0.2	40.3	17.6	608	3.67	12.1	0.8	5.8	3.0	36	0.3	0.4	0.2	87	0.43	0.080
1064465	Soil	0.7	43.7	6.1	97	0.1	42.1	16.4	578	3.71	11.1	0.7	1.6	2.9	33	0.2	0.4	0.2	87	0.47	0.087
1064466	Soil	0.8	44.1	6.3	78	0.1	40.6	14.7	504	3.59	11.3	1.0	1.9	2.5	38	0.1	0.4	0.1	90	0.68	0.085
1064467	Soil	0.9	32.8	6.6	84	0.2	39.7	16.0	566	3.68	12.1	0.7	347.9	2.3	28	0.2	0.3	0.1	85	0.35	0.107
1064468	Soil	0.9	43.9	5.4	96	0.2	43.3	17.6	452	3.97	18.4	0.7	1.5	2.9	32	0.2	0.3	0.2	93	0.33	0.089
1064469	Soil	0.8	38.3	5.0	91	0.2	41.7	16.2	479	3.71	9.5	0.7	2.5	2.5	32	0.1	0.2	0.1	89	0.37	0.086
1064470	Soil	0.6	55.5	6.1	101	0.3	43.3	13.8	404	3.29	9.2	0.8	1.9	2.0	34	0.3	0.3	0.2	85	0.49	0.065
1064471	Soil	0.9	57.7	6.3	93	0.2	49.3	16.8	490	3.91	16.2	1.0	7.6	2.7	36	0.1	0.3	0.2	103	0.46	0.084
1064474	Soil	0.8	38.9	4.8	85	0.3	37.9	13.0	393	3.32	10.6	0.6	2.7	2.2	34	0.2	0.2	0.1	85	0.46	0.085



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1064473	Soil	11	62	1.13	178	0.130	1	2.23	0.018	0.48	<0.1	0.03	5.5	0.3	<0.05	7	<0.5
1064472	Soil	11	63	1.12	201	0.121	1	2.22	0.016	0.46	<0.1	0.02	5.3	0.3	<0.05	7	<0.5
1064475	Soil	28	63	1.05	200	0.115	<1	2.47	0.018	0.46	0.1	0.07	6.9	0.2	<0.05	7	<0.5
1064477	Soil	16	59	0.97	201	0.104	1	2.18	0.017	0.42	<0.1	0.05	5.4	0.3	<0.05	7	<0.5
1064479	Soil	9	67	1.15	195	0.144	1	2.41	0.019	0.49	0.1	0.02	6.1	0.3	<0.05	8	<0.5
1064476	Soil	149	71	0.99	408	0.088	3	4.10	0.018	0.52	0.2	0.39	14.2	0.3	0.09	8	1.6
1064478	Soil	9	67	1.13	191	0.147	<1	2.34	0.017	0.50	0.1	0.03	6.1	0.2	<0.05	8	<0.5
1064480	Soil	8	62	1.08	195	0.135	<1	2.20	0.017	0.55	0.1	0.02	5.5	0.3	<0.05	7	<0.5
1064481	Soil	12	72	1.16	337	0.137	1	2.73	0.019	0.69	0.1	0.05	7.3	0.3	<0.05	9	<0.5
1064482	Soil	8	63	1.06	244	0.138	<1	2.27	0.017	0.53	0.1	0.02	6.2	0.3	<0.05	7	<0.5
1064483	Soil	9	68	1.04	277	0.128	1	2.31	0.022	0.52	0.2	0.03	6.4	0.2	<0.05	8	<0.5
1064485	Soil	9	73	1.19	249	0.163	<1	2.64	0.020	0.57	0.1	0.02	6.9	0.3	<0.05	8	<0.5
1064484	Soil	7	58	1.00	157	0.144	2	2.01	0.016	0.53	0.1	0.02	5.0	0.2	<0.05	7	<0.5
1064486	Soil	11	73	1.15	225	0.139	1	2.69	0.022	0.59	0.1	0.05	7.3	0.3	<0.05	8	<0.5
1064487	Soil	11	71	1.12	218	0.163	2	2.39	0.020	0.66	0.1	0.02	6.5	0.3	<0.05	8	<0.5
1064496	Soil	8	52	1.00	196	0.144	2	1.94	0.023	0.45	0.1	0.02	5.1	0.3	<0.05	7	<0.5
1064494	Soil	10	66	1.06	217	0.132	1	2.42	0.023	0.48	0.2	0.04	5.6	0.2	<0.05	8	<0.5
1064492	Soil	7	52	0.87	181	0.116	2	1.75	0.020	0.56	<0.1	0.01	4.2	0.2	<0.05	6	<0.5
1064493	Soil	8	69	1.04	197	0.151	2	2.51	0.017	0.51	0.1	0.02	6.6	0.3	<0.05	8	<0.5
1064491	Soil	7	68	1.06	238	0.163	<1	2.58	0.019	0.85	0.1	0.01	7.1	0.3	<0.05	8	<0.5
1064495	Soil	9	62	1.03	209	0.142	2	2.21	0.023	0.44	0.1	0.03	5.4	0.2	<0.05	7	<0.5
1081783	Soil	12	60	1.07	163	0.144	2	2.15	0.020	0.33	0.1	0.02	4.6	0.2	<0.05	7	<0.5
1064465	Soil	11	63	1.10	160	0.140	2	2.19	0.021	0.36	<0.1	0.02	5.1	0.2	<0.05	7	<0.5
1064466	Soil	12	71	1.19	187	0.143	2	2.16	0.021	0.42	0.1	0.04	5.5	0.2	<0.05	7	<0.5
1064467	Soil	10	62	1.04	129	0.123	1	2.22	0.016	0.31	<0.1	0.02	4.7	0.2	<0.05	7	<0.5
1064468	Soil	11	66	1.14	126	0.128	<1	2.43	0.014	0.42	<0.1	0.02	4.9	0.3	<0.05	8	<0.5
1064469	Soil	11	64	1.12	189	0.131	2	2.30	0.014	0.42	<0.1	0.02	5.0	0.2	<0.05	8	<0.5
1064470	Soil	12	65	1.13	182	0.113	2	2.33	0.019	0.33	<0.1	0.03	5.6	0.2	<0.05	7	<0.5
1064471	Soil	12	71	1.21	267	0.146	1	2.82	0.021	0.48	0.1	0.04	7.0	0.3	<0.05	8	<0.5
1064474	Soil	8	59	0.97	156	0.141	1	2.04	0.017	0.43	<0.1	0.03	5.2	0.2	<0.05	7	<0.5



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Part 1

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070073	Soil	1.2	108.1	6.0	83	<0.1	77.8	25.2	534	5.42	22.6	0.7	2.8	2.1	46	0.2	0.5	0.2	108	0.31	0.118
1070072	Soil	1.0	60.2	7.0	63	<0.1	38.3	16.8	425	3.80	138.6	0.7	31.8	2.0	32	0.1	0.7	0.2	87	0.29	0.098
1070075	Soil	1.1	79.9	12.5	116	0.2	87.8	34.3	1126	5.54	194.7	1.0	25.1	2.5	37	0.4	12.1	0.3	72	0.45	0.121
1070058	Soil	1.4	50.9	7.1	74	<0.1	47.3	16.5	523	3.80	14.4	0.7	3.8	0.9	29	0.1	0.6	0.2	87	0.26	0.088
1070060	Soil	1.1	62.6	6.6	67	0.1	54.3	21.1	558	3.93	16.6	0.7	28.7	1.6	28	0.2	0.4	0.2	82	0.28	0.096
1070062	Soil	1.2	82.2	5.5	65	0.1	53.2	19.8	514	4.04	13.6	0.7	4.8	1.7	29	0.3	0.4	0.2	89	0.31	0.123
1070064	Soil	1.2	53.5	5.8	62	0.1	42.3	16.7	521	4.03	12.6	0.6	4.9	1.4	28	0.2	0.4	0.2	100	0.30	0.092
1070084	Soil	1.0	83.7	6.5	61	0.1	86.9	27.6	682	4.20	67.8	0.5	10.5	1.4	29	0.2	1.3	0.2	85	0.28	0.091
1070082	Soil	1.1	79.1	9.6	91	<0.1	78.9	25.9	904	4.85	200.6	0.5	16.6	1.5	29	0.2	3.9	0.2	76	0.30	0.097
1070083	Soil	1.0	82.6	6.4	60	0.1	87.6	27.5	684	4.24	68.1	0.5	8.9	1.6	28	0.2	1.3	0.2	84	0.27	0.085
1070081	Soil	1.0	81.2	8.8	90	0.2	82.0	27.0	923	4.64	153.6	0.5	12.6	1.3	29	0.3	3.9	0.2	72	0.37	0.107
1070065	Soil	1.4	89.4	7.0	129	<0.1	61.8	19.7	628	5.44	30.9	0.9	4.0	2.6	29	0.2	0.4	0.3	139	0.29	0.084
1070059	Soil	1.0	85.8	4.6	72	<0.1	121.1	35.2	668	4.18	12.4	0.6	6.4	1.7	28	0.3	0.3	0.2	89	0.37	0.096
1070063	Soil	1.2	73.1	5.0	59	<0.1	41.1	15.5	473	3.75	9.6	0.6	5.5	1.4	24	0.2	0.4	0.2	85	0.33	0.132
1070061	Soil	1.2	112.0	5.8	77	0.2	82.1	29.0	598	4.42	17.0	0.7	2.7	1.8	32	0.3	0.4	0.2	93	0.38	0.146
1070071	Soil	0.7	63.4	4.0	50	<0.1	48.6	16.7	432	3.32	10.4	0.5	2.8	1.9	27	0.2	0.3	0.1	80	0.42	0.112
1070074	Soil	0.9	54.8	4.3	60	<0.1	32.5	12.8	298	2.85	17.6	0.5	1.8	1.4	26	0.1	0.4	0.1	72	0.34	0.104
1070068	Soil	1.4	90.7	7.0	73	<0.1	49.4	18.3	515	4.66	67.1	0.6	4.6	1.3	28	0.1	0.4	0.2	105	0.30	0.104
1070067	Soil	1.0	94.3	5.3	66	0.1	91.1	28.6	648	4.36	20.4	0.6	2.7	1.7	28	0.2	0.3	0.2	99	0.37	0.126
1070069	Soil	1.2	58.5	6.3	80	<0.1	44.0	17.3	560	4.07	14.6	0.6	2.8	1.4	25	0.2	0.4	0.2	102	0.31	0.103
1070070	Soil	1.0	78.3	5.9	59	0.1	55.3	22.4	575	3.77	17.1	0.6	6.3	1.5	26	0.3	0.4	0.2	89	0.35	0.122
1070066	Soil	1.1	76.9	4.7	66	<0.1	49.2	16.6	450	4.70	12.2	0.7	2.7	1.7	29	0.2	0.3	0.2	94	0.35	0.119
1070076	Soil	1.0	77.4	7.7	88	0.1	112.6	31.8	892	5.07	78.7	0.7	23.6	2.0	30	0.2	4.1	0.2	95	0.34	0.093
1070079	Soil	1.2	134.8	7.6	66	0.2	139.1	47.0	1025	5.20	164.0	0.6	13.4	1.5	37	0.3	1.4	0.2	95	0.46	0.167
1070080	Soil	1.2	97.7	6.0	60	<0.1	74.2	27.8	632	3.99	62.2	0.5	5.9	1.1	25	0.2	1.0	0.2	84	0.27	0.086
1070056	Soil	0.9	56.1	5.7	89	0.1	55.1	20.4	620	3.86	27.3	0.6	9.8	1.4	31	0.1	0.4	0.2	94	0.34	0.091
1070051	Soil	1.1	69.8	5.2	105	0.1	45.4	18.5	554	3.99	17.4	0.7	2.5	2.1	31	0.2	0.4	0.2	83	0.39	0.105
1070078	Soil	1.2	88.5	8.2	81	0.2	89.3	30.7	966	5.20	75.0	0.6	12.1	1.5	29	0.1	3.8	0.2	92	0.23	0.064
1070057	Soil	1.2	68.8	5.8	81	<0.1	61.1	20.9	607	4.23	20.4	0.6	3.4	1.6	26	0.2	0.5	0.2	95	0.31	0.083
1070077	Soil	1.4	55.2	7.7	64	0.1	47.6	20.4	766	3.98	37.6	0.6	13.4	0.9	28	0.1	0.8	0.2	91	0.28	0.086



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070073	Soil	10	75	1.26	184	0.154	1	2.75	0.027	0.37	<0.1	0.01	6.6	0.3	0.10	8	0.7	<0.2
1070072	Soil	11	53	0.95	126	0.113	4	2.19	0.020	0.23	<0.1	0.02	4.4	0.2	0.06	7	<0.5	<0.2
1070075	Soil	10	49	0.99	144	0.066	3	2.18	0.014	0.32	<0.1	0.04	6.8	0.2	<0.05	6	0.6	<0.2
1070058	Soil	8	55	0.97	104	0.095	1	2.18	0.014	0.18	<0.1	0.03	3.9	0.2	0.06	7	0.6	<0.2
1070060	Soil	8	56	0.96	92	0.094	2	2.21	0.015	0.21	<0.1	0.02	4.3	0.2	<0.05	7	<0.5	<0.2
1070062	Soil	8	59	1.04	109	0.113	<1	2.28	0.019	0.23	<0.1	0.02	4.7	0.3	<0.05	6	0.6	<0.2
1070064	Soil	7	65	1.04	114	0.130	3	2.29	0.018	0.24	0.1	0.02	5.1	0.2	0.05	7	<0.5	<0.2
1070084	Soil	6	56	0.93	100	0.100	3	2.04	0.012	0.27	<0.1	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
1070082	Soil	6	46	0.78	70	0.071	3	1.79	0.011	0.20	<0.1	0.02	5.0	0.2	<0.05	5	<0.5	<0.2
1070083	Soil	6	57	0.92	107	0.103	2	2.04	0.011	0.26	<0.1	<0.01	4.8	0.2	<0.05	5	0.5	<0.2
1070081	Soil	6	43	0.76	75	0.072	2	1.71	0.012	0.19	<0.1	0.02	4.5	0.1	<0.05	5	0.5	<0.2
1070065	Soil	9	100	1.60	201	0.170	2	3.43	0.016	0.37	<0.1	0.03	8.1	0.3	0.05	11	0.7	<0.2
1070059	Soil	7	59	1.06	102	0.125	<1	2.24	0.014	0.25	0.1	0.01	5.1	0.2	<0.05	6	0.8	<0.2
1070063	Soil	7	55	0.97	97	0.091	<1	2.16	0.015	0.24	<0.1	0.01	4.2	0.2	<0.05	6	0.7	<0.2
1070061	Soil	7	62	1.08	99	0.120	<1	2.43	0.017	0.25	0.1	0.02	5.2	0.2	0.06	7	0.7	<0.2
1070071	Soil	7	47	0.86	90	0.122	<1	1.88	0.014	0.20	<0.1	0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1070074	Soil	7	39	0.71	78	0.106	2	1.47	0.022	0.16	<0.1	0.01	3.6	0.1	<0.05	5	0.7	<0.2
1070068	Soil	7	71	1.16	127	0.126	1	2.61	0.017	0.27	0.1	0.03	5.6	0.2	0.08	8	0.8	<0.2
1070067	Soil	6	67	1.12	132	0.138	1	2.53	0.012	0.36	0.1	0.01	6.0	0.3	<0.05	7	<0.5	<0.2
1070069	Soil	6	66	1.09	116	0.132	<1	2.37	0.017	0.24	0.1	0.02	5.2	0.2	<0.05	7	<0.5	<0.2
1070070	Soil	7	55	0.96	98	0.116	<1	2.10	0.011	0.22	<0.1	0.03	4.8	0.2	<0.05	6	0.7	<0.2
1070066	Soil	7	60	1.01	118	0.126	<1	2.18	0.019	0.27	<0.1	<0.01	5.0	0.2	<0.05	7	0.6	<0.2
1070076	Soil	7	62	1.13	130	0.119	1	2.40	0.012	0.35	<0.1	0.01	7.1	0.2	<0.05	7	<0.5	<0.2
1070079	Soil	6	63	1.12	126	0.110	<1	2.50	0.012	0.33	<0.1	0.03	5.6	0.2	<0.05	7	0.7	<0.2
1070080	Soil	6	51	0.94	103	0.103	2	2.20	0.016	0.20	<0.1	0.02	4.9	0.2	<0.05	6	0.7	<0.2
1070056	Soil	6	63	1.02	124	0.104	1	2.25	0.017	0.26	0.1	0.03	4.5	0.2	<0.05	7	<0.5	<0.2
1070051	Soil	9	55	1.02	98	0.101	1	2.15	0.024	0.22	<0.1	0.03	4.4	0.2	0.09	7	0.7	<0.2
1070078	Soil	7	61	1.04	123	0.101	<1	2.37	0.011	0.27	0.1	0.02	5.5	0.2	<0.05	6	0.5	<0.2
1070057	Soil	6	63	1.07	99	0.117	<1	2.30	0.015	0.23	<0.1	0.02	4.9	0.2	<0.05	7	<0.5	<0.2
1070077	Soil	6	56	0.89	105	0.088	<1	2.00	0.014	0.18	<0.1	0.04	4.2	0.2	0.06	7	1.1	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064488	Soil	0.7	51.8	5.6	116	0.2	52.7	19.2	623	3.94	17.9	0.5	8.4	1.9	31	0.3	0.3	0.2	102	0.44	0.090
1070388	Soil	0.9	51.4	6.6	61	0.2	49.8	16.9	477	4.17	50.4	0.7	5.9	1.0	28	0.1	0.4	0.2	127	0.28	0.102
1070399	Soil	0.8	53.0	5.1	60	0.1	49.4	17.2	407	3.81	23.5	0.5	3.7	1.5	28	<0.1	0.3	0.2	114	0.28	0.081
1070398	Soil	0.8	46.5	5.8	67	<0.1	45.4	16.7	444	3.87	17.9	0.4	1.6	1.2	22	<0.1	0.2	0.1	118	0.20	0.039
1070396	Soil	0.9	64.9	6.2	70	0.2	54.3	20.7	475	4.60	31.9	0.6	3.0	1.4	46	<0.1	0.2	0.2	134	0.24	0.076
1070400	Soil	0.9	52.2	5.3	57	0.2	43.5	16.1	379	3.58	14.8	0.5	3.7	1.0	29	0.1	0.3	0.2	109	0.27	0.057
1070389	Soil	0.7	48.1	5.5	62	0.2	50.5	18.2	495	4.09	40.5	0.6	3.8	1.1	26	0.1	0.3	0.2	129	0.28	0.080
1070397	Soil	0.9	40.6	5.9	56	<0.1	39.9	14.3	387	3.53	17.5	0.5	5.5	1.0	29	0.2	0.3	0.2	105	0.25	0.050
1070393	Soil	0.8	52.2	6.7	78	0.1	55.9	18.8	426	4.39	61.1	0.6	4.8	1.0	25	<0.1	0.5	0.2	135	0.18	0.072
1070394	Soil	1.1	52.7	7.2	57	0.2	48.0	15.9	472	4.20	41.5	0.6	4.5	0.9	26	<0.1	0.4	0.2	125	0.20	0.067
1070269	Soil	1.2	80.0	6.3	85	0.2	60.8	21.5	452	5.12	31.9	0.5	3.1	1.2	50	0.2	0.3	0.2	137	0.27	0.081
1070055	Soil	1.4	79.1	7.5	105	0.2	76.9	26.5	616	4.42	109.2	0.7	434.0	1.8	25	0.2	0.6	0.2	92	0.28	0.098
1070053	Soil	0.8	74.7	5.6	92	<0.1	41.7	15.2	460	3.85	19.5	0.6	20.3	1.9	24	0.2	0.5	0.3	74	0.30	0.124
1070054	Soil	1.0	96.7	5.5	109	0.2	77.8	29.8	585	4.12	49.2	0.7	2.2	1.9	25	0.3	0.4	0.2	83	0.30	0.105
1070052	Soil	1.5	94.6	7.0	112	0.1	59.8	22.6	598	4.28	30.9	0.8	19.9	1.8	25	0.3	0.4	0.2	83	0.27	0.135
1070245	Soil	1.3	70.7	9.7	61	<0.1	69.4	23.2	471	4.77	301.0	0.5	15.8	0.9	14	0.1	1.5	0.2	105	0.14	0.076
1070241	Soil	1.0	63.8	8.3	66	0.1	57.3	23.4	549	4.45	245.3	0.5	12.4	1.0	22	0.2	0.9	0.2	116	0.19	0.065
1070233	Soil	1.1	62.9	8.2	60	0.3	55.1	20.5	521	4.41	673.9	0.6	86.8	1.2	29	0.2	4.4	0.2	96	0.24	0.083
1070244	Soil	1.3	48.8	7.5	59	0.1	41.8	16.2	488	3.81	71.2	0.6	1.1	0.7	22	<0.1	0.5	0.2	110	0.24	0.076
1070240	Soil	1.0	79.9	6.9	71	0.1	71.6	25.3	556	4.58	247.0	0.5	9.8	1.4	21	0.2	1.1	0.2	118	0.26	0.099
1070239	Soil	1.1	77.7	8.8	71	0.2	57.1	25.2	547	4.74	308.3	0.6	15.7	1.4	24	0.3	1.4	0.3	112	0.26	0.107
1070236	Soil	1.0	75.9	7.5	58	0.2	70.9	26.4	494	4.37	349.7	0.6	21.3	1.4	22	0.2	1.8	0.2	107	0.26	0.106
1070249	Soil	0.8	48.5	5.7	62	0.2	49.2	17.1	432	4.06	51.2	0.5	5.8	1.1	19	<0.1	0.3	0.2	127	0.20	0.072
1070234	Soil	0.7	55.0	5.6	52	0.1	54.2	19.8	456	3.80	160.3	0.5	12.2	1.8	24	0.3	1.4	0.2	102	0.37	0.136
1070238	Soil	0.8	51.9	6.3	54	0.2	53.1	18.4	463	3.83	275.4	0.5	14.5	1.5	21	0.2	1.5	0.2	106	0.25	0.090
1070237	Soil	0.9	65.1	7.5	60	0.2	61.8	23.3	499	4.22	653.9	0.6	31.9	1.4	26	0.2	2.3	0.2	106	0.23	0.097
1070250	Soil	0.6	44.2	4.5	55	0.1	46.6	15.8	430	3.79	40.1	0.5	6.4	1.3	20	0.2	0.2	0.1	118	0.28	0.104
1070235	Soil	0.8	57.6	5.3	51	0.1	55.6	19.5	489	3.70	161.2	0.6	16.9	1.8	24	0.3	1.4	0.1	100	0.38	0.138
1064490	Soil	1.3	32.1	8.2	174	0.3	35.8	21.9	945	3.86	11.9	0.5	2.9	1.5	33	0.7	0.4	0.2	90	0.48	0.090
1064489	Soil	0.9	56.9	5.6	107	0.2	58.1	22.7	550	4.23	16.9	0.5	0.6	1.8	27	0.2	0.2	0.2	100	0.38	0.116



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064488	Soil	6	67	1.05	165	0.152	<1	2.27	0.013	0.66	0.2	0.01	7.1	0.3	<0.05	8	<0.5	<0.2
1070388	Soil	6	82	1.16	311	0.158	<1	2.82	0.013	0.50	0.1	0.02	8.5	0.3	0.06	9	0.6	<0.2
1070399	Soil	5	77	1.10	270	0.174	<1	2.54	0.014	0.66	0.1	0.01	8.0	0.3	<0.05	8	<0.5	<0.2
1070398	Soil	4	81	1.17	235	0.188	<1	2.61	0.012	0.66	0.2	0.02	8.3	0.3	<0.05	9	<0.5	<0.2
1070396	Soil	5	91	1.28	369	0.190	<1	3.05	0.016	0.79	0.2	0.01	9.5	0.3	0.05	10	<0.5	<0.2
1070400	Soil	5	71	1.00	255	0.154	<1	2.29	0.012	0.50	<0.1	0.03	7.1	0.2	<0.05	8	0.6	<0.2
1070389	Soil	5	92	1.21	345	0.168	<1	2.74	0.012	0.65	0.1	0.02	8.9	0.3	<0.05	9	<0.5	<0.2
1070397	Soil	5	69	1.00	204	0.148	<1	2.37	0.011	0.52	0.2	0.03	6.3	0.2	<0.05	7	<0.5	<0.2
1070393	Soil	5	104	1.28	297	0.157	<1	2.92	0.011	0.73	0.1	0.02	9.0	0.3	<0.05	10	<0.5	<0.2
1070394	Soil	5	78	1.09	281	0.147	<1	2.69	0.011	0.65	0.1	0.03	7.7	0.3	<0.05	9	<0.5	<0.2
1070269	Soil	5	91	1.28	352	0.199	<1	3.05	0.018	0.83	0.2	0.02	9.0	0.3	0.10	10	0.5	<0.2
1070055	Soil	8	59	0.99	91	0.098	<1	2.26	0.011	0.20	0.2	0.03	4.3	0.2	<0.05	7	<0.5	<0.2
1070053	Soil	8	50	0.93	89	0.089	2	2.01	0.013	0.17	0.1	0.04	3.6	0.2	<0.05	6	0.6	<0.2
1070054	Soil	9	55	1.01	97	0.099	2	2.25	0.013	0.24	0.1	0.04	4.1	0.3	<0.05	7	0.6	<0.2
1070052	Soil	8	57	1.06	89	0.086	2	2.31	0.016	0.19	0.1	0.04	4.3	0.2	<0.05	7	1.1	<0.2
1070245	Soil	4	65	0.96	249	0.100	2	2.52	0.008	0.44	<0.1	0.05	6.4	0.2	<0.05	7	<0.5	<0.2
1070241	Soil	5	85	1.23	253	0.120	2	2.80	0.011	0.48	0.1	0.05	7.2	0.3	<0.05	9	<0.5	<0.2
1070233	Soil	6	63	0.98	231	0.097	3	2.43	0.015	0.46	0.2	0.04	6.6	0.2	0.05	7	1.4	<0.2
1070244	Soil	6	65	0.97	216	0.114	2	2.34	0.011	0.34	0.1	0.06	5.8	0.2	<0.05	8	<0.5	<0.2
1070240	Soil	6	77	1.17	253	0.151	2	2.77	0.012	0.57	0.2	0.01	8.3	0.3	<0.05	9	<0.5	<0.2
1070239	Soil	6	69	1.04	239	0.123	2	2.52	0.015	0.46	0.1	0.03	7.1	0.3	<0.05	8	<0.5	<0.2
1070236	Soil	6	71	1.01	220	0.125	2	2.58	0.013	0.48	0.2	<0.01	7.1	0.3	<0.05	7	<0.5	<0.2
1070249	Soil	5	100	1.31	309	0.158	1	2.88	0.012	0.72	0.2	0.03	8.5	0.3	<0.05	9	0.9	<0.2
1070234	Soil	7	61	0.97	175	0.117	1	2.05	0.014	0.42	0.3	0.02	6.2	0.2	<0.05	6	<0.5	<0.2
1070238	Soil	6	71	1.01	236	0.124	1	2.39	0.013	0.50	0.2	0.02	6.7	0.2	<0.05	7	0.6	<0.2
1070237	Soil	6	68	1.05	219	0.112	2	2.46	0.014	0.44	0.2	0.01	6.6	0.2	<0.05	7	<0.5	<0.2
1070250	Soil	5	84	1.19	296	0.154	1	2.51	0.012	0.72	0.2	<0.01	8.4	0.3	<0.05	8	0.6	<0.2
1070235	Soil	8	61	0.99	179	0.121	<1	2.13	0.015	0.42	0.1	<0.01	6.1	0.2	<0.05	6	<0.5	<0.2
1064490	Soil	6	56	0.94	183	0.121	2	2.18	0.012	0.40	0.1	0.03	5.3	0.2	<0.05	8	<0.5	<0.2
1064489	Soil	6	66	1.15	182	0.138	1	2.58	0.013	0.62	0.2	0.02	6.6	0.3	<0.05	8	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1084978	Soil	0.7	40.4	3.8	84	0.1	37.4	14.1	362	3.44	8.3	0.7	1.9	3.1	22	0.1	0.2	0.1	81	0.29	0.082
1084977	Soil	0.9	52.2	4.3	95	0.1	42.2	15.8	471	4.09	7.9	0.9	<0.5	3.9	25	0.1	0.2	0.1	89	0.34	0.080
1084976	Soil	1.0	50.0	4.6	94	0.1	40.5	15.8	476	3.84	9.2	0.7	1.2	2.7	24	0.2	0.3	0.1	88	0.30	0.059
1084975	Soil	0.9	56.8	4.6	96	0.3	46.7	18.6	470	4.06	8.3	0.9	1.9	2.5	27	0.2	0.3	0.1	96	0.27	0.072
1070242	Soil	0.8	64.5	6.5	57	0.1	59.6	21.4	540	4.09	142.8	0.5	9.9	1.3	23	0.2	0.6	0.2	114	0.25	0.070
1070246	Soil	0.9	55.5	6.5	56	0.2	49.9	18.8	487	3.91	105.8	0.6	10.8	1.2	21	0.2	0.5	0.2	111	0.26	0.100
1070386	Soil	0.7	46.1	5.2	67	0.2	50.8	16.4	386	4.03	39.7	0.6	5.9	1.2	19	<0.1	0.2	0.1	133	0.20	0.080
1070248	Soil	1.0	49.0	6.1	55	0.1	51.2	16.7	435	4.04	69.2	0.5	8.0	1.3	19	<0.1	0.4	0.2	119	0.20	0.081
1070390	Soil	0.8	44.3	6.6	68	0.2	47.8	19.2	581	4.43	33.0	0.7	4.1	0.8	23	0.1	0.3	0.2	135	0.24	0.100
1070392	Soil	0.7	53.6	5.5	61	0.2	51.1	15.3	377	4.31	35.2	0.5	5.8	1.1	17	<0.1	0.2	0.2	131	0.17	0.081
1070243	Soil	1.0	73.2	4.4	117	0.1	71.2	27.4	616	5.28	101.8	0.6	5.0	1.5	22	0.3	0.3	0.2	176	0.33	0.111
1070387	Soil	0.7	47.2	5.0	66	0.2	52.6	15.3	342	4.20	41.3	0.5	5.1	1.4	20	<0.1	0.3	0.2	130	0.21	0.085
1070391	Soil	0.5	44.5	5.4	60	0.2	54.8	14.8	332	4.45	31.4	0.6	2.2	1.6	18	<0.1	0.2	0.2	136	0.19	0.076
1070247	Soil	1.3	54.5	7.5	57	0.2	50.0	17.6	510	4.28	104.2	0.6	6.3	0.8	23	0.2	0.5	0.2	122	0.23	0.090
1070395	Soil	0.7	47.0	6.1	64	0.3	53.9	15.8	378	4.16	40.5	0.5	3.0	1.2	24	0.1	0.3	0.2	120	0.22	0.087
1084957	Soil	1.0	40.3	4.8	81	0.2	36.9	14.9	409	3.07	24.7	0.8	0.5	0.8	33	0.2	0.3	0.2	69	0.48	0.125
1084955	Soil	1.2	77.2	8.4	119	0.3	73.8	24.2	702	4.66	184.0	1.2	6.7	3.8	47	0.2	0.5	0.2	79	0.34	0.087
1084956	Soil	1.0	79.9	7.4	120	0.2	78.5	24.3	630	4.33	100.0	1.4	6.0	4.3	35	0.2	0.4	0.2	86	0.38	0.081
1084954	Soil	1.2	78.0	8.6	124	0.3	79.6	24.2	707	4.64	186.8	1.3	4.2	3.9	50	0.2	0.5	0.2	81	0.35	0.084
1084953	Soil	1.4	87.3	8.5	107	0.2	82.1	22.9	518	4.28	34.8	1.2	4.2	4.0	38	0.1	0.3	0.3	87	0.37	0.071
1084952	Soil	0.8	51.9	6.7	85	0.2	45.7	16.4	500	3.62	26.0	1.0	2.8	1.9	34	0.2	0.3	0.2	79	0.45	0.097
1084951	Soil	1.2	137.5	8.4	116	0.1	89.3	41.1	965	3.89	60.7	1.0	2.5	3.3	56	<0.1	0.2	0.2	70	0.47	0.094
1084986	Soil	1.1	82.5	6.0	102	0.2	59.1	21.3	671	4.59	13.2	1.0	2.5	3.4	27	0.1	0.4	0.1	97	0.36	0.050
1084985	Soil	1.0	81.8	6.1	107	0.3	55.4	19.1	659	4.28	11.9	0.8	4.6	2.9	38	0.2	0.5	0.2	88	0.74	0.087
1084984	Soil	0.9	69.5	5.0	101	0.1	56.6	18.9	585	4.27	11.0	0.8	0.9	3.4	30	0.2	0.3	0.2	96	0.49	0.058
1084983	Soil	1.2	102.5	7.5	98	0.3	58.1	19.3	571	4.73	16.5	1.4	3.1	2.9	39	0.1	0.6	0.2	94	0.51	0.071
1084982	Soil	0.8	55.2	6.0	84	<0.1	44.8	17.6	503	3.71	11.5	0.8	2.9	2.7	16	0.1	0.4	0.2	76	0.13	0.047
1084981	Soil	1.0	61.9	10.6	83	0.1	41.5	16.6	611	3.43	13.6	0.5	5.8	1.7	24	0.2	0.7	0.1	66	0.33	0.045
1084980	Soil	0.9	81.9	5.7	94	0.2	51.4	17.8	531	3.86	11.9	0.9	3.8	3.7	23	0.2	0.4	0.2	80	0.29	0.070
1084979	Soil	1.0	82.8	5.8	94	0.2	50.4	18.5	545	3.94	11.4	0.9	3.8	3.6	23	0.3	0.4	0.2	83	0.28	0.069



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1084978	Soil	11	64	1.15	134	0.115	<1	2.15	0.013	0.39	<0.1	0.03	4.6	0.3	<0.05	7	<0.5	<0.2
1084977	Soil	13	69	1.34	187	0.142	<1	2.37	0.014	0.50	<0.1	0.02	6.2	0.3	<0.05	8	<0.5	<0.2
1084976	Soil	10	65	1.20	161	0.128	2	2.30	0.015	0.42	<0.1	<0.01	4.7	0.3	<0.05	7	<0.5	<0.2
1084975	Soil	11	74	1.32	179	0.130	2	2.49	0.016	0.52	<0.1	0.04	5.5	0.3	0.05	8	0.5	<0.2
1070242	Soil	6	70	1.09	254	0.134	2	2.56	0.014	0.47	0.1	0.04	7.5	0.3	<0.05	7	0.6	<0.2
1070246	Soil	7	70	1.05	221	0.127	1	2.44	0.012	0.46	0.2	0.02	7.0	0.2	<0.05	8	<0.5	<0.2
1070386	Soil	6	102	1.34	314	0.159	<1	3.16	0.011	0.78	0.1	0.03	9.7	0.3	<0.05	10	<0.5	<0.2
1070248	Soil	6	78	1.12	250	0.139	<1	2.65	0.012	0.57	0.3	0.02	7.4	0.3	<0.05	8	<0.5	<0.2
1070390	Soil	6	94	1.31	329	0.137	<1	3.08	0.013	0.43	0.1	0.04	8.5	0.3	0.06	10	<0.5	<0.2
1070392	Soil	6	93	1.30	296	0.171	1	3.04	0.011	0.87	0.4	0.06	10.0	0.3	<0.05	10	<0.5	<0.2
1070243	Soil	7	176	2.12	418	0.210	1	3.32	0.017	0.84	<0.1	0.01	14.6	0.3	0.08	13	0.6	<0.2
1070387	Soil	5	103	1.30	322	0.166	<1	3.08	0.011	0.87	0.2	0.03	10.2	0.3	<0.05	10	<0.5	<0.2
1070391	Soil	6	120	1.48	338	0.174	<1	3.06	0.011	0.96	0.1	0.03	10.4	0.3	<0.05	10	<0.5	<0.2
1070247	Soil	6	77	1.10	243	0.118	<1	2.81	0.011	0.45	0.1	0.04	7.2	0.3	0.10	8	0.7	<0.2
1070395	Soil	5	80	1.23	298	0.150	<1	3.12	0.011	0.83	0.2	0.02	9.1	0.3	0.05	9	0.6	<0.2
1084957	Soil	12	47	0.83	91	0.060	1	1.67	0.018	0.14	<0.1	0.05	2.8	0.1	0.10	6	<0.5	<0.2
1084955	Soil	20	62	1.21	91	0.055	<1	2.68	0.013	0.20	<0.1	0.05	4.6	0.2	<0.05	7	0.9	<0.2
1084956	Soil	21	64	1.19	85	0.070	<1	2.56	0.014	0.27	<0.1	0.02	4.9	0.3	<0.05	7	0.7	<0.2
1084954	Soil	21	64	1.29	91	0.056	<1	2.87	0.013	0.21	<0.1	0.03	4.7	0.2	<0.05	8	0.8	<0.2
1084953	Soil	17	67	1.20	94	0.056	<1	2.85	0.013	0.24	<0.1	0.03	4.3	0.3	<0.05	7	1.0	<0.2
1084952	Soil	12	60	0.98	101	0.062	1	2.06	0.014	0.17	<0.1	0.06	3.3	0.2	0.05	6	0.6	<0.2
1084951	Soil	25	57	1.06	83	0.033	<1	2.53	0.008	0.17	<0.1	0.02	3.5	0.2	<0.05	6	0.8	<0.2
1084986	Soil	13	73	1.34	214	0.130	1	2.67	0.016	0.45	<0.1	0.02	5.4	0.3	<0.05	8	0.6	0.2
1084985	Soil	14	66	1.28	189	0.101	2	2.31	0.018	0.36	<0.1	0.07	5.4	0.4	<0.05	7	<0.5	<0.2
1084984	Soil	13	76	1.40	207	0.122	1	2.52	0.018	0.44	<0.1	0.04	5.8	0.3	<0.05	8	<0.5	<0.2
1084983	Soil	17	74	1.22	266	0.105	3	2.69	0.016	0.32	<0.1	0.09	6.7	0.2	<0.05	8	1.1	0.2
1084982	Soil	12	60	0.99	127	0.081	2	2.17	0.009	0.26	<0.1	0.02	4.0	0.2	<0.05	7	<0.5	<0.2
1084981	Soil	8	49	0.89	106	0.068	2	1.57	0.012	0.15	<0.1	0.03	3.4	0.1	<0.05	5	<0.5	<0.2
1084980	Soil	14	66	1.05	132	0.092	1	2.00	0.011	0.26	<0.1	0.04	4.9	0.3	<0.05	6	<0.5	<0.2
1084979	Soil	13	65	1.10	140	0.096	<1	2.14	0.010	0.26	<0.1	0.03	4.6	0.3	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1084972	Soil	1.0	36.1	6.3	70	<0.1	28.9	12.7	371	3.01	8.8	0.7	5.0	1.4	23	0.3	0.4	0.2	73	0.27	0.051
1084971	Soil	1.0	37.4	5.6	78	0.2	31.0	11.9	327	3.08	7.9	0.7	5.7	1.5	22	0.2	0.3	0.2	76	0.22	0.058
1084970	Soil	1.1	44.9	5.8	84	0.1	37.9	14.1	371	3.48	8.4	0.9	3.4	1.8	27	0.2	0.4	0.2	81	0.28	0.064
1084969	Soil	1.1	54.2	7.3	79	0.2	43.3	15.8	425	3.68	12.5	1.0	4.6	1.2	33	0.2	0.6	0.2	86	0.34	0.074
1084968	Soil	0.8	46.9	4.7	78	0.2	37.5	14.8	351	3.25	7.5	0.7	3.0	2.1	20	0.2	0.3	0.1	76	0.19	0.046
1084967	Soil	1.1	35.9	6.0	70	0.1	29.6	12.9	364	3.13	8.2	0.7	2.1	1.3	25	0.1	0.4	0.1	79	0.26	0.064
1084966	Soil	0.9	61.3	4.0	80	0.1	40.8	18.9	406	3.60	7.9	0.6	1.8	2.1	21	0.1	0.3	0.1	86	0.16	0.040
1084965	Soil	1.3	46.3	7.5	77	<0.1	33.5	16.8	486	3.74	8.7	0.7	2.2	0.9	30	<0.1	0.5	0.2	97	0.27	0.069
1084964	Soil	1.1	53.8	5.2	88	0.1	42.2	19.3	451	3.78	7.4	0.6	1.6	2.0	39	0.2	0.3	0.1	92	0.31	0.064
1084963	Soil	1.0	51.6	6.1	88	0.1	41.9	17.2	465	3.74	13.3	0.7	2.7	1.2	26	0.2	0.4	0.1	91	0.25	0.057
1084962	Soil	1.0	50.2	5.2	87	<0.1	41.2	16.4	439	3.69	10.6	0.6	1.7	2.6	26	0.1	0.4	0.1	95	0.21	0.044
1084961	Soil	0.9	57.3	5.6	102	0.2	64.3	22.0	479	3.93	20.8	0.8	4.7	2.8	23	<0.1	0.3	0.2	94	0.19	0.036
1084960	Soil	0.9	59.6	6.1	86	0.1	49.4	18.1	459	3.64	16.4	1.0	2.7	3.2	29	0.2	0.3	0.2	85	0.26	0.069
1084959	Soil	1.0	43.5	5.5	66	0.2	28.9	14.1	395	2.47	9.1	0.9	2.3	0.8	45	0.3	0.4	0.1	52	0.69	0.147
1084958	Soil	1.2	66.9	6.4	91	0.2	54.5	18.9	440	3.76	14.4	1.1	3.2	2.4	28	0.2	0.3	0.2	78	0.26	0.067
1077970	Soil	0.4	27.3	3.5	57	<0.1	27.9	10.8	316	2.84	18.4	0.5	5.0	1.8	27	<0.1	0.1	0.1	75	0.35	0.096
1077964	Soil	0.5	25.6	3.3	49	0.1	25.3	10.1	284	2.44	17.4	0.5	3.7	1.1	26	<0.1	0.1	0.1	67	0.33	0.097
1077965	Soil	0.4	28.4	3.0	47	<0.1	28.0	10.0	274	2.57	26.3	0.5	5.2	1.7	24	<0.1	0.1	0.1	68	0.29	0.091
1077966	Soil	0.4	24.2	2.4	43	<0.1	24.4	9.1	263	2.32	18.8	0.5	6.4	1.6	23	<0.1	<0.1	<0.1	65	0.32	0.097
1077967	Soil	0.4	24.3	2.9	48	<0.1	24.6	10.2	298	2.41	19.5	0.4	3.4	1.5	26	<0.1	<0.1	0.1	65	0.31	0.090
1077968	Soil	0.4	20.4	2.4	41	<0.1	22.7	8.2	243	2.17	20.4	0.4	6.9	1.2	25	<0.1	<0.1	0.1	59	0.31	0.088
1077969	Soil	0.4	27.7	3.5	56	0.1	28.6	10.9	310	2.92	19.7	0.5	6.2	1.8	27	<0.1	0.1	0.1	74	0.33	0.093
1077959	Soil	0.3	24.1	2.6	51	<0.1	27.1	10.0	300	2.47	21.6	0.4	1.8	1.2	17	<0.1	<0.1	0.1	72	0.27	0.098
1077960	Soil	0.5	25.3	4.2	71	0.1	25.8	8.9	245	2.55	22.7	0.4	2.9	1.1	20	<0.1	0.1	0.2	68	0.21	0.059
1077961	Soil	0.5	24.2	4.2	66	<0.1	25.5	8.9	241	2.50	23.0	0.4	22.1	1.1	19	<0.1	0.1	0.2	67	0.22	0.054
1077962	Soil	0.8	26.0	4.1	61	0.2	25.6	9.7	281	2.58	25.4	0.4	2.7	1.1	27	0.1	0.2	0.2	71	0.27	0.053
1077963	Soil	0.8	30.1	4.9	50	0.1	26.9	11.4	290	2.82	26.7	0.5	3.8	1.2	23	0.1	0.2	0.2	73	0.25	0.068
1077958	Soil	0.6	21.5	4.1	76	<0.1	27.2	10.6	345	2.77	30.6	0.3	2.8	1.3	21	<0.1	0.1	0.2	69	0.27	0.079
1084974	Soil	0.9	53.8	3.9	84	0.1	42.1	14.8	386	3.33	7.5	0.7	2.9	2.5	22	0.1	0.3	0.1	76	0.23	0.074
1084973	Soil	1.2	71.8	6.1	99	0.2	58.5	23.1	624	3.89	9.4	0.9	2.2	2.2	25	0.2	0.3	0.2	82	0.26	0.075



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1084972	Soil	9	52	0.84	108	0.090	1	1.84	0.009	0.28	<0.1	0.04	3.2	0.2	0.06	6	<0.5	<0.2
1084971	Soil	8	58	0.88	120	0.085	<1	1.97	0.010	0.29	<0.1	0.02	3.3	0.2	0.07	6	<0.5	<0.2
1084970	Soil	11	57	0.98	120	0.096	2	2.06	0.011	0.28	<0.1	0.02	3.5	0.2	0.07	7	<0.5	<0.2
1084969	Soil	12	61	1.02	133	0.083	2	2.12	0.011	0.27	<0.1	0.03	3.9	0.2	0.06	7	<0.5	<0.2
1084968	Soil	10	54	0.93	134	0.104	1	2.08	0.011	0.37	<0.1	0.03	3.7	0.2	0.07	6	<0.5	<0.2
1084967	Soil	9	52	0.87	122	0.078	<1	1.83	0.012	0.23	<0.1	0.03	3.1	0.2	0.08	6	<0.5	<0.2
1084966	Soil	11	54	1.07	170	0.127	<1	2.11	0.013	0.49	<0.1	0.01	4.6	0.3	0.06	7	<0.5	<0.2
1084965	Soil	9	54	1.02	188	0.090	<1	2.21	0.012	0.24	<0.1	0.03	4.0	0.2	<0.05	8	<0.5	<0.2
1084964	Soil	11	59	1.13	224	0.126	<1	2.18	0.013	0.45	<0.1	0.02	4.6	0.3	<0.05	8	<0.5	<0.2
1084963	Soil	8	62	1.16	179	0.103	<1	2.34	0.009	0.48	<0.1	0.02	4.3	0.2	0.05	8	<0.5	<0.2
1084962	Soil	10	64	1.15	181	0.136	<1	2.36	0.013	0.43	<0.1	0.02	5.0	0.3	<0.05	7	<0.5	<0.2
1084961	Soil	13	69	1.16	142	0.125	1	2.48	0.012	0.33	<0.1	0.02	4.7	0.3	<0.05	8	<0.5	<0.2
1084960	Soil	14	61	1.03	138	0.099	<1	2.27	0.014	0.29	<0.1	0.03	4.5	0.3	<0.05	7	<0.5	<0.2
1084959	Soil	11	37	0.62	79	0.035	2	1.35	0.013	0.11	<0.1	0.07	1.6	0.1	0.13	4	<0.5	<0.2
1084958	Soil	14	56	0.96	84	0.070	1	2.08	0.017	0.19	<0.1	0.02	3.3	0.2	0.07	6	0.7	<0.2
1077970	Soil	7	55	0.92	246	0.130	<1	1.91	0.014	0.48	0.3	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2
1077964	Soil	6	46	0.75	222	0.121	<1	1.78	0.013	0.41	0.2	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
1077965	Soil	7	48	0.78	255	0.128	<1	1.83	0.013	0.42	0.3	<0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1077966	Soil	6	44	0.74	247	0.128	<1	1.68	0.017	0.42	0.2	<0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1077967	Soil	7	46	0.74	236	0.123	<1	1.61	0.012	0.35	0.2	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
1077968	Soil	5	42	0.66	233	0.117	<1	1.45	0.013	0.34	0.3	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2
1077969	Soil	7	54	0.91	238	0.131	1	1.99	0.016	0.46	0.2	<0.01	4.8	0.2	<0.05	6	<0.5	<0.2
1077959	Soil	5	49	0.73	268	0.146	<1	1.63	0.016	0.59	0.2	<0.01	4.9	0.2	<0.05	6	<0.5	<0.2
1077960	Soil	5	47	0.81	184	0.125	<1	1.81	0.010	0.38	0.2	0.02	3.9	0.2	<0.05	7	<0.5	<0.2
1077961	Soil	5	47	0.74	181	0.124	<1	1.67	0.008	0.38	0.2	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
1077962	Soil	5	48	0.77	226	0.133	1	1.81	0.010	0.38	0.2	0.02	4.3	0.2	<0.05	7	<0.5	<0.2
1077963	Soil	6	48	0.71	206	0.121	1	1.85	0.010	0.35	0.4	0.02	4.1	0.2	<0.05	6	<0.5	<0.2
1077958	Soil	5	48	0.79	183	0.130	1	1.67	0.010	0.39	0.2	<0.01	3.9	0.2	<0.05	6	<0.5	<0.2
1084974	Soil	10	55	1.01	142	0.102	<1	1.90	0.010	0.43	<0.1	0.01	4.2	0.2	<0.05	6	<0.5	<0.2
1084973	Soil	15	57	0.96	127	0.083	<1	2.02	0.008	0.28	<0.1	0.03	3.6	0.2	<0.05	7	<0.5	<0.2



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Project: SAP
Report Date: September 04, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1077952	Soil	0.6	30.3	4.1	59	0.1	29.6	12.6	352	2.83	18.2	0.5	9.6	1.0	18	<0.1	0.1	0.2	87	0.24	0.089
1061847	Soil	0.4	30.7	5.5	70	0.1	34.5	12.9	310	3.33	17.5	0.4	5.9	1.3	17	<0.1	0.1	0.2	95	0.21	0.071
1061840	Soil	0.5	36.9	5.3	75	0.2	39.9	15.1	405	3.42	46.7	0.6	23.4	1.9	20	0.2	0.2	0.3	103	0.25	0.077
1061838	Soil	0.5	32.6	4.8	75	<0.1	38.0	14.9	380	4.06	45.5	0.5	8.2	1.7	16	<0.1	0.2	0.2	104	0.24	0.079
1061839	Soil	0.3	32.1	5.1	79	0.1	41.3	16.7	386	3.47	25.0	0.5	351.6	1.9	18	<0.1	0.2	0.2	103	0.27	0.078
1061836	Soil	0.4	39.1	5.2	78	0.1	38.5	13.4	299	2.98	10.3	0.5	20.8	1.8	18	<0.1	0.2	0.2	98	0.25	0.074
1061837	Soil	0.3	39.1	6.0	76	0.1	38.5	14.0	309	2.94	9.7	0.6	9.7	1.9	18	0.2	0.2	0.2	94	0.23	0.066
1061835	Soil	0.4	32.7	5.1	92	0.2	42.4	14.8	375	3.33	12.3	0.5	9.7	1.4	19	0.1	0.2	0.2	98	0.26	0.089
1061834	Soil	0.5	46.6	5.1	60	0.3	30.8	10.5	275	3.23	73.6	0.7	7.8	1.1	19	0.3	0.2	0.2	99	0.25	0.096
1061842	Soil	0.4	29.7	4.7	78	<0.1	36.1	12.6	348	3.16	24.7	0.5	11.7	1.6	16	<0.1	0.2	0.2	99	0.24	0.077
1061841	Soil	0.4	31.3	4.9	75	0.1	35.3	12.3	337	3.15	32.3	0.4	15.2	1.4	15	<0.1	0.2	0.2	103	0.22	0.075
1061843	Soil	0.4	28.9	5.0	66	0.1	32.1	12.1	313	3.00	26.2	0.5	7.0	1.5	14	<0.1	0.1	0.2	90	0.18	0.063
1061845	Soil	0.5	31.6	4.7	69	0.1	33.4	15.5	392	3.10	21.2	0.5	5.0	1.7	18	0.1	0.2	0.2	89	0.21	0.068
1061844	Soil	0.4	27.5	5.0	66	0.1	31.9	11.9	312	3.05	28.1	0.5	12.9	1.7	15	0.1	0.2	0.2	90	0.19	0.064
1077971	Soil	0.4	23.6	2.6	46	<0.1	24.6	8.9	271	2.33	15.4	0.5	6.4	2.0	25	<0.1	<0.1	0.1	62	0.33	0.098
1076825	Soil	1.2	51.9	6.4	79	0.4	47.1	22.4	529	3.92	126.6	0.8	11.1	1.5	40	<0.1	0.4	0.2	113	0.33	0.066
1076828	Soil	0.8	45.7	4.6	64	0.2	42.1	19.6	492	3.35	85.6	0.6	6.1	1.1	36	<0.1	0.2	0.2	104	0.33	0.074
1076827	Soil	1.0	44.5	4.6	68	0.3	39.0	18.1	376	3.32	90.4	0.7	13.2	1.1	41	<0.1	0.2	0.2	98	0.36	0.071
1076826	Soil	1.2	34.1	6.0	68	0.3	31.3	16.1	377	3.02	65.4	0.5	4.0	1.2	47	0.3	0.3	0.2	89	0.36	0.046
1076829	Soil	0.8	47.0	4.1	72	0.2	43.0	16.5	345	3.42	120.2	0.5	10.0	1.5	41	<0.1	0.2	0.2	113	0.34	0.067
1061846	Soil	0.5	28.0	5.2	72	0.1	35.8	14.5	355	3.26	17.6	0.4	6.3	1.4	21	<0.1	0.1	0.2	98	0.27	0.079
1061848	Soil	0.4	32.2	4.6	63	<0.1	33.0	11.5	288	2.79	13.6	0.5	8.5	1.9	18	<0.1	0.2	0.2	88	0.24	0.074
1077951	Soil	0.5	28.3	4.0	56	0.1	29.1	11.8	353	2.75	18.0	0.5	9.5	1.1	18	<0.1	<0.1	0.2	83	0.23	0.079
1077957	Soil	0.7	29.3	4.9	67	0.2	28.1	11.6	334	2.90	37.7	0.4	6.4	0.9	23	<0.1	0.1	0.2	86	0.25	0.061
1077955	Soil	0.6	19.1	3.9	51	<0.1	20.2	10.6	393	2.26	10.6	0.3	2.5	0.6	24	<0.1	<0.1	0.1	73	0.28	0.063
1077953	Soil	0.4	23.1	3.1	53	<0.1	25.4	9.2	277	2.48	12.6	0.4	8.0	1.3	14	<0.1	<0.1	0.1	77	0.21	0.090
1077956	Soil	0.6	23.0	4.2	54	<0.1	25.3	13.1	420	2.42	21.9	0.4	6.1	0.8	24	<0.1	0.1	0.2	70	0.28	0.071
1061849	Soil	0.5	33.4	4.5	62	0.2	31.8	14.6	384	2.84	16.5	0.6	5.2	1.4	16	<0.1	0.1	0.2	84	0.20	0.074
1061850	Soil	0.4	28.8	3.5	59	0.1	29.7	11.3	290	2.62	12.0	0.5	4.9	1.4	17	<0.1	<0.1	0.2	82	0.22	0.081
1077954	Soil	0.5	23.1	4.5	53	0.1	25.1	8.9	249	2.65	12.0	0.5	24.1	0.8	18	<0.1	<0.1	0.2	83	0.22	0.075



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077952	Soil	5	58	0.86	258	0.148	1	2.21	0.009	0.52	0.2	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1061847	Soil	5	67	0.98	254	0.172	<1	2.50	0.010	0.64	0.2	0.01	6.9	0.3	<0.05	8	<0.5	<0.2
1061840	Soil	6	74	1.00	292	0.204	<1	2.84	0.012	0.72	0.2	0.03	8.3	0.3	<0.05	9	<0.5	<0.2
1061838	Soil	5	72	1.00	278	0.220	<1	2.68	0.013	0.70	0.3	0.02	8.2	0.3	<0.05	9	<0.5	<0.2
1061839	Soil	6	75	1.09	304	0.221	<1	2.83	0.012	0.70	0.4	0.02	8.2	0.3	<0.05	9	<0.5	<0.2
1061836	Soil	6	68	0.95	248	0.211	<1	2.53	0.011	0.60	0.3	0.02	7.7	0.3	<0.05	8	<0.5	<0.2
1061837	Soil	6	71	0.99	259	0.207	<1	2.81	0.012	0.61	0.2	0.04	8.3	0.3	<0.05	9	<0.5	<0.2
1061835	Soil	5	76	1.09	311	0.216	<1	3.02	0.012	0.71	0.2	0.04	8.7	0.3	<0.05	9	<0.5	<0.2
1061834	Soil	6	61	0.78	217	0.146	<1	2.35	0.010	0.44	0.2	0.06	7.0	0.2	<0.05	7	0.7	<0.2
1061842	Soil	5	71	1.00	283	0.218	<1	2.63	0.012	0.74	0.3	0.02	8.1	0.3	<0.05	9	<0.5	<0.2
1061841	Soil	5	73	0.96	288	0.208	<1	2.62	0.011	0.72	0.3	0.02	7.8	0.3	<0.05	8	0.6	<0.2
1061843	Soil	6	63	0.85	268	0.175	<1	2.38	0.009	0.60	0.2	0.02	6.4	0.2	<0.05	8	0.6	<0.2
1061845	Soil	6	64	0.88	255	0.179	<1	2.32	0.009	0.56	0.2	0.02	6.5	0.2	<0.05	8	<0.5	<0.2
1061844	Soil	6	64	0.85	261	0.180	1	2.30	0.010	0.61	0.3	0.01	6.6	0.3	<0.05	8	0.6	<0.2
1077971	Soil	8	46	0.77	218	0.127	<1	1.63	0.015	0.35	0.2	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1076825	Soil	7	83	1.19	280	0.141	<1	2.77	0.014	0.57	0.4	0.05	7.0	0.3	0.06	9	0.9	<0.2
1076828	Soil	6	75	1.08	272	0.153	<1	2.34	0.015	0.53	0.5	0.03	6.4	0.2	0.05	8	<0.5	<0.2
1076827	Soil	6	66	1.02	265	0.142	<1	2.34	0.017	0.54	0.7	0.05	5.9	0.2	0.07	8	0.7	<0.2
1076826	Soil	6	56	0.82	185	0.132	<1	1.81	0.013	0.37	0.3	0.05	4.6	0.2	0.06	8	0.6	<0.2
1076829	Soil	7	90	1.14	292	0.161	<1	2.28	0.015	0.60	0.5	0.03	6.9	0.2	0.06	9	0.6	<0.2
1061846	Soil	6	69	1.01	294	0.189	<1	2.53	0.011	0.62	0.2	0.01	7.0	0.3	<0.05	8	0.6	<0.2
1061848	Soil	7	62	0.85	249	0.178	<1	2.26	0.010	0.61	0.2	<0.01	6.6	0.2	<0.05	7	0.5	<0.2
1077951	Soil	5	57	0.77	255	0.148	<1	2.13	0.009	0.50	0.1	0.01	5.8	0.2	<0.05	7	0.5	<0.2
1077957	Soil	4	62	0.84	221	0.145	<1	1.97	0.009	0.34	0.2	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
1077955	Soil	4	43	0.61	234	0.123	<1	1.44	0.008	0.19	0.1	<0.01	3.8	0.1	<0.05	6	<0.5	<0.2
1077953	Soil	5	54	0.74	244	0.141	<1	1.85	0.008	0.57	0.2	<0.01	5.4	0.2	<0.05	6	0.6	<0.2
1077956	Soil	5	47	0.70	217	0.128	<1	1.68	0.009	0.26	0.2	0.01	4.4	0.1	<0.05	6	0.5	<0.2
1061849	Soil	6	59	0.83	256	0.159	<1	2.29	0.009	0.55	0.2	0.02	6.2	0.2	<0.05	7	<0.5	<0.2
1061850	Soil	5	58	0.82	266	0.158	<1	1.97	0.009	0.60	0.1	<0.01	6.2	0.2	<0.05	7	<0.5	<0.2
1077954	Soil	5	56	0.77	220	0.133	<1	1.98	0.007	0.24	0.1	<0.01	5.0	0.2	<0.05	7	0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1076821	Soil		1.1	57.2	6.0	85	0.5	50.2	26.7	524	3.74	121.6	1.0	12.6	1.4	58	0.1	0.2	0.2	113	0.51
1076818	Soil		0.7	36.2	3.9	81	0.2	40.0	16.9	335	3.29	79.5	0.5	4.7	1.9	31	<0.1	0.2	0.1	95	0.35
1076823	Soil		0.7	27.0	3.6	40	0.1	17.4	7.6	176	1.84	38.5	0.5	2.9	0.8	27	0.2	0.2	0.1	56	0.29
1076819	Soil		0.9	46.8	5.1	76	0.3	43.7	15.2	321	3.29	110.5	0.7	6.9	1.4	33	<0.1	0.2	0.2	95	0.31
1076822	Soil		0.8	42.3	5.1	71	0.2	37.9	18.2	378	3.06	146.4	0.7	15.4	1.3	49	<0.1	0.3	0.1	97	0.46
1076820	Soil		0.7	54.1	4.8	82	0.4	45.1	18.6	333	3.30	121.6	0.8	24.5	1.3	43	<0.1	0.2	0.2	96	0.40
1076824	Soil		0.8	35.2	4.4	68	0.2	38.1	14.2	326	3.05	66.7	0.6	4.8	1.3	35	<0.1	0.2	0.1	103	0.34
1076837	Soil		0.8	37.1	5.4	67	0.2	35.2	14.4	353	3.22	56.2	0.7	5.2	1.5	25	<0.1	0.2	0.2	94	0.22
1076836	Soil		0.7	33.0	4.8	61	0.1	33.4	12.5	301	3.06	46.2	0.5	2.8	1.5	23	<0.1	0.2	0.2	87	0.23
1076835	Soil		0.8	34.1	4.8	62	0.1	34.2	12.8	311	3.03	45.7	0.5	16.2	1.5	25	<0.1	0.2	0.2	89	0.23
1076830	Soil		1.1	23.0	7.2	71	0.2	25.5	9.5	287	2.72	49.7	0.4	3.1	1.1	23	0.2	0.4	0.2	86	0.21
1076833	Soil		1.1	43.5	3.2	64	0.1	33.4	14.0	338	2.94	95.8	0.5	5.6	1.3	30	<0.1	0.2	0.2	96	0.26
1076834	Soil		0.5	41.4	3.5	61	<0.1	38.1	13.6	313	3.05	45.3	0.5	4.2	1.5	25	<0.1	0.2	0.1	94	0.24
1076831	Soil		0.8	41.0	3.7	62	0.2	38.1	14.0	317	2.95	62.1	0.5	6.1	1.0	42	<0.1	0.2	0.1	91	0.34
1076832	Soil		1.0	48.6	4.7	66	0.3	41.3	19.2	413	3.16	102.3	0.7	6.9	1.2	46	<0.1	0.2	0.2	99	0.36
1059343	Soil		0.6	57.7	5.1	35	<0.1	51.5	17.9	316	3.30	14.5	0.5	5.1	1.4	27	<0.1	0.2	0.2	96	0.26
1059344	Soil		1.1	54.5	6.0	26	<0.1	70.4	21.3	399	5.71	20.8	0.3	1.9	0.5	25	<0.1	0.2	0.2	145	0.28
1059346	Soil		1.7	164.5	6.2	39	0.2	76.5	21.9	414	6.93	46.7	0.5	6.3	1.2	37	0.2	0.2	0.2	139	0.28
1076810	Soil		0.7	42.2	3.4	97	0.1	47.3	18.0	358	4.16	83.2	0.4	4.1	1.9	36	<0.1	0.2	0.1	103	0.38
1076811	Soil		1.1	47.0	5.5	103	0.4	47.8	20.7	440	4.78	72.3	0.7	5.5	1.5	32	<0.1	0.2	0.2	118	0.33
1076808	Soil		1.1	51.7	5.2	105	0.3	53.3	20.1	391	4.70	65.8	0.7	3.4	1.2	43	0.1	0.2	0.2	118	0.46
1076807	Soil		1.2	46.8	6.0	104	0.2	54.8	21.7	435	4.74	121.4	0.7	3.2	1.1	55	0.1	0.4	0.2	119	0.41
1076806	Soil		1.0	52.0	4.5	113	0.2	58.8	23.6	480	4.99	117.5	0.9	9.3	1.9	50	<0.1	0.2	0.2	144	0.39
1076813	Soil		0.5	42.5	3.0	97	<0.1	44.9	16.9	314	4.09	70.9	0.4	9.0	1.7	29	<0.1	0.1	<0.1	108	0.29
1076812	Soil		0.8	44.7	5.0	105	0.1	53.2	18.2	414	4.61	67.3	0.5	1.8	1.9	25	0.1	0.3	0.2	111	0.26
1076814	Soil		0.9	40.5	4.2	99	0.2	49.3	20.1	411	4.42	69.4	0.5	1.1	2.0	26	<0.1	0.3	0.1	112	0.28
1076815	Soil		1.0	66.6	6.1	119	0.2	74.8	24.4	342	5.75	206.5	0.6	6.1	2.3	43	<0.1	0.3	0.2	139	0.25
1076816	Soil		1.1	65.3	6.5	83	0.5	51.0	17.0	361	4.30	172.7	1.7	4.5	0.6	40	<0.1	0.4	0.1	107	0.35
1076817	Soil		0.9	37.5	5.0	85	<0.1	42.0	17.6	331	4.09	99.2	0.6	2.8	1.0	34	<0.1	0.3	0.2	102	0.34
1076809	Soil		1.0	51.8	5.4	107	0.1	54.4	20.4	392	4.82	156.5	0.6	6.1	1.9	42	<0.1	0.3	0.2	124	0.38



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076821	Soil	8	88	1.19	352	0.135	<1	2.67	0.017	0.63	0.3	0.05	7.2	0.3	0.06	9	0.8	<0.2
1076818	Soil	6	74	1.09	265	0.138	<1	2.18	0.014	0.59	0.1	0.02	6.7	0.2	<0.05	8	<0.5	<0.2
1076823	Soil	5	33	0.43	130	0.086	<1	1.01	0.013	0.15	0.2	0.04	2.6	0.1	0.06	4	0.5	<0.2
1076819	Soil	7	73	1.04	243	0.131	<1	2.28	0.013	0.52	0.2	0.03	6.1	0.2	<0.05	8	0.5	<0.2
1076822	Soil	7	75	1.04	286	0.126	<1	2.17	0.020	0.55	0.6	0.04	5.9	0.2	0.06	8	<0.5	<0.2
1076820	Soil	7	74	1.08	300	0.127	<1	2.43	0.013	0.60	0.3	0.03	6.6	0.2	<0.05	8	0.6	<0.2
1076824	Soil	7	81	1.09	239	0.138	1	2.15	0.014	0.49	0.4	0.02	6.0	0.2	0.05	8	<0.5	<0.2
1076837	Soil	7	69	1.02	260	0.138	1	2.50	0.012	0.44	0.6	0.03	6.2	0.3	<0.05	8	0.5	<0.2
1076836	Soil	6	62	0.90	226	0.125	<1	2.00	0.011	0.43	0.3	0.02	5.5	0.2	<0.05	7	<0.5	<0.2
1076835	Soil	6	62	0.91	226	0.129	1	2.04	0.012	0.43	0.3	0.02	5.6	0.2	<0.05	7	0.5	<0.2
1076830	Soil	6	47	0.66	147	0.137	<1	1.47	0.009	0.22	0.3	0.03	3.5	0.1	<0.05	8	<0.5	<0.2
1076833	Soil	6	59	1.00	280	0.155	<1	2.01	0.015	0.60	0.6	0.02	5.6	0.2	<0.05	7	<0.5	<0.2
1076834	Soil	5	66	1.02	246	0.153	1	2.12	0.014	0.61	0.6	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
1076831	Soil	5	68	0.96	265	0.132	1	2.09	0.016	0.48	0.7	0.03	5.3	0.2	0.07	7	0.5	<0.2
1076832	Soil	6	69	1.04	306	0.143	2	2.38	0.016	0.56	0.7	0.04	5.9	0.3	0.06	8	<0.5	<0.2
1059343	Soil	5	72	1.10	327	0.122	<1	2.18	0.013	0.79	0.2	<0.01	6.3	0.3	<0.05	6	<0.5	<0.2
1059344	Soil	3	91	1.34	264	0.173	4	3.25	0.009	0.52	0.1	<0.01	9.7	0.3	<0.05	8	1.0	<0.2
1059346	Soil	5	84	1.39	384	0.185	2	3.21	0.019	1.14	0.2	<0.01	9.6	0.4	<0.05	8	1.4	<0.2
1076810	Soil	7	80	1.32	267	0.148	2	2.46	0.015	0.72	0.2	<0.01	7.6	0.3	<0.05	10	0.6	<0.2
1076811	Soil	7	86	1.35	269	0.153	2	2.93	0.013	0.67	0.2	0.04	7.6	0.3	<0.05	11	0.5	<0.2
1076808	Soil	7	88	1.31	276	0.144	3	2.64	0.016	0.47	0.1	0.04	7.4	0.3	0.06	10	0.9	<0.2
1076807	Soil	8	92	1.36	287	0.138	3	2.78	0.017	0.36	0.2	0.01	7.2	0.2	0.07	10	<0.5	<0.2
1076806	Soil	9	122	1.70	406	0.193	3	3.07	0.021	0.82	0.3	0.02	9.5	0.3	0.07	12	0.7	<0.2
1076813	Soil	6	82	1.31	276	0.159	<1	2.45	0.015	0.82	0.3	<0.01	8.0	0.3	<0.05	9	<0.5	<0.2
1076812	Soil	7	79	1.23	237	0.151	1	2.45	0.013	0.59	0.3	0.02	7.2	0.3	<0.05	9	0.9	<0.2
1076814	Soil	7	88	1.33	268	0.166	2	2.63	0.015	0.77	0.2	<0.01	8.3	0.3	<0.05	10	<0.5	<0.2
1076815	Soil	8	101	1.49	294	0.182	2	3.36	0.015	0.80	0.2	0.01	9.4	0.3	0.06	11	0.6	<0.2
1076816	Soil	10	78	1.06	215	0.088	3	3.01	0.013	0.24	0.3	0.02	6.6	0.2	0.10	9	1.2	<0.2
1076817	Soil	6	76	1.15	233	0.127	1	2.37	0.012	0.67	0.4	0.02	6.2	0.3	0.07	9	0.5	<0.2
1076809	Soil	7	91	1.43	310	0.155	2	2.88	0.016	0.81	0.4	0.01	8.5	0.3	<0.05	11	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1062226	Soil	1.2	103.5	6.6	55	0.3	87.4	32.5	636	5.65	21.9	0.6	3.9	1.3	48	0.2	0.2	0.3	143	0.37	0.080
1062213	Soil	1.1	147.9	6.3	51	0.2	110.9	30.5	484	5.47	43.2	0.5	8.3	1.1	37	<0.1	0.2	0.2	120	0.36	0.079
1062212	Soil	1.2	129.5	5.1	45	<0.1	98.5	26.6	416	4.83	30.6	0.5	2.3	0.6	24	<0.1	0.2	0.2	104	0.26	0.083
1062211	Soil	1.0	111.1	5.5	53	0.2	78.7	26.5	376	4.45	24.3	0.5	10.4	0.8	32	<0.1	0.3	0.2	98	0.30	0.091
1062210	Soil	1.6	192.3	9.5	72	0.1	172.3	70.7	796	5.49	202.6	0.8	66.7	0.9	41	0.2	0.4	0.3	88	0.35	0.090
1062228	Soil	0.9	69.9	4.9	47	<0.1	58.9	19.2	431	4.27	13.6	0.5	1.7	1.0	31	0.2	0.2	0.2	106	0.29	0.090
1059345	Soil	1.8	283.9	9.0	38	0.3	157.3	36.0	543	7.27	118.2	0.6	18.5	1.4	32	<0.1	0.4	0.3	146	0.27	0.084
1062201	Soil	1.3	157.8	5.0	38	0.2	63.1	26.5	566	5.66	62.4	0.5	8.0	1.1	34	<0.1	0.3	0.2	118	0.29	0.155
1062202	Soil	1.3	131.1	5.4	38	0.2	61.2	25.7	518	5.76	69.1	0.5	10.4	1.1	38	0.1	0.4	0.2	114	0.35	0.159
1062207	Soil	1.3	220.0	8.1	53	0.2	134.2	42.0	585	5.63	87.2	0.8	6.8	1.1	32	0.1	0.4	0.2	108	0.34	0.110
1062208	Soil	1.3	252.5	7.3	67	0.3	155.0	50.3	629	5.54	185.5	0.9	16.3	1.7	23	0.1	0.4	0.3	123	0.30	0.105
1062206	Soil	2.1	304.0	16.0	90	0.4	279.6	138.5	1720	8.33	266.5	0.9	23.2	1.4	37	0.3	1.1	0.4	105	0.46	0.178
1062205	Soil	1.1	115.4	8.5	52	0.1	89.3	33.3	570	5.63	115.0	0.6	9.5	0.9	28	0.1	0.5	0.2	108	0.29	0.068
1062204	Soil	1.5	183.4	6.8	104	0.3	99.5	42.4	579	6.01	140.5	1.4	23.8	2.2	40	0.1	0.2	0.2	141	0.33	0.129
1062203	Soil	1.5	109.7	5.6	87	0.3	49.3	21.7	402	5.67	63.2	1.2	5.1	2.5	45	<0.1	0.2	0.2	125	0.33	0.136
1061984	Soil	1.0	36.7	4.3	61	0.3	35.3	12.9	256	3.59	27.4	0.4	1.4	1.6	19	0.2	0.2	0.2	81	0.24	0.070
1062225	Soil	1.1	57.3	5.7	41	0.2	55.4	17.0	371	4.74	10.2	0.4	<0.5	1.1	30	<0.1	0.2	0.2	120	0.27	0.058
1062224	Soil	1.0	84.5	5.5	48	0.2	71.2	24.9	502	4.81	15.1	0.5	3.0	1.0	46	<0.1	0.2	0.2	119	0.43	0.087
1062223	Soil	1.0	65.7	4.1	31	0.3	54.9	16.7	314	4.09	7.8	0.4	1.6	1.1	24	<0.1	0.1	0.2	105	0.28	0.077
1062222	Soil	1.3	106.1	5.1	43	0.1	81.5	29.0	526	5.43	11.6	0.5	13.3	1.2	32	0.1	0.2	0.2	130	0.33	0.087
1062219	Soil	1.2	157.5	5.6	58	0.2	104.7	33.4	563	5.56	18.9	0.6	5.8	1.4	33	0.2	0.2	0.2	130	0.43	0.100
1062220	Soil	1.5	46.3	4.7	47	0.3	40.2	13.5	314	3.63	8.7	0.5	2.0	0.5	29	0.3	0.3	0.1	85	0.38	0.070
1062221	Soil	1.2	97.7	3.7	27	0.2	78.6	27.7	502	4.97	9.2	0.4	0.9	0.9	21	0.1	0.1	0.2	125	0.19	0.081
1062217	Soil	1.1	100.7	5.4	55	0.1	84.5	32.1	589	4.19	27.1	0.5	3.9	0.8	29	0.2	0.2	0.2	107	0.32	0.082
1062218	Soil	1.1	112.1	4.6	57	0.2	81.0	30.3	498	4.62	13.6	0.6	3.6	1.2	32	0.2	0.2	0.2	134	0.38	0.099
1062216	Soil	1.2	142.8	6.1	56	0.2	103.8	38.6	602	5.42	100.8	0.6	163.5	1.4	45	0.2	0.2	0.2	114	0.35	0.139
1062215	Soil	1.1	171.1	4.9	51	0.2	109.9	39.6	513	4.48	35.5	0.6	3.9	1.4	33	0.2	0.2	0.2	111	0.38	0.129
1062214	Soil	0.9	130.0	4.7	49	0.2	88.1	30.0	498	4.37	22.8	0.6	9.9	1.2	36	0.2	0.2	0.2	115	0.38	0.104
1062227	Soil	1.2	112.8	5.7	53	0.2	83.4	28.9	512	4.36	15.1	0.6	2.5	1.1	40	0.2	0.2	0.2	120	0.38	0.098
1062209	Soil	1.3	156.4	8.0	68	0.2	148.7	49.8	711	4.72	126.1	0.7	13.4	1.6	61	0.3	0.4	0.2	103	0.50	0.130



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1062226	Soil	7	83	1.44	325	0.174	<1	3.35	0.015	0.64	0.2	0.02	9.1	0.4	<0.05	10	0.6	<0.2
1062213	Soil	5	79	1.33	264	0.132	1	3.14	0.013	0.74	1.1	<0.01	7.8	0.4	0.06	9	0.7	<0.2
1062212	Soil	5	67	1.16	213	0.118	1	2.71	0.010	0.56	0.9	0.02	5.8	0.3	<0.05	8	<0.5	<0.2
1062211	Soil	6	62	1.12	190	0.114	2	2.43	0.015	0.48	0.5	0.02	5.5	0.3	<0.05	7	<0.5	0.2
1062210	Soil	7	53	1.03	169	0.103	<1	2.54	0.018	0.43	0.3	0.02	4.7	0.3	0.06	7	1.2	<0.2
1062228	Soil	6	66	1.08	209	0.138	2	2.37	0.012	0.46	0.4	0.03	6.6	0.3	<0.05	8	<0.5	<0.2
1059345	Soil	7	92	1.48	328	0.166	<1	4.02	0.014	0.78	0.2	0.01	9.5	0.4	<0.05	9	0.8	<0.2
1062201	Soil	4	71	1.29	334	0.154	2	2.70	0.018	1.06	0.4	<0.01	8.4	0.3	0.10	8	0.6	<0.2
1062202	Soil	4	69	1.24	310	0.145	1	2.59	0.018	1.01	0.4	0.02	8.1	0.3	0.07	7	<0.5	<0.2
1062207	Soil	6	69	1.18	232	0.120	1	2.79	0.015	0.56	0.6	<0.01	7.2	0.3	0.08	7	2.3	<0.2
1062208	Soil	7	85	1.44	276	0.149	2	3.09	0.014	0.74	0.5	0.03	9.2	0.3	0.07	9	0.9	<0.2
1062206	Soil	7	69	1.28	209	0.098	2	3.33	0.017	0.66	1.1	0.03	7.2	0.3	0.09	8	2.4	<0.2
1062205	Soil	6	69	1.24	202	0.110	1	2.78	0.012	0.46	0.9	<0.01	6.4	0.3	0.09	8	<0.5	<0.2
1062204	Soil	9	99	1.70	451	0.181	1	3.11	0.018	1.17	5.1	0.02	10.8	0.4	0.12	11	0.5	<0.2
1062203	Soil	9	89	1.53	433	0.174	1	2.81	0.024	1.19	0.2	0.02	9.9	0.3	0.17	10	<0.5	<0.2
1061984	Soil	6	55	0.89	123	0.161	1	2.31	0.012	0.37	0.3	<0.01	4.8	0.2	<0.05	8	0.6	<0.2
1062225	Soil	6	76	1.19	223	0.159	1	2.74	0.011	0.57	0.2	0.01	6.8	0.3	<0.05	8	<0.5	<0.2
1062224	Soil	6	75	1.26	253	0.145	1	2.81	0.013	0.64	0.3	0.02	7.4	0.3	0.06	8	<0.5	<0.2
1062223	Soil	5	64	1.12	208	0.141	1	2.41	0.011	0.60	0.5	0.04	6.3	0.3	<0.05	6	0.9	<0.2
1062222	Soil	6	82	1.34	291	0.168	<1	3.02	0.014	0.81	0.2	0.02	8.3	0.5	<0.05	9	0.6	<0.2
1062219	Soil	6	87	1.51	305	0.167	<1	3.32	0.015	0.93	0.1	0.02	8.6	0.4	<0.05	9	0.8	<0.2
1062220	Soil	5	48	0.75	136	0.099	2	1.68	0.010	0.44	0.1	0.04	3.9	0.2	<0.05	7	<0.5	<0.2
1062221	Soil	4	75	1.44	249	0.176	<1	3.06	0.010	0.96	0.1	0.01	7.9	0.4	0.09	8	<0.5	<0.2
1062217	Soil	5	67	1.09	242	0.123	<1	2.42	0.012	0.55	0.2	0.02	6.1	0.3	0.10	7	<0.5	<0.2
1062218	Soil	5	90	1.40	324	0.171	<1	2.92	0.016	0.93	0.2	0.03	9.5	0.4	0.08	9	<0.5	<0.2
1062216	Soil	4	78	1.28	295	0.136	1	2.45	0.016	0.93	0.4	0.01	9.1	0.3	0.06	7	<0.5	<0.2
1062215	Soil	5	75	1.26	264	0.151	<1	2.79	0.016	0.84	0.3	0.02	8.3	0.3	0.06	7	0.7	<0.2
1062214	Soil	5	79	1.32	272	0.148	<1	2.73	0.015	0.77	0.4	0.02	8.5	0.3	<0.05	8	0.5	<0.2
1062227	Soil	6	74	1.25	245	0.149	2	2.83	0.015	0.58	0.1	0.02	8.2	0.3	<0.05	8	0.7	<0.2
1062209	Soil	6	98	1.54	252	0.139	<1	2.78	0.024	0.65	0.4	0.03	7.6	0.3	0.05	8	0.9	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1061983	Soil	0.6	30.9	3.5	59	0.1	36.9	13.1	312	3.11	17.7	0.4	6.7	1.5	20	<0.1	0.2	0.1	83	0.32	0.117
1061998	Soil	0.4	22.1	2.3	55	<0.1	25.4	9.4	253	2.44	16.3	0.5	7.6	1.6	19	<0.1	<0.1	<0.1	72	0.31	0.098
1061997	Soil	0.5	31.4	3.1	54	0.2	27.6	10.6	291	2.62	20.9	0.6	4.1	1.6	21	<0.1	<0.1	0.1	74	0.29	0.083
1076501	Soil	0.3	18.2	1.8	45	<0.1	22.3	8.9	274	2.27	15.7	0.5	3.9	1.8	24	<0.1	<0.1	<0.1	61	0.37	0.116
1061987	Soil	0.8	23.3	4.8	60	0.3	32.2	12.1	247	3.09	20.1	0.4	47.4	1.5	20	0.1	0.3	0.1	80	0.29	0.065
1061992	Soil	0.6	35.7	3.1	62	0.2	34.3	11.2	298	3.02	22.4	0.6	10.1	1.8	23	<0.1	0.1	0.2	75	0.38	0.106
1061986	Soil	0.5	22.4	4.2	55	<0.1	30.3	10.3	256	2.95	20.0	0.4	1.7	1.7	20	<0.1	0.2	0.2	75	0.32	0.110
1061990	Soil	0.4	34.7	2.6	60	<0.1	33.4	11.0	349	2.92	14.8	0.6	1.8	2.2	23	<0.1	0.1	0.1	78	0.35	0.107
1061985	Soil	0.8	29.0	4.9	68	0.3	30.9	13.5	296	3.23	11.6	0.4	5.6	1.2	20	<0.1	0.2	0.2	85	0.26	0.047
1061988	Soil	1.0	39.9	5.0	62	0.2	37.7	13.8	334	3.28	25.2	0.5	2.8	1.9	22	0.1	0.2	0.1	82	0.31	0.091
1061993	Soil	0.6	23.6	3.1	47	0.1	25.3	9.7	205	2.26	23.5	0.5	1.6	0.8	24	0.1	0.1	0.1	56	0.36	0.113
1061981	Soil	0.7	55.8	4.1	64	0.2	44.3	13.1	356	3.31	36.8	0.4	5.5	1.4	21	0.1	<0.1	0.2	84	0.25	0.052
1061982	Soil	1.2	43.2	6.0	67	0.3	35.4	17.5	495	3.24	20.6	0.5	8.0	1.4	24	0.1	0.2	0.1	88	0.31	0.070
1061989	Soil	0.5	38.5	2.7	66	<0.1	34.8	12.5	395	3.18	17.2	0.5	50.3	2.1	23	<0.1	0.1	0.1	81	0.37	0.105
1061991	Soil	0.7	40.0	3.5	62	0.1	35.7	12.2	338	3.10	20.9	0.5	3.1	2.0	24	0.1	0.1	0.1	79	0.37	0.093
1061970	Soil	0.9	44.2	3.8	66	<0.1	37.3	13.4	427	3.54	16.1	0.6	5.2	1.9	29	<0.1	0.2	0.1	91	0.44	0.111
1061980	Soil	1.0	57.6	4.9	82	0.2	45.5	17.1	484	3.75	29.3	0.6	9.7	1.4	33	<0.1	0.1	0.1	104	0.36	0.100
1061978	Soil	0.7	36.5	4.1	68	<0.1	37.0	13.1	384	3.41	18.8	0.4	3.4	1.4	28	<0.1	0.1	0.1	97	0.31	0.083
1061972	Soil	0.5	39.3	3.6	68	<0.1	40.9	13.9	454	3.47	17.6	0.5	3.2	2.0	27	<0.1	0.1	0.1	93	0.39	0.109
1061977	Soil	0.8	28.3	3.9	64	<0.1	30.9	12.4	388	3.04	12.2	0.4	3.8	1.3	39	<0.1	0.1	0.1	86	0.39	0.096
1061976	Soil	0.7	38.4	3.5	63	<0.1	35.3	11.3	343	2.77	13.8	0.4	4.6	1.5	31	<0.1	0.2	0.1	78	0.38	0.108
1061973	Soil	0.8	44.6	3.9	81	<0.1	43.1	15.0	502	3.80	14.5	0.5	6.1	1.6	29	<0.1	0.2	<0.1	109	0.39	0.123
1061979	Soil	1.0	32.5	5.2	68	0.4	37.8	14.3	329	3.44	23.2	0.4	4.4	1.5	26	<0.1	0.3	0.2	85	0.31	0.085
1061996	Soil	0.4	24.2	2.9	59	<0.1	28.0	9.6	277	2.74	21.9	0.5	2.9	1.7	21	<0.1	0.1	0.1	76	0.30	0.080
1076502	Soil	0.5	22.8	2.7	54	<0.1	25.1	10.6	270	2.59	22.1	0.6	2.4	1.8	26	<0.1	<0.1	<0.1	73	0.38	0.100
1061995	Soil	0.9	41.8	4.5	65	0.3	31.7	12.5	351	3.12	30.4	0.6	6.6	1.2	25	<0.1	0.1	0.1	84	0.34	0.088
1076503	Soil	0.5	22.7	2.5	52	<0.1	24.4	10.3	270	2.56	20.9	0.6	2.6	1.8	25	<0.1	<0.1	<0.1	70	0.39	0.098
1061994	Soil	0.8	26.1	3.9	51	<0.1	27.6	9.8	269	2.74	25.7	0.4	3.4	1.5	23	<0.1	0.2	0.1	71	0.32	0.076
1062000	Soil	0.4	23.4	2.7	47	<0.1	25.0	9.1	257	2.36	24.5	0.4	2.0	1.7	22	<0.1	0.1	0.1	63	0.29	0.088
1061999	Soil	0.7	30.7	3.6	56	0.1	30.0	11.0	334	2.77	27.9	0.5	4.0	2.0	25	<0.1	0.1	0.1	75	0.31	0.088



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1061983	Soil	5	55	0.91	197	0.155	<1	2.21	0.010	0.63	0.2	0.03	5.8	0.2	<0.05	7	<0.5	<0.2
1061998	Soil	6	49	0.80	239	0.158	<1	1.80	0.014	0.55	0.2	0.03	4.7	0.2	<0.05	6	<0.5	<0.2
1061997	Soil	7	50	0.81	245	0.150	1	2.01	0.015	0.50	0.2	0.02	4.8	0.2	<0.05	6	<0.5	<0.2
1076501	Soil	8	45	0.74	237	0.138	<1	1.53	0.019	0.50	0.2	0.02	4.1	0.2	<0.05	5	<0.5	<0.2
1061987	Soil	6	50	0.85	130	0.158	1	1.89	0.011	0.44	0.2	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
1061992	Soil	8	55	0.99	212	0.149	<1	2.21	0.015	0.54	0.2	0.03	4.8	0.2	<0.05	7	<0.5	<0.2
1061986	Soil	6	51	0.87	156	0.146	1	1.83	0.010	0.40	0.2	0.03	4.4	0.2	<0.05	7	<0.5	<0.2
1061990	Soil	8	54	0.96	271	0.165	<1	2.00	0.016	0.61	0.2	0.01	5.3	0.2	<0.05	7	<0.5	<0.2
1061985	Soil	5	55	0.87	199	0.177	2	2.03	0.011	0.56	0.2	0.03	5.1	0.2	<0.05	8	<0.5	0.3
1061988	Soil	7	53	0.94	193	0.154	<1	2.35	0.011	0.43	0.3	0.02	5.0	0.2	<0.05	7	<0.5	<0.2
1061993	Soil	6	39	0.64	154	0.102	2	1.65	0.012	0.34	0.4	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
1061981	Soil	6	57	0.97	197	0.174	1	2.28	0.012	0.60	0.2	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
1061982	Soil	6	54	0.92	194	0.173	1	2.13	0.011	0.57	0.1	0.01	5.3	0.2	<0.05	8	<0.5	<0.2
1061989	Soil	8	56	0.96	281	0.170	<1	2.10	0.020	0.64	0.2	0.02	5.6	0.3	<0.05	7	<0.5	<0.2
1061991	Soil	8	56	0.95	229	0.158	<1	2.12	0.015	0.49	0.2	0.03	5.2	0.3	<0.05	7	<0.5	<0.2
1061970	Soil	8	63	1.19	262	0.180	<1	2.43	0.016	0.56	0.2	0.01	6.1	0.2	<0.05	7	<0.5	<0.2
1061980	Soil	6	67	1.10	259	0.199	<1	2.64	0.011	0.74	0.1	<0.01	7.3	0.3	<0.05	9	0.5	<0.2
1061978	Soil	6	61	1.04	217	0.178	1	2.25	0.011	0.67	0.2	0.01	6.4	0.2	<0.05	7	<0.5	<0.2
1061972	Soil	7	70	1.13	296	0.180	<1	2.35	0.015	0.73	0.2	0.01	6.7	0.3	<0.05	8	<0.5	<0.2
1061977	Soil	5	54	0.94	230	0.160	1	2.03	0.012	0.63	0.2	<0.01	5.7	0.2	<0.05	7	0.7	<0.2
1061976	Soil	6	52	0.90	212	0.156	<1	1.94	0.013	0.54	0.2	0.03	5.3	0.2	<0.05	6	<0.5	<0.2
1061973	Soil	6	76	1.21	368	0.213	<1	2.54	0.018	0.96	0.1	0.02	8.2	0.3	<0.05	9	0.5	<0.2
1061979	Soil	6	54	0.93	154	0.153	1	2.25	0.010	0.53	0.2	0.02	5.1	0.2	0.05	7	<0.5	<0.2
1061996	Soil	7	51	0.89	203	0.153	<1	1.96	0.013	0.46	0.2	<0.01	4.8	0.2	<0.05	7	0.8	<0.2
1076502	Soil	8	49	0.82	259	0.155	<1	1.91	0.017	0.42	0.2	0.03	4.8	0.2	<0.05	6	<0.5	<0.2
1061995	Soil	7	55	0.91	203	0.144	1	2.16	0.011	0.43	0.2	0.02	4.7	0.2	<0.05	7	0.6	<0.2
1076503	Soil	8	48	0.79	250	0.152	1	1.86	0.017	0.41	0.2	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
1061994	Soil	6	46	0.83	181	0.133	1	1.91	0.012	0.36	0.3	0.01	4.2	0.1	<0.05	6	<0.5	<0.2
1062000	Soil	6	42	0.67	219	0.134	<1	1.67	0.017	0.40	0.2	<0.01	4.1	0.1	<0.05	5	<0.5	<0.2
1061999	Soil	7	51	0.79	269	0.157	<1	2.17	0.017	0.48	0.2	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1061969	Soil	0.6	43.8	3.8	64	<0.1	41.5	13.6	403	3.46	16.6	0.5	2.7	2.2	30	<0.1	0.2	0.1	90	0.40	0.099
1061971	Soil	0.6	39.3	3.3	50	0.1	34.5	10.3	317	2.54	27.0	0.5	4.6	1.7	31	<0.1	0.2	0.1	64	0.44	0.098
1061974	Soil	0.6	33.1	3.6	62	<0.1	33.9	11.9	350	2.89	20.8	0.4	4.4	1.6	26	0.1	0.2	0.1	78	0.34	0.100
1061975	Soil	0.9	22.2	5.5	61	0.2	30.7	12.0	294	3.09	15.8	0.4	2.4	1.6	27	0.1	0.3	0.2	74	0.29	0.062



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1061969	Soil	7	68	1.12	283	0.187	<1	2.41	0.019	0.65	0.2	<0.01	6.7	0.3	<0.05	7	<0.5	<0.2
1061971	Soil	6	43	0.68	193	0.124	<1	1.72	0.018	0.34	0.2	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2
1061974	Soil	6	54	0.90	225	0.157	<1	2.00	0.015	0.48	0.2	<0.01	5.1	0.2	<0.05	6	<0.5	<0.2
1061975	Soil	6	48	0.82	139	0.139	<1	1.89	0.011	0.41	0.2	<0.01	3.9	0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11000957.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1064485	Soil	0.8	40.2	5.2	95	0.1	43.9	17.0	595	4.06	19.9	0.6	5.7	1.8	35	<0.1	0.2	0.2	104	0.53	0.083
REP 1064485	QC	0.8	38.4	4.9	94	0.1	41.7	15.8	562	3.89	18.6	0.6	6.6	1.7	33	<0.1	0.2	0.1	103	0.48	0.079
1070073	Soil	1.2	108.1	6.0	83	<0.1	77.8	25.2	534	5.42	22.6	0.7	2.8	2.1	46	0.2	0.5	0.2	108	0.31	0.118
REP 1070073	QC	1.3	109.1	6.2	86	<0.1	78.5	25.0	564	5.71	23.3	0.8	2.4	2.1	47	0.1	0.6	0.2	113	0.34	0.121
1070065	Soil	1.4	89.4	7.0	129	<0.1	61.8	19.7	628	5.44	30.9	0.9	4.0	2.6	29	0.2	0.4	0.3	139	0.29	0.084
REP 1070065	QC	1.4	95.3	6.9	135	<0.1	64.1	20.6	649	5.62	31.2	0.8	3.5	2.7	30	0.2	0.4	0.2	140	0.29	0.083
1070396	Soil	0.9	64.9	6.2	70	0.2	54.3	20.7	475	4.60	31.9	0.6	3.0	1.4	46	<0.1	0.2	0.2	134	0.24	0.076
REP 1070396	QC	1.1	64.2	6.1	69	0.2	52.7	20.2	458	4.47	31.4	0.5	6.6	1.2	45	0.1	0.3	0.2	130	0.23	0.073
1070240	Soil	1.0	79.9	6.9	71	0.1	71.6	25.3	556	4.58	247.0	0.5	9.8	1.4	21	0.2	1.1	0.2	118	0.26	0.099
REP 1070240	QC	0.8	84.2	7.1	75	0.1	75.1	27.3	570	4.77	254.9	0.5	15.1	1.5	22	0.2	1.2	0.2	123	0.28	0.103
1084977	Soil	0.9	52.2	4.3	95	0.1	42.2	15.8	471	4.09	7.9	0.9	<0.5	3.9	25	0.1	0.2	0.1	89	0.34	0.080
REP 1084977	QC	0.7	53.8	4.3	100	0.1	43.9	16.2	472	4.15	8.6	1.0	1.3	4.1	26	0.2	0.2	0.1	95	0.36	0.085
1070395	Soil	0.7	47.0	6.1	64	0.3	53.9	15.8	378	4.16	40.5	0.5	3.0	1.2	24	0.1	0.3	0.2	120	0.22	0.087
REP 1070395	QC	0.7	49.0	6.0	64	0.3	53.8	15.8	365	4.25	43.2	0.5	5.1	1.2	23	0.1	0.3	0.2	122	0.24	0.089
1084964	Soil	1.1	53.8	5.2	88	0.1	42.2	19.3	451	3.78	7.4	0.6	1.6	2.0	39	0.2	0.3	0.1	92	0.31	0.064
REP 1084964	QC	1.0	52.6	5.1	88	<0.1	40.8	18.8	452	3.69	7.3	0.6	2.2	1.9	38	0.2	0.3	0.1	90	0.31	0.066
1077952	Soil	0.6	30.3	4.1	59	0.1	29.6	12.6	352	2.83	18.2	0.5	9.6	1.0	18	<0.1	0.1	0.2	87	0.24	0.089
REP 1077952	QC	0.6	30.9	4.2	63	0.1	30.6	12.9	368	2.95	18.2	0.5	9.6	1.1	18	<0.1	0.1	0.2	84	0.23	0.089
1061836	Soil	0.4	39.1	5.2	78	0.1	38.5	13.4	299	2.98	10.3	0.5	20.8	1.8	18	<0.1	0.2	0.2	98	0.25	0.074
REP 1061836	QC	0.5	38.0	5.2	76	0.1	37.2	13.1	299	2.95	10.0	0.5	9.0	1.8	17	0.2	0.2	0.2	96	0.25	0.073
1061848	Soil	0.4	32.2	4.6	63	<0.1	33.0	11.5	288	2.79	13.6	0.5	8.5	1.9	18	<0.1	0.2	0.2	88	0.24	0.074
REP 1061848	QC	0.4	31.2	4.5	61	<0.1	32.1	11.6	277	2.79	13.0	0.5	25.7	1.9	19	<0.1	0.1	0.2	85	0.25	0.073
1077954	Soil	0.5	23.1	4.5	53	0.1	25.1	8.9	249	2.65	12.0	0.5	24.1	0.8	18	<0.1	<0.1	0.2	83	0.22	0.075
REP 1077954	QC	0.5	21.3	4.3	50	0.1	23.7	8.4	231	2.41	11.2	0.5	4.5	0.7	17	<0.1	0.1	0.1	78	0.20	0.068
1076815	Soil	1.0	66.6	6.1	119	0.2	74.8	24.4	342	5.75	206.5	0.6	6.1	2.3	43	<0.1	0.3	0.2	139	0.25	0.084
REP 1076815	QC	1.2	70.3	6.5	123	0.3	79.9	25.5	355	5.98	216.7	0.7	4.4	2.3	45	0.1	0.4	0.2	142	0.27	0.088
1062223	Soil	1.0	65.7	4.1	31	0.3	54.9	16.7	314	4.09	7.8	0.4	1.6	1.1	24	<0.1	0.1	0.2	105	0.28	0.077
REP 1062223	QC	0.8	65.8	4.3	31	0.3	52.8	17.2	330	4.25	8.3	0.4	0.6	1.0	25	0.2	0.2	0.2	107	0.31	0.082



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
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Project: SAP
Report Date: September 04, 2011

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QUALITY CONTROL REPORT

WHI11000957.1

Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1064485	Soil	9	73	1.19	249	0.163	<1	2.64	0.020	0.57	0.1	0.02	6.9	0.3	<0.05	8	<0.5	<0.2
REP 1064485	QC	8	73	1.09	242	0.155	1	2.48	0.019	0.53	0.1	0.02	6.5	0.3	<0.05	8	<0.5	<0.2
1070073	Soil	10	75	1.26	184	0.154	1	2.75	0.027	0.37	<0.1	0.01	6.6	0.3	0.10	8	0.7	<0.2
REP 1070073	QC	10	78	1.32	191	0.162	1	2.85	0.028	0.40	<0.1	0.02	7.1	0.3	0.11	8	<0.5	<0.2
1070065	Soil	9	100	1.60	201	0.170	2	3.43	0.016	0.37	<0.1	0.03	8.1	0.3	0.05	11	0.7	<0.2
REP 1070065	QC	9	102	1.61	202	0.175	2	3.46	0.017	0.38	<0.1	0.03	8.5	0.4	<0.05	11	0.7	<0.2
1070396	Soil	5	91	1.28	369	0.190	<1	3.05	0.016	0.79	0.2	0.01	9.5	0.3	0.05	10	<0.5	<0.2
REP 1070396	QC	5	88	1.22	364	0.181	<1	2.90	0.015	0.75	0.2	0.02	9.4	0.3	<0.05	9	<0.5	<0.2
1070240	Soil	6	77	1.17	253	0.151	2	2.77	0.012	0.57	0.2	0.01	8.3	0.3	<0.05	9	<0.5	<0.2
REP 1070240	QC	6	79	1.25	265	0.156	2	2.91	0.013	0.60	0.1	0.03	9.0	0.3	<0.05	9	0.6	<0.2
1084977	Soil	13	69	1.34	187	0.142	<1	2.37	0.014	0.50	<0.1	0.02	6.2	0.3	<0.05	8	<0.5	<0.2
REP 1084977	QC	12	72	1.34	184	0.141	<1	2.46	0.015	0.51	<0.1	<0.01	6.1	0.3	<0.05	8	0.7	<0.2
1070395	Soil	5	80	1.23	298	0.150	<1	3.12	0.011	0.83	0.2	0.02	9.1	0.3	0.05	9	0.6	<0.2
REP 1070395	QC	6	85	1.27	305	0.166	<1	3.15	0.011	0.84	0.2	0.03	8.5	0.3	<0.05	10	0.5	<0.2
1084964	Soil	11	59	1.13	224	0.126	<1	2.18	0.013	0.45	<0.1	0.02	4.6	0.3	<0.05	8	<0.5	<0.2
REP 1084964	QC	13	59	1.10	225	0.118	<1	2.23	0.012	0.46	<0.1	0.02	4.7	0.3	0.06	8	0.6	<0.2
1077952	Soil	5	58	0.86	258	0.148	1	2.21	0.009	0.52	0.2	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
REP 1077952	QC	5	59	0.88	264	0.149	<1	2.25	0.009	0.54	0.3	0.01	6.2	0.2	<0.05	7	<0.5	<0.2
1061836	Soil	6	68	0.95	248	0.211	<1	2.53	0.011	0.60	0.3	0.02	7.7	0.3	<0.05	8	<0.5	<0.2
REP 1061836	QC	6	65	0.94	245	0.208	<1	2.48	0.010	0.59	0.2	0.02	7.5	0.3	<0.05	8	<0.5	<0.2
1061848	Soil	7	62	0.85	249	0.178	<1	2.26	0.010	0.61	0.2	<0.01	6.6	0.2	<0.05	7	0.5	<0.2
REP 1061848	QC	7	61	0.87	253	0.172	<1	2.25	0.010	0.60	0.2	0.01	6.5	0.2	<0.05	7	<0.5	<0.2
1077954	Soil	5	56	0.77	220	0.133	<1	1.98	0.007	0.24	0.1	<0.01	5.0	0.2	<0.05	7	0.5	<0.2
REP 1077954	QC	5	52	0.73	212	0.128	<1	1.86	0.007	0.24	0.1	0.01	4.9	0.2	<0.05	6	<0.5	<0.2
1076815	Soil	8	101	1.49	294	0.182	2	3.36	0.015	0.80	0.2	0.01	9.4	0.3	0.06	11	0.6	<0.2
REP 1076815	QC	8	107	1.53	316	0.194	2	3.43	0.016	0.83	0.3	0.03	9.9	0.3	0.09	12	<0.5	<0.2
1062223	Soil	5	64	1.12	208	0.141	1	2.41	0.011	0.60	0.5	0.04	6.3	0.3	<0.05	6	0.9	<0.2
REP 1062223	QC	5	68	1.12	219	0.143	<1	2.43	0.011	0.60	0.7	0.02	6.6	0.3	<0.05	7	<0.5	<0.2



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Project: SAP
Report Date: September 04, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1062209	Soil	1.3	156.4	8.0	68	0.2	148.7	49.8	711	4.72	126.1	0.7	13.4	1.6	61	0.3	0.4	0.2	103	0.50
REP 1062209	QC	1.4	156.5	8.0	68	0.2	146.8	48.8	710	4.76	125.0	0.8	12.2	1.7	61	0.3	0.5	0.2	103	0.52
1061995	Soil	0.9	41.8	4.5	65	0.3	31.7	12.5	351	3.12	30.4	0.6	6.6	1.2	25	<0.1	0.1	0.1	84	0.34
REP 1061995	QC	0.9	41.3	4.4	61	0.2	32.9	11.9	317	2.95	30.7	0.6	14.4	1.3	25	<0.1	0.1	0.1	80	0.33
Reference Materials																				
STD DS8	Standard	13.4	113.2	124.2	310	1.9	38.9	7.8	620	2.47	25.2	2.7	112.8	6.7	68	2.5	5.4	6.7	44	0.69
STD DS8	Standard	12.8	101.3	125.5	291	1.8	35.9	7.0	590	2.34	23.5	2.7	118.4	6.8	66	2.6	6.0	7.2	39	0.63
STD DS8	Standard	12.9	116.9	126.0	312	1.8	39.7	7.8	605	2.47	24.6	2.8	113.1	6.6	64	2.4	6.2	6.9	43	0.67
STD DS8	Standard	14.0	107.1	129.4	322	1.9	37.4	7.4	622	2.55	25.6	3.0	115.4	7.3	75	2.2	5.9	7.2	44	0.70
STD DS8	Standard	10.8	108.2	122.8	307	1.8	35.9	7.2	562	2.36	24.5	2.6	109.7	6.1	59	2.4	5.4	7.1	39	0.59
STD DS8	Standard	13.7	109.5	128.5	312	1.9	38.5	7.3	625	2.46	25.4	2.7	117.6	6.8	65	2.2	5.3	6.4	43	0.71
STD DS8	Standard	12.5	109.3	128.6	326	1.9	37.5	7.3	607	2.49	24.8	2.7	116.4	6.4	63	2.1	5.0	6.7	40	0.65
STD DS8	Standard	13.7	118.8	120.4	321	1.8	41.6	8.2	624	2.51	25.3	2.8	109.5	6.6	65	2.3	5.2	6.1	44	0.71
STD DS8	Standard	13.1	104.9	120.7	292	1.8	37.0	7.3	579	2.28	24.3	3.0	122.5	7.3	62	2.3	5.6	7.1	41	0.66
STD DS8	Standard	12.9	109.9	120.2	328	1.7	39.6	7.6	591	2.55	23.9	2.5	110.5	6.4	60	2.3	5.0	6.3	42	0.68
STD DS8	Standard	13.5	114.8	126.7	328	1.9	39.7	7.7	620	2.57	25.5	2.5	131.4	6.6	59	2.8	5.7	6.8	44	0.72
STD DS8	Standard	13.3	106.2	123.9	309	1.8	36.1	7.5	603	2.41	25.1	2.6	120.8	6.7	60	2.1	5.1	5.9	40	0.67
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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QUALITY CONTROL REPORT

WHI11000957.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1062209	Soil	6	98	1.54	252	0.139	<1	2.78	0.024	0.65	0.4	0.03	7.6	0.3	0.05	8	0.9	<0.2
REP 1062209	QC	6	98	1.56	253	0.141	<1	2.81	0.024	0.64	0.6	0.03	7.3	0.3	0.07	8	0.8	<0.2
1061995	Soil	7	55	0.91	203	0.144	1	2.16	0.011	0.43	0.2	0.02	4.7	0.2	<0.05	7	0.6	<0.2
REP 1061995	QC	7	55	0.89	198	0.139	1	2.15	0.011	0.41	0.2	0.06	4.8	0.2	<0.05	7	0.7	<0.2
Reference Materials																		
STD DS8	Standard	14	120	0.61	278	0.127	2	0.93	0.091	0.41	3.0	0.19	2.2	5.4	0.12	5	5.0	5.2
STD DS8	Standard	14	115	0.59	274	0.114	2	0.84	0.083	0.39	3.0	0.19	2.0	5.4	0.14	4	4.7	5.1
STD DS8	Standard	12	118	0.60	286	0.121	2	0.86	0.078	0.40	2.9	0.22	2.0	5.4	0.18	5	4.6	5.0
STD DS8	Standard	17	119	0.62	298	0.128	2	0.91	0.096	0.43	2.7	0.21	2.3	5.5	0.17	5	5.0	4.9
STD DS8	Standard	12	111	0.57	256	0.092	3	0.84	0.077	0.38	2.8	0.20	1.9	5.1	0.16	4	5.5	4.8
STD DS8	Standard	15	120	0.63	293	0.115	2	0.91	0.088	0.43	3.3	0.21	2.3	5.6	0.13	5	5.2	5.3
STD DS8	Standard	13	113	0.58	281	0.111	<1	0.84	0.084	0.43	3.1	0.18	2.6	5.2	0.16	5	6.5	4.8
STD DS8	Standard	13	123	0.61	263	0.128	3	0.91	0.087	0.41	2.8	0.18	2.3	5.1	0.18	5	5.9	4.6
STD DS8	Standard	16	113	0.59	292	0.119	1	0.85	0.087	0.39	3.0	0.18	2.0	5.4	0.14	4	4.9	4.4
STD DS8	Standard	14	114	0.59	258	0.111	4	0.85	0.085	0.39	3.0	0.19	2.2	5.3	0.16	5	6.0	4.4
STD DS8	Standard	13	125	0.66	270	0.105	2	0.95	0.087	0.44	3.4	0.19	2.0	5.8	0.18	5	5.6	5.2
STD DS8	Standard	15	114	0.62	274	0.117	3	0.90	0.083	0.40	3.3	0.20	2.0	5.2	0.19	4	5.6	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
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Vancouver BC V6C 1H2 Canada

Project: SAP

Report Date: September 04, 2011

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QUALITY CONTROL REPORT

WHI11000957.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000957.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: August 30, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000958.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 267

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	267	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	267	Dry at 60C			VAN
1DX2	267	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

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Report Date:

August 30, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000958.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1062021	Soil	0.9	74.7	4.0	99	0.2	54.6	20.5	302	4.11	4.5	0.7	2.4	1.4	25	0.2	<0.1	0.2	162	0.28
1062013	Soil	1.0	53.8	5.2	82	0.3	54.0	21.4	523	3.65	17.0	0.6	2.6	1.1	32	0.2	0.2	0.2	125	0.26
1062005	Soil	1.5	74.1	7.5	97	0.1	61.9	20.7	370	4.75	16.5	0.5	1.5	1.2	34	0.2	0.2	0.2	151	0.19
1062004	Soil	1.0	66.5	6.0	70	0.2	60.4	19.2	333	3.94	8.0	0.7	3.0	1.1	34	<0.1	0.1	0.2	126	0.32
1062024	Soil	0.9	50.7	4.8	69	0.2	46.4	15.7	345	3.68	10.0	0.3	0.8	1.0	25	0.1	0.1	0.2	109	0.29
1062012	Soil	0.8	55.8	5.1	87	0.1	59.4	21.5	446	3.79	21.7	0.5	3.6	1.1	29	0.2	0.4	0.2	124	0.29
1062001	Soil	1.0	64.6	6.8	83	0.2	59.2	19.6	409	4.41	11.1	0.7	1.8	1.0	48	0.1	0.1	0.2	139	0.19
1062019	Soil	0.7	55.7	9.0	92	0.1	64.8	22.1	470	4.09	42.0	0.4	4.3	1.1	35	<0.1	0.5	0.3	133	0.44
1062022	Soil	1.2	85.4	5.5	101	0.2	66.8	29.5	667	4.59	16.2	0.5	2.0	0.9	40	0.1	0.1	0.2	149	0.28
1062008	Soil	0.7	62.3	6.1	84	0.2	57.1	21.7	507	3.80	29.6	0.4	3.5	1.2	33	0.2	0.4	0.2	105	0.32
1062007	Soil	1.1	66.0	5.3	87	0.2	59.3	18.5	308	4.09	16.3	0.7	2.9	1.6	34	0.2	0.2	0.2	138	0.30
1062003	Soil	1.2	69.9	7.6	87	0.1	56.1	20.8	468	4.17	17.3	0.8	2.6	1.1	30	<0.1	0.4	0.2	119	0.25
1062015	Soil	0.7	73.9	6.3	93	0.1	65.5	23.3	468	4.04	36.6	0.4	2.3	1.1	32	0.1	0.5	0.2	115	0.32
1062010	Soil	1.0	65.0	5.9	97	0.2	61.6	24.8	531	4.19	45.3	0.5	5.0	1.1	36	0.2	0.3	0.2	127	0.34
1062011	Soil	1.0	105.9	5.5	120	0.1	116.9	37.1	531	4.18	29.8	0.7	2.0	1.2	32	0.3	0.3	0.2	124	0.31
1062031	Soil	1.2	77.8	5.8	111	0.1	62.7	27.1	539	4.65	12.5	0.6	1.2	1.4	37	0.1	0.2	0.2	156	0.33
1062032	Soil	1.4	68.8	7.7	105	0.1	57.0	20.7	428	4.67	12.0	0.8	1.7	1.0	31	<0.1	0.3	0.2	156	0.21
1062029	Soil	1.1	73.6	4.9	93	0.1	58.8	20.3	445	4.16	35.0	0.5	2.3	1.2	29	0.1	0.3	0.2	132	0.32
1062030	Soil	1.3	59.7	5.4	88	<0.1	50.5	19.1	458	3.81	13.0	0.5	1.9	0.8	25	0.2	0.2	0.2	120	0.24
1062028	Soil	1.4	80.5	5.0	103	0.1	65.6	23.9	471	4.75	8.9	0.5	1.0	1.3	29	0.2	0.2	0.2	157	0.29
1062006	Soil	0.7	53.6	4.2	86	0.2	52.9	18.3	324	3.75	11.3	0.4	0.9	1.3	26	0.2	0.1	0.2	125	0.30
1062023	Soil	1.3	55.5	5.7	83	0.2	50.4	19.0	462	4.05	13.5	0.4	2.0	0.9	32	0.2	0.2	0.2	129	0.30
1062025	Soil	1.4	90.7	6.5	84	0.3	68.0	25.8	589	4.74	18.7	0.5	2.0	1.0	34	0.1	0.2	0.2	145	0.26
1062017	Soil	1.1	61.5	7.1	105	0.2	63.6	21.4	406	4.31	9.6	0.6	2.2	1.4	32	0.3	0.3	0.2	139	0.25
1062020	Soil	0.9	72.0	8.2	79	0.3	67.6	21.8	514	3.80	149.8	0.6	10.2	1.5	37	0.2	0.5	0.4	104	0.35
1062009	Soil	0.9	73.1	6.3	86	0.2	60.3	24.0	521	3.99	30.7	0.5	4.5	1.2	32	0.2	0.5	0.2	112	0.28
1062014	Soil	1.3	101.7	7.6	104	0.1	86.6	31.7	628	4.90	78.2	0.6	4.8	1.3	37	0.3	0.4	0.3	138	0.26
1062002	Soil	0.7	45.4	5.4	69	<0.1	41.2	14.9	392	3.24	11.9	0.5	4.4	0.8	28	<0.1	0.2	0.1	96	0.27
1062026	Soil	1.3	56.3	4.9	83	0.1	48.8	18.7	382	3.93	9.0	0.5	2.5	1.1	25	<0.1	0.2	0.2	121	0.23
1062027	Soil	1.7	75.8	6.8	75	0.2	60.3	21.2	509	4.37	15.2	0.6	3.2	1.2	33	<0.1	0.3	0.2	133	0.28



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Project:

SAP

Report Date:

August 30, 2011

Page:

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Part 2

CERTIFICATE OF ANALYSIS

WHI11000958.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1062021	Soil	5	149	1.59	440	0.252	<1	2.65	0.024	0.84	0.1	0.03	10.9	0.3	0.12	11	0.6
1062013	Soil	5	105	1.24	324	0.169	2	2.40	0.016	0.67	0.1	0.03	8.2	0.3	0.07	9	0.6
1062005	Soil	5	99	1.41	410	0.232	1	3.00	0.015	0.98	0.2	0.02	9.8	0.4	0.06	11	0.6
1062004	Soil	5	97	1.28	445	0.169	2	2.75	0.015	0.88	0.2	0.02	8.8	0.3	<0.05	9	0.6
1062024	Soil	4	70	1.06	257	0.184	1	2.38	0.013	0.71	0.1	0.03	7.0	0.2	<0.05	8	<0.5
1062012	Soil	4	97	1.25	341	0.191	1	2.50	0.017	0.81	0.1	0.02	8.6	0.3	<0.05	9	<0.5
1062001	Soil	5	103	1.38	406	0.187	1	3.17	0.016	0.73	0.2	0.02	9.0	0.3	<0.05	11	0.5
1062019	Soil	4	125	1.67	383	0.218	<1	2.83	0.021	0.87	0.2	<0.01	10.5	0.3	<0.05	9	<0.5
1062022	Soil	4	105	1.39	406	0.227	2	3.01	0.018	0.91	0.2	0.05	10.0	0.3	0.07	11	0.5
1062008	Soil	5	70	1.10	286	0.161	2	2.30	0.016	0.68	0.2	0.03	7.5	0.2	<0.05	8	0.7
1062007	Soil	6	102	1.34	390	0.214	<1	2.68	0.022	0.79	0.2	0.05	9.4	0.3	0.07	10	0.8
1062003	Soil	6	82	1.14	310	0.167	1	2.74	0.011	0.52	0.1	0.03	8.1	0.3	<0.05	9	0.5
1062015	Soil	4	79	1.16	332	0.189	1	2.50	0.016	0.83	0.2	<0.01	8.3	0.3	<0.05	8	0.7
1062010	Soil	5	91	1.27	367	0.190	<1	2.67	0.017	0.78	0.1	0.02	8.7	0.3	<0.05	9	0.9
1062011	Soil	6	86	1.25	340	0.189	1	2.77	0.016	0.76	0.1	0.03	8.4	0.3	0.05	9	<0.5
1062031	Soil	6	104	1.57	414	0.239	2	3.23	0.024	0.85	0.1	0.02	11.3	0.3	0.07	11	0.8
1062032	Soil	6	121	1.46	312	0.189	<1	3.21	0.016	0.44	0.1	0.02	9.1	0.3	0.06	11	0.9
1062029	Soil	5	81	1.34	324	0.214	1	2.80	0.017	0.74	0.2	0.01	9.9	0.3	0.06	9	0.8
1062030	Soil	5	82	1.17	290	0.172	1	2.48	0.015	0.62	0.2	0.01	7.4	0.2	0.05	9	0.5
1062028	Soil	6	95	1.52	388	0.257	2	3.07	0.022	1.01	0.3	0.05	11.6	0.3	0.09	11	0.7
1062006	Soil	4	93	1.30	359	0.206	<1	2.52	0.019	0.89	0.3	0.02	9.4	0.3	<0.05	9	0.5
1062023	Soil	4	79	1.10	293	0.210	1	2.47	0.013	0.79	0.2	0.03	7.9	0.3	0.08	10	<0.5
1062025	Soil	5	91	1.30	362	0.223	2	3.14	0.017	0.94	0.1	0.03	9.8	0.4	0.05	11	0.8
1062017	Soil	6	116	1.36	327	0.191	1	2.89	0.014	0.59	0.1	0.04	8.8	0.3	<0.05	10	<0.5
1062020	Soil	6	77	1.16	276	0.154	<1	2.57	0.017	0.67	0.2	0.02	8.0	0.3	<0.05	8	0.6
1062009	Soil	4	76	1.16	286	0.171	<1	2.50	0.015	0.72	0.2	0.02	7.9	0.3	<0.05	9	0.7
1062014	Soil	6	93	1.36	352	0.192	<1	3.22	0.015	0.75	0.2	0.02	9.7	0.3	0.05	10	0.6
1062002	Soil	5	60	0.85	234	0.139	1	1.91	0.012	0.43	0.2	<0.01	5.6	0.2	<0.05	7	0.9
1062026	Soil	5	79	1.08	296	0.208	<1	2.39	0.019	0.81	0.2	0.05	8.1	0.3	0.08	9	0.7
1062027	Soil	6	80	1.15	274	0.189	<1	2.81	0.016	0.68	0.2	0.02	8.1	0.3	0.05	10	0.7



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Part 1

CERTIFICATE OF ANALYSIS

WHI11000958.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1094358	Soil	1.0	65.8	6.6	88	0.3	66.3	20.4	518	4.50	54.2	0.9	3.6	2.0	36	0.1	0.4	0.2	142	0.31	0.064
1094365	Soil	1.0	58.8	6.0	67	0.2	52.4	18.4	476	3.92	26.7	0.7	2.6	1.3	24	<0.1	0.3	0.2	113	0.22	0.067
1094362	Soil	1.0	58.0	6.1	62	0.2	48.6	16.4	439	3.96	30.8	0.9	3.7	0.8	24	0.1	0.3	0.2	120	0.20	0.069
1094359	Soil	1.0	60.5	6.2	83	0.3	59.8	19.7	463	4.17	29.7	1.0	3.3	1.7	29	0.1	0.4	0.2	132	0.24	0.053
1094366	Soil	0.7	57.3	4.5	73	0.1	54.7	20.2	446	3.77	24.8	0.6	2.8	1.8	24	<0.1	0.4	0.2	113	0.25	0.069
1094381	Soil	0.9	49.9	4.8	76	0.2	47.2	16.9	396	3.59	87.4	0.7	4.7	1.4	33	<0.1	0.4	0.2	108	0.35	0.054
1094354	Soil	0.9	60.2	6.7	88	0.2	62.5	19.5	569	4.33	40.3	0.7	11.1	1.5	40	0.2	0.4	0.2	119	0.35	0.079
1094382	Soil	0.9	53.1	6.1	84	0.2	50.4	18.9	468	3.99	192.6	0.8	12.3	1.4	29	<0.1	0.7	0.2	108	0.25	0.071
1094371	Soil	0.8	46.8	6.2	68	0.2	47.3	16.6	512	3.73	71.3	0.6	4.9	1.3	25	0.2	0.6	0.2	93	0.25	0.095
1094380	Soil	1.2	57.2	5.5	89	0.3	53.2	19.3	444	4.09	101.3	0.9	6.3	1.4	31	<0.1	0.6	0.2	121	0.31	0.068
1094368	Soil	0.9	61.2	5.5	81	0.2	56.8	18.5	542	4.01	21.2	0.7	3.2	1.9	27	0.2	0.3	0.2	108	0.28	0.094
1094353	Soil	0.8	52.8	6.5	93	0.2	54.5	19.4	596	4.30	69.1	0.8	9.6	2.2	44	0.1	0.4	0.2	122	0.44	0.076
1062016	Soil	0.8	71.0	6.4	102	0.1	67.7	21.6	488	4.18	38.5	0.4	3.9	1.1	33	0.2	0.5	0.2	110	0.33	0.106
1062033	Soil	1.5	64.0	7.9	108	0.1	55.4	20.2	446	4.76	12.6	0.8	6.1	0.8	31	0.1	0.4	0.2	144	0.21	0.053
1062018	Soil	0.8	62.0	6.4	101	0.2	67.9	32.7	737	3.49	21.0	0.4	2.0	0.8	33	0.4	0.7	0.2	93	0.35	0.077
1094355	Soil	0.8	66.4	6.6	93	0.3	82.5	25.2	549	3.93	64.7	0.9	7.0	1.7	46	0.1	0.5	0.2	107	0.43	0.076
1094360	Soil	1.1	68.0	8.0	86	0.4	64.8	22.2	658	4.87	67.7	0.9	4.7	1.5	43	0.1	0.7	0.2	129	0.38	0.075
1094377	Soil	1.2	64.0	6.1	95	0.2	60.2	23.2	533	4.74	93.7	1.0	4.5	1.7	35	<0.1	0.5	0.2	136	0.30	0.070
1094379	Soil	0.9	45.0	5.1	90	0.1	47.1	17.9	414	4.13	91.2	0.8	2.0	1.6	28	0.1	0.4	0.2	119	0.20	0.057
1094367	Soil	1.2	68.0	7.2	82	0.2	62.4	24.0	638	4.66	34.9	0.8	5.2	1.3	29	<0.1	0.4	0.2	123	0.25	0.071
1094374	Soil	1.0	53.4	5.3	92	0.2	55.3	20.8	503	4.57	36.0	0.9	4.7	2.1	31	<0.1	0.4	0.2	132	0.28	0.058
1094356	Soil	1.3	85.0	9.1	123	0.4	79.6	32.4	682	4.96	220.9	1.6	10.1	1.5	43	0.1	0.7	0.3	125	0.34	0.083
1094375	Soil	1.1	47.8	5.9	85	0.2	49.8	18.2	412	4.05	69.0	0.9	5.5	1.5	26	<0.1	0.4	0.2	120	0.19	0.056
1094363	Soil	0.8	54.1	5.7	79	0.2	53.1	19.6	534	4.16	59.0	0.7	9.0	1.7	31	0.1	0.4	0.2	114	0.28	0.082
1094372	Soil	1.1	58.1	7.6	81	0.3	56.8	20.7	578	4.37	103.2	0.8	8.2	1.3	31	0.1	0.8	0.2	111	0.25	0.079
1094369	Soil	1.0	50.9	6.7	80	0.2	48.6	18.3	549	3.84	23.0	0.8	3.7	1.1	35	0.3	0.4	0.2	107	0.38	0.081
1094373	Soil	1.3	62.0	7.5	91	0.3	59.3	21.1	510	4.70	145.7	1.0	8.0	1.6	33	<0.1	0.8	0.2	127	0.28	0.090
1094376	Soil	1.2	57.3	6.9	98	0.3	58.6	23.7	527	4.77	525.5	1.1	17.3	1.9	39	<0.1	0.8	0.2	133	0.28	0.071
1094370	Soil	1.2	46.2	6.9	64	0.2	42.4	16.2	458	3.87	38.4	0.8	8.4	1.0	23	<0.1	0.4	0.2	102	0.17	0.071
1094378	Soil	0.8	55.3	6.0	108	0.1	66.2	24.9	548	4.68	343.8	0.8	11.5	2.3	33	0.2	1.0	0.2	134	0.32	0.060



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1094358	Soil	8	108	1.55	377	0.160	<1	3.17	0.016	0.73	<0.1	0.02	9.9	0.3	<0.05	10	0.6
1094365	Soil	7	77	1.15	213	0.130	1	2.55	0.014	0.51	0.1	0.03	7.0	0.3	0.05	8	0.6
1094362	Soil	8	83	1.16	227	0.107	1	2.70	0.010	0.46	<0.1	0.03	6.8	0.3	0.06	8	0.8
1094359	Soil	9	103	1.42	327	0.152	<1	2.89	0.014	0.61	<0.1	0.03	8.9	0.3	<0.05	10	0.8
1094366	Soil	7	85	1.22	280	0.151	2	2.45	0.016	0.57	0.1	<0.01	8.2	0.3	0.05	8	0.7
1094381	Soil	8	83	1.19	284	0.135	2	2.25	0.016	0.44	0.1	0.02	7.3	0.2	0.09	8	0.7
1094354	Soil	8	92	1.44	326	0.144	1	2.96	0.019	0.69	0.1	0.03	7.6	0.3	0.06	10	<0.5
1094382	Soil	7	80	1.23	255	0.130	1	2.58	0.018	0.46	0.1	0.03	6.7	0.2	0.06	9	<0.5
1094371	Soil	8	67	1.12	201	0.126	2	2.44	0.014	0.43	0.1	0.03	6.0	0.2	<0.05	7	0.6
1094380	Soil	9	98	1.40	306	0.149	2	2.67	0.020	0.57	<0.1	0.03	7.1	0.3	0.07	10	<0.5
1094368	Soil	7	77	1.22	255	0.151	1	2.65	0.017	0.57	0.2	0.02	7.7	0.3	<0.05	8	<0.5
1094353	Soil	10	105	1.54	359	0.151	1	2.85	0.017	0.64	<0.1	0.02	9.0	0.3	<0.05	10	0.7
1062016	Soil	4	75	1.15	341	0.187	<1	2.54	0.020	0.93	0.2	<0.01	8.1	0.3	<0.05	9	0.5
1062033	Soil	6	111	1.37	312	0.179	<1	3.16	0.017	0.46	0.1	0.03	7.9	0.3	0.06	12	<0.5
1062018	Soil	5	63	0.94	257	0.141	1	2.10	0.020	0.58	0.1	0.06	5.6	0.2	0.05	8	0.5
1094355	Soil	9	122	1.63	302	0.151	2	2.99	0.039	0.64	0.1	0.02	6.7	0.3	<0.05	9	<0.5
1094360	Soil	8	95	1.47	348	0.144	1	3.16	0.018	0.70	<0.1	0.04	8.2	0.4	0.06	10	<0.5
1094377	Soil	10	111	1.57	394	0.164	1	3.21	0.023	0.61	0.1	0.04	8.7	0.4	0.08	11	<0.5
1094379	Soil	9	105	1.50	309	0.175	1	2.99	0.023	0.56	0.1	0.04	6.8	0.3	0.07	11	<0.5
1094367	Soil	8	79	1.29	264	0.142	2	2.87	0.017	0.53	0.1	0.04	7.4	0.3	0.06	9	<0.5
1094374	Soil	9	116	1.60	368	0.177	1	3.10	0.025	0.69	0.1	0.02	9.1	0.3	0.07	11	0.5
1094356	Soil	13	101	1.48	332	0.129	3	3.14	0.019	0.60	<0.1	0.03	7.6	0.4	0.09	11	<0.5
1094375	Soil	10	97	1.32	290	0.150	<1	2.79	0.018	0.55	0.2	0.03	6.9	0.3	0.06	10	<0.5
1094363	Soil	9	81	1.35	273	0.156	1	2.87	0.021	0.59	0.2	0.02	7.5	0.3	<0.05	9	0.8
1094372	Soil	8	86	1.34	267	0.138	2	2.91	0.016	0.55	0.1	0.03	6.7	0.3	0.06	9	<0.5
1094369	Soil	8	78	1.19	276	0.126	<1	2.62	0.016	0.47	0.1	0.04	6.2	0.3	0.07	8	0.6
1094373	Soil	10	97	1.46	295	0.155	2	2.99	0.018	0.59	0.1	0.04	7.7	0.3	0.06	10	<0.5
1094376	Soil	11	108	1.53	423	0.164	2	3.09	0.024	0.61	<0.1	0.04	8.1	0.3	0.11	11	0.7
1094370	Soil	8	68	0.98	169	0.110	3	2.57	0.014	0.35	0.1	0.04	5.4	0.2	0.07	8	<0.5
1094378	Soil	10	119	1.70	460	0.182	<1	2.98	0.025	0.67	0.1	0.02	9.3	0.3	<0.05	10	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070008	Soil	0.7	31.6	4.2	75	0.1	42.6	12.6	368	3.78	7.1	0.4	3.4	1.8	27	<0.1	0.1	0.2	84	0.25	0.072
1070011	Soil	0.7	32.7	5.0	66	0.3	37.0	13.1	355	3.27	10.1	0.5	2.8	1.4	38	<0.1	0.2	0.2	73	0.39	0.090
1070017	Soil	0.7	36.4	6.0	80	0.5	43.0	14.4	345	3.64	14.3	0.6	3.1	1.8	30	<0.1	0.2	0.3	86	0.31	0.101
1070013	Soil	0.8	27.4	4.1	71	<0.1	32.0	12.3	345	3.10	7.4	0.4	2.0	2.4	25	<0.1	0.2	0.1	65	0.31	0.090
1070015	Soil	0.7	32.4	4.4	74	0.1	33.7	13.2	395	3.32	10.1	0.5	3.6	2.5	26	<0.1	0.3	0.1	70	0.32	0.101
1070016	Soil	1.0	36.0	6.6	77	0.4	40.4	13.9	400	3.79	23.5	0.7	5.0	1.9	34	<0.1	0.2	0.3	91	0.34	0.118
1070012	Soil	1.1	58.8	8.6	78	0.3	60.0	20.9	592	4.37	38.6	0.8	6.0	1.1	42	<0.1	0.3	0.3	97	0.36	0.086
1070014	Soil	1.0	37.5	4.7	75	0.2	33.8	12.6	382	3.18	9.8	0.5	74.9	2.4	29	<0.1	0.3	0.1	67	0.38	0.107
1094351	Soil	0.8	49.1	5.3	84	0.2	50.4	16.2	419	4.04	60.2	0.6	6.7	2.1	27	0.1	0.3	0.2	106	0.27	0.082
1094361	Soil	1.0	63.3	6.4	87	0.2	61.6	21.4	533	4.49	41.7	0.8	4.6	1.9	35	<0.1	0.4	0.2	129	0.30	0.074
1094352	Soil	1.2	63.0	7.6	94	0.3	60.9	23.6	583	4.66	59.2	1.0	5.0	1.4	39	0.1	0.4	0.2	128	0.36	0.076
1094357	Soil	1.1	53.6	8.3	92	0.1	54.6	21.7	507	3.97	338.6	0.9	8.8	1.6	33	<0.1	0.8	0.2	104	0.26	0.060
1094364	Soil	1.3	82.5	8.2	111	0.3	70.8	29.6	779	5.05	64.9	1.1	5.2	1.6	39	0.2	0.5	0.3	138	0.48	0.129
1070019	Soil	1.2	55.8	6.8	78	0.1	55.3	18.1	518	4.44	26.3	0.6	4.2	1.7	33	<0.1	0.3	0.2	104	0.31	0.095
1070001	Soil	0.8	84.7	6.3	68	0.1	66.5	18.8	399	4.05	24.2	0.5	4.6	1.9	51	<0.1	0.2	0.2	88	0.39	0.107
1070010	Soil	1.6	36.0	5.3	65	0.2	36.7	12.5	329	3.59	11.8	0.5	2.0	1.8	32	<0.1	0.2	0.2	83	0.30	0.086
1070009	Soil	0.5	33.5	3.9	68	<0.1	33.8	12.3	372	3.09	8.7	0.4	3.5	2.2	27	<0.1	0.3	0.1	65	0.33	0.094
1070006	Soil	1.3	58.8	7.7	77	0.3	57.7	18.3	386	3.84	15.0	0.7	3.2	1.3	34	0.2	0.2	0.2	100	0.27	0.078
1070007	Soil	1.6	60.7	7.5	74	0.3	57.4	18.4	507	4.46	25.5	0.7	2.9	1.2	41	<0.1	0.3	0.2	99	0.31	0.085
1070002	Soil	1.1	68.1	6.0	47	0.3	56.9	25.5	511	3.77	17.1	0.6	3.7	0.7	47	0.7	0.3	0.2	88	0.38	0.078
1070018	Soil	1.4	64.8	8.6	81	0.3	64.6	21.3	622	4.76	34.9	0.9	4.3	1.5	40	<0.1	0.5	0.3	111	0.29	0.088
1070003	Soil	1.0	51.4	5.6	63	0.2	48.2	14.7	391	3.70	13.3	0.5	1.6	1.5	34	0.3	0.3	0.2	85	0.31	0.092
1070020	Soil	1.3	40.2	6.8	80	0.2	40.6	14.1	473	3.96	27.4	0.6	2.4	2.2	32	<0.1	0.3	0.2	87	0.26	0.091
1070004	Soil	0.7	49.5	6.6	77	<0.1	41.1	15.8	584	3.28	8.4	0.5	11.5	2.8	33	0.2	0.5	0.1	76	0.48	0.086
1070005	Soil	1.4	55.2	8.5	70	0.3	46.8	16.8	592	4.23	20.6	0.8	2.9	1.5	35	0.2	0.3	0.2	97	0.27	0.077
1070022	Soil	1.3	50.9	6.8	84	0.3	48.8	14.2	425	3.99	23.6	0.9	3.7	0.8	29	0.3	0.3	0.2	88	0.26	0.112
1070024	Soil	1.2	36.4	6.7	79	0.3	34.3	12.0	476	3.73	16.1	0.9	2.3	1.6	28	0.1	0.4	0.2	76	0.30	0.095
1070029	Soil	1.1	44.4	6.3	87	0.3	44.0	16.4	559	3.73	16.5	0.8	4.9	2.0	37	0.1	0.3	0.2	81	0.35	0.088
1070023	Soil	0.8	34.4	4.9	78	0.1	35.8	11.9	404	3.35	14.1	0.6	2.1	2.6	24	<0.1	0.3	0.2	71	0.28	0.103
1070028	Soil	1.4	71.7	7.3	99	0.3	64.3	21.1	609	4.68	23.3	0.9	2.9	2.2	37	<0.1	0.4	0.2	98	0.29	0.095



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1070008	Soil	7	65	1.22	134	0.128	<1	2.62	0.010	0.30	<0.1	0.01	5.1	0.3	<0.05	9	<0.5
1070011	Soil	7	56	1.05	142	0.088	1	2.45	0.012	0.20	<0.1	0.02	4.4	0.2	<0.05	7	<0.5
1070017	Soil	8	66	1.11	146	0.090	<1	2.76	0.011	0.24	<0.1	0.02	4.9	0.3	<0.05	8	0.8
1070013	Soil	8	51	0.93	93	0.089	<1	1.94	0.009	0.24	<0.1	0.01	3.9	0.2	<0.05	6	<0.5
1070015	Soil	9	54	1.00	104	0.094	1	2.16	0.012	0.23	<0.1	<0.01	4.3	0.2	<0.05	6	<0.5
1070016	Soil	8	67	1.06	160	0.078	1	2.71	0.017	0.26	<0.1	0.05	5.0	0.3	<0.05	8	<0.5
1070012	Soil	9	71	1.18	184	0.075	1	3.05	0.015	0.28	<0.1	0.03	4.9	0.3	<0.05	8	<0.5
1070014	Soil	10	50	0.99	91	0.093	1	1.96	0.017	0.23	<0.1	0.01	4.3	0.2	<0.05	6	<0.5
1094351	Soil	7	83	1.34	339	0.156	2	2.83	0.021	0.71	0.2	0.02	7.9	0.3	0.05	9	<0.5
1094361	Soil	8	96	1.46	334	0.158	1	3.11	0.019	0.70	0.1	0.02	8.1	0.3	0.06	10	0.6
1094352	Soil	10	101	1.45	338	0.140	2	3.11	0.018	0.53	<0.1	0.04	7.6	0.3	0.08	10	0.7
1094357	Soil	9	79	1.21	280	0.120	1	2.64	0.017	0.49	0.2	0.03	6.4	0.3	0.08	9	<0.5
1094364	Soil	10	103	1.47	246	0.152	<1	3.30	0.025	0.63	0.1	0.03	8.3	0.3	0.12	10	0.8
1070019	Soil	8	79	1.26	155	0.121	<1	2.94	0.011	0.32	<0.1	0.03	5.7	0.3	<0.05	8	<0.5
1070001	Soil	7	63	1.17	161	0.113	<1	2.68	0.012	0.54	<0.1	0.01	5.3	0.3	<0.05	8	<0.5
1070010	Soil	7	62	0.98	131	0.098	<1	2.40	0.014	0.21	<0.1	0.01	4.7	0.3	<0.05	7	1.0
1070009	Soil	9	51	0.93	96	0.096	<1	1.84	0.011	0.20	<0.1	0.02	3.8	0.2	<0.05	5	<0.5
1070006	Soil	8	76	1.17	173	0.109	<1	2.86	0.014	0.36	<0.1	0.02	5.2	0.3	<0.05	8	<0.5
1070007	Soil	9	71	1.22	184	0.105	<1	3.11	0.017	0.36	<0.1	0.02	5.3	0.3	<0.05	8	<0.5
1070002	Soil	6	58	0.90	159	0.095	<1	2.22	0.017	0.43	<0.1	0.04	4.3	0.3	0.06	6	<0.5
1070018	Soil	9	83	1.28	168	0.102	<1	3.26	0.016	0.26	<0.1	0.02	6.0	0.3	<0.05	9	0.7
1070003	Soil	7	56	1.03	133	0.111	1	2.22	0.015	0.39	<0.1	0.01	4.4	0.3	<0.05	7	<0.5
1070020	Soil	9	62	1.15	115	0.099	<1	2.68	0.011	0.27	<0.1	0.01	4.6	0.3	<0.05	8	0.8
1070004	Soil	11	54	1.13	140	0.116	2	2.10	0.022	0.13	<0.1	0.01	5.0	0.2	<0.05	6	<0.5
1070005	Soil	8	65	1.11	143	0.096	<1	2.77	0.015	0.29	0.1	0.02	4.6	0.3	<0.05	8	<0.5
1070022	Soil	8	63	1.06	115	0.070	<1	2.67	0.013	0.31	<0.1	0.03	3.8	0.2	<0.05	8	<0.5
1070024	Soil	10	52	0.93	84	0.085	2	2.17	0.012	0.25	<0.1	0.04	3.5	0.2	<0.05	7	0.7
1070029	Soil	9	58	1.01	110	0.097	<1	2.28	0.014	0.23	0.2	0.02	4.3	0.3	<0.05	7	<0.5
1070023	Soil	9	50	0.97	88	0.089	<1	2.05	0.012	0.22	<0.1	0.02	4.0	0.2	<0.05	7	<0.5
1070028	Soil	11	73	1.27	139	0.098	<1	2.97	0.013	0.27	<0.1	0.02	5.6	0.3	<0.05	9	0.7



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Soil Geochemistry

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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1070032	Soil		1.0	47.6	6.5	98	0.2	47.2	16.9	577	3.93	17.5	0.7	2.6	2.7	30	0.2	0.3	0.2	85	0.29
1070030	Soil		1.3	60.7	7.5	109	0.2	60.3	19.8	579	4.49	21.7	0.8	2.8	2.4	32	0.3	0.3	0.2	95	0.27
1070025	Soil		1.2	37.1	5.9	93	0.1	39.8	13.1	444	3.78	19.3	0.7	7.3	2.5	28	0.1	0.3	0.2	82	0.30
1070026	Soil		1.0	46.1	6.4	88	0.3	45.0	17.4	562	3.98	23.2	0.9	3.5	3.7	33	0.1	0.4	0.2	86	0.33
1070021	Soil		1.3	42.6	6.7	86	0.5	47.6	13.0	335	3.81	17.2	0.8	2.8	1.8	40	<0.1	0.3	0.2	88	0.37
1070031	Soil		1.0	41.6	6.0	93	0.2	44.5	16.2	530	3.74	13.2	0.7	2.0	2.6	27	0.2	0.2	0.2	80	0.29
1070027	Soil		0.9	40.5	5.5	87	0.4	44.6	14.3	451	3.84	19.4	0.8	2.3	1.8	40	<0.1	0.2	0.2	88	0.37
1075542	Soil		1.2	33.0	6.7	73	0.2	32.6	12.1	477	3.65	32.6	0.6	2.4	0.8	23	0.2	0.3	0.2	94	0.17
1075547	Soil		1.2	36.3	6.5	74	0.1	35.8	11.8	415	3.80	26.4	0.6	2.3	1.1	20	0.1	0.3	0.2	95	0.15
1075539	Soil		1.1	42.6	7.3	78	0.1	39.8	16.7	519	3.90	27.2	0.6	13.0	1.3	24	0.2	0.4	0.2	100	0.14
1075546	Soil		0.9	40.2	6.1	73	0.2	37.6	14.9	497	3.54	41.8	0.5	5.5	1.6	24	0.2	0.3	0.2	92	0.17
1075544	Soil		1.3	48.2	8.5	94	0.1	45.6	13.8	461	4.24	168.1	0.5	10.0	1.2	21	0.2	0.4	0.3	102	0.11
1075541	Soil		1.5	29.0	8.2	66	0.1	28.5	10.8	421	3.50	20.9	0.6	3.5	1.0	29	0.2	0.5	0.2	89	0.21
1075537	Soil		0.9	34.7	5.7	77	0.1	35.7	15.4	457	3.62	16.4	0.5	4.3	1.3	23	0.1	0.3	0.1	92	0.18
1075540	Soil		0.7	35.5	5.6	77	<0.1	35.0	13.4	447	3.46	21.6	0.5	3.7	1.2	26	0.1	0.3	0.2	95	0.21
1075543	Soil		1.3	44.8	8.5	91	0.1	42.7	13.2	443	4.05	162.0	0.5	7.5	1.2	22	0.2	0.4	0.3	99	0.12
1075545	Soil		0.8	40.4	6.1	76	0.1	38.1	15.3	491	3.54	43.9	0.5	7.3	1.6	25	0.2	0.3	0.2	95	0.17
1075538	Soil		0.8	36.6	5.4	76	<0.1	34.6	13.4	419	3.47	14.6	0.5	1.0	1.4	25	0.2	0.3	0.1	91	0.18
1075524	Soil		0.8	54.1	5.8	86	0.1	55.0	20.5	954	4.06	14.7	0.6	5.4	1.6	42	0.2	0.3	0.2	117	0.27
1075522	Soil		1.0	53.7	7.0	93	0.2	54.7	23.1	891	4.57	10.6	0.6	5.4	1.3	40	0.1	0.3	0.2	128	0.25
1075520	Soil		0.9	42.2	6.4	79	0.1	41.3	16.3	569	3.89	7.2	0.6	3.1	1.0	30	0.1	0.3	0.2	109	0.26
1075515	Soil		0.8	46.5	5.9	91	0.1	45.5	17.0	654	4.00	8.4	0.5	10.7	1.6	23	0.1	0.2	0.2	113	0.25
1075523	Soil		1.0	47.9	6.4	78	0.2	59.5	20.6	912	4.03	10.6	0.6	3.5	0.9	42	0.2	0.3	0.2	118	0.26
1075521	Soil		0.8	38.3	5.3	75	0.1	37.7	13.9	463	3.49	7.0	0.5	2.3	1.5	22	0.1	0.2	0.2	97	0.21
1075518	Soil		0.7	43.3	5.7	82	0.1	44.2	16.6	577	3.85	8.7	0.5	4.3	1.4	23	0.2	0.2	0.2	113	0.21
1075517	Soil		1.0	59.4	6.9	106	0.1	56.7	22.8	909	4.95	7.3	0.6	3.7	1.3	34	0.2	0.2	0.2	146	0.23
1075514	Soil		1.1	59.7	7.3	97	0.1	53.0	20.8	850	4.52	9.5	0.7	6.2	1.4	22	<0.1	0.3	0.2	129	0.19
1075513	Soil		0.7	43.1	5.4	80	<0.1	44.1	16.7	581	3.77	7.0	0.4	3.4	1.2	20	0.1	0.3	0.1	105	0.20
1075516	Soil		1.0	50.4	7.0	93	0.1	47.7	20.2	758	4.13	14.0	0.5	6.4	1.0	25	0.2	0.3	0.2	116	0.23
1075519	Soil		0.7	43.9	4.6	78	0.1	42.8	16.4	565	3.64	8.0	0.4	4.4	1.3	19	0.1	0.2	0.1	104	0.22



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Report Date: August 30, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070032	Soil	9	59	1.07	109	0.109	1	2.40	0.013	0.30	<0.1	0.02	4.6	0.2	<0.05	8	0.6	<0.2
1070030	Soil	10	65	1.16	119	0.116	<1	2.80	0.012	0.28	<0.1	0.03	4.7	0.3	<0.05	9	0.6	<0.2
1070025	Soil	10	58	1.04	125	0.090	2	2.60	0.013	0.25	<0.1	0.02	4.5	0.3	<0.05	7	0.8	<0.2
1070026	Soil	13	60	1.11	180	0.106	1	2.81	0.017	0.32	<0.1	0.03	5.6	0.3	<0.05	8	<0.5	<0.2
1070021	Soil	9	68	1.11	141	0.089	1	2.70	0.016	0.32	<0.1	0.04	5.1	0.3	<0.05	8	0.9	<0.2
1070031	Soil	9	54	1.02	95	0.109	1	2.33	0.012	0.29	<0.1	0.03	4.4	0.2	<0.05	7	0.5	<0.2
1070027	Soil	10	68	1.14	128	0.086	<1	2.69	0.014	0.29	<0.1	0.03	5.0	0.3	<0.05	8	<0.5	<0.2
1075542	Soil	6	59	0.91	150	0.133	2	2.22	0.011	0.39	0.1	0.09	4.8	0.2	0.06	8	0.6	<0.2
1075547	Soil	6	61	0.96	134	0.149	<1	2.39	0.011	0.35	0.1	0.03	5.3	0.2	<0.05	8	<0.5	<0.2
1075539	Soil	6	62	0.94	173	0.178	1	2.48	0.015	0.49	0.2	0.02	5.9	0.2	<0.05	8	<0.5	<0.2
1075546	Soil	7	59	0.92	205	0.178	<1	2.61	0.015	0.54	0.2	0.02	6.0	0.2	<0.05	8	<0.5	<0.2
1075544	Soil	5	62	0.95	181	0.155	<1	2.59	0.012	0.56	0.1	0.02	5.7	0.2	0.06	9	<0.5	<0.2
1075541	Soil	7	50	0.81	121	0.135	1	1.96	0.013	0.30	0.2	0.03	4.1	0.2	0.06	8	<0.5	<0.2
1075537	Soil	7	61	1.01	218	0.188	<1	2.68	0.015	0.56	0.1	0.02	6.2	0.2	<0.05	8	<0.5	<0.2
1075540	Soil	6	60	0.92	187	0.192	<1	2.27	0.016	0.54	0.1	0.02	5.9	0.2	<0.05	8	<0.5	<0.2
1075543	Soil	6	61	0.93	178	0.156	<1	2.48	0.013	0.54	0.2	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
1075545	Soil	6	59	0.90	208	0.180	1	2.53	0.015	0.55	0.2	0.02	6.0	0.2	<0.05	8	0.6	<0.2
1075538	Soil	7	56	0.92	192	0.194	<1	2.43	0.016	0.55	0.1	0.02	5.8	0.2	0.05	8	<0.5	<0.2
1075524	Soil	6	83	1.07	305	0.236	<1	3.15	0.019	0.64	0.2	0.02	8.1	0.3	<0.05	10	0.6	<0.2
1075522	Soil	6	84	1.08	334	0.245	1	3.24	0.019	0.80	0.2	0.02	8.8	0.3	0.06	11	0.8	<0.2
1075520	Soil	6	72	0.99	254	0.195	<1	2.73	0.019	0.49	0.2	0.03	6.7	0.2	0.08	9	0.6	<0.2
1075515	Soil	6	71	0.98	253	0.234	<1	2.82	0.018	0.69	0.2	0.02	7.5	0.3	<0.05	9	<0.5	<0.2
1075523	Soil	5	94	1.12	269	0.186	<1	3.05	0.017	0.62	0.1	0.05	6.9	0.3	0.08	10	0.9	<0.2
1075521	Soil	6	64	0.93	210	0.186	<1	2.55	0.017	0.49	0.1	0.02	6.3	0.2	<0.05	8	<0.5	<0.2
1075518	Soil	6	71	0.94	250	0.228	<1	2.82	0.017	0.63	0.2	0.02	7.4	0.3	<0.05	9	0.5	<0.2
1075517	Soil	5	91	1.18	431	0.287	<1	3.86	0.021	0.99	0.2	0.02	10.1	0.4	<0.05	12	0.6	<0.2
1075514	Soil	6	83	1.07	288	0.206	1	3.35	0.012	0.65	0.3	0.02	8.3	0.3	<0.05	10	<0.5	<0.2
1075513	Soil	5	71	0.98	215	0.169	<1	2.70	0.012	0.51	0.2	0.03	6.5	0.2	<0.05	8	<0.5	<0.2
1075516	Soil	5	74	1.02	263	0.170	<1	2.89	0.012	0.60	0.2	0.02	7.3	0.3	<0.05	9	<0.5	<0.2
1075519	Soil	5	72	1.03	239	0.181	<1	2.61	0.013	0.58	0.1	0.01	6.7	0.2	<0.05	8	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1075527	Soil		0.7	63.8	6.9	104	0.1	68.7	26.3	961	4.85	22.4	0.5	6.4	1.2	34	0.2	0.2	0.3	130	0.22
1075526	Soil		1.3	50.5	7.9	88	0.1	46.7	23.4	1054	4.21	14.8	0.7	4.3	0.5	35	0.2	0.5	0.2	108	0.29
1075525	Soil		0.7	46.7	6.2	92	0.1	101.4	23.6	694	4.63	18.4	0.5	5.2	1.0	32	0.1	0.3	0.2	131	0.31
1075529	Soil		0.2	55.8	8.2	81	0.1	55.4	19.2	647	4.38	4.7	0.3	2.0	0.9	141	<0.1	<0.1	0.2	137	0.35
1075530	Soil		1.6	47.1	8.2	88	0.3	41.2	18.1	697	4.17	16.5	0.7	3.6	0.4	31	0.2	0.5	0.2	106	0.23
1075528	Soil		1.0	52.3	7.6	87	<0.1	49.0	20.5	839	4.48	8.4	0.4	5.0	0.7	25	<0.1	0.3	0.2	127	0.21
1075531	Soil		1.6	43.2	7.6	79	0.2	39.7	15.4	612	4.21	12.9	0.5	2.1	0.6	21	0.1	0.4	0.2	114	0.15
1075535	Soil		0.9	38.7	6.3	70	0.2	38.4	15.3	458	3.73	15.4	0.4	2.5	1.1	20	0.1	0.3	0.1	97	0.19
1075533	Soil		0.3	50.5	6.2	91	0.2	73.4	24.5	684	5.02	30.3	0.3	4.2	1.3	75	<0.1	<0.1	0.1	128	0.54
1075532	Soil		1.2	66.2	7.9	100	0.3	57.8	25.2	882	4.98	41.0	0.6	5.7	1.2	37	0.1	0.4	0.2	136	0.27
1075536	Soil		1.2	40.2	6.5	77	0.1	40.4	14.2	464	3.80	33.2	0.5	3.3	0.7	23	0.1	0.4	0.2	95	0.14
1075534	Soil		0.9	37.1	5.7	75	<0.1	40.2	15.2	581	3.70	10.5	0.4	1.2	1.0	17	<0.1	0.3	0.2	107	0.14
1094443	Soil		0.8	40.2	5.0	55	0.1	36.8	13.3	341	3.45	25.7	0.4	2.1	1.4	22	0.1	0.3	0.1	99	0.27
1094442	Soil		0.6	39.5	3.9	49	0.1	36.8	13.4	366	3.31	14.1	0.4	2.9	1.5	22	<0.1	0.2	0.1	96	0.33
1094441	Soil		0.7	46.5	4.1	60	<0.1	41.0	15.0	394	3.72	12.2	0.4	7.2	1.5	24	0.2	0.2	0.1	108	0.32
1094446	Soil		0.8	44.9	4.9	54	0.2	41.2	15.5	405	3.58	21.2	0.4	26.9	1.4	23	0.2	0.2	0.2	104	0.27
1094444	Soil		0.8	43.8	5.0	58	0.1	40.8	14.5	434	3.74	19.1	0.4	44.1	1.5	27	<0.1	0.3	0.2	108	0.34
1094445	Soil		1.1	51.1	7.6	63	0.2	53.5	19.6	535	4.57	26.3	0.5	4.2	2.0	29	0.1	0.3	0.2	127	0.33
1094447	Soil		0.8	53.0	4.8	53	<0.1	50.4	16.0	375	3.70	20.3	0.4	2.4	1.5	22	0.1	0.2	0.1	112	0.26
1094448	Soil		0.6	53.7	3.9	47	0.1	48.5	16.2	375	3.62	19.0	0.4	3.1	1.5	22	<0.1	0.2	0.1	107	0.33
1094449	Soil		1.1	58.5	6.0	53	0.2	51.7	18.3	459	4.01	29.5	0.6	4.0	1.5	26	0.1	0.3	0.2	118	0.31
1094438	Soil		0.7	53.2	4.8	66	0.2	52.5	22.2	456	3.96	15.2	0.5	1.8	1.4	29	<0.1	0.2	0.2	117	0.29
1094440	Soil		0.6	53.0	5.3	76	<0.1	54.1	16.3	336	4.04	20.4	0.5	3.6	1.6	23	<0.1	0.1	0.2	117	0.20
1094437	Soil		0.5	47.5	3.5	57	<0.1	43.2	15.5	339	3.33	9.7	0.4	2.7	1.8	24	<0.1	0.2	0.1	96	0.32
1094450	Soil		0.8	24.6	3.7	52	0.1	18.0	8.5	287	2.42	7.3	0.3	2.1	0.4	17	0.3	0.2	<0.1	72	0.17
1065201	Soil		0.9	47.3	4.4	55	0.1	43.8	15.6	356	3.46	22.9	0.5	8.2	1.4	22	<0.1	0.3	0.1	98	0.27
1065202	Soil		1.1	54.8	7.0	62	0.2	52.6	18.0	476	3.98	25.5	0.7	4.2	1.8	32	<0.1	0.3	0.2	115	0.35
1065203	Soil		0.8	43.6	4.1	52	0.1	43.7	15.6	348	3.41	15.3	0.3	1.2	1.6	20	0.2	0.3	0.1	97	0.27
1065204	Soil		0.7	44.1	4.9	49	0.2	41.9	14.5	359	3.17	21.4	0.5	5.7	1.3	28	<0.1	0.3	0.1	91	0.36
1065206	Soil		0.8	55.8	7.7	89	0.2	72.7	21.9	388	4.05	36.3	0.8	4.4	2.6	28	<0.1	0.2	0.1	140	0.41



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075527	Soil	5	116	1.38	267	0.176	<1	3.29	0.012	0.73	0.2	0.01	8.3	0.3	<0.05	10	<0.5	<0.2
1075526	Soil	5	74	1.02	173	0.102	<1	2.58	0.010	0.37	0.2	0.02	5.5	0.2	0.08	9	<0.5	<0.2
1075525	Soil	6	175	1.64	288	0.175	<1	3.69	0.012	0.52	0.1	0.01	8.8	0.3	<0.05	11	<0.5	<0.2
1075529	Soil	4	106	1.65	464	0.183	<1	4.42	0.013	0.90	0.1	0.01	10.2	0.3	<0.05	12	<0.5	<0.2
1075530	Soil	6	68	1.03	104	0.103	<1	2.58	0.009	0.33	0.1	0.03	4.6	0.2	0.05	8	<0.5	<0.2
1075528	Soil	4	86	1.21	258	0.180	<1	3.04	0.011	0.75	0.1	0.02	7.6	0.3	<0.05	10	<0.5	<0.2
1075531	Soil	5	71	0.98	152	0.145	1	2.66	0.013	0.52	0.1	0.04	5.5	0.2	<0.05	10	0.5	<0.2
1075535	Soil	5	63	1.00	148	0.158	<1	2.46	0.010	0.40	0.2	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
1075533	Soil	5	176	2.69	406	0.240	<1	4.67	0.041	1.07	<0.1	<0.01	7.1	0.4	<0.05	13	<0.5	<0.2
1075532	Soil	6	87	1.22	278	0.189	<1	3.62	0.013	0.59	0.2	0.04	8.5	0.3	<0.05	11	0.6	<0.2
1075536	Soil	5	61	0.93	158	0.128	<1	2.33	0.009	0.44	0.1	0.03	5.2	0.2	0.05	8	0.6	<0.2
1075534	Soil	5	69	0.96	191	0.166	<1	2.51	0.011	0.52	0.1	0.03	6.3	0.2	<0.05	8	<0.5	<0.2
1094443	Soil	6	65	1.01	185	0.128	<1	2.13	0.012	0.46	0.1	0.03	6.0	0.2	<0.05	7	<0.5	<0.2
1094442	Soil	6	63	1.00	220	0.118	<1	2.22	0.012	0.47	0.2	<0.01	6.2	0.2	<0.05	6	<0.5	<0.2
1094441	Soil	6	78	1.15	264	0.144	<1	2.51	0.012	0.53	0.1	0.02	7.3	0.2	<0.05	8	<0.5	<0.2
1094446	Soil	6	74	1.07	224	0.128	<1	2.42	0.011	0.51	0.1	0.04	6.6	0.2	0.05	7	<0.5	<0.2
1094444	Soil	6	73	1.13	234	0.134	<1	2.44	0.011	0.51	0.1	0.02	6.7	0.2	<0.05	8	<0.5	<0.2
1094445	Soil	7	81	1.26	250	0.163	<1	3.11	0.012	0.46	0.1	0.03	7.7	0.3	<0.05	9	<0.5	<0.2
1094447	Soil	6	86	1.20	244	0.141	<1	2.53	0.014	0.63	0.2	0.01	7.5	0.3	<0.05	8	<0.5	<0.2
1094448	Soil	5	78	1.15	226	0.142	<1	2.46	0.011	0.69	0.1	<0.01	7.6	0.3	<0.05	8	0.5	<0.2
1094449	Soil	7	85	1.21	262	0.138	<1	2.86	0.011	0.60	0.2	0.03	7.5	0.3	<0.05	8	<0.5	<0.2
1094438	Soil	6	85	1.24	274	0.129	<1	2.77	0.010	0.55	0.1	0.02	7.4	0.3	0.05	9	<0.5	<0.2
1094440	Soil	7	87	1.30	258	0.129	<1	3.05	0.008	0.56	<0.1	<0.01	7.4	0.3	<0.05	10	<0.5	<0.2
1094437	Soil	7	70	1.06	213	0.124	<1	2.28	0.013	0.48	0.1	0.02	6.5	0.2	<0.05	7	<0.5	<0.2
1094450	Soil	4	38	0.50	108	0.080	<1	1.12	0.011	0.13	<0.1	0.02	2.5	0.1	0.06	5	<0.5	<0.2
1065201	Soil	6	76	1.09	220	0.120	<1	2.26	0.012	0.60	0.1	0.02	6.3	0.3	<0.05	7	<0.5	<0.2
1065202	Soil	7	92	1.22	263	0.138	<1	2.66	0.013	0.48	0.2	0.03	7.1	0.3	<0.05	9	<0.5	<0.2
1065203	Soil	5	75	1.06	198	0.136	<1	2.24	0.012	0.49	0.1	0.02	6.0	0.2	<0.05	7	<0.5	<0.2
1065204	Soil	6	68	0.98	212	0.110	<1	2.08	0.012	0.43	0.1	0.03	5.3	0.2	0.05	7	<0.5	<0.2
1065206	Soil	10	188	1.78	362	0.184	<1	2.96	0.016	0.86	<0.1	0.02	7.7	0.4	<0.05	11	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1065205	Soil	0.7	39.0	4.1	50	0.1	42.1	14.1	321	3.07	16.2	0.5	3.0	1.5	22	<0.1	0.2	<0.1	85	0.28	0.070
1065207	Soil	0.6	58.7	4.0	83	0.1	75.7	23.7	337	4.09	18.9	1.0	3.0	4.1	50	<0.1	0.1	0.1	130	0.50	0.093
1065208	Soil	1.4	35.6	7.6	57	0.2	32.5	14.2	569	3.28	11.3	0.7	5.3	0.5	31	0.1	0.4	0.2	99	0.29	0.063
1065209	Soil	0.9	64.1	5.8	73	0.1	73.9	23.1	412	3.88	18.8	0.6	2.7	1.9	32	<0.1	0.3	0.2	113	0.29	0.045
1065210	Soil	1.2	32.1	6.1	56	0.2	29.3	17.1	867	2.86	8.2	0.5	3.3	0.4	35	0.2	0.4	0.2	80	0.43	0.066
1094435	Soil	1.2	76.4	6.8	87	0.1	69.6	29.0	522	4.76	22.3	0.9	4.4	1.2	41	<0.1	0.2	0.2	138	0.28	0.083
1094436	Soil	0.5	45.0	3.4	55	0.1	40.2	14.8	325	3.24	10.0	0.4	1.9	1.7	23	<0.1	0.1	0.1	97	0.30	0.107
1094439	Soil	0.8	61.6	5.6	68	0.1	56.1	22.9	680	4.08	18.0	0.7	2.4	1.1	40	<0.1	0.1	0.2	112	0.31	0.076
1094433	Soil	1.5	75.1	9.3	79	<0.1	58.1	22.5	562	4.70	18.7	0.6	3.7	1.2	24	0.1	0.6	0.3	121	0.21	0.061
1094432	Soil	1.6	99.8	10.7	81	0.2	75.6	25.2	478	5.51	38.6	1.0	5.4	1.5	42	0.1	0.6	0.3	123	0.24	0.084
1094431	Soil	0.8	111.2	6.0	66	0.1	93.2	31.6	533	4.23	26.7	0.5	4.4	1.5	35	0.3	0.2	0.2	119	0.34	0.116
1094430	Soil	1.8	143.4	13.8	80	0.3	106.7	42.8	819	5.55	62.4	1.2	5.9	1.3	61	0.3	0.4	0.4	145	0.36	0.124
1070194	Soil	0.8	68.2	6.1	54	<0.1	58.2	19.1	405	3.85	32.9	0.7	5.8	1.3	29	<0.1	0.3	0.2	109	0.23	0.079
1070195	Soil	0.9	73.6	6.5	55	0.1	60.9	19.2	376	3.75	35.0	0.6	8.6	1.4	29	0.1	0.2	0.2	106	0.21	0.074
1094429	Soil	0.8	81.7	6.5	65	<0.1	75.4	25.4	479	3.81	35.9	0.6	7.3	1.4	23	0.2	0.3	0.1	98	0.18	0.075
1094428	Soil	1.1	74.8	7.6	68	0.1	69.4	24.7	532	4.34	37.0	0.7	3.1	1.1	35	0.1	0.3	0.2	119	0.25	0.080
1094427	Soil	1.1	80.1	6.3	65	0.1	49.8	16.5	372	3.63	25.0	0.6	2.4	1.3	31	0.1	0.4	0.2	92	0.34	0.095
1070484	Soil	1.2	44.6	6.9	63	<0.1	46.5	15.0	325	3.58	22.6	0.4	27.7	1.4	18	0.1	0.3	0.1	110	0.22	0.059
1070494	Soil	1.0	55.0	5.3	89	0.1	50.5	16.8	364	4.01	17.1	0.4	5.4	1.2	19	0.1	0.2	0.2	126	0.24	0.075
1070481	Soil	1.2	75.7	8.4	92	<0.1	66.7	23.4	480	4.26	66.6	0.4	2.9	1.2	24	0.1	0.6	0.2	113	0.31	0.081
1070491	Soil	0.7	50.3	3.8	81	<0.1	51.1	19.7	441	3.70	8.6	0.4	2.9	1.0	19	<0.1	0.1	0.1	121	0.28	0.112
1070493	Soil	0.7	44.6	3.9	69	<0.1	40.2	15.3	384	3.34	7.5	0.4	2.1	1.1	16	<0.1	0.1	0.1	105	0.24	0.091
1070497	Soil	1.0	42.2	5.4	83	0.1	39.1	17.3	549	3.15	8.2	0.4	1.7	0.7	27	0.7	0.2	0.1	95	0.35	0.080
1070495	Soil	1.0	54.4	5.5	85	0.1	47.9	16.4	391	4.00	16.8	0.5	1.2	1.2	21	0.1	0.2	0.2	124	0.23	0.079
1070480	Soil	1.2	37.5	8.2	85	0.1	35.0	15.2	641	3.55	14.6	0.4	2.8	0.8	31	0.1	0.5	0.2	98	0.35	0.059
1070483	Soil	0.9	50.8	5.7	75	<0.1	52.4	20.3	464	3.75	13.0	0.4	4.0	1.9	25	0.2	0.3	0.2	103	0.33	0.082
1070490	Soil	0.8	52.8	4.4	77	<0.1	50.6	17.9	418	3.37	11.3	0.4	2.2	1.2	21	0.2	0.2	0.1	110	0.31	0.105
1070496	Soil	1.1	44.5	7.4	77	0.1	38.8	18.8	627	3.68	16.4	0.5	1.2	0.6	25	0.1	0.3	0.2	107	0.24	0.070
1070488	Soil	0.8	59.2	4.4	88	<0.1	53.6	18.9	416	3.87	10.4	0.5	1.3	1.2	23	0.1	0.2	0.1	122	0.31	0.097
1070472	Soil	1.1	32.5	7.4	64	<0.1	31.1	10.4	281	3.43	11.8	0.4	0.5	1.0	20	0.2	0.4	0.2	98	0.20	0.052



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1065205	Soil	7	71	1.00	180	0.113	<1	2.02	0.013	0.43	0.3	0.01	5.1	0.2	<0.05	6	<0.5	<0.2
1065207	Soil	11	186	1.97	458	0.219	<1	2.86	0.022	0.85	<0.1	<0.01	6.1	0.3	<0.05	11	<0.5	<0.2
1065208	Soil	6	67	0.84	171	0.098	2	1.94	0.011	0.26	0.4	0.06	3.9	0.2	0.09	7	0.5	<0.2
1065209	Soil	7	97	1.28	285	0.153	2	2.71	0.016	0.57	0.2	<0.01	8.1	0.2	0.06	8	<0.5	<0.2
1065210	Soil	5	50	0.72	199	0.084	3	1.50	0.013	0.30	0.1	0.06	3.4	0.2	0.11	6	<0.5	<0.2
1094435	Soil	10	104	1.46	371	0.144	1	3.49	0.015	0.51	0.2	0.02	8.2	0.3	0.11	11	0.8	0.2
1094436	Soil	6	64	1.01	208	0.137	<1	2.18	0.011	0.48	<0.1	0.01	6.2	0.3	<0.05	7	0.9	<0.2
1094439	Soil	7	80	1.22	330	0.133	<1	3.15	0.012	0.53	<0.1	0.02	6.6	0.3	0.09	9	<0.5	<0.2
1094433	Soil	8	75	1.15	147	0.155	<1	3.00	0.010	0.19	0.2	0.09	7.0	0.2	0.06	9	<0.5	<0.2
1094432	Soil	10	83	1.29	255	0.145	1	3.52	0.015	0.35	0.1	0.05	8.4	0.3	0.07	10	0.9	<0.2
1094431	Soil	6	77	1.11	251	0.139	2	2.55	0.011	0.55	0.1	0.01	6.9	0.3	0.06	8	0.6	<0.2
1094430	Soil	12	89	1.26	396	0.114	2	4.38	0.017	0.47	0.1	0.06	6.7	0.4	0.13	11	<0.5	<0.2
1070194	Soil	7	67	1.04	195	0.131	1	2.71	0.011	0.39	<0.1	0.01	5.9	0.2	<0.05	8	<0.5	<0.2
1070195	Soil	8	67	1.06	214	0.122	<1	2.95	0.012	0.40	0.1	0.02	5.8	0.3	<0.05	8	<0.5	<0.2
1094429	Soil	7	65	1.06	200	0.123	<1	2.71	0.010	0.31	0.1	<0.01	5.7	0.3	<0.05	8	<0.5	<0.2
1094428	Soil	7	75	1.14	266	0.127	2	3.22	0.013	0.50	0.1	0.02	6.1	0.3	0.07	9	<0.5	<0.2
1094427	Soil	7	60	0.97	138	0.113	1	2.03	0.020	0.24	0.1	0.03	4.8	0.2	0.06	6	<0.5	<0.2
1070484	Soil	5	72	0.90	191	0.174	2	2.17	0.011	0.39	0.2	0.02	5.8	0.2	<0.05	8	<0.5	<0.2
1070494	Soil	5	86	1.23	332	0.208	<1	2.81	0.017	0.72	0.2	0.02	7.9	0.3	<0.05	9	0.6	<0.2
1070481	Soil	5	79	1.11	322	0.181	1	2.82	0.015	0.55	0.2	0.02	7.4	0.3	0.07	9	<0.5	<0.2
1070491	Soil	4	92	1.24	378	0.217	<1	2.63	0.018	0.82	0.2	<0.01	8.0	0.3	<0.05	9	<0.5	<0.2
1070493	Soil	4	69	0.99	327	0.190	<1	2.38	0.015	0.77	0.1	<0.01	6.8	0.3	<0.05	8	<0.5	<0.2
1070497	Soil	5	67	0.95	210	0.137	1	1.96	0.016	0.39	0.1	0.03	5.6	0.2	0.11	7	<0.5	<0.2
1070495	Soil	5	85	1.22	329	0.203	1	2.88	0.018	0.69	0.2	0.02	7.5	0.3	0.06	10	<0.5	<0.2
1070480	Soil	6	60	0.92	187	0.136	1	2.27	0.010	0.28	0.2	0.02	4.8	0.2	0.06	8	<0.5	<0.2
1070483	Soil	7	74	1.08	233	0.174	2	2.59	0.016	0.45	0.2	<0.01	6.1	0.3	<0.05	8	<0.5	<0.2
1070490	Soil	6	77	1.08	265	0.172	<1	2.31	0.015	0.62	0.2	0.03	6.6	0.3	<0.05	8	<0.5	<0.2
1070496	Soil	6	65	0.97	211	0.132	1	2.55	0.013	0.26	0.1	0.02	5.3	0.2	0.06	9	<0.5	<0.2
1070488	Soil	5	96	1.26	354	0.207	<1	2.59	0.020	0.81	0.1	0.01	8.1	0.3	0.06	9	0.5	<0.2
1070472	Soil	6	52	0.80	123	0.154	<1	1.91	0.012	0.26	0.2	0.02	4.1	0.2	0.06	8	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070473	Soil	1.1	35.4	7.1	65	<0.1	33.9	11.0	323	3.26	11.0	0.5	1.2	1.1	18	<0.1	0.4	0.2	95	0.15	0.049
1070477	Soil	0.8	42.2	5.6	68	0.2	37.3	12.6	349	3.34	12.1	0.4	4.0	0.8	17	<0.1	0.3	0.1	90	0.19	0.045
1070489	Soil	0.9	48.0	5.1	73	<0.1	43.6	17.5	462	3.21	12.3	0.4	2.8	0.9	22	0.2	0.2	0.1	91	0.23	0.081
1070492	Soil	1.1	48.5	6.5	87	<0.1	48.9	19.6	487	4.07	10.2	0.5	<0.5	0.9	23	<0.1	0.2	0.2	125	0.24	0.067
1070479	Soil	1.0	41.0	6.9	83	<0.1	41.9	15.4	410	3.85	12.0	0.4	1.0	1.0	22	0.1	0.4	0.1	95	0.26	0.068
1070482	Soil	1.2	40.7	6.5	67	<0.1	40.0	15.3	350	3.45	11.9	0.4	0.9	1.4	26	<0.1	0.5	0.1	88	0.27	0.065
1070470	Soil	0.7	42.5	5.6	62	0.1	42.4	14.9	428	2.77	9.6	0.4	2.3	0.7	40	<0.1	0.4	0.1	74	0.28	0.079
1070469	Soil	0.6	61.0	3.7	109	<0.1	83.5	23.1	665	4.79	11.6	0.4	1.0	1.0	22	<0.1	0.2	0.1	148	0.24	0.076
1070471	Soil	1.3	57.4	7.2	82	0.1	51.6	20.1	587	3.81	21.4	0.6	41.0	0.9	33	0.1	0.4	0.1	98	0.29	0.088
1070487	Soil	1.2	44.6	6.6	75	0.1	38.7	13.9	381	3.50	11.6	0.6	3.9	1.0	24	<0.1	0.4	0.1	107	0.27	0.065
1070467	Soil	0.9	63.7	4.7	87	0.1	56.9	18.0	453	3.73	8.2	0.5	2.4	1.7	43	<0.1	0.2	0.1	108	0.41	0.110
1070474	Soil	1.2	37.7	7.3	71	0.2	33.5	13.3	519	3.65	11.3	0.5	2.3	0.9	20	0.1	0.4	0.1	100	0.17	0.043
1070475	Soil	0.9	54.5	7.1	73	<0.1	46.5	16.4	428	3.85	14.7	0.4	<0.5	1.3	23	0.2	0.3	0.1	97	0.31	0.094
1070485	Soil	1.0	43.1	7.0	67	<0.1	38.5	13.0	337	3.59	17.5	0.4	2.5	1.6	20	<0.1	0.3	0.1	99	0.25	0.071
1070468	Soil	1.1	70.8	5.5	82	<0.1	62.4	21.2	509	4.11	9.1	0.5	1.4	1.3	28	0.1	0.3	0.1	107	0.30	0.078
1070478	Soil	0.8	56.0	7.1	91	<0.1	50.1	17.9	439	3.96	25.3	0.4	2.8	1.0	23	0.1	0.3	0.2	106	0.30	0.072
1070476	Soil	1.3	39.2	6.5	52	<0.1	28.1	10.0	246	2.79	11.3	0.4	4.1	1.1	18	0.1	0.4	0.2	92	0.18	0.049
1070486	Soil	1.2	43.2	5.9	65	0.1	37.0	14.3	331	3.27	10.7	0.5	7.2	0.8	20	<0.1	0.3	0.2	104	0.21	0.060
1056856	Soil	0.6	30.5	5.1	69	<0.1	36.6	10.7	278	2.76	10.2	0.4	5.1	1.1	18	<0.1	0.2	0.2	96	0.20	0.059
1056858	Soil	0.8	30.8	5.7	80	0.1	34.2	12.0	378	3.13	38.6	0.4	9.7	0.6	19	<0.1	0.2	0.3	101	0.19	0.059
1056854	Soil	0.5	28.7	4.8	61	<0.1	32.7	10.1	240	2.47	5.4	0.4	4.5	1.1	16	<0.1	0.2	0.2	84	0.23	0.081
1056857	Soil	0.6	29.5	5.5	62	<0.1	33.0	11.0	272	2.52	5.9	0.5	5.8	1.1	16	<0.1	0.2	0.2	87	0.22	0.076
1056860	Soil	0.4	27.5	5.9	62	<0.1	32.8	10.8	273	2.51	6.4	0.5	11.1	1.3	18	0.1	0.2	0.2	87	0.27	0.089
1056863	Soil	0.5	38.5	7.2	76	0.2	40.4	12.5	332	2.81	12.0	0.5	9.6	0.8	20	<0.1	0.2	0.3	104	0.22	0.066
1056861	Soil	0.5	28.5	4.8	57	<0.1	30.0	10.3	249	2.26	6.6	0.4	5.9	1.2	16	<0.1	0.2	0.2	79	0.28	0.108
1056867	Soil	0.7	35.5	4.6	67	0.2	34.1	11.1	349	3.21	22.9	0.4	4.1	0.6	24	<0.1	0.2	0.2	99	0.20	0.069
1056866	Soil	1.0	43.8	6.6	88	0.2	41.8	15.8	462	3.77	58.1	0.4	113.1	1.0	19	0.2	0.3	0.2	109	0.14	0.056
1056862	Soil	0.6	25.4	5.8	61	0.1	34.6	10.8	278	2.64	13.1	0.5	8.6	1.1	16	<0.1	0.2	0.2	99	0.19	0.068
1056859	Soil	0.5	26.3	6.3	60	<0.1	30.5	12.0	333	2.63	9.9	0.5	11.3	0.8	16	<0.1	0.2	0.2	84	0.21	0.075
1056865	Soil	1.0	31.3	6.4	75	<0.1	30.9	11.3	569	3.09	38.4	0.5	5.7	0.3	22	0.2	0.2	0.2	93	0.18	0.078



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070473	Soil	6	62	0.84	145	0.142	2	2.18	0.010	0.30	0.2	0.03	5.0	0.2	<0.05	8	<0.5	<0.2
1070477	Soil	6	58	0.95	118	0.130	<1	2.22	0.010	0.25	0.2	0.02	4.6	0.1	<0.05	7	0.6	<0.2
1070489	Soil	5	61	0.87	225	0.137	<1	2.13	0.012	0.40	0.1	0.02	4.9	0.2	0.05	7	0.6	<0.2
1070492	Soil	6	86	1.18	250	0.192	<1	2.81	0.013	0.49	0.2	0.01	6.7	0.2	0.08	10	0.7	<0.2
1070479	Soil	6	62	0.97	188	0.142	<1	2.42	0.011	0.31	0.1	0.02	5.2	0.2	0.05	8	<0.5	<0.2
1070482	Soil	7	59	0.92	140	0.136	1	2.21	0.011	0.19	0.1	0.02	4.6	0.1	<0.05	7	<0.5	<0.2
1070470	Soil	6	63	0.93	156	0.103	<1	1.88	0.020	0.22	0.2	0.03	3.8	0.1	0.08	6	<0.5	<0.2
1070469	Soil	4	155	1.91	329	0.246	<1	3.54	0.013	1.03	0.2	<0.01	11.1	0.4	<0.05	11	<0.5	<0.2
1070471	Soil	7	71	1.05	206	0.129	1	2.52	0.017	0.27	0.2	0.03	4.9	0.2	0.11	8	0.6	<0.2
1070487	Soil	7	74	1.02	240	0.158	2	2.45	0.014	0.40	0.1	0.03	5.7	0.2	0.08	9	<0.5	<0.2
1070467	Soil	7	76	1.24	273	0.202	<1	2.78	0.018	0.71	39.8	<0.01	7.8	0.3	<0.05	9	<0.5	<0.2
1070474	Soil	6	60	0.90	148	0.146	1	2.23	0.012	0.33	<0.1	0.02	4.8	0.2	0.06	8	<0.5	<0.2
1070475	Soil	6	64	1.02	181	0.173	<1	2.43	0.013	0.43	0.3	0.01	5.9	0.2	0.05	8	<0.5	<0.2
1070485	Soil	6	66	1.00	175	0.178	1	2.32	0.012	0.34	0.2	0.01	5.6	0.2	<0.05	8	<0.5	<0.2
1070468	Soil	7	75	1.16	258	0.177	2	2.70	0.015	0.47	0.4	<0.01	6.6	0.3	0.09	8	0.5	<0.2
1070478	Soil	6	72	1.13	209	0.169	1	2.62	0.012	0.38	0.2	0.05	6.2	0.2	0.05	9	<0.5	<0.2
1070476	Soil	5	43	0.66	95	0.138	<1	1.39	0.007	0.18	0.1	0.01	3.5	0.1	0.09	7	<0.5	<0.2
1070486	Soil	6	73	0.91	217	0.153	<1	2.16	0.011	0.35	0.1	0.02	5.8	0.2	0.11	7	<0.5	<0.2
1056856	Soil	5	64	0.88	209	0.189	<1	2.52	0.010	0.49	0.2	0.01	6.3	0.2	<0.05	8	<0.5	<0.2
1056858	Soil	4	68	0.92	247	0.180	<1	2.63	0.009	0.47	0.3	0.02	7.0	0.2	0.06	9	<0.5	<0.2
1056854	Soil	5	58	0.81	171	0.166	<1	2.35	0.009	0.37	0.2	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1056857	Soil	6	62	0.84	180	0.174	1	2.51	0.009	0.40	0.1	0.03	6.0	0.2	<0.05	7	0.8	<0.2
1056860	Soil	6	62	0.85	196	0.179	<1	2.46	0.010	0.44	0.2	0.01	6.1	0.2	<0.05	7	0.6	<0.2
1056863	Soil	5	73	1.04	244	0.210	<1	3.01	0.009	0.48	0.2	0.01	7.7	0.3	<0.05	9	<0.5	<0.2
1056861	Soil	5	56	0.78	186	0.180	<1	2.12	0.009	0.42	0.1	0.01	5.6	0.2	<0.05	6	0.5	<0.2
1056867	Soil	4	63	0.85	195	0.179	<1	2.25	0.010	0.44	0.2	0.02	6.0	0.2	<0.05	7	0.7	<0.2
1056866	Soil	5	69	1.01	219	0.208	<1	2.78	0.011	0.57	0.2	0.02	7.4	0.3	<0.05	9	0.6	<0.2
1056862	Soil	5	62	0.95	203	0.184	<1	2.58	0.009	0.42	0.3	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
1056859	Soil	6	60	0.84	185	0.166	<1	2.53	0.009	0.37	0.2	0.03	6.0	0.2	0.06	7	<0.5	<0.2
1056865	Soil	5	58	0.82	194	0.125	<1	2.16	0.008	0.34	0.1	0.01	4.3	0.2	0.06	7	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1056855	Soil	0.6	28.1	5.6	64	<0.1	33.4	10.3	261	2.79	7.3	0.5	3.4	0.9	16	<0.1	0.2	0.2	88	0.18
1085396	Soil	0.5	32.7	4.0	65	<0.1	32.5	12.8	410	2.85	8.1	0.5	2.3	1.5	16	<0.1	0.1	0.1	90	0.24
1085394	Soil	0.4	37.1	4.5	74	<0.1	38.9	13.4	330	3.02	6.2	0.6	2.3	1.6	19	<0.1	0.1	0.2	91	0.26
1056853	Soil	0.4	29.6	3.8	59	<0.1	31.1	9.7	240	2.52	5.4	0.5	2.1	1.5	17	<0.1	0.2	0.1	80	0.27
1056852	Soil	0.4	30.5	4.3	63	<0.1	31.5	11.0	258	2.80	3.9	0.5	3.8	1.4	13	<0.1	0.1	0.1	87	0.24
1085398	Soil	0.9	34.0	5.8	91	<0.1	35.9	15.5	713	3.16	9.1	0.6	4.2	1.0	22	0.2	0.2	0.2	98	0.24
1085397	Soil	0.7	25.2	4.2	66	<0.1	26.5	14.0	887	2.55	5.4	0.4	2.3	0.5	23	0.2	0.1	0.1	76	0.21
1085399	Soil	0.6	29.0	4.9	64	<0.1	32.7	10.4	262	2.81	7.1	0.5	2.5	1.5	15	0.1	0.2	0.1	85	0.24
1056851	Soil	0.5	31.6	5.3	62	<0.1	35.0	11.5	298	2.94	7.7	0.5	4.3	1.4	17	0.1	0.2	0.1	90	0.23
1085393	Soil	0.5	30.6	4.5	68	<0.1	34.2	10.9	295	3.09	10.3	0.4	3.6	1.3	16	<0.1	0.2	0.1	97	0.22
1085400	Soil	0.6	32.5	5.1	71	<0.1	36.1	11.7	284	3.15	7.4	0.5	3.2	1.5	17	<0.1	0.2	0.2	98	0.27
1085395	Soil	0.5	33.7	5.3	67	0.1	37.2	10.7	293	2.56	4.2	0.5	3.0	1.1	19	<0.1	0.2	0.2	94	0.24
1085392	Soil	0.7	38.9	4.6	71	<0.1	37.9	14.3	475	3.22	9.6	0.6	6.0	1.6	20	0.2	0.2	0.1	100	0.32
1056873	Soil	0.8	46.9	6.2	88	<0.1	47.2	20.0	633	4.35	33.9	0.3	1.8	0.8	18	0.1	0.1	0.2	137	0.21
1056871	Soil	1.0	44.5	7.6	86	<0.1	43.6	20.9	709	3.82	87.9	0.4	33.4	1.1	21	0.1	0.3	0.2	105	0.19
1076630	Soil	0.8	53.7	4.8	85	0.2	51.1	18.8	418	3.94	90.6	0.4	29.3	1.6	27	0.1	0.2	0.2	119	0.34
1076635	Soil	0.6	29.3	3.6	71	<0.1	36.2	14.7	334	2.95	34.9	0.4	4.7	1.5	24	<0.1	0.2	0.1	88	0.30
1076628	Soil	1.0	49.7	5.2	85	0.2	47.4	17.2	371	3.88	122.3	0.5	17.0	1.7	29	0.2	0.3	0.2	117	0.32
1076633	Soil	1.1	45.2	6.0	77	0.3	44.5	21.6	521	3.59	51.7	0.6	13.3	1.0	30	0.1	0.2	0.2	107	0.35
1076631	Soil	0.6	41.3	3.3	78	0.1	42.0	16.1	382	3.51	47.4	0.4	37.6	1.4	23	<0.1	0.1	0.1	109	0.33
1076627	Soil	1.4	52.0	7.1	88	0.4	48.2	19.4	414	4.23	87.6	0.5	10.3	1.3	24	<0.1	0.3	0.2	122	0.23
1076626	Soil	1.1	45.9	5.0	79	0.3	45.1	22.9	516	3.68	72.0	0.5	12.6	1.4	26	<0.1	0.2	0.2	111	0.30
1056869	Soil	0.8	40.2	5.5	81	<0.1	39.1	16.1	556	3.58	55.8	0.4	16.7	1.1	26	0.1	0.3	0.2	96	0.29
1056872	Soil	0.9	31.8	6.0	74	0.1	30.6	9.9	317	3.22	36.5	0.4	3.6	0.9	26	0.2	0.3	0.2	89	0.19
1056870	Soil	0.9	47.6	7.8	94	<0.1	45.2	21.0	755	4.11	103.7	0.4	51.9	1.0	26	0.2	0.3	0.3	113	0.22
1084650	Soil	0.9	33.6	6.3	60	<0.1	33.6	12.4	362	3.39	22.1	0.5	3.6	1.4	18	<0.1	0.3	0.2	86	0.15
1056864	Soil	0.6	32.1	5.8	77	<0.1	37.5	11.8	333	3.26	30.2	0.4	33.0	1.4	21	<0.1	0.3	0.2	98	0.25
1056874	Soil	0.7	38.6	5.0	85	0.1	38.2	15.1	487	3.77	47.4	0.4	11.6	1.4	29	0.2	0.3	0.2	102	0.33
1084649	Soil	1.1	50.4	8.2	99	0.2	46.8	18.7	666	4.41	120.8	0.6	6.9	1.1	33	0.3	0.4	0.3	110	0.27
1056868	Soil	1.0	40.6	6.6	77	0.2	37.5	14.6	563	3.66	46.8	0.5	6.0	0.7	35	0.1	0.4	0.2	102	0.30



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1056855	Soil	6	62	0.81	184	0.161	<1	2.44	0.009	0.37	0.2	0.01	5.7	0.2	<0.05	7	<0.5
1085396	Soil	6	60	0.75	188	0.180	<1	2.15	0.010	0.43	0.2	<0.01	6.0	0.2	<0.05	6	<0.5
1085394	Soil	7	65	0.86	205	0.183	<1	2.66	0.011	0.44	0.1	0.01	7.0	0.2	<0.05	7	<0.5
1056853	Soil	6	54	0.73	155	0.169	<1	2.16	0.010	0.34	0.1	<0.01	5.3	0.2	<0.05	6	<0.5
1056852	Soil	6	59	0.74	192	0.185	<1	2.35	0.010	0.42	0.1	0.01	5.9	0.2	<0.05	7	<0.5
1085398	Soil	6	63	0.79	243	0.176	<1	2.49	0.011	0.42	0.2	0.02	6.5	0.2	<0.05	7	<0.5
1085397	Soil	5	47	0.62	178	0.125	<1	1.95	0.011	0.27	<0.1	0.03	4.1	0.1	<0.05	6	<0.5
1085399	Soil	6	58	0.77	173	0.175	<1	2.39	0.009	0.43	0.2	0.01	5.9	0.2	<0.05	7	<0.5
1056851	Soil	6	59	0.80	171	0.172	<1	2.48	0.010	0.39	0.2	0.01	5.7	0.2	<0.05	7	<0.5
1085393	Soil	5	66	0.82	187	0.190	<1	2.45	0.010	0.42	0.2	0.02	6.3	0.2	<0.05	7	<0.5
1085400	Soil	7	65	0.85	191	0.193	<1	2.71	0.010	0.45	0.2	0.02	6.5	0.3	<0.05	8	<0.5
1085395	Soil	6	67	0.86	205	0.201	<1	2.67	0.013	0.46	0.1	0.02	6.8	0.2	<0.05	7	<0.5
1085392	Soil	7	65	0.84	198	0.195	<1	2.49	0.012	0.46	0.2	0.01	6.6	0.2	<0.05	7	<0.5
1056873	Soil	3	102	1.17	303	0.241	<1	3.08	0.012	0.86	0.1	<0.01	9.2	0.3	<0.05	10	<0.5
1056871	Soil	4	73	0.97	278	0.188	<1	2.47	0.011	0.76	0.2	<0.01	7.4	0.3	<0.05	8	<0.5
1076630	Soil	6	79	1.27	310	0.198	<1	2.85	0.014	0.86	0.4	<0.01	8.5	0.3	<0.05	9	<0.5
1076635	Soil	6	66	1.06	267	0.165	<1	2.28	0.012	0.62	0.2	<0.01	6.5	0.2	<0.05	8	<0.5
1076628	Soil	6	80	1.27	292	0.187	<1	2.76	0.014	0.76	0.4	0.02	7.8	0.3	<0.05	10	<0.5
1076633	Soil	6	77	1.12	272	0.162	<1	2.59	0.013	0.50	0.2	0.04	6.7	0.2	<0.05	9	<0.5
1076631	Soil	5	73	1.16	328	0.185	<1	2.46	0.014	0.88	0.3	<0.01	8.1	0.3	<0.05	8	<0.5
1076627	Soil	6	79	1.20	231	0.190	<1	2.83	0.011	0.64	0.2	0.03	7.5	0.3	<0.05	10	<0.5
1076626	Soil	6	76	1.21	280	0.158	<1	2.61	0.013	0.71	0.3	0.02	7.3	0.3	<0.05	9	<0.5
1056869	Soil	4	64	0.90	231	0.184	<1	2.27	0.012	0.61	0.3	0.01	6.8	0.2	<0.05	8	<0.5
1056872	Soil	5	58	0.81	143	0.141	<1	1.91	0.010	0.39	0.2	0.02	5.0	0.2	<0.05	7	<0.5
1056870	Soil	4	80	1.03	331	0.210	<1	2.62	0.015	0.87	0.2	<0.01	8.2	0.3	<0.05	9	<0.5
1084650	Soil	6	54	0.85	126	0.149	<1	2.32	0.010	0.33	0.2	0.03	5.0	0.2	<0.05	7	<0.5
1056864	Soil	5	68	0.98	235	0.207	<1	2.69	0.011	0.57	0.2	0.01	7.3	0.3	<0.05	8	<0.5
1056874	Soil	6	70	0.98	248	0.200	<1	2.40	0.015	0.65	0.2	0.02	7.1	0.2	<0.05	8	<0.5
1084649	Soil	6	77	1.13	242	0.145	<1	2.93	0.014	0.54	0.2	0.03	6.5	0.2	<0.05	9	<0.5
1056868	Soil	5	70	1.00	238	0.142	<1	2.48	0.013	0.47	0.2	0.03	6.2	0.2	<0.05	8	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
1076634	Soil	1.3	54.4	6.9	91	0.4	49.3	21.1	618	4.17	76.3	0.6	12.1	1.1	34	<0.1	0.3	0.2	123	0.33	0.095
1076637	Soil	0.9	47.3	6.0	85	0.4	47.5	19.8	461	4.10	63.3	0.7	8.0	1.8	34	<0.1	0.2	0.2	115	0.34	0.101
1076629	Soil	0.8	49.5	4.3	77	0.3	45.9	16.9	418	4.04	98.0	0.4	50.0	1.5	27	0.1	0.2	0.2	116	0.31	0.104
1076636	Soil	0.9	43.5	5.2	83	0.3	45.6	20.1	486	3.97	64.1	0.6	8.2	1.7	34	<0.1	0.2	0.2	110	0.37	0.109
1076632	Soil	0.8	48.0	4.4	80	0.2	48.0	16.9	468	4.13	78.1	0.3	58.4	1.2	31	0.1	0.2	0.2	127	0.36	0.130
1076644	Soil	0.8	48.2	4.9	92	0.2	43.4	16.9	415	3.91	64.3	0.6	5.9	1.6	34	0.1	0.2	0.2	115	0.36	0.078
1076646	Soil	1.5	70.4	7.1	88	0.6	53.7	29.1	783	4.08	106.2	1.1	10.4	1.6	71	<0.1	0.3	0.2	106	0.65	0.121
1076643	Soil	0.7	29.9	4.1	82	0.1	38.6	13.3	333	3.51	43.3	0.4	154.3	1.6	31	<0.1	0.2	0.1	106	0.33	0.080
1076642	Soil	1.0	47.4	4.8	76	0.3	41.7	18.1	523	3.51	55.4	0.6	7.8	1.3	47	<0.1	0.2	0.2	103	0.50	0.108
1076638	Soil	0.9	45.6	4.6	86	0.3	44.1	17.2	417	3.77	60.7	0.5	7.1	1.6	32	<0.1	0.2	0.2	111	0.37	0.097
1076640	Soil	0.9	52.8	4.7	81	0.3	46.2	17.9	462	3.75	60.5	0.7	11.0	1.5	36	<0.1	0.2	0.2	112	0.40	0.099
1076647	Soil	0.8	31.5	4.6	73	<0.1	36.8	13.3	355	3.29	67.9	0.5	12.7	1.6	59	<0.1	0.2	0.2	94	0.45	0.116
1076645	Soil	1.0	30.7	5.5	91	0.2	35.2	15.5	416	3.56	63.7	0.4	7.3	1.5	45	0.1	0.3	0.2	101	0.45	0.080
1076641	Soil	0.8	41.4	4.2	75	0.1	42.3	14.6	374	3.60	53.4	0.4	13.8	1.5	32	<0.1	0.2	0.2	108	0.36	0.103
1076639	Soil	0.9	47.1	4.8	82	0.3	44.8	18.6	444	3.79	57.3	0.6	54.0	1.5	35	<0.1	0.2	0.2	108	0.40	0.107
1076624	Soil	1.0	72.6	6.7	97	0.2	67.5	23.0	588	4.80	252.2	0.5	42.4	1.6	43	0.1	0.4	0.3	138	0.40	0.099
1076995	Soil	1.7	51.4	8.1	97	0.3	55.3	30.2	846	4.97	144.0	0.6	4.6	1.8	35	<0.1	0.3	0.3	146	0.35	0.070
1076996	Soil	1.2	41.4	5.2	94	0.1	46.5	18.1	486	4.10	66.3	0.5	3.8	2.0	31	0.2	0.3	0.2	126	0.34	0.065
1076991	Soil	0.8	38.1	4.4	78	<0.1	46.1	16.9	368	3.88	74.3	0.4	4.6	2.1	26	<0.1	0.2	0.2	107	0.23	0.047
1076993	Soil	0.8	50.2	4.2	80	0.2	49.2	18.3	398	3.87	80.1	0.7	6.4	1.8	28	<0.1	0.2	0.2	112	0.34	0.098
1076998	Soil	1.0	61.4	5.8	98	0.4	63.9	24.1	483	4.78	97.6	0.6	14.7	1.8	32	<0.1	0.2	0.2	140	0.32	0.092
1076625	Soil	1.2	76.2	6.4	99	0.4	70.9	28.4	623	4.90	248.4	0.7	40.1	1.6	42	0.1	0.4	0.3	139	0.40	0.096
1076997	Soil	0.9	43.8	4.9	81	0.4	49.6	22.6	544	4.05	42.6	0.6	5.6	1.4	35	<0.1	0.2	0.2	119	0.41	0.082
1076999	Soil	1.3	80.3	5.7	76	0.6	67.2	17.5	414	4.15	102.7	0.6	22.5	1.3	35	0.1	0.3	0.3	117	0.34	0.099
1076992	Soil	1.0	53.2	6.3	73	<0.1	52.9	18.8	455	4.21	71.0	0.5	30.5	1.5	30	<0.1	0.3	0.2	126	0.34	0.096
1076994	Soil	0.5	30.8	4.7	85	0.1	42.0	15.5	354	3.43	35.4	0.6	11.0	1.8	32	0.1	0.2	0.2	99	0.42	0.081
1077000	Soil	1.0	95.7	4.6	100	0.3	70.5	21.8	486	4.82	155.6	0.7	22.0	1.6	54	<0.1	0.3	0.2	147	0.48	0.088



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076634	Soil	7	85	1.26	311	0.170	<1	3.08	0.014	0.54	0.3	0.03	7.7	0.3	<0.05	11	<0.5	<0.2
1076637	Soil	8	86	1.28	309	0.181	<1	2.98	0.017	0.63	0.3	0.04	8.2	0.3	<0.05	10	<0.5	<0.2
1076629	Soil	5	77	1.22	332	0.184	<1	2.60	0.019	0.88	0.4	0.02	8.3	0.3	<0.05	9	<0.5	<0.2
1076636	Soil	7	82	1.26	300	0.176	<1	2.79	0.018	0.65	0.3	0.03	7.6	0.3	<0.05	9	<0.5	<0.2
1076632	Soil	5	85	1.28	392	0.213	<1	2.84	0.020	1.03	0.3	0.01	9.0	0.3	<0.05	10	<0.5	<0.2
1076644	Soil	7	85	1.28	346	0.179	<1	2.74	0.017	0.68	0.3	0.01	8.5	0.3	<0.05	10	<0.5	<0.2
1076646	Soil	10	74	1.12	517	0.150	1	3.18	0.028	0.49	0.3	0.06	6.8	0.2	<0.05	9	0.6	<0.2
1076643	Soil	6	81	1.26	331	0.187	<1	2.59	0.019	0.73	0.2	<0.01	7.7	0.2	<0.05	9	<0.5	<0.2
1076642	Soil	7	74	1.12	320	0.166	1	2.43	0.020	0.58	0.2	0.03	7.2	0.3	<0.05	8	<0.5	<0.2
1076638	Soil	6	80	1.25	296	0.173	<1	2.70	0.017	0.68	0.2	0.02	7.3	0.3	<0.05	9	<0.5	<0.2
1076640	Soil	6	79	1.23	305	0.172	1	2.67	0.017	0.67	0.2	0.02	7.6	0.3	<0.05	9	<0.5	<0.2
1076647	Soil	6	69	1.12	508	0.191	<1	2.52	0.024	0.57	0.2	0.01	5.8	0.2	<0.05	8	<0.5	<0.2
1076645	Soil	6	71	1.14	360	0.206	1	2.37	0.021	0.60	0.2	0.01	6.0	0.2	<0.05	8	<0.5	<0.2
1076641	Soil	6	73	1.19	296	0.184	<1	2.53	0.017	0.71	0.2	<0.01	7.6	0.3	<0.05	9	<0.5	<0.2
1076639	Soil	6	75	1.22	308	0.174	<1	2.74	0.017	0.68	0.2	0.03	7.8	0.3	<0.05	9	<0.5	<0.2
1076624	Soil	6	94	1.36	360	0.199	<1	3.25	0.022	0.90	0.6	0.02	9.3	0.3	<0.05	11	<0.5	<0.2
1076995	Soil	8	96	1.42	343	0.187	<1	3.13	0.017	0.75	0.3	0.03	8.0	0.4	<0.05	11	<0.5	<0.2
1076996	Soil	8	85	1.38	297	0.195	<1	2.71	0.017	0.73	0.4	0.02	8.2	0.3	<0.05	10	<0.5	<0.2
1076991	Soil	7	77	1.24	253	0.173	<1	2.73	0.018	0.69	0.5	<0.01	7.4	0.3	<0.05	8	<0.5	<0.2
1076993	Soil	7	78	1.21	293	0.163	<1	2.66	0.017	0.72	0.7	0.03	7.6	0.3	<0.05	9	<0.5	<0.2
1076998	Soil	6	101	1.47	333	0.209	<1	3.44	0.016	0.94	0.3	0.05	10.1	0.4	<0.05	11	<0.5	<0.2
1076625	Soil	8	91	1.44	397	0.203	<1	3.53	0.020	0.89	1.0	0.04	9.5	0.3	<0.05	11	<0.5	<0.2
1076997	Soil	7	85	1.29	305	0.183	<1	2.79	0.017	0.72	0.2	0.05	8.4	0.3	<0.05	10	<0.5	<0.2
1076999	Soil	6	72	1.01	275	0.158	<1	2.78	0.015	0.64	0.3	0.05	7.0	0.3	<0.05	9	<0.5	<0.2
1076992	Soil	6	83	1.17	301	0.191	<1	2.78	0.015	0.68	0.3	0.02	8.6	0.3	<0.05	10	<0.5	<0.2
1076994	Soil	7	79	1.25	278	0.169	<1	2.66	0.016	0.51	0.5	0.04	7.4	0.3	<0.05	9	<0.5	<0.2
1077000	Soil	7	89	1.43	385	0.250	<1	3.58	0.039	1.21	1.1	0.03	9.9	0.4	<0.05	12	0.6	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: SAP
Report Date: August 30, 2011

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QUALITY CONTROL REPORT

WHI11000958.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
1062012	Soil		0.8	55.8	5.1	87	0.1	59.4	21.5	446	3.79	21.7	0.5	3.6	1.1	29	0.2	0.4	0.2	124	0.29	0.086	
REP 1062012	QC		0.8	55.2	5.0	85	0.1	55.4	21.5	438	3.70	21.6	0.5	1.9	1.1	28	0.2	0.4	0.2	117	0.28	0.085	
1062027	Soil		1.7	75.8	6.8	75	0.2	60.3	21.2	509	4.37	15.2	0.6	3.2	1.2	33	<0.1	0.3	0.2	133	0.28	0.043	
REP 1062027	QC		1.7	76.3	6.7	78	0.2	60.6	21.3	504	4.37	15.1	0.6	2.8	1.2	33	0.1	0.3	0.2	131	0.26	0.042	
1094355	Soil		0.8	66.4	6.6	93	0.3	82.5	25.2	549	3.93	64.7	0.9	7.0	1.7	46	0.1	0.5	0.2	107	0.43	0.076	
REP 1094355	QC		0.8	68.5	6.6	96	0.2	87.2	25.7	575	4.16	67.0	0.9	4.0	1.7	51	0.1	0.4	0.2	107	0.43	0.081	
1094372	Soil		1.1	58.1	7.6	81	0.3	56.8	20.7	578	4.37	103.2	0.8	8.2	1.3	31	0.1	0.8	0.2	111	0.25	0.079	
REP 1094372	QC		1.1	59.1	7.8	86	0.3	62.0	21.8	600	4.69	107.4	0.8	9.2	1.4	33	0.2	0.9	0.2	117	0.26	0.078	
1070021	Soil		1.3	42.6	6.7	86	0.5	47.6	13.0	335	3.81	17.2	0.8	2.8	1.8	40	<0.1	0.3	0.2	88	0.37	0.094	
REP 1070021	QC		1.4	41.9	6.9	85	0.5	44.9	12.7	333	3.70	17.4	0.9	3.3	2.0	39	<0.1	0.2	0.2	86	0.36	0.096	
1075544	Soil		1.3	48.2	8.5	94	0.1	45.6	13.8	461	4.24	168.1	0.5	10.0	1.2	21	0.2	0.4	0.3	102	0.11	0.053	
REP 1075544	QC		1.3	46.3	8.5	96	0.1	44.1	14.1	468	4.26	167.7	0.5	7.3	1.2	21	0.1	0.5	0.3	104	0.12	0.049	
1075525	Soil		0.7	46.7	6.2	92	0.1	101.4	23.6	694	4.63	18.4	0.5	5.2	1.0	32	0.1	0.3	0.2	131	0.31	0.084	
REP 1075525	QC		0.9	46.4	6.7	93	0.1	104.2	23.4	693	4.63	18.9	0.5	5.4	1.0	33	0.2	0.3	0.2	132	0.32	0.086	
1094447	Soil		0.8	53.0	4.8	53	<0.1	50.4	16.0	375	3.70	20.3	0.4	2.4	1.5	22	0.1	0.2	0.1	112	0.26	0.062	
REP 1094447	QC		0.8	52.8	4.7	54	<0.1	50.5	16.2	379	3.75	20.3	0.5	2.0	1.6	23	<0.1	0.2	0.1	114	0.27	0.064	
1065209	Soil		0.9	64.1	5.8	73	0.1	73.9	23.1	412	3.88	18.8	0.6	2.7	1.9	32	<0.1	0.3	0.2	113	0.29	0.045	
REP 1065209	QC		0.9	65.3	5.9	72	0.1	70.3	22.8	416	3.88	19.4	0.6	2.3	1.9	31	0.1	0.3	0.2	111	0.27	0.045	
1070495	Soil		1.0	54.4	5.5	85	0.1	47.9	16.4	391	4.00	16.8	0.5	1.2	1.2	21	0.1	0.2	0.2	124	0.23	0.079	
REP 1070495	QC		0.9	50.6	5.1	82	0.1	46.8	15.6	388	3.75	16.1	0.5	1.0	1.2	19	0.1	0.2	0.1	121	0.22	0.071	
1070489	Soil		0.9	48.0	5.1	73	<0.1	43.6	17.5	462	3.21	12.3	0.4	2.8	0.9	22	0.2	0.2	0.1	91	0.23	0.081	
REP 1070489	QC		1.0	54.3	5.7	81	<0.1	45.7	19.5	500	3.58	13.3	0.5	2.2	0.9	24	0.2	0.3	0.1	98	0.25	0.094	
1056859	Soil		0.5	26.3	6.3	60	<0.1	30.5	12.0	333	2.63	9.9	0.5	11.3	0.8	16	<0.1	0.2	0.2	84	0.21	0.075	
REP 1056859	QC		0.4	27.7	6.6	64	<0.1	31.7	12.5	359	2.70	10.5	0.6	3.8	0.8	17	0.1	0.2	0.2	90	0.20	0.078	
1085400	Soil		0.6	32.5	5.1	71	<0.1	36.1	11.7	284	3.15	7.4	0.5	3.2	1.5	17	<0.1	0.2	0.2	98	0.27	0.089	
REP 1085400	QC		0.6	30.4	4.9	66	<0.1	33.7	11.2	271	2.92	7.1	0.5	9.1	1.5	17	<0.1	0.2	0.2	90	0.24	0.084	
1056872	Soil		0.9	31.8	6.0	74	0.1	30.6	9.9	317	3.22	36.5	0.4	3.6	0.9	26	0.2	0.3	0.2	89	0.19	0.048	
REP 1056872	QC		1.0	31.1	5.9	70	<0.1	29.4	9.8	319	3.18	35.2	0.4	3.8	0.8	25	0.1	0.3	0.2	88	0.19	0.047	



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Part 2

QUALITY CONTROL REPORT

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Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1062012	Soil	4	97	1.25	341	0.191	1	2.50	0.017	0.81	0.1	0.02	8.6	0.3	<0.05	9	<0.5	<0.2
REP 1062012	QC	4	93	1.21	331	0.182	2	2.40	0.016	0.78	0.2	0.02	8.3	0.3	<0.05	8	0.5	<0.2
1062027	Soil	6	80	1.15	274	0.189	<1	2.81	0.016	0.68	0.2	0.02	8.1	0.3	0.05	10	0.7	<0.2
REP 1062027	QC	6	79	1.14	275	0.186	1	2.77	0.016	0.67	0.1	0.02	8.1	0.3	<0.05	10	1.2	<0.2
1094355	Soil	9	122	1.63	302	0.151	2	2.99	0.039	0.64	0.1	0.02	6.7	0.3	<0.05	9	<0.5	<0.2
REP 1094355	QC	9	129	1.71	315	0.152	1	3.24	0.042	0.63	<0.1	0.02	6.6	0.3	<0.05	10	0.6	<0.2
1094372	Soil	8	86	1.34	267	0.138	2	2.91	0.016	0.55	0.1	0.03	6.7	0.3	0.06	9	<0.5	<0.2
REP 1094372	QC	9	88	1.42	266	0.150	2	2.84	0.017	0.58	0.1	0.03	7.3	0.3	0.07	9	0.5	<0.2
1070021	Soil	9	68	1.11	141	0.089	1	2.70	0.016	0.32	<0.1	0.04	5.1	0.3	<0.05	8	0.9	<0.2
REP 1070021	QC	9	63	1.12	145	0.086	1	2.73	0.016	0.31	<0.1	0.03	5.2	0.3	<0.05	8	1.3	<0.2
1075544	Soil	5	62	0.95	181	0.155	<1	2.59	0.012	0.56	0.1	0.02	5.7	0.2	0.06	9	<0.5	<0.2
REP 1075544	QC	6	65	0.95	178	0.158	<1	2.59	0.012	0.59	0.1	0.03	5.8	0.2	<0.05	9	<0.5	<0.2
1075525	Soil	6	175	1.64	288	0.175	<1	3.69	0.012	0.52	0.1	0.01	8.8	0.3	<0.05	11	<0.5	<0.2
REP 1075525	QC	6	176	1.67	289	0.175	1	3.71	0.013	0.53	0.1	0.01	8.9	0.3	<0.05	11	<0.5	<0.2
1094447	Soil	6	86	1.20	244	0.141	<1	2.53	0.014	0.63	0.2	0.01	7.5	0.3	<0.05	8	<0.5	<0.2
REP 1094447	QC	6	86	1.24	248	0.139	<1	2.53	0.013	0.63	0.2	0.01	7.6	0.3	<0.05	8	<0.5	<0.2
1065209	Soil	7	97	1.28	285	0.153	2	2.71	0.016	0.57	0.2	<0.01	8.1	0.2	0.06	8	<0.5	<0.2
REP 1065209	QC	7	94	1.29	284	0.152	2	2.64	0.016	0.57	0.2	<0.01	7.7	0.3	<0.05	9	<0.5	0.2
1070495	Soil	5	85	1.22	329	0.203	1	2.88	0.018	0.69	0.2	0.02	7.5	0.3	0.06	10	<0.5	<0.2
REP 1070495	QC	5	84	1.17	318	0.194	1	2.67	0.016	0.70	0.2	0.02	7.3	0.3	<0.05	9	<0.5	<0.2
1070489	Soil	5	61	0.87	225	0.137	<1	2.13	0.012	0.40	0.1	0.02	4.9	0.2	0.05	7	0.6	<0.2
REP 1070489	QC	5	62	0.91	242	0.151	<1	2.34	0.013	0.42	0.2	0.02	5.3	0.2	0.06	8	<0.5	<0.2
1056859	Soil	6	60	0.84	185	0.166	<1	2.53	0.009	0.37	0.2	0.03	6.0	0.2	0.06	7	<0.5	<0.2
REP 1056859	QC	6	62	0.86	196	0.169	<1	2.64	0.009	0.40	0.2	0.03	6.0	0.2	<0.05	7	<0.5	<0.2
1085400	Soil	7	65	0.85	191	0.193	<1	2.71	0.010	0.45	0.2	0.02	6.5	0.3	<0.05	8	<0.5	<0.2
REP 1085400	QC	6	62	0.82	178	0.183	<1	2.59	0.010	0.44	0.2	0.02	6.1	0.2	<0.05	7	0.5	<0.2
1056872	Soil	5	58	0.81	143	0.141	<1	1.91	0.010	0.39	0.2	0.02	5.0	0.2	<0.05	7	<0.5	<0.2
REP 1056872	QC	4	57	0.80	139	0.134	<1	1.93	0.010	0.39	0.1	0.02	5.0	0.2	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1076998	Soil	1.0	61.4	5.8	98	0.4	63.9	24.1	483	4.78	97.6	0.6	14.7	1.8	32	<0.1	0.2	0.2	140	0.32	0.092
REP 1076998	QC	1.0	61.7	5.8	93	0.4	63.8	23.1	485	4.66	96.1	0.6	21.8	1.8	33	<0.1	0.2	0.3	138	0.33	0.094
Reference Materials																					
STD DS8	Standard	12.8	101.3	125.5	291	1.8	35.9	7.0	590	2.34	23.5	2.7	118.4	6.8	66	2.6	6.0	7.2	39	0.63	0.076
STD DS8	Standard	12.9	116.9	126.0	312	1.8	39.7	7.8	605	2.47	24.6	2.8	113.1	6.6	64	2.4	6.2	6.9	43	0.67	0.078
STD DS8	Standard	12.6	102.1	128.0	308	1.7	37.0	7.0	591	2.37	24.0	2.7	106.8	6.7	71	2.2	5.9	7.0	40	0.67	0.080
STD DS8	Standard	13.9	104.1	130.2	306	1.9	35.4	7.4	619	2.47	24.2	2.8	115.0	7.3	75	2.5	5.8	7.0	42	0.70	0.080
STD DS8	Standard	13.2	111.8	123.9	304	1.7	39.6	7.6	589	2.38	24.7	2.8	101.2	6.9	68	2.0	5.5	6.7	42	0.64	0.075
STD DS8	Standard	12.9	115.7	131.7	324	1.9	40.2	8.0	632	2.55	26.3	2.9	116.5	7.2	67	2.7	6.2	7.1	44	0.72	0.085
STD DS8	Standard	11.4	103.5	114.9	289	1.6	36.6	7.1	581	2.33	23.0	2.6	101.4	6.2	59	2.1	4.8	6.2	40	0.65	0.074
STD DS8	Standard	12.9	107.2	119.1	309	1.7	37.5	7.4	600	2.40	23.1	2.5	104.4	6.1	64	2.0	5.0	5.6	42	0.69	0.073
STD DS8	Standard	14.6	122.1	133.7	336	2.0	42.5	8.5	687	2.71	28.9	3.0	129.3	7.6	74	3.0	6.7	7.8	49	0.75	0.089
STD DS8	Standard	13.4	107.5	117.1	294	1.7	37.6	7.7	566	2.26	22.1	2.7	150.3	6.4	59	2.1	5.0	6.3	41	0.64	0.075
STD DS8	Standard	13.6	115.1	122.9	323	1.8	39.0	8.1	637	2.57	25.1	2.7	155.6	6.7	64	2.2	5.3	6.5	43	0.72	0.081
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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WHI11000958.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076998	Soil	6	101	1.47	333	0.209	<1	3.44	0.016	0.94	0.3	0.05	10.1	0.4	<0.05	11	<0.5	<0.2
REP 1076998	QC	7	101	1.46	336	0.216	<1	3.38	0.016	0.95	0.3	0.04	10.1	0.4	<0.05	11	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	115	0.59	274	0.114	2	0.84	0.083	0.39	3.0	0.19	2.0	5.4	0.14	4	4.7	5.1
STD DS8	Standard	12	118	0.60	286	0.121	2	0.86	0.078	0.40	2.9	0.22	2.0	5.4	0.18	5	4.6	5.0
STD DS8	Standard	15	108	0.58	280	0.117	3	0.89	0.094	0.41	2.7	0.20	2.2	5.5	0.15	4	5.6	4.8
STD DS8	Standard	17	116	0.60	289	0.127	2	0.96	0.098	0.41	3.1	0.22	2.3	5.6	0.17	5	5.2	4.9
STD DS8	Standard	15	119	0.64	267	0.113	4	0.87	0.082	0.40	2.8	0.18	2.2	5.3	0.16	5	5.4	4.4
STD DS8	Standard	15	125	0.63	290	0.125	2	0.94	0.092	0.43	3.0	0.20	2.2	5.4	0.15	5	4.6	5.3
STD DS8	Standard	14	111	0.57	265	0.111	3	0.89	0.078	0.37	3.0	0.18	2.1	5.1	0.17	4	4.6	4.8
STD DS8	Standard	15	113	0.56	264	0.119	4	0.94	0.087	0.40	2.8	0.20	2.1	5.3	0.17	5	5.6	4.6
STD DS8	Standard	17	130	0.64	306	0.133	3	0.94	0.092	0.44	3.3	0.21	2.6	6.0	0.18	5	5.8	5.8
STD DS8	Standard	14	111	0.59	269	0.113	2	0.86	0.083	0.38	2.9	0.19	2.0	5.2	0.15	4	4.1	5.4
STD DS8	Standard	15	124	0.62	273	0.109	2	0.92	0.087	0.42	3.0	0.19	2.1	5.6	0.17	5	6.0	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: September 06, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000959.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 269

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	269	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	269	Dry at 60C			VAN
1DX2	269	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: SAP
Report Date: September 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11000959.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070203	Soil	0.9	56.6	5.3	122	0.1	54.8	23.8	539	4.42	28.7	0.9	3.0	3.4	32	0.1	0.4	0.2	112	0.32	0.081
1070499	Soil	1.1	72.2	6.7	133	0.3	68.9	27.0	636	5.20	94.2	1.3	8.5	3.6	46	0.1	0.7	0.2	127	0.39	0.079
1070498	Soil	1.0	78.3	6.6	131	0.2	73.1	27.5	608	4.94	66.2	1.3	6.0	4.4	38	0.2	0.7	0.2	116	0.30	0.099
1070211	Soil	1.6	67.6	6.6	94	0.1	44.7	16.6	352	3.95	29.0	1.0	5.2	1.6	22	0.1	0.5	0.2	95	0.17	0.072
1070226	Soil	1.1	82.8	5.5	119	0.2	71.1	28.7	515	4.63	75.1	1.0	11.7	1.7	30	0.1	0.4	0.2	119	0.35	0.098
1070219	Soil	0.9	71.2	5.4	136	<0.1	74.6	34.8	605	5.35	66.4	1.0	2.2	2.7	38	0.1	0.4	0.2	139	0.42	0.058
1070216	Soil	1.4	84.5	7.1	146	0.2	82.2	30.7	569	5.12	50.1	1.2	2.8	4.1	49	0.1	0.4	0.2	116	0.33	0.071
1070224	Soil	0.8	65.7	4.6	117	0.1	64.6	23.5	507	4.24	41.8	0.7	8.8	3.0	28	0.2	0.3	0.1	102	0.35	0.103
1070213	Soil	1.2	52.1	6.2	91	0.2	48.9	18.5	383	3.89	13.4	0.9	3.3	1.6	30	0.1	0.4	0.1	107	0.30	0.070
1070215	Soil	1.0	54.0	5.3	114	0.1	60.4	20.8	435	4.04	36.7	0.7	4.0	3.0	75	0.1	0.3	0.1	112	0.50	0.078
1070212	Soil	1.5	83.1	5.6	119	0.2	66.2	26.1	463	4.87	15.6	1.0	2.1	3.3	33	0.1	0.4	0.2	124	0.21	0.075
1070217	Soil	1.5	104.5	7.3	149	0.2	89.3	30.6	596	5.19	61.3	1.2	4.5	3.1	44	<0.1	0.5	0.2	118	0.36	0.071
1070222	Soil	1.2	68.4	5.8	120	0.1	65.9	29.4	525	4.09	35.9	1.0	3.8	1.8	34	<0.1	0.3	0.2	99	0.35	0.085
1070220	Soil	1.2	67.1	6.4	114	0.2	63.5	25.1	503	4.56	49.1	1.1	7.3	1.9	42	<0.1	0.4	0.2	115	0.44	0.081
1070210	Soil	1.3	111.9	7.4	152	0.1	129.8	40.0	639	5.14	41.9	1.0	4.1	4.1	28	0.2	0.3	0.2	120	0.27	0.092
1070228	Soil	0.9	120.1	6.2	155	0.2	122.8	43.5	786	4.98	395.2	1.1	18.0	2.8	48	0.3	1.2	0.2	104	0.54	0.125
1070229	Soil	1.0	118.0	6.3	134	<0.1	84.5	36.9	736	4.16	65.1	0.8	3.4	1.9	31	0.3	0.6	0.2	83	0.30	0.105
1070227	Soil	0.8	70.8	4.1	108	0.1	70.4	30.1	488	4.36	44.0	0.8	3.1	2.0	48	0.2	0.3	0.1	112	0.53	0.115
1070225	Soil	0.6	62.1	4.5	114	<0.1	62.6	23.3	483	4.05	40.2	0.7	3.4	3.0	26	0.1	0.3	0.1	97	0.34	0.098
1070223	Soil	1.2	64.4	6.4	127	0.1	61.0	23.3	428	4.63	26.3	1.1	2.7	2.7	36	<0.1	0.4	0.2	127	0.29	0.100
1070232	Soil	1.1	104.7	6.3	132	0.2	107.1	39.9	687	4.95	33.2	1.0	5.1	2.9	44	0.1	0.5	0.2	120	0.39	0.079
1070209	Soil	1.2	85.5	4.7	108	0.1	72.8	30.6	473	4.34	25.1	1.0	10.6	2.7	44	0.1	0.3	0.1	111	0.39	0.098
1070205	Soil	0.8	79.3	5.7	136	0.1	73.2	29.0	573	4.71	59.8	1.1	4.7	4.0	52	0.2	0.3	0.2	110	0.45	0.111
1070204	Soil	0.9	59.2	7.5	124	0.1	65.0	29.5	675	4.75	27.6	1.0	3.0	2.9	37	<0.1	0.6	0.2	111	0.37	0.074
1070202	Soil	1.0	57.3	5.4	117	0.1	52.5	21.5	492	4.47	22.3	1.0	3.2	3.6	31	0.1	0.3	0.1	106	0.32	0.085
1070208	Soil	1.2	123.5	4.7	156	0.2	98.3	39.2	590	5.98	30.3	1.5	2.2	5.4	51	0.2	0.2	0.2	147	0.35	0.100
1070206	Soil	0.8	109.7	6.5	152	0.2	108.8	35.3	554	4.85	140.4	1.6	48.8	3.5	60	0.2	0.4	0.2	114	0.57	0.093
1070207	Soil	0.7	76.4	7.4	133	0.2	76.4	32.1	685	4.81	108.5	1.0	7.1	3.4	44	0.2	0.6	0.2	118	0.54	0.099
1070201	Soil	1.0	71.7	6.0	133	0.1	67.5	27.6	539	4.36	55.7	1.1	4.7	2.9	36	0.2	0.4	0.2	107	0.37	0.092
1070500	Soil	0.8	42.9	4.1	104	<0.1	43.5	18.6	451	3.64	35.2	0.8	13.3	3.7	29	0.1	0.3	0.1	85	0.33	0.103



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Report Date:

September 06, 2011

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Part 2

CERTIFICATE OF ANALYSIS

WHI11000959.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070203	Soil	13	88	1.43	248	0.140	<1	2.77	0.013	0.47	0.1	<0.01	7.6	0.3	<0.05	10	0.7	<0.2
1070499	Soil	18	100	1.76	309	0.131	1	3.50	0.017	0.62	<0.1	0.02	8.5	0.4	0.11	11	0.6	<0.2
1070498	Soil	18	95	1.67	278	0.131	<1	3.32	0.016	0.63	<0.1	0.02	7.8	0.3	0.06	10	0.6	<0.2
1070211	Soil	10	62	0.99	134	0.092	1	2.35	0.010	0.24	0.2	0.05	4.8	0.2	0.10	8	0.7	<0.2
1070226	Soil	11	100	1.51	258	0.123	<1	2.92	0.017	0.43	0.1	0.03	6.6	0.3	<0.05	10	<0.5	<0.2
1070219	Soil	13	135	2.03	400	0.189	<1	3.42	0.021	0.57	<0.1	0.01	7.7	0.3	<0.05	12	0.7	<0.2
1070216	Soil	15	89	1.52	263	0.129	<1	3.29	0.016	0.60	<0.1	0.02	7.9	0.4	0.12	11	<0.5	<0.2
1070224	Soil	9	85	1.43	173	0.138	<1	2.83	0.015	0.37	0.4	<0.01	7.2	0.2	<0.05	9	<0.5	<0.2
1070213	Soil	9	80	1.18	211	0.105	1	2.51	0.013	0.36	<0.1	0.06	5.7	0.2	0.11	9	0.5	<0.2
1070215	Soil	10	93	1.46	369	0.122	<1	2.93	0.015	0.67	0.1	0.03	7.8	0.3	0.09	10	<0.5	<0.2
1070212	Soil	14	93	1.49	286	0.149	1	3.02	0.018	0.67	0.1	0.04	7.4	0.4	0.15	11	0.6	<0.2
1070217	Soil	14	97	1.55	299	0.125	<1	3.23	0.019	0.47	<0.1	0.03	7.9	0.4	0.11	10	0.7	<0.2
1070222	Soil	14	76	1.26	217	0.115	1	2.51	0.016	0.26	0.1	0.03	5.8	0.2	0.11	9	<0.5	<0.2
1070220	Soil	14	97	1.43	285	0.126	<1	2.91	0.018	0.31	0.1	0.03	6.7	0.3	0.09	10	0.6	<0.2
1070210	Soil	17	132	1.98	302	0.189	<1	3.42	0.014	0.65	0.1	0.02	8.6	0.4	0.07	11	0.7	<0.2
1070228	Soil	11	92	1.72	274	0.134	1	3.00	0.023	0.39	0.3	0.02	7.8	0.3	<0.05	10	0.6	<0.2
1070229	Soil	9	61	1.15	112	0.077	2	2.33	0.014	0.20	<0.1	0.03	4.9	0.2	<0.05	7	0.7	<0.2
1070227	Soil	9	109	1.81	392	0.177	<1	2.83	0.025	0.53	<0.1	0.02	5.7	0.3	<0.05	10	0.6	<0.2
1070225	Soil	9	81	1.39	168	0.135	<1	2.76	0.015	0.35	0.3	0.01	7.0	0.3	<0.05	9	<0.5	<0.2
1070223	Soil	16	113	1.81	326	0.164	<1	3.48	0.019	0.40	0.1	0.02	7.9	0.3	0.08	12	0.7	<0.2
1070232	Soil	11	103	1.61	285	0.146	<1	3.15	0.018	0.45	<0.1	0.02	8.6	0.3	0.05	11	0.5	<0.2
1070209	Soil	13	106	1.56	300	0.143	1	2.67	0.026	0.53	0.2	0.03	6.7	0.3	0.14	9	<0.5	<0.2
1070205	Soil	14	87	1.61	272	0.137	<1	3.12	0.014	0.57	<0.1	<0.01	8.1	0.3	<0.05	10	0.5	<0.2
1070204	Soil	13	94	1.52	273	0.126	1	3.00	0.015	0.43	<0.1	0.03	7.6	0.3	<0.05	10	<0.5	<0.2
1070202	Soil	14	86	1.42	217	0.144	1	2.88	0.015	0.46	0.1	0.01	7.3	0.3	0.06	9	<0.5	<0.2
1070208	Soil	21	127	2.03	486	0.199	<1	3.83	0.026	1.10	0.1	0.01	11.2	0.5	0.18	13	0.8	<0.2
1070206	Soil	17	92	1.61	273	0.123	<1	3.11	0.015	0.52	<0.1	0.02	8.1	0.4	<0.05	10	0.5	<0.2
1070207	Soil	14	87	1.65	306	0.138	<1	2.71	0.014	0.56	<0.1	0.02	8.1	0.3	<0.05	10	<0.5	<0.2
1070201	Soil	14	89	1.48	272	0.134	<1	2.87	0.016	0.44	0.1	0.02	7.2	0.3	<0.05	10	0.6	<0.2
1070500	Soil	13	68	1.19	206	0.112	<1	2.35	0.012	0.41	0.2	0.01	5.7	0.3	<0.05	8	<0.5	<0.2



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Sapphire Prospect
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Part 1

CERTIFICATE OF ANALYSIS

WHI11000959.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064087	Soil	0.7	81.2	4.9	105	0.1	86.9	33.3	427	4.71	18.9	0.9	4.1	3.0	83	0.1	0.5	0.1	147	0.35	0.073
1064085	Soil	1.7	182.0	4.3	54	0.4	101.2	27.6	412	6.64	10.0	0.4	2.2	1.0	58	0.2	0.2	0.4	127	0.30	0.207
1064086	Soil	0.9	87.8	4.1	89	0.1	101.3	35.9	423	4.34	13.1	0.9	1.8	2.4	67	0.2	0.2	0.2	139	0.36	0.079
1064088	Soil	0.6	63.9	4.9	98	<0.1	100.3	29.8	373	4.56	12.1	0.8	1.4	2.3	48	0.1	0.2	0.1	145	0.32	0.050
1064095	Soil	0.9	71.7	4.7	108	0.2	82.4	25.8	449	5.06	20.4	1.0	3.1	2.5	54	<0.1	0.4	0.1	152	0.37	0.080
1064093	Soil	1.0	78.7	5.2	106	0.2	81.0	29.6	491	4.82	21.1	1.0	2.4	2.2	60	0.1	0.3	0.1	143	0.38	0.080
1064091	Soil	0.9	71.0	7.9	104	0.2	76.5	26.1	499	4.72	53.0	0.9	6.3	2.3	62	<0.1	1.3	0.2	121	0.37	0.082
1064090	Soil	0.7	68.0	8.7	107	0.2	73.9	24.8	534	4.85	66.3	0.9	4.9	2.3	61	0.1	1.7	0.2	109	0.39	0.082
1064094	Soil	0.9	77.5	5.6	116	0.2	90.4	28.0	482	5.15	23.7	1.0	5.3	2.3	40	0.1	0.5	0.2	156	0.37	0.075
1064092	Soil	1.0	90.2	6.0	126	0.2	103.5	35.4	531	5.80	21.1	1.2	1.1	2.8	89	<0.1	0.4	0.2	186	0.40	0.071
1070231	Soil	1.1	130.3	5.9	127	0.1	94.8	42.5	734	4.85	78.4	1.0	5.7	2.0	34	0.1	0.5	0.2	105	0.27	0.084
1070230	Soil	1.1	138.3	6.8	149	0.3	123.4	48.6	752	5.55	192.7	1.5	16.8	3.6	48	0.2	1.2	0.2	128	0.43	0.086
1070218	Soil	1.0	64.9	5.3	100	0.2	57.5	29.1	669	4.39	128.4	1.3	4.4	2.3	30	<0.1	0.5	0.2	107	0.29	0.066
1070221	Soil	0.8	44.6	4.6	108	0.1	56.9	22.0	490	4.07	18.6	0.7	4.9	2.9	35	0.2	0.3	0.2	98	0.36	0.110
1070214	Soil	1.7	107.7	7.5	151	0.2	112.4	38.1	682	4.97	26.3	1.2	3.1	3.5	48	0.3	0.5	0.2	114	0.34	0.124
1064109	Soil	1.2	137.1	6.3	78	0.2	96.9	32.3	417	4.98	44.7	0.9	8.4	1.4	85	0.2	0.1	0.2	135	0.47	0.105
1064107	Soil	0.8	67.4	5.2	98	0.1	75.0	28.9	512	4.64	36.1	1.0	3.2	2.5	99	0.1	0.3	0.2	146	0.45	0.099
1064105	Soil	0.7	82.9	4.4	93	<0.1	76.9	26.8	394	4.49	30.0	0.8	2.5	2.2	53	<0.1	0.2	0.2	140	0.31	0.074
1064103	Soil	1.1	110.1	6.9	88	<0.1	60.5	22.6	446	4.34	20.9	1.0	1.7	1.2	38	0.1	0.4	0.2	120	0.21	0.058
1064101	Soil	0.8	90.2	5.3	113	0.2	96.2	33.1	505	5.28	26.9	1.1	11.1	2.5	71	<0.1	0.2	0.2	162	0.38	0.090
1064096	Soil	1.1	110.0	6.9	126	0.2	107.3	39.9	613	5.96	43.6	1.2	4.0	2.2	69	0.2	0.3	0.2	179	0.36	0.075
1064097	Soil	1.5	128.6	8.6	125	0.2	108.1	33.5	637	7.23	64.4	1.4	7.5	2.6	81	<0.1	0.9	0.3	192	0.36	0.075
1064098	Soil	1.2	111.6	6.4	124	0.3	118.4	48.8	691	6.40	56.1	1.2	8.0	2.5	85	0.1	0.1	0.2	191	0.51	0.077
1064099	Soil	1.0	88.6	6.3	110	0.2	97.1	33.4	473	5.29	91.7	1.2	18.9	2.4	62	<0.1	0.2	0.2	171	0.37	0.060
1064100	Soil	0.7	60.9	4.2	93	0.1	72.4	23.6	421	4.51	32.0	0.9	2.0	2.9	64	<0.1	0.2	0.2	145	0.42	0.094
1064102	Soil	0.6	52.8	4.4	82	0.1	61.7	20.8	370	4.11	13.0	0.7	1.8	2.2	50	<0.1	0.1	0.1	132	0.33	0.097
1064104	Soil	0.8	68.6	5.7	93	0.1	68.9	27.7	453	4.58	42.1	0.8	8.1	2.3	68	<0.1	0.2	0.2	142	0.42	0.097
1064106	Soil	1.3	94.4	6.1	108	0.3	89.7	30.3	481	5.85	43.5	1.1	4.6	2.3	73	0.1	0.3	0.2	190	0.38	0.083
1064084	Soil	0.7	51.9	4.9	38	<0.1	42.7	14.4	366	3.76	9.7	0.4	2.0	1.3	22	0.2	0.3	0.2	108	0.19	0.057
1064089	Soil	1.2	61.0	6.3	77	0.1	62.0	19.6	296	3.98	11.6	1.0	1.8	1.4	43	0.1	0.3	0.2	122	0.24	0.070



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064087	Soil	11	154	1.81	499	0.169	<1	2.91	0.017	0.91	<0.1	0.02	11.7	0.3	0.08	11	<0.5	<0.2
1064085	Soil	5	79	1.39	387	0.179	<1	3.26	0.074	1.30	0.1	0.01	8.6	0.5	0.59	10	0.8	<0.2
1064086	Soil	11	167	1.91	460	0.169	<1	3.14	0.028	0.92	0.2	0.04	10.6	0.3	0.14	11	<0.5	<0.2
1064088	Soil	9	141	1.85	520	0.162	<1	3.59	0.023	0.71	<0.1	0.03	11.2	0.3	<0.05	12	<0.5	<0.2
1064095	Soil	11	140	1.86	597	0.179	<1	3.32	0.024	1.23	0.1	0.02	12.7	0.4	0.13	12	<0.5	<0.2
1064093	Soil	10	132	1.79	597	0.167	<1	3.28	0.024	1.06	<0.1	0.01	11.5	0.3	0.11	12	<0.5	<0.2
1064091	Soil	9	115	1.67	467	0.137	<1	3.10	0.020	0.85	<0.1	0.01	10.4	0.3	0.09	10	<0.5	<0.2
1064090	Soil	9	105	1.60	413	0.122	1	2.91	0.019	0.78	<0.1	0.01	10.2	0.3	0.07	9	<0.5	<0.2
1064094	Soil	10	143	1.96	556	0.197	<1	3.38	0.020	1.07	0.1	0.03	12.4	0.4	0.08	12	0.7	<0.2
1064092	Soil	13	183	2.40	719	0.204	<1	3.98	0.025	1.14	<0.1	0.01	14.2	0.4	0.11	14	<0.5	<0.2
1070231	Soil	11	81	1.42	185	0.123	<1	2.90	0.016	0.35	0.1	0.03	6.4	0.3	0.08	9	0.7	<0.2
1070230	Soil	15	112	1.83	341	0.163	2	3.48	0.030	0.58	0.1	0.03	9.4	0.4	0.10	11	0.7	<0.2
1070218	Soil	19	100	1.48	417	0.140	2	2.89	0.013	0.36	<0.1	0.04	7.2	0.3	0.07	9	<0.5	<0.2
1070221	Soil	12	90	1.50	331	0.149	<1	2.63	0.018	0.62	0.2	0.02	6.5	0.3	<0.05	9	<0.5	<0.2
1070214	Soil	17	85	1.52	284	0.128	<1	3.36	0.016	0.70	0.1	0.03	7.5	0.4	0.13	10	0.8	<0.2
1064109	Soil	7	107	1.69	513	0.154	<1	3.62	0.019	1.15	0.2	0.05	10.1	0.4	0.09	10	0.7	<0.2
1064107	Soil	10	140	1.88	552	0.172	<1	3.30	0.025	1.08	1.1	0.01	11.4	0.3	0.07	12	0.7	<0.2
1064105	Soil	8	129	1.71	479	0.174	<1	2.98	0.020	0.95	0.2	0.02	10.6	0.3	0.08	11	<0.5	<0.2
1064103	Soil	8	94	1.30	265	0.133	1	2.95	0.016	0.37	0.2	0.03	7.5	0.2	0.07	9	0.6	<0.2
1064101	Soil	10	151	2.14	687	0.206	<1	3.90	0.028	1.30	<0.1	0.01	13.3	0.4	0.10	13	<0.5	<0.2
1064096	Soil	11	155	2.19	664	0.206	<1	4.12	0.027	1.08	0.1	0.02	13.5	0.5	0.10	14	0.7	<0.2
1064097	Soil	14	167	2.32	720	0.209	<1	4.30	0.024	1.38	0.1	0.03	15.8	0.5	0.11	15	0.9	<0.2
1064098	Soil	11	172	2.43	733	0.214	<1	4.51	0.033	1.38	0.2	0.02	14.4	0.5	0.11	15	0.8	<0.2
1064099	Soil	12	163	2.14	598	0.198	<1	3.78	0.026	1.15	<0.1	0.03	12.6	0.4	0.07	13	0.6	<0.2
1064100	Soil	11	142	1.94	586	0.186	<1	3.31	0.021	1.14	<0.1	<0.01	11.6	0.4	<0.05	12	0.5	<0.2
1064102	Soil	8	122	1.68	495	0.170	<1	3.16	0.019	0.98	0.1	0.01	10.6	0.3	<0.05	11	0.6	<0.2
1064104	Soil	8	130	1.81	544	0.162	<1	3.48	0.020	0.92	0.2	0.03	10.9	0.3	0.05	11	0.5	<0.2
1064106	Soil	11	161	2.20	664	0.202	<1	3.95	0.023	1.32	0.2	0.02	13.2	0.4	0.10	14	0.7	<0.2
1064084	Soil	6	68	1.05	166	0.155	1	2.58	0.012	0.54	0.1	0.02	6.9	0.3	<0.05	7	0.6	<0.2
1064089	Soil	10	107	1.33	312	0.129	<1	2.94	0.021	0.40	0.1	0.04	7.4	0.2	0.09	10	0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1061824	Soil	2.1	50.2	5.5	84	0.4	67.9	16.5	315	5.13	33.2	0.5	68.5	1.0	29	0.1	0.2	0.2	131	0.25	0.033
1061819	Soil	0.3	23.8	2.6	49	0.2	30.1	11.8	259	2.51	67.4	0.5	22.0	1.8	24	<0.1	0.1	0.1	76	0.30	0.055
1061820	Soil	0.5	31.0	3.9	65	<0.1	37.5	14.7	364	3.22	110.3	0.6	16.6	1.8	32	<0.1	0.1	0.2	95	0.37	0.090
1061814	Soil	0.6	37.5	3.5	59	0.2	32.5	12.9	354	3.04	73.8	0.7	19.7	2.0	16	<0.1	0.1	0.2	88	0.14	0.027
1061823	Soil	0.3	17.4	1.9	44	<0.1	20.9	8.7	252	2.12	57.8	0.5	46.6	1.5	18	<0.1	<0.1	<0.1	65	0.27	0.076
1061822	Soil	0.4	28.9	2.7	52	0.1	31.6	12.5	310	2.77	71.5	0.6	22.4	1.7	23	<0.1	<0.1	0.2	86	0.27	0.051
1061821	Soil	0.4	28.5	3.6	61	<0.1	33.7	13.5	348	3.05	103.5	0.6	33.2	1.8	31	<0.1	0.2	0.2	91	0.37	0.084
1064116	Soil	0.6	58.5	4.6	40	0.2	54.2	21.1	356	3.74	18.0	0.4	2.0	0.9	38	0.1	0.1	0.2	106	0.25	0.046
1064115	Soil	1.1	121.5	5.4	56	0.2	76.2	29.2	420	4.38	26.5	0.7	7.3	1.2	41	0.2	0.2	0.2	124	0.28	0.097
1064114	Soil	1.0	79.5	3.9	47	0.1	64.6	20.6	353	4.08	21.0	0.4	2.5	1.1	34	<0.1	<0.1	0.2	118	0.28	0.104
1064113	Soil	0.7	61.7	3.5	77	0.1	60.3	21.6	371	4.34	20.6	0.6	6.4	1.7	43	0.1	<0.1	0.2	131	0.34	0.130
1064112	Soil	1.1	85.8	3.6	63	0.2	47.0	19.0	392	4.52	7.2	0.7	1.6	1.2	32	<0.1	0.1	0.2	136	0.37	0.127
1064108	Soil	1.1	122.7	5.3	74	0.3	97.1	32.9	479	5.04	26.4	0.8	4.9	1.8	55	<0.1	0.1	0.2	159	0.37	0.095
1064110	Soil	1.2	131.9	6.4	94	0.2	97.9	35.1	497	5.65	38.7	1.0	7.2	1.8	84	<0.1	0.2	0.2	180	0.39	0.071
1064111	Soil	1.1	99.6	5.1	84	0.1	53.8	23.4	415	4.01	10.9	0.8	2.5	1.0	29	0.2	0.2	0.1	127	0.37	0.095
1058868	Soil	0.8	65.5	3.2	106	0.1	56.6	21.8	357	4.91	5.6	0.7	0.9	2.3	38	<0.1	<0.1	0.1	178	0.45	0.078
1058875	Soil	0.7	51.0	4.5	88	0.1	53.7	18.6	424	4.03	10.7	0.5	1.5	1.3	23	<0.1	0.1	0.1	140	0.30	0.073
1061830	Soil	1.4	43.3	4.3	54	0.2	27.8	12.8	296	2.86	50.7	1.6	49.7	1.9	24	<0.1	0.1	0.1	79	0.41	0.079
1061826	Soil	0.6	35.7	4.1	71	0.2	33.0	15.1	324	3.64	48.7	0.5	5.6	1.1	43	<0.1	0.1	0.1	106	0.50	0.035
1061825	Soil	1.0	27.8	4.4	59	0.1	32.4	11.0	284	3.29	34.8	0.4	11.6	1.5	16	<0.1	0.1	0.1	101	0.19	0.018
1061827	Soil	2.0	45.5	6.6	83	0.2	32.9	10.4	369	4.07	223.1	0.4	6.4	1.5	35	<0.1	0.2	0.2	124	0.34	0.019
1061828	Soil	7.8	26.7	6.5	73	0.1	23.7	10.7	223	4.65	403.4	0.7	7.6	1.2	16	0.1	0.5	0.3	125	0.17	0.023
1061831	Soil	0.5	25.3	2.8	40	0.2	21.3	6.8	129	1.89	23.7	1.0	6.8	0.6	59	0.1	0.1	0.1	48	0.57	0.061
1061833	Soil	1.0	27.6	5.1	31	0.3	18.6	6.8	81	1.62	10.7	0.6	1.2	1.0	19	0.2	0.2	0.1	51	0.26	0.021
1061829	Soil	0.7	22.8	5.5	62	0.1	21.6	13.3	300	2.55	33.5	0.6	9.6	1.3	19	0.2	0.2	0.2	64	0.25	0.061
1061832	Soil	0.9	20.0	6.1	60	0.2	25.0	12.8	190	3.22	36.8	0.3	3.7	1.3	15	0.2	0.2	0.2	84	0.19	0.024
1061818	Soil	0.4	29.3	4.9	66	0.2	37.0	13.8	366	3.00	98.7	0.5	12.9	0.8	34	<0.1	0.2	0.2	85	0.31	0.051
1061816	Soil	0.4	41.9	2.9	59	0.2	29.9	12.6	276	2.88	62.1	0.4	7.3	1.3	21	<0.1	<0.1	0.1	92	0.22	0.033
1061815	Soil	0.2	29.0	2.2	55	<0.1	27.2	11.4	294	2.50	48.4	0.4	6.0	1.3	27	<0.1	<0.1	0.1	77	0.22	0.051
1061817	Soil	0.9	21.8	4.6	61	0.1	20.4	10.5	400	2.56	29.9	0.3	7.1	1.0	19	0.5	0.2	0.2	80	0.20	0.037



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1061824	Soil	4	73	0.85	258	0.278	1	3.38	0.010	0.56	0.2	0.03	7.6	0.2	<0.05	11	<0.5	<0.2
1061819	Soil	6	53	0.76	232	0.168	<1	2.29	0.021	0.44	0.3	0.02	5.1	0.2	<0.05	6	<0.5	<0.2
1061820	Soil	7	64	0.95	334	0.192	<1	2.54	0.023	0.54	0.3	0.02	5.9	0.2	<0.05	7	<0.5	<0.2
1061814	Soil	7	57	0.90	236	0.202	<1	2.48	0.016	0.58	0.3	0.02	5.5	0.2	<0.05	7	<0.5	<0.2
1061823	Soil	7	42	0.67	219	0.151	1	1.64	0.022	0.45	0.4	0.02	4.4	0.2	<0.05	5	<0.5	<0.2
1061822	Soil	7	56	0.84	251	0.197	<1	2.27	0.025	0.45	0.3	0.01	5.6	0.2	<0.05	7	<0.5	<0.2
1061821	Soil	7	61	0.92	319	0.185	<1	2.38	0.023	0.52	0.4	0.01	5.8	0.2	<0.05	7	<0.5	<0.2
1064116	Soil	5	77	1.25	317	0.125	<1	2.56	0.013	0.69	0.4	0.02	6.9	0.3	<0.05	7	0.6	<0.2
1064115	Soil	6	88	1.40	393	0.144	<1	2.95	0.015	0.88	1.0	0.03	8.6	0.4	0.06	9	0.7	<0.2
1064114	Soil	4	84	1.39	404	0.146	<1	2.72	0.015	1.03	0.9	0.01	8.5	0.3	0.06	8	<0.5	<0.2
1064113	Soil	5	108	1.67	548	0.174	<1	2.89	0.026	1.22	1.0	0.01	10.5	0.4	0.10	10	<0.5	<0.2
1064112	Soil	4	93	1.51	549	0.186	<1	2.90	0.028	1.17	0.2	0.03	10.1	0.3	0.16	10	0.8	<0.2
1064108	Soil	7	116	1.80	520	0.170	<1	3.63	0.023	1.06	0.2	0.03	9.6	0.5	<0.05	11	0.6	<0.2
1064110	Soil	8	158	2.03	566	0.175	<1	3.95	0.026	1.05	0.2	0.02	11.1	0.4	<0.05	13	0.5	<0.2
1064111	Soil	7	87	1.29	300	0.114	1	2.56	0.024	0.52	0.5	0.06	6.5	0.3	0.09	9	<0.5	<0.2
1058868	Soil	9	188	1.98	644	0.226	<1	3.26	0.033	0.95	0.2	0.02	12.5	0.3	0.09	13	<0.5	<0.2
1058875	Soil	6	99	1.39	417	0.188	<1	2.81	0.020	0.88	0.2	0.02	8.2	0.3	<0.05	10	<0.5	<0.2
1061830	Soil	10	52	0.82	189	0.161	<1	2.14	0.014	0.32	0.4	0.02	4.7	0.2	<0.05	7	<0.5	<0.2
1061826	Soil	5	75	1.13	187	0.236	2	3.01	0.050	0.67	0.3	0.03	6.6	0.2	<0.05	10	<0.5	<0.2
1061825	Soil	6	64	0.88	147	0.212	1	2.30	0.015	0.33	0.3	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
1061827	Soil	6	101	1.44	305	0.301	1	2.41	0.014	0.44	0.2	0.02	6.7	0.1	0.09	11	<0.5	<0.2
1061828	Soil	5	49	0.81	122	0.224	<1	2.12	0.008	0.20	0.3	0.02	3.5	0.1	<0.05	12	<0.5	<0.2
1061831	Soil	5	48	0.67	309	0.092	1	1.39	0.014	0.26	0.2	0.04	2.7	0.1	0.10	5	<0.5	<0.2
1061833	Soil	5	40	0.34	134	0.129	<1	0.79	0.011	0.09	0.1	0.02	1.8	<0.1	0.05	5	<0.5	<0.2
1061829	Soil	6	42	0.58	144	0.120	1	1.50	0.010	0.23	0.3	0.02	3.4	0.1	0.07	6	<0.5	<0.2
1061832	Soil	5	57	0.70	99	0.152	<1	2.03	0.009	0.12	0.2	<0.01	3.5	0.1	0.05	7	<0.5	<0.2
1061818	Soil	5	64	0.98	267	0.158	<1	2.55	0.025	0.55	0.3	<0.01	5.7	0.2	0.07	8	<0.5	<0.2
1061816	Soil	5	54	0.94	265	0.198	<1	2.02	0.014	0.57	0.2	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
1061815	Soil	5	48	0.80	326	0.163	<1	1.86	0.019	0.59	0.2	0.01	5.7	0.2	<0.05	6	<0.5	<0.2
1061817	Soil	4	43	0.61	149	0.139	<1	1.51	0.013	0.21	0.2	0.04	4.0	0.1	0.09	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1058862	Soil	1.1	56.2	5.9	80	0.2	53.9	19.9	353	4.23	12.0	0.6	2.7	1.3	33	<0.1	0.2	0.2	127	0.28	0.035
1058864	Soil	0.7	46.7	4.0	85	0.2	49.8	18.2	345	4.04	9.4	0.6	5.2	1.3	31	<0.1	0.1	0.1	139	0.32	0.053
1058879	Soil	1.2	69.4	7.0	90	0.2	57.7	21.1	424	4.57	15.5	0.6	4.5	1.4	51	0.2	0.2	0.2	136	0.33	0.069
1058858	Soil	1.1	70.1	6.2	93	0.2	67.6	24.5	513	4.51	14.8	0.6	2.3	1.1	33	0.2	0.2	0.2	134	0.35	0.066
1058865	Soil	0.9	60.5	5.1	94	0.2	61.6	22.7	390	4.38	11.4	0.7	1.4	1.5	42	0.1	0.1	0.2	144	0.41	0.060
1058882	Soil	1.0	62.3	6.0	85	0.2	58.0	19.7	435	4.17	10.7	0.7	1.9	1.3	61	0.1	0.2	0.2	129	0.26	0.067
1058880	Soil	0.6	48.3	4.4	92	0.1	51.9	18.2	329	3.93	9.8	0.5	2.0	1.4	29	0.1	0.1	0.1	131	0.33	0.067
1058872	Soil	0.7	55.8	3.7	86	0.1	65.1	20.4	287	3.98	7.9	0.6	1.1	1.6	34	<0.1	<0.1	0.1	134	0.34	0.069
1058873	Soil	0.8	72.7	4.6	89	0.2	71.5	23.9	407	4.38	13.2	0.6	2.1	1.2	29	0.1	0.1	0.2	136	0.32	0.065
1058860	Soil	1.3	68.7	7.0	84	0.2	63.0	24.9	433	4.91	15.6	0.7	4.8	1.4	36	0.1	0.2	0.2	144	0.32	0.050
1058866	Soil	0.7	47.6	4.7	87	<0.1	56.1	18.5	389	4.06	10.0	0.5	1.9	1.0	33	0.1	0.1	0.2	126	0.32	0.059
1058877	Soil	0.8	55.7	4.5	94	0.2	57.8	23.8	393	3.64	11.5	0.5	1.3	0.8	35	0.4	0.2	0.2	114	0.45	0.083
1058874	Soil	1.0	62.4	5.7	91	0.3	62.1	23.7	497	4.23	23.3	0.7	3.0	1.0	49	0.2	0.2	0.2	130	0.53	0.067
1058871	Soil	0.8	68.8	4.5	96	0.1	73.5	25.1	414	4.52	12.0	0.6	1.3	1.4	29	<0.1	<0.1	0.2	142	0.32	0.069
1058870	Soil	0.7	52.6	4.4	88	0.2	61.4	20.8	435	4.00	12.3	0.5	1.9	1.2	29	0.1	0.1	0.1	124	0.34	0.085
1058881	Soil	1.0	63.8	6.7	90	0.2	58.5	20.6	473	4.48	12.7	0.7	2.0	1.3	56	0.1	0.2	0.2	133	0.27	0.069
1058878	Soil	0.7	48.7	4.0	83	0.2	50.6	19.0	341	3.63	8.1	0.6	0.7	1.3	28	0.5	0.1	0.1	118	0.29	0.063
1058863	Soil	1.0	58.1	5.1	88	0.2	60.9	21.4	429	4.33	9.7	0.6	2.9	1.2	32	0.1	0.1	0.2	137	0.33	0.055
1058861	Soil	1.2	63.6	6.7	87	0.2	56.8	23.3	514	4.47	11.8	0.6	1.9	1.2	34	0.2	0.2	0.2	133	0.31	0.063
1058869	Soil	0.6	37.0	3.1	62	0.2	40.5	11.4	206	2.73	5.9	0.5	<0.5	0.9	35	0.1	0.1	0.1	89	0.49	0.076
1058867	Soil	0.6	47.6	3.7	83	0.1	54.3	18.2	315	3.82	7.8	0.5	1.6	1.2	28	<0.1	<0.1	0.1	121	0.34	0.073
1058856	Soil	1.2	58.5	5.7	72	0.2	45.1	29.6	738	3.56	14.1	0.7	3.6	1.0	35	0.6	0.2	0.2	97	0.41	0.054
1058854	Soil	1.2	78.3	5.8	65	0.2	63.0	23.8	469	4.05	17.3	0.5	4.1	1.4	28	0.1	0.2	0.2	118	0.32	0.072
1058853	Soil	1.1	48.7	4.7	49	0.2	40.2	14.7	334	2.73	8.2	0.5	3.4	0.6	31	0.2	0.3	0.1	71	0.37	0.072
1058852	Soil	1.2	90.9	7.0	97	0.2	80.2	30.9	550	4.81	20.1	0.7	2.6	1.4	29	0.1	0.3	0.2	136	0.24	0.076
1058851	Soil	1.1	72.2	5.8	57	0.2	59.9	22.5	406	3.90	19.7	0.4	3.7	1.3	27	0.1	0.2	0.2	111	0.31	0.065
1058859	Soil	1.4	98.6	7.7	110	0.2	86.7	31.0	623	5.80	18.8	0.9	3.5	1.4	40	0.1	0.3	0.3	162	0.33	0.063
1058857	Soil	1.1	53.1	5.4	76	0.1	45.8	17.4	371	3.83	12.5	0.6	5.7	0.9	30	0.1	0.2	0.2	112	0.28	0.044
1058855	Soil	1.2	99.2	5.8	69	0.2	70.6	27.8	491	4.25	21.5	0.5	3.3	1.2	40	0.2	0.2	0.2	126	0.48	0.100
1058876	Soil	0.8	57.2	4.5	91	0.1	55.5	18.9	406	4.12	13.0	0.5	1.6	1.2	28	0.2	0.3	0.2	130	0.32	0.099



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1058862	Soil	6	98	1.29	360	0.155	<1	2.82	0.013	0.56	0.1	0.04	8.5	0.3	0.05	9	0.7	<0.2
1058864	Soil	6	125	1.46	455	0.158	<1	2.70	0.016	0.78	0.2	0.03	9.4	0.3	0.09	10	<0.5	<0.2
1058879	Soil	6	90	1.25	469	0.172	<1	3.04	0.016	0.85	0.2	0.03	9.5	0.3	0.08	11	0.6	<0.2
1058858	Soil	6	95	1.37	429	0.157	<1	2.97	0.019	0.74	0.2	0.02	9.4	0.3	0.10	10	<0.5	<0.2
1058865	Soil	7	122	1.61	514	0.168	<1	3.11	0.018	0.94	0.5	0.03	10.6	0.3	0.10	11	<0.5	<0.2
1058882	Soil	6	101	1.37	439	0.142	<1	3.08	0.016	0.69	0.1	0.01	9.0	0.3	0.09	11	0.6	<0.2
1058880	Soil	5	105	1.39	443	0.166	<1	2.77	0.018	1.00	0.1	0.02	9.8	0.3	<0.05	10	<0.5	<0.2
1058872	Soil	6	128	1.56	512	0.169	<1	2.84	0.017	0.93	0.1	0.01	10.2	0.3	0.06	11	<0.5	<0.2
1058873	Soil	5	112	1.46	455	0.168	<1	2.89	0.019	0.88	0.1	0.02	9.6	0.3	0.09	10	<0.5	<0.2
1058860	Soil	7	108	1.45	386	0.164	<1	3.20	0.015	0.66	0.2	0.02	9.5	0.3	0.07	11	<0.5	<0.2
1058866	Soil	5	104	1.41	410	0.166	<1	2.89	0.016	1.06	0.1	0.02	8.9	0.3	0.09	10	<0.5	<0.2
1058877	Soil	5	83	1.16	390	0.141	2	2.37	0.015	0.83	0.2	0.06	7.5	0.3	0.09	9	0.7	<0.2
1058874	Soil	6	101	1.33	529	0.140	<1	2.88	0.019	0.72	0.2	0.05	8.8	0.3	0.12	10	0.7	<0.2
1058871	Soil	5	118	1.55	488	0.186	<1	3.07	0.019	1.08	0.1	0.01	10.8	0.3	0.06	11	<0.5	<0.2
1058870	Soil	5	95	1.35	453	0.169	<1	2.74	0.017	0.97	0.1	0.02	8.8	0.3	0.05	10	<0.5	<0.2
1058881	Soil	6	98	1.30	401	0.150	<1	3.08	0.016	0.66	0.2	0.03	8.5	0.3	0.06	11	<0.5	<0.2
1058878	Soil	6	100	1.26	398	0.160	<1	2.51	0.019	0.78	0.1	0.05	8.7	0.3	0.07	9	<0.5	<0.2
1058863	Soil	6	107	1.45	483	0.172	<1	3.00	0.019	0.87	0.2	0.02	9.7	0.3	0.06	11	<0.5	<0.2
1058861	Soil	6	95	1.28	385	0.153	<1	2.80	0.016	0.61	0.2	0.04	8.7	0.3	0.09	10	<0.5	<0.2
1058869	Soil	5	74	0.96	382	0.115	<1	1.80	0.015	0.69	0.3	0.03	6.3	0.2	0.08	7	<0.5	<0.2
1058867	Soil	5	101	1.31	394	0.159	<1	2.54	0.017	0.90	0.1	0.03	9.0	0.3	0.05	9	<0.5	<0.2
1058856	Soil	7	69	0.95	374	0.116	<1	2.27	0.016	0.44	0.2	0.06	6.7	0.2	0.10	7	0.6	<0.2
1058854	Soil	6	80	1.17	298	0.166	<1	2.56	0.014	0.63	0.2	0.03	8.2	0.3	0.05	9	0.6	<0.2
1058853	Soil	5	45	0.69	202	0.080	1	1.61	0.013	0.40	0.1	0.03	3.9	0.2	0.11	5	<0.5	<0.2
1058852	Soil	7	104	1.41	415	0.164	<1	3.27	0.018	0.70	0.2	0.02	9.4	0.3	0.10	11	<0.5	<0.2
1058851	Soil	5	68	1.04	241	0.149	<1	2.35	0.013	0.50	0.2	0.03	7.0	0.3	0.09	9	<0.5	<0.2
1058859	Soil	7	122	1.71	460	0.211	2	3.70	0.022	0.88	0.2	0.03	11.2	0.4	0.09	13	0.7	<0.2
1058857	Soil	5	80	1.15	268	0.169	<1	2.49	0.016	0.62	0.1	0.02	7.0	0.3	0.06	9	0.5	<0.2
1058855	Soil	6	88	1.23	326	0.182	1	2.61	0.017	0.73	0.2	0.03	8.5	0.3	0.06	9	0.5	<0.2
1058876	Soil	5	100	1.38	442	0.205	<1	2.66	0.016	0.93	0.2	0.02	9.8	0.3	<0.05	10	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1058900	Soil	1.1	30.9	6.4	75	<0.1	40.0	15.6	541	3.39	13.0	0.5	1.0	2.1	26	0.1	0.4	0.1	85	0.42	0.093
1058902	Soil	1.0	38.2	5.1	87	0.1	36.7	12.7	427	3.16	22.4	0.6	1.9	1.4	27	0.2	0.3	0.1	78	0.32	0.085
1058903	Soil	1.1	29.7	8.0	107	0.3	28.1	13.3	501	3.40	15.6	0.5	2.0	2.0	28	0.2	0.4	0.2	81	0.32	0.051
1058898	Soil	1.0	28.0	7.0	86	<0.1	31.7	12.7	496	3.37	15.5	0.5	0.9	1.9	29	0.6	0.5	0.1	81	0.45	0.097
1058905	Soil	0.9	28.6	6.0	78	<0.1	33.2	12.3	481	3.28	16.1	0.5	3.6	2.0	27	0.2	0.3	0.1	84	0.38	0.092
1058911	Soil	0.9	42.2	6.3	96	0.1	38.1	15.1	534	3.55	20.8	0.7	2.9	2.5	29	0.2	0.3	0.2	82	0.36	0.088
1058913	Soil	1.3	58.1	6.8	99	0.3	52.6	17.6	477	4.10	20.7	1.1	3.2	2.8	33	<0.1	0.3	0.2	96	0.35	0.089
1058915	Soil	1.1	50.9	5.6	82	0.3	42.0	14.8	494	3.48	13.1	0.9	5.7	2.5	34	<0.1	0.3	0.1	83	0.42	0.094
1058914	Soil	0.8	38.3	5.5	63	0.1	34.8	13.4	492	2.83	38.3	0.6	3.6	2.0	31	0.2	0.4	0.1	72	0.46	0.097
1058916	Soil	1.1	46.1	6.4	383	0.1	40.6	15.9	627	3.32	11.2	0.7	1.7	2.8	29	0.5	0.4	0.1	83	0.39	0.087
1058910	Soil	0.8	55.3	5.2	100	<0.1	44.0	16.0	556	3.77	21.2	0.6	2.4	3.7	31	0.2	0.3	0.2	88	0.41	0.097
1058912	Soil	0.8	33.9	6.1	83	0.2	37.6	12.0	311	3.22	28.0	0.6	1.9	2.2	31	0.5	0.2	0.2	82	0.31	0.066
1058918	Soil	1.4	22.4	8.5	111	<0.1	28.8	18.1	760	3.49	11.3	0.5	1.4	2.1	26	0.2	0.4	0.2	81	0.34	0.087
1058917	Soil	1.3	22.4	8.3	107	<0.1	27.6	18.8	881	3.43	11.1	0.5	2.5	2.2	27	0.3	0.4	0.2	81	0.34	0.089
1061813	Soil	0.7	30.2	3.2	58	<0.1	31.9	12.8	348	2.78	62.6	0.6	9.6	1.7	20	<0.1	<0.1	0.2	87	0.20	0.053
1058889	Soil	0.9	57.9	5.8	99	0.3	43.0	17.5	530	3.49	12.9	0.9	2.7	3.2	31	0.1	0.3	0.2	81	0.37	0.104
1058897	Soil	1.0	37.2	6.1	78	0.1	37.1	14.4	520	3.13	12.9	0.7	1.8	2.4	31	0.2	0.3	0.1	77	0.42	0.088
1058887	Soil	0.9	52.8	6.0	98	0.2	42.9	16.0	539	3.69	18.0	0.8	4.7	3.1	29	0.2	0.3	0.2	85	0.34	0.107
1058891	Soil	0.9	67.2	5.7	103	0.2	58.4	20.0	527	3.92	14.0	0.8	1.8	3.8	35	0.2	0.2	0.2	87	0.40	0.101
1058888	Soil	0.8	49.1	5.8	96	0.1	44.3	13.7	449	3.56	16.1	0.5	2.7	2.8	32	0.2	0.2	0.2	89	0.39	0.099
1058895	Soil	1.2	45.6	8.6	94	0.3	40.2	20.4	682	4.07	16.8	0.8	2.5	3.3	33	0.2	0.5	0.2	91	0.40	0.085
1058896	Soil	0.7	64.2	6.1	82	0.4	50.3	15.2	540	3.53	15.1	0.8	4.4	3.5	35	0.2	0.4	0.2	88	0.52	0.116
1058894	Soil	1.1	49.5	6.7	92	0.3	43.5	18.1	671	3.40	14.3	0.8	3.0	2.8	28	0.3	0.4	0.2	78	0.37	0.096
1058904	Soil	1.3	87.5	8.1	116	0.3	69.1	24.7	661	4.53	146.3	1.5	7.5	2.9	40	0.1	0.6	0.2	103	0.37	0.089
1058907	Soil	0.9	30.5	7.1	89	0.1	41.2	13.9	506	3.26	15.6	0.6	1.3	2.4	27	0.3	0.4	0.1	75	0.38	0.084
1058908	Soil	1.0	40.1	7.1	89	0.2	38.8	16.0	612	3.48	41.1	0.8	2.8	2.0	33	0.2	0.5	0.1	84	0.39	0.086
1058906	Soil	1.3	32.0	7.4	121	0.2	36.7	18.4	733	3.72	15.7	0.6	1.4	2.5	29	0.2	0.4	0.2	83	0.36	0.084
1058909	Soil	1.1	30.5	6.5	89	<0.1	35.8	14.6	477	3.39	26.5	0.5	1.6	2.5	30	0.5	0.4	0.1	90	0.43	0.076
1058899	Soil	0.8	33.8	6.6	81	0.1	41.2	14.2	411	3.46	17.9	0.5	1.8	2.6	26	0.3	0.3	0.2	79	0.33	0.093
1058901	Soil	0.9	39.9	7.8	80	0.1	41.5	16.5	651	3.27	15.5	0.6	365.3	2.2	30	0.2	0.4	0.1	87	0.43	0.096



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1058900	Soil	8	64	1.03	89	0.126	<1	1.83	0.016	0.23	<0.1	<0.01	4.1	0.2	<0.05	6	<0.5
1058902	Soil	9	59	0.91	118	0.090	<1	1.93	0.011	0.16	<0.1	0.01	4.0	0.2	<0.05	7	<0.5
1058903	Soil	8	53	0.95	109	0.129	2	1.81	0.012	0.15	0.1	0.01	3.6	0.1	<0.05	7	<0.5
1058898	Soil	7	53	0.94	100	0.125	1	1.56	0.013	0.21	0.1	0.01	3.7	0.1	<0.05	7	<0.5
1058905	Soil	8	55	0.89	81	0.115	2	1.57	0.011	0.20	<0.1	<0.01	3.6	0.2	<0.05	6	<0.5
1058911	Soil	12	59	1.03	119	0.118	1	2.08	0.012	0.24	<0.1	0.01	4.5	0.2	<0.05	7	<0.5
1058913	Soil	15	70	1.14	157	0.119	1	2.58	0.012	0.34	<0.1	0.03	5.4	0.3	<0.05	9	0.7
1058915	Soil	13	60	0.96	115	0.105	1	2.00	0.013	0.24	0.1	0.03	4.7	0.2	<0.05	7	<0.5
1058914	Soil	9	46	0.86	76	0.109	2	1.47	0.018	0.15	0.1	0.02	3.5	0.2	<0.05	5	<0.5
1058916	Soil	11	56	1.01	115	0.119	<1	1.92	0.018	0.21	0.1	0.02	5.0	0.2	<0.05	6	0.8
1058910	Soil	11	62	1.17	117	0.133	1	2.25	0.013	0.27	<0.1	0.01	5.1	0.3	<0.05	7	<0.5
1058912	Soil	12	55	0.86	134	0.124	<1	1.83	0.011	0.25	0.1	0.02	3.9	0.2	<0.05	7	<0.5
1058918	Soil	8	50	0.85	96	0.123	<1	1.65	0.012	0.18	0.1	0.01	3.4	0.1	<0.05	7	0.5
1058917	Soil	8	50	0.89	99	0.132	1	1.67	0.012	0.18	0.1	0.01	3.4	0.1	<0.05	7	<0.5
1061813	Soil	6	56	0.87	260	0.222	<1	2.20	0.020	0.51	0.4	0.01	5.1	0.2	<0.05	7	<0.5
1058889	Soil	15	57	0.97	127	0.107	<1	2.17	0.011	0.27	<0.1	0.03	5.2	0.3	<0.05	7	<0.5
1058897	Soil	12	55	0.92	99	0.118	1	1.78	0.014	0.20	<0.1	0.02	4.4	0.2	<0.05	6	<0.5
1058887	Soil	12	60	1.04	108	0.113	1	2.23	0.011	0.29	0.1	0.01	5.1	0.2	<0.05	7	<0.5
1058891	Soil	16	61	1.13	118	0.121	1	2.31	0.010	0.41	<0.1	0.02	5.5	0.3	<0.05	7	<0.5
1058888	Soil	9	64	1.09	113	0.123	<1	2.17	0.011	0.34	0.1	<0.01	4.9	0.3	<0.05	8	<0.5
1058895	Soil	13	60	1.01	128	0.133	1	2.18	0.014	0.24	0.1	0.03	4.7	0.2	<0.05	7	0.6
1058896	Soil	14	62	1.14	148	0.121	2	2.14	0.021	0.29	<0.1	0.03	6.3	0.3	<0.05	6	0.6
1058894	Soil	12	56	0.96	92	0.113	2	2.10	0.012	0.27	<0.1	0.03	4.5	0.2	<0.05	6	0.6
1058904	Soil	18	79	1.28	187	0.115	1	2.74	0.016	0.28	<0.1	0.03	6.3	0.3	0.05	9	0.7
1058907	Soil	9	67	1.08	107	0.123	2	1.91	0.013	0.29	<0.1	0.02	4.0	0.2	<0.05	6	<0.5
1058908	Soil	12	60	1.05	107	0.106	2	1.98	0.016	0.21	<0.1	0.01	4.5	0.2	<0.05	6	0.7
1058906	Soil	10	61	1.03	113	0.120	1	2.23	0.013	0.15	0.1	0.01	4.6	0.1	<0.05	7	0.6
1058909	Soil	8	63	1.08	80	0.140	1	1.85	0.015	0.24	0.1	<0.01	4.2	0.2	<0.05	7	<0.5
1058899	Soil	9	55	0.97	114	0.112	<1	2.06	0.010	0.26	<0.1	0.02	4.3	0.2	<0.05	7	0.5
1058901	Soil	10	61	1.17	96	0.136	1	1.89	0.018	0.20	<0.1	0.02	3.9	0.2	<0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1058892	Soil	1.5	34.6	9.6	115	0.3	34.7	18.5	742	3.66	12.8	0.8	1.6	2.6	33	0.3	0.5	0.2	87	0.38	0.106
1058893	Soil	1.1	47.9	6.5	89	0.3	42.4	17.2	558	3.61	14.8	0.9	3.8	3.6	32	0.2	0.4	0.2	86	0.37	0.105
1061809	Soil	0.5	34.5	2.7	66	<0.1	35.9	14.6	429	3.17	57.1	0.6	3.9	1.3	16	<0.1	0.1	0.3	98	0.17	0.053
1061802	Soil	0.8	23.5	4.2	56	<0.1	25.5	11.1	357	2.90	34.8	0.8	4.6	1.2	18	<0.1	0.3	0.2	80	0.19	0.053
1061806	Soil	0.5	30.8	3.0	60	<0.1	33.2	13.1	366	3.03	49.4	0.6	11.1	1.8	20	<0.1	0.1	0.2	93	0.22	0.065
1058886	Soil	1.1	46.7	7.1	100	0.4	41.8	17.4	651	3.67	13.6	0.9	1.9	2.4	29	0.2	0.4	0.3	83	0.32	0.083
1061811	Soil	0.6	28.2	4.1	57	0.1	28.0	11.8	313	2.99	42.1	0.6	1.3	1.1	23	<0.1	0.2	0.2	88	0.26	0.065
1061803	Soil	0.5	22.4	2.5	53	<0.1	25.7	10.1	318	2.47	23.3	0.5	1.4	1.5	22	<0.1	<0.1	0.1	73	0.28	0.068
1061808	Soil	0.4	30.9	3.5	59	0.1	32.5	13.5	355	3.10	48.4	0.7	6.9	2.3	14	<0.1	0.2	0.2	90	0.15	0.041
1061801	Soil	0.6	35.1	4.2	68	0.2	32.4	13.1	366	3.26	37.5	0.9	9.7	2.6	31	<0.1	0.2	0.2	93	0.40	0.072
1061804	Soil	0.5	23.4	3.1	60	<0.1	28.4	11.1	364	2.82	22.0	0.6	1.9	1.4	17	<0.1	0.2	0.2	84	0.20	0.060
1061805	Soil	0.5	26.4	3.1	61	<0.1	32.8	13.2	390	3.01	43.7	0.6	5.9	1.8	18	<0.1	0.1	0.2	91	0.24	0.077
1061807	Soil	0.4	29.5	2.9	59	<0.1	33.8	13.1	378	3.10	50.7	0.6	6.8	1.8	19	<0.1	0.1	0.2	92	0.23	0.065
1061810	Soil	0.4	27.0	2.5	56	<0.1	32.4	11.8	374	2.83	38.5	0.6	15.1	1.8	19	<0.1	<0.1	0.1	92	0.21	0.053
1061812	Soil	0.5	25.3	2.8	51	0.3	29.4	12.3	333	2.71	65.6	0.7	30.2	1.9	16	<0.1	0.1	0.2	82	0.17	0.041
1075839	Soil	0.8	50.2	4.6	84	0.2	49.8	16.8	432	3.83	49.5	0.8	3.7	2.6	29	0.2	0.4	0.1	114	0.31	0.099
1075812	Soil	1.2	114.6	5.6	98	0.2	79.7	27.3	560	4.85	30.3	0.8	2.4	1.7	40	0.2	0.3	0.3	131	0.37	0.115
1075834	Soil	0.5	49.9	5.4	96	0.1	61.7	21.6	510	4.38	68.6	0.8	3.3	3.0	26	<0.1	0.3	0.2	124	0.26	0.057
1075835	Soil	0.6	48.2	5.3	95	0.2	62.7	21.2	505	4.22	68.7	0.7	4.6	3.0	26	<0.1	0.3	0.2	122	0.26	0.058
1075836	Soil	0.9	58.5	6.5	106	<0.1	70.4	37.1	620	4.11	87.0	0.8	11.8	3.1	29	0.1	0.6	0.2	91	0.22	0.041
1075837	Soil	1.0	30.8	5.7	82	<0.1	29.4	12.4	401	3.49	16.6	0.7	3.8	1.5	34	<0.1	0.4	0.2	93	0.26	0.063
1075830	Soil	0.8	34.0	6.2	88	<0.1	37.6	15.4	435	3.70	35.8	0.7	1.7	2.7	27	<0.1	0.7	0.2	95	0.22	0.056
1075829	Soil	1.0	44.0	5.5	93	0.1	36.8	15.3	436	4.03	64.0	0.8	0.9	2.9	33	<0.1	0.4	0.2	98	0.22	0.068
1075816	Soil	1.0	37.7	6.6	84	0.1	39.1	15.1	387	3.68	77.5	0.7	2.9	2.6	28	0.1	0.5	0.2	90	0.20	0.060
1075833	Soil	1.1	48.7	5.4	87	<0.1	48.8	18.0	388	3.64	24.4	0.8	2.5	2.5	33	0.1	0.4	0.1	93	0.27	0.055
1075811	Soil	0.7	66.0	2.5	128	<0.1	99.4	31.6	507	5.70	11.9	1.1	2.4	4.3	32	<0.1	0.1	0.1	200	0.31	0.046
1075838	Soil	0.6	42.9	4.2	91	<0.1	50.5	17.8	433	4.17	74.7	0.9	4.4	3.2	26	<0.1	0.2	0.2	129	0.25	0.058
1075832	Soil	1.3	36.3	7.4	93	0.1	35.2	16.8	662	3.63	27.5	0.9	2.5	1.7	35	0.2	0.6	0.2	90	0.33	0.094
1075831	Soil	0.9	36.6	5.8	84	<0.1	35.1	14.4	420	3.66	15.7	0.8	3.0	2.3	33	0.1	0.4	0.2	91	0.24	0.059
1058890	Soil	0.9	69.2	5.3	80	0.2	49.6	15.7	502	3.34	15.9	1.4	3.0	2.5	35	0.5	0.3	0.2	71	0.36	0.094



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1058892	Soil	12	56	0.99	113	0.130	2	1.94	0.014	0.26	0.2	0.02	4.3	0.2	<0.05	7	<0.5	<0.2
1058893	Soil	14	58	1.03	119	0.110	2	2.32	0.019	0.31	<0.1	0.05	5.0	0.2	<0.05	7	<0.5	<0.2
1061809	Soil	6	69	0.98	299	0.245	<1	2.41	0.018	0.75	0.2	0.02	6.1	0.2	0.05	7	<0.5	<0.2
1061802	Soil	7	54	0.80	189	0.186	<1	2.13	0.014	0.44	0.2	0.04	4.0	0.2	<0.05	7	<0.5	<0.2
1061806	Soil	6	60	0.89	306	0.238	<1	2.29	0.019	0.71	0.3	<0.01	5.9	0.2	<0.05	7	<0.5	<0.2
1058886	Soil	12	57	0.92	116	0.104	<1	2.16	0.009	0.28	<0.1	0.03	4.0	0.2	<0.05	7	0.5	<0.2
1061811	Soil	6	60	0.81	246	0.184	<1	2.07	0.012	0.35	0.2	0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1061803	Soil	6	50	0.74	275	0.182	<1	1.80	0.019	0.53	0.2	0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1061808	Soil	7	57	0.89	278	0.231	<1	2.52	0.018	0.63	0.5	0.03	5.8	0.2	<0.05	7	<0.5	<0.2
1061801	Soil	8	66	1.01	385	0.255	<1	2.55	0.022	0.68	0.3	0.03	6.0	0.3	<0.05	8	0.7	<0.2
1061804	Soil	6	58	0.80	261	0.191	<1	2.03	0.017	0.62	0.2	0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1061805	Soil	7	61	0.91	301	0.226	<1	2.48	0.019	0.69	0.3	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1061807	Soil	6	62	0.93	302	0.248	<1	2.33	0.023	0.75	0.3	<0.01	5.9	0.2	<0.05	7	<0.5	<0.2
1061810	Soil	7	70	0.86	328	0.226	<1	2.32	0.020	0.62	0.4	0.02	6.1	0.2	<0.05	7	<0.5	<0.2
1061812	Soil	7	53	0.79	234	0.201	<1	2.29	0.017	0.54	0.5	0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1075839	Soil	10	86	1.27	317	0.161	<1	2.68	0.016	0.57	0.1	0.02	7.6	0.2	<0.05	9	1.0	<0.2
1075812	Soil	9	82	1.44	265	0.163	<1	3.11	0.027	0.52	0.1	0.02	8.1	0.3	0.15	10	0.7	<0.2
1075834	Soil	10	109	1.54	303	0.184	<1	3.11	0.016	0.72	<0.1	0.01	9.1	0.3	<0.05	10	<0.5	<0.2
1075835	Soil	9	112	1.54	302	0.177	<1	2.99	0.014	0.72	0.1	0.02	9.0	0.3	<0.05	10	<0.5	<0.2
1075836	Soil	11	61	1.09	167	0.144	<1	2.47	0.014	0.44	<0.1	0.02	5.8	0.3	0.07	8	<0.5	<0.2
1075837	Soil	8	63	1.04	176	0.130	<1	2.39	0.017	0.42	<0.1	0.03	5.3	0.2	0.10	8	<0.5	<0.2
1075830	Soil	11	64	1.04	169	0.132	<1	2.40	0.017	0.40	0.1	0.02	5.7	0.3	0.09	8	0.7	<0.2
1075829	Soil	11	66	1.15	186	0.137	1	2.64	0.022	0.43	<0.1	0.03	5.8	0.2	0.12	8	<0.5	<0.2
1075816	Soil	10	62	1.07	159	0.104	<1	2.37	0.013	0.34	<0.1	0.03	5.2	0.2	0.05	8	<0.5	<0.2
1075833	Soil	10	59	1.05	180	0.136	<1	2.48	0.018	0.37	<0.1	0.02	5.5	0.3	0.07	9	1.0	<0.2
1075811	Soil	17	195	2.48	762	0.273	<1	3.75	0.027	1.34	<0.1	<0.01	15.0	0.5	0.18	15	<0.5	<0.2
1075838	Soil	12	110	1.52	323	0.192	<1	2.68	0.015	0.76	<0.1	<0.01	8.7	0.3	<0.05	10	<0.5	<0.2
1075832	Soil	9	60	1.06	186	0.096	<1	2.45	0.017	0.25	<0.1	0.04	4.9	0.2	0.10	8	<0.5	<0.2
1075831	Soil	10	64	1.03	159	0.128	<1	2.52	0.019	0.35	<0.1	0.03	5.0	0.2	0.09	8	<0.5	<0.2
1058890	Soil	26	50	0.94	97	0.082	<1	2.10	0.010	0.29	<0.1	0.04	4.3	0.2	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1075818	Soil	0.6	38.0	4.4	83	<0.1	42.7	15.3	417	3.63	25.3	0.8	1.2	2.6	27	<0.1	0.3	0.1	109	0.29	0.072
1075821	Soil	0.8	42.2	4.9	86	<0.1	42.4	16.0	400	3.60	24.0	0.9	1.1	2.5	33	<0.1	0.5	0.1	103	0.28	0.086
1075819	Soil	0.6	41.6	3.8	86	0.1	44.3	16.7	381	3.79	22.5	1.0	1.9	2.9	29	<0.1	0.3	0.1	112	0.29	0.085
1075820	Soil	0.7	48.5	4.7	96	0.1	56.5	21.6	466	4.04	27.3	0.9	4.1	2.9	35	0.2	0.5	0.2	120	0.28	0.082
1075822	Soil	0.8	39.3	5.6	99	<0.1	40.8	15.9	427	3.43	20.8	0.8	2.4	2.7	34	0.2	0.4	0.2	90	0.38	0.104
1075815	Soil	0.9	59.3	4.9	96	0.1	62.5	21.0	513	4.49	36.9	0.8	1.8	2.7	37	0.2	0.2	0.1	135	0.34	0.106
1075814	Soil	1.1	63.5	5.6	84	0.2	58.0	21.8	523	3.95	41.9	0.7	1.1	1.8	33	0.2	0.4	0.2	100	0.31	0.101
1075804	Soil	0.5	63.9	2.5	122	<0.1	135.9	31.9	457	4.92	19.3	1.0	1.6	4.4	29	<0.1	<0.1	0.1	183	0.35	0.074
1075809	Soil	0.8	42.0	4.7	71	<0.1	53.7	20.0	464	3.39	22.2	0.4	5.1	1.5	40	<0.1	0.4	<0.1	71	0.34	0.046
1075808	Soil	1.2	176.0	6.9	117	0.3	154.8	58.6	921	5.44	438.3	0.8	57.9	2.3	63	0.4	0.6	0.2	118	0.38	0.149
1075807	Soil	0.8	96.3	6.8	139	0.1	98.4	40.1	644	5.18	65.5	1.0	4.3	3.0	48	0.3	0.4	0.2	138	0.39	0.103
1075810	Soil	1.0	91.3	5.7	83	<0.1	63.5	24.5	606	4.53	23.2	0.5	7.5	1.5	32	0.3	0.4	0.2	115	0.39	0.116
1075806	Soil	0.8	68.6	5.1	104	0.1	48.6	18.6	473	4.59	45.2	0.8	3.7	2.5	33	0.2	0.3	0.2	121	0.27	0.075
1075805	Soil	1.0	66.5	5.8	102	0.1	40.8	17.4	480	4.22	43.9	0.8	2.2	2.0	30	<0.1	0.3	0.2	116	0.27	0.079
1075813	Soil	1.2	90.2	7.3	99	0.2	68.2	30.1	620	4.43	66.9	0.7	4.6	1.6	35	0.2	0.5	0.2	109	0.37	0.120
1077672	Soil	1.2	80.8	8.5	115	0.3	55.7	24.7	599	4.16	739.6	0.8	18.7	1.1	37	0.4	0.6	0.8	95	0.32	0.064
1077673	Soil	1.1	86.6	7.4	107	0.2	55.4	28.9	680	3.67	502.1	0.7	20.6	1.0	41	0.3	0.6	0.7	90	0.31	0.079
1077666	Soil	1.1	77.9	7.8	96	0.2	52.0	23.5	727	4.48	231.3	0.6	8.1	0.9	55	0.1	0.4	0.4	115	0.38	0.080
1077681	Soil	0.8	49.5	6.2	70	0.2	36.6	17.5	416	3.11	115.3	0.8	4.9	0.7	33	0.2	0.4	0.3	71	0.32	0.108
1077679	Soil	0.6	52.9	3.2	84	0.1	40.2	16.3	468	3.29	139.4	0.5	4.9	1.3	28	0.1	0.2	0.2	93	0.34	0.094
1077684	Soil	1.2	56.4	6.1	69	0.2	34.3	12.8	296	3.15	76.4	0.6	5.4	0.6	24	0.1	0.4	0.2	84	0.23	0.075
1077687	Soil	1.1	45.6	6.6	99	0.2	41.7	20.9	607	3.88	136.0	0.6	9.2	1.9	28	0.1	0.3	0.3	99	0.29	0.063
1076767	Soil	0.8	72.6	7.9	99	0.2	87.0	31.8	723	4.38	86.3	0.7	5.3	1.9	90	0.1	0.3	0.2	110	0.72	0.106
1077682	Soil	1.2	42.4	5.9	61	0.2	26.9	10.9	294	2.96	119.0	0.7	6.8	0.9	26	<0.1	0.4	0.2	81	0.26	0.077
1077676	Soil	1.3	84.1	9.7	123	0.3	52.7	29.5	843	4.14	1430	0.8	32.4	0.9	42	0.6	1.3	1.4	92	0.29	0.089
1077680	Soil	0.9	33.3	5.1	54	0.2	27.3	10.6	255	2.45	76.0	0.5	4.5	0.5	28	<0.1	0.4	0.2	68	0.28	0.077
1075825	Soil	0.6	41.0	6.5	83	<0.1	36.7	12.8	247	3.15	30.4	0.9	4.4	3.2	21	0.1	0.4	0.2	101	0.21	0.071
1075823	Soil	0.8	48.7	5.7	101	<0.1	40.6	16.0	385	3.66	23.8	0.8	9.9	2.4	29	0.2	0.4	0.2	104	0.28	0.098
1075824	Soil	0.8	47.9	6.7	91	0.1	39.5	14.4	281	3.32	19.1	1.0	3.2	2.1	26	0.2	0.4	0.2	104	0.21	0.085
1075817	Soil	1.0	61.2	5.4	97	0.2	51.3	20.0	465	4.34	54.0	0.9	4.6	2.3	32	0.2	0.4	0.2	127	0.28	0.091



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075818	Soil	10	91	1.32	316	0.158	<1	2.48	0.016	0.56	<0.1	<0.01	7.1	0.2	0.05	9	<0.5	<0.2
1075821	Soil	10	78	1.17	305	0.143	<1	2.45	0.016	0.52	<0.1	<0.01	6.9	0.2	0.05	9	<0.5	<0.2
1075819	Soil	11	93	1.33	356	0.163	<1	2.58	0.019	0.65	<0.1	0.02	7.6	0.2	0.09	9	<0.5	<0.2
1075820	Soil	11	98	1.42	350	0.167	<1	2.85	0.019	0.64	<0.1	0.02	8.4	0.2	0.07	10	<0.5	<0.2
1075822	Soil	10	69	1.14	252	0.136	<1	2.24	0.016	0.40	0.1	<0.01	6.0	0.2	0.08	8	0.8	<0.2
1075815	Soil	9	108	1.51	548	0.194	<1	3.07	0.018	0.89	<0.1	0.01	9.5	0.3	0.06	10	<0.5	<0.2
1075814	Soil	8	65	1.10	207	0.132	<1	2.49	0.020	0.36	<0.1	0.02	6.2	0.2	0.09	8	0.9	<0.2
1075804	Soil	18	215	2.35	557	0.253	<1	3.36	0.017	1.11	<0.1	0.01	13.4	0.5	0.08	15	<0.5	<0.2
1075809	Soil	6	65	1.20	181	0.158	<1	2.57	0.037	0.31	<0.1	0.01	3.8	0.2	<0.05	7	<0.5	<0.2
1075808	Soil	9	75	1.24	224	0.154	2	3.00	0.017	0.49	0.2	0.02	8.7	0.3	<0.05	9	0.6	<0.2
1075807	Soil	11	101	1.62	344	0.193	<1	3.48	0.020	0.73	0.1	0.01	11.1	0.3	0.05	11	0.5	<0.2
1075810	Soil	6	75	1.27	213	0.152	<1	2.68	0.023	0.40	0.1	0.02	7.5	0.3	0.08	8	<0.5	<0.2
1075806	Soil	9	87	1.41	322	0.186	1	3.00	0.027	0.65	0.1	0.01	9.6	0.3	0.11	10	<0.5	<0.2
1075805	Soil	8	73	1.32	249	0.169	1	2.89	0.025	0.53	0.5	0.02	8.0	0.3	0.13	9	<0.5	<0.2
1075813	Soil	8	67	1.12	216	0.140	1	2.56	0.020	0.39	0.1	0.03	7.3	0.2	0.08	8	<0.5	<0.2
1077672	Soil	8	63	0.97	198	0.146	2	2.63	0.015	0.28	0.2	0.04	5.2	0.2	<0.05	9	0.6	<0.2
1077673	Soil	7	59	0.93	199	0.145	2	2.45	0.020	0.28	0.1	0.03	5.2	0.2	<0.05	8	<0.5	<0.2
1077666	Soil	6	78	1.17	318	0.175	1	2.96	0.018	0.47	0.2	0.02	6.9	0.3	0.06	10	<0.5	<0.2
1077681	Soil	8	61	0.80	195	0.111	2	2.16	0.015	0.13	0.2	0.04	4.8	0.2	0.08	7	<0.5	<0.2
1077679	Soil	5	67	0.98	280	0.207	<1	2.37	0.025	0.57	0.2	<0.01	6.7	0.2	<0.05	8	<0.5	<0.2
1077684	Soil	7	54	0.80	143	0.125	1	2.22	0.015	0.20	0.1	0.02	4.7	0.2	0.06	7	<0.5	<0.2
1077687	Soil	7	67	1.07	224	0.194	2	2.86	0.016	0.45	0.3	0.02	6.5	0.2	<0.05	10	<0.5	<0.2
1076767	Soil	7	140	1.92	324	0.188	2	3.53	0.078	0.61	0.1	0.02	6.5	0.3	<0.05	10	<0.5	<0.2
1077682	Soil	7	50	0.82	158	0.139	2	2.26	0.017	0.16	0.2	0.03	4.8	0.2	0.05	8	<0.5	<0.2
1077676	Soil	7	61	0.96	237	0.115	2	2.66	0.018	0.25	0.1	0.04	5.1	0.2	0.09	9	0.6	<0.2
1077680	Soil	5	45	0.59	163	0.103	2	1.43	0.016	0.13	0.2	0.03	3.5	0.1	0.05	6	<0.5	<0.2
1075825	Soil	11	79	1.18	230	0.164	<1	2.87	0.011	0.39	0.1	0.02	8.2	0.2	<0.05	9	<0.5	<0.2
1075823	Soil	9	74	1.20	244	0.155	2	2.49	0.017	0.43	0.1	<0.01	7.3	0.2	0.05	9	<0.5	<0.2
1075824	Soil	10	79	1.24	207	0.142	1	2.76	0.016	0.34	<0.1	0.02	7.4	0.3	0.09	9	0.6	<0.2
1075817	Soil	9	93	1.39	372	0.171	1	2.90	0.019	0.63	0.1	0.01	9.5	0.3	0.07	10	0.6	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1077689	Soil	0.9	47.7	6.8	99	0.2	38.8	16.9	588	3.90	188.2	0.5	13.5	1.6	28	0.1	0.6	0.3	100	0.30	0.066
1077694	Soil	0.6	46.6	4.7	103	0.2	44.0	15.4	540	3.85	199.4	0.5	9.9	1.3	25	0.2	0.3	0.3	118	0.32	0.110
1077685	Soil	0.8	47.9	4.5	78	0.3	37.8	14.0	404	3.26	144.8	0.6	14.5	1.4	34	<0.1	0.3	0.3	94	0.37	0.100
1077677	Soil	0.8	61.6	5.7	86	0.1	43.7	19.8	586	3.57	628.5	0.6	13.2	1.0	29	0.1	0.5	0.6	95	0.24	0.075
1077667	Soil	0.4	55.3	6.7	78	<0.1	44.1	18.7	546	3.33	93.5	0.3	9.5	1.0	153	0.1	0.2	0.2	102	0.45	0.104
1076769	Soil	1.2	65.8	14.4	101	0.2	71.1	27.6	694	4.54	163.8	1.2	6.9	2.4	59	0.2	0.4	0.3	116	0.47	0.062
1076766	Soil	1.0	73.2	8.1	99	0.2	86.4	32.0	741	4.47	86.6	0.7	6.5	1.9	90	0.1	0.3	0.2	113	0.71	0.112
1076768	Soil	1.3	68.9	12.5	113	0.2	68.0	28.3	743	4.45	101.2	1.0	7.8	2.5	50	0.3	0.4	0.3	122	0.36	0.092
1077670	Soil	0.6	49.4	7.4	82	0.1	73.4	31.1	624	4.01	167.7	0.4	3.7	1.4	143	0.2	0.2	0.2	107	1.10	0.175
1077669	Soil	1.2	60.0	7.9	89	0.2	58.3	30.7	739	3.85	182.4	0.6	8.4	0.7	60	0.3	0.3	0.3	98	0.54	0.088
1077674	Soil	1.4	48.1	7.2	81	0.2	27.7	13.2	394	3.12	343.7	0.7	12.7	0.7	30	0.3	0.5	0.4	81	0.22	0.057
1077668	Soil	1.0	63.5	7.4	100	0.1	56.4	25.6	650	4.00	324.8	0.6	11.1	1.2	42	0.2	0.3	0.5	107	0.36	0.079
1077671	Soil	0.4	43.6	6.8	65	<0.1	62.1	24.7	499	3.68	102.5	0.4	3.9	1.4	124	<0.1	0.2	0.1	107	0.99	0.179
1077675	Soil	1.2	80.7	6.1	81	0.2	45.9	17.2	464	3.65	453.8	0.7	14.3	1.1	41	0.1	0.4	0.4	90	0.33	0.094
1077678	Soil	1.5	70.7	6.7	107	0.2	49.4	31.2	894	3.93	536.7	0.7	9.8	0.8	34	0.3	0.5	0.4	100	0.31	0.079
1077763	Soil	1.0	31.6	6.4	95	0.4	34.9	14.7	377	3.78	58.6	0.4	10.4	0.9	31	0.3	0.3	0.2	107	0.31	0.044
1077758	Soil	0.7	36.0	4.3	67	<0.1	37.4	14.2	333	3.28	38.4	0.4	5.9	1.0	25	<0.1	0.2	0.2	105	0.31	0.096
1077757	Soil	0.7	25.8	4.1	71	0.1	29.6	13.0	348	2.61	55.0	0.4	26.4	1.2	47	0.2	0.2	0.2	73	0.49	0.124
1077754	Soil	0.6	30.5	3.8	67	<0.1	33.2	12.4	345	3.00	39.0	0.4	10.6	1.3	25	<0.1	0.2	0.1	91	0.33	0.101
1077756	Soil	0.6	26.7	3.9	67	<0.1	31.0	12.9	368	2.92	41.8	0.4	10.5	1.4	22	0.1	0.2	0.1	83	0.30	0.094
1077761	Soil	0.8	29.0	4.3	69	0.2	31.7	15.0	435	3.00	48.6	0.5	4.7	1.4	41	<0.1	0.2	0.1	87	0.43	0.100
1077695	Soil	1.0	47.3	5.7	83	0.3	40.2	15.6	602	3.51	149.5	0.5	10.7	0.7	19	0.2	0.3	0.2	101	0.24	0.071
1077693	Soil	0.9	39.2	5.0	104	0.4	36.6	15.7	505	3.25	167.9	0.4	12.8	1.0	34	0.3	0.4	0.2	85	0.38	0.092
1077696	Soil	0.7	35.0	4.2	69	0.1	36.4	12.2	323	3.18	125.0	0.4	9.8	1.3	17	0.1	0.2	0.2	90	0.27	0.084
1077688	Soil	1.1	41.0	6.0	91	0.2	37.8	16.7	551	3.60	169.4	0.5	24.9	1.3	26	0.1	0.5	0.2	97	0.32	0.062
1077690	Soil	1.2	46.8	6.2	108	0.4	43.2	22.3	658	3.96	277.8	0.6	13.7	0.9	44	0.2	0.5	0.4	104	0.41	0.090
1077683	Soil	1.1	35.5	4.7	51	0.2	23.6	8.8	208	2.52	58.0	0.5	4.5	0.7	19	<0.1	0.3	0.1	75	0.19	0.052
1077691	Soil	0.7	26.1	3.9	61	0.2	28.8	12.5	323	2.52	104.0	0.4	4.8	0.9	33	0.2	0.3	0.2	71	0.41	0.075
1077686	Soil	0.9	40.4	4.5	65	0.1	35.2	13.7	316	3.01	79.8	0.5	5.3	1.0	24	0.1	0.2	0.2	79	0.24	0.045
1077692	Soil	0.7	35.5	4.3	82	0.2	36.6	13.7	410	3.09	145.9	0.4	9.4	1.1	28	0.1	0.4	0.2	86	0.34	0.081



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1077689	Soil	7	63	1.04	232	0.184	<1	2.62	0.014	0.47	0.4	0.01	6.4	0.2	<0.05	9	<0.5
1077694	Soil	5	81	1.15	356	0.240	1	2.69	0.017	1.04	0.2	<0.01	9.3	0.3	<0.05	10	<0.5
1077685	Soil	6	63	0.96	251	0.187	<1	2.33	0.022	0.53	0.2	0.01	6.3	0.2	<0.05	8	<0.5
1077677	Soil	6	62	0.90	241	0.162	1	2.43	0.018	0.31	0.1	0.02	5.9	0.2	0.06	8	<0.5
1077667	Soil	4	67	1.09	383	0.180	1	2.80	0.017	0.78	0.1	<0.01	7.3	0.3	<0.05	8	<0.5
1076769	Soil	9	159	1.67	247	0.164	2	3.07	0.018	0.39	0.1	0.03	5.8	0.3	0.05	10	<0.5
1076766	Soil	7	138	2.05	327	0.181	1	3.73	0.077	0.62	0.1	0.02	6.4	0.3	<0.05	11	<0.5
1076768	Soil	8	128	1.56	280	0.170	<1	2.89	0.018	0.39	0.1	0.04	7.1	0.3	0.07	10	<0.5
1077670	Soil	8	180	2.48	472	0.285	1	3.47	0.130	0.98	<0.1	0.01	3.7	0.4	<0.05	10	0.6
1077669	Soil	7	114	1.57	208	0.154	1	2.70	0.028	0.24	0.1	0.03	3.7	0.3	0.09	9	0.6
1077674	Soil	6	46	0.66	131	0.112	2	2.11	0.016	0.17	0.2	0.07	3.5	0.2	0.07	8	<0.5
1077668	Soil	7	90	1.33	243	0.186	<1	2.71	0.019	0.44	0.2	0.03	5.8	0.3	<0.05	9	<0.5
1077671	Soil	9	191	2.28	457	0.280	2	3.00	0.106	0.92	0.1	<0.01	3.3	0.4	<0.05	9	<0.5
1077675	Soil	7	50	0.91	172	0.148	1	2.49	0.019	0.34	0.2	0.03	5.1	0.2	0.07	8	0.5
1077678	Soil	6	68	0.92	248	0.151	<1	2.52	0.019	0.38	0.1	0.06	5.2	0.2	0.09	9	<0.5
1077763	Soil	5	65	0.91	238	0.193	2	2.26	0.011	0.52	0.2	0.02	5.3	0.2	<0.05	9	<0.5
1077758	Soil	5	66	0.97	289	0.162	<1	2.30	0.010	0.46	0.2	0.02	7.0	0.3	<0.05	8	<0.5
1077757	Soil	5	50	0.81	335	0.144	1	1.81	0.016	0.48	0.4	0.02	4.1	0.2	<0.05	6	<0.5
1077754	Soil	5	63	0.94	276	0.171	<1	2.15	0.013	0.56	0.2	0.02	5.9	0.2	<0.05	7	<0.5
1077756	Soil	5	58	0.89	268	0.156	<1	2.14	0.013	0.51	0.2	0.01	5.6	0.2	<0.05	7	<0.5
1077761	Soil	6	59	0.89	326	0.163	<1	2.15	0.017	0.43	0.2	0.02	5.1	0.2	<0.05	7	<0.5
1077695	Soil	5	66	0.89	245	0.155	<1	2.45	0.011	0.42	0.1	0.02	6.2	0.2	<0.05	8	<0.5
1077693	Soil	5	58	0.85	228	0.144	1	2.24	0.013	0.51	0.2	0.03	5.2	0.2	<0.05	7	<0.5
1077696	Soil	5	60	0.89	211	0.179	<1	2.24	0.012	0.51	0.2	0.02	5.9	0.2	<0.05	8	<0.5
1077688	Soil	6	65	0.98	222	0.167	<1	2.45	0.015	0.44	0.2	0.02	5.7	0.2	<0.05	8	<0.5
1077690	Soil	6	68	0.99	280	0.158	2	2.62	0.016	0.55	0.2	0.03	6.2	0.2	<0.05	9	<0.5
1077683	Soil	5	44	0.58	131	0.122	<1	1.53	0.012	0.15	0.1	0.02	3.6	0.1	<0.05	6	<0.5
1077691	Soil	4	45	0.69	172	0.131	<1	1.59	0.015	0.42	0.2	0.03	4.1	0.1	<0.05	6	<0.5
1077686	Soil	6	53	0.76	157	0.148	<1	2.37	0.014	0.30	0.2	0.03	4.5	0.1	<0.05	7	<0.5
1077692	Soil	5	61	0.88	238	0.159	<1	2.11	0.016	0.57	0.2	0.02	5.7	0.2	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1077740	Soil	0.7	41.0	5.1	65	0.2	39.8	14.2	364	3.34	56.1	0.5	5.2	1.2	20	<0.1	0.3	0.2	101	0.21	0.057
1077729	Soil	1.0	44.0	6.8	68	0.2	33.5	11.4	263	3.57	72.0	0.6	115.6	1.3	22	<0.1	0.5	0.2	102	0.20	0.067
1077743	Soil	0.8	50.7	5.5	79	0.1	47.6	17.4	408	3.81	60.7	0.5	9.6	1.4	24	<0.1	0.3	0.2	112	0.19	0.041
1077746	Soil	1.0	44.8	5.3	70	0.1	45.6	15.3	364	3.33	107.6	0.4	19.1	1.4	30	<0.1	0.3	0.2	95	0.30	0.075
1077753	Soil	0.5	30.5	3.2	63	<0.1	32.5	11.7	339	2.84	37.6	0.4	6.6	1.5	26	<0.1	0.2	<0.1	84	0.35	0.102
1077755	Soil	0.4	29.4	2.8	61	<0.1	31.3	11.6	334	2.61	44.3	0.4	10.1	1.4	34	<0.1	0.1	<0.1	79	0.34	0.114
1077736	Soil	0.7	43.9	5.9	80	0.1	41.1	15.4	412	3.70	58.2	0.4	18.5	1.2	25	0.1	0.4	0.2	109	0.24	0.057
1077739	Soil	0.8	39.3	5.3	61	0.2	37.7	13.5	329	3.32	69.0	0.5	15.3	1.0	19	<0.1	0.4	0.1	97	0.17	0.054
1077730	Soil	0.6	34.8	4.1	67	<0.1	38.6	14.4	370	3.23	53.7	0.4	3.5	1.7	23	<0.1	0.2	0.1	97	0.26	0.082
1077731	Soil	1.3	37.4	6.3	62	0.2	31.7	13.4	359	3.12	48.7	0.7	4.8	0.7	27	0.2	0.4	0.2	87	0.26	0.081
1077759	Soil	0.9	26.0	4.6	64	<0.1	27.9	13.6	348	2.86	53.6	0.5	2.9	1.5	43	<0.1	0.2	0.1	81	0.39	0.079
1077760	Soil	0.8	34.6	4.4	77	0.2	33.8	15.1	451	3.04	56.8	0.4	5.4	1.2	50	0.1	0.2	0.1	92	0.50	0.095
1077765	Soil	0.5	31.5	3.2	63	<0.1	33.8	12.8	333	2.93	44.8	0.4	5.7	1.2	40	<0.1	0.1	<0.1	89	0.40	0.085
1077764	Soil	0.9	34.0	5.9	73	0.1	36.4	17.8	521	3.75	91.6	0.5	5.9	1.7	28	<0.1	0.2	0.2	107	0.35	0.053
1077762	Soil	0.7	33.0	3.7	65	0.1	36.1	14.0	355	3.09	53.9	0.5	47.6	1.6	42	<0.1	0.2	0.1	88	0.44	0.094
1077745	Soil	1.4	118.3	7.7	74	0.4	55.9	56.1	801	3.44	63.1	0.8	11.0	1.5	31	0.5	0.3	0.2	89	0.33	0.063
1077748	Soil	1.0	34.1	4.8	67	0.2	36.1	13.3	306	3.09	54.9	0.4	16.5	1.5	27	<0.1	0.3	0.1	86	0.32	0.076
1077737	Soil	0.8	41.0	5.7	68	<0.1	42.5	15.1	404	3.41	60.8	0.5	15.7	1.4	22	0.1	0.3	0.1	99	0.24	0.070
1077732	Soil	0.9	37.3	6.3	65	0.2	35.5	13.8	364	3.25	43.1	0.6	4.3	1.2	24	0.2	0.4	0.2	94	0.22	0.051
1077752	Soil	0.8	38.3	4.7	72	0.2	40.5	14.8	378	3.25	57.6	0.5	9.4	1.6	34	0.1	0.3	0.2	91	0.36	0.096
1077738	Soil	0.7	44.9	4.4	70	<0.1	46.3	14.8	364	3.65	91.1	0.4	18.3	1.1	21	0.1	0.4	0.1	102	0.15	0.055
1077742	Soil	0.7	46.9	4.8	79	0.2	45.8	16.3	416	3.85	63.2	0.4	9.6	1.5	23	0.1	0.3	0.2	104	0.18	0.065
1077733	Soil	1.0	39.4	5.8	76	<0.1	38.5	15.0	440	3.79	67.6	0.4	3.7	1.3	25	0.2	0.4	0.2	99	0.22	0.072
1077741	Soil	0.9	53.3	6.0	81	0.2	48.0	15.1	397	4.15	64.9	0.6	19.7	1.3	28	0.1	0.4	0.2	112	0.21	0.057
1077749	Soil	1.1	41.6	5.2	87	0.1	41.3	15.2	417	3.80	86.8	0.4	14.3	1.4	39	<0.1	0.3	0.2	104	0.35	0.076
1077751	Soil	0.9	40.0	4.1	84	0.1	41.8	15.9	425	3.57	62.2	0.3	11.4	1.1	27	<0.1	0.2	0.1	98	0.31	0.106
1077750	Soil	0.7	38.3	3.9	79	<0.1	39.9	14.9	402	3.42	59.6	0.3	7.3	1.2	27	<0.1	0.1	0.1	95	0.30	0.101
1077735	Soil	0.7	42.2	5.9	78	<0.1	37.5	15.0	433	3.69	62.2	0.4	13.4	1.3	22	0.1	0.4	0.1	96	0.19	0.067
1077747	Soil	1.0	43.0	5.4	74	0.3	41.0	14.2	373	3.58	80.3	0.4	9.4	1.5	28	0.1	0.3	0.2	92	0.27	0.066



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077740	Soil	5	66	0.94	264	0.159	<1	2.21	0.011	0.59	0.2	0.03	6.9	0.3	<0.05	8	<0.5	<0.2
1077729	Soil	6	63	0.88	173	0.145	<1	2.25	0.009	0.43	0.2	0.05	6.1	0.3	<0.05	8	<0.5	<0.2
1077743	Soil	5	74	1.11	266	0.180	<1	2.51	0.012	0.68	0.1	0.02	7.7	0.3	<0.05	9	<0.5	<0.2
1077746	Soil	5	68	0.95	238	0.160	<1	2.08	0.012	0.56	0.2	0.02	6.0	0.2	<0.05	7	<0.5	<0.2
1077753	Soil	5	59	0.90	273	0.157	<1	1.98	0.014	0.59	0.2	0.01	5.8	0.2	<0.05	6	<0.5	<0.2
1077755	Soil	5	56	0.85	356	0.149	<1	1.86	0.017	0.60	0.2	0.01	5.4	0.2	<0.05	6	<0.5	<0.2
1077736	Soil	5	68	1.02	254	0.173	<1	2.45	0.012	0.66	0.1	0.02	7.0	0.3	<0.05	8	<0.5	<0.2
1077739	Soil	5	66	0.92	211	0.133	<1	2.28	0.011	0.50	0.1	0.03	6.3	0.2	<0.05	8	<0.5	<0.2
1077730	Soil	6	73	1.03	235	0.146	<1	2.21	0.011	0.54	0.1	0.01	6.7	0.3	<0.05	7	<0.5	<0.2
1077731	Soil	6	57	0.77	190	0.101	<1	1.87	0.010	0.37	0.2	0.05	4.5	0.2	<0.05	6	0.7	<0.2
1077759	Soil	6	57	0.88	338	0.168	<1	1.97	0.018	0.47	0.2	0.02	4.6	0.2	<0.05	7	<0.5	<0.2
1077760	Soil	5	58	0.84	331	0.163	<1	2.13	0.020	0.46	0.2	0.02	4.8	0.2	<0.05	7	<0.5	<0.2
1077765	Soil	5	63	0.90	366	0.200	<1	2.13	0.024	0.60	0.2	<0.01	5.9	0.2	<0.05	7	<0.5	<0.2
1077764	Soil	6	70	1.08	291	0.212	<1	2.55	0.019	0.59	0.2	0.02	6.2	0.2	<0.05	8	<0.5	<0.2
1077762	Soil	7	67	1.02	437	0.191	<1	2.22	0.021	0.60	0.2	0.01	5.4	0.2	<0.05	7	<0.5	<0.2
1077745	Soil	7	58	0.79	188	0.144	1	2.35	0.012	0.36	0.2	0.03	5.1	0.2	<0.05	7	<0.5	<0.2
1077748	Soil	6	57	0.85	201	0.153	<1	1.98	0.013	0.44	0.2	0.02	5.3	0.2	<0.05	7	<0.5	<0.2
1077737	Soil	6	66	0.97	224	0.153	<1	2.32	0.011	0.58	0.1	0.03	6.5	0.3	<0.05	8	<0.5	<0.2
1077732	Soil	6	62	0.86	227	0.133	<1	2.19	0.011	0.46	0.1	0.03	5.5	0.2	<0.05	7	<0.5	<0.2
1077752	Soil	6	61	0.93	323	0.150	<1	2.31	0.015	0.60	0.2	0.02	5.9	0.2	<0.05	7	0.6	<0.2
1077738	Soil	4	74	1.11	252	0.142	<1	2.54	0.013	0.76	0.2	<0.01	9.9	0.3	<0.05	9	0.8	<0.2
1077742	Soil	6	71	1.14	257	0.156	1	2.66	0.014	0.70	0.2	0.03	10.1	0.2	<0.05	9	0.8	<0.2
1077733	Soil	5	64	1.04	209	0.136	<1	2.43	0.013	0.59	0.2	0.02	8.7	0.2	<0.05	8	<0.5	<0.2
1077741	Soil	6	76	1.18	292	0.155	<1	2.70	0.015	0.68	0.2	0.02	10.2	0.3	<0.05	10	0.6	<0.2
1077749	Soil	6	71	1.13	325	0.181	<1	2.62	0.017	0.64	0.3	0.02	9.3	0.3	<0.05	9	<0.5	<0.2
1077751	Soil	4	68	1.07	277	0.169	<1	2.45	0.014	0.81	0.2	<0.01	10.1	0.3	<0.05	9	0.7	<0.2
1077750	Soil	4	65	1.01	265	0.162	<1	2.32	0.014	0.75	0.2	<0.01	9.6	0.2	<0.05	8	1.0	<0.2
1077735	Soil	5	60	1.00	204	0.148	<1	2.35	0.013	0.61	<0.1	0.02	8.9	0.2	<0.05	8	0.8	<0.2
1077747	Soil	5	64	0.96	210	0.147	<1	2.24	0.014	0.54	0.2	0.02	8.0	0.2	<0.05	8	0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

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Project:

SAP

Report Date:

September 06, 2011

Page:

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Part 1

QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
	Soil			1.3	111.9	7.4	152	0.1	129.8	40.0	639	5.14	41.9	1.0	4.1	4.1	28	0.2	0.3	0.2	120	0.27	0.092
	QC			1.4	120.7	7.8	157	0.1	136.1	41.4	672	5.37	43.6	1.0	7.5	4.3	28	0.2	0.3	0.2	124	0.27	0.095
	Soil			1.2	123.5	4.7	156	0.2	98.3	39.2	590	5.98	30.3	1.5	2.2	5.4	51	0.2	0.2	0.2	147	0.35	0.100
	QC			1.3	127.0	5.0	164	0.2	100.4	40.0	618	6.14	31.7	1.5	3.1	5.5	54	0.1	0.3	0.2	159	0.37	0.099
	Soil			0.8	90.2	5.3	113	0.2	96.2	33.1	505	5.28	26.9	1.1	11.1	2.5	71	<0.1	0.2	0.2	162	0.38	0.090
	QC			0.9	89.5	5.4	109	0.2	97.2	32.7	503	5.26	26.7	1.1	2.5	2.6	71	<0.1	0.2	0.2	161	0.38	0.088
	Soil			1.1	121.5	5.4	56	0.2	76.2	29.2	420	4.38	26.5	0.7	7.3	1.2	41	0.2	0.2	0.2	124	0.28	0.097
	QC			1.0	123.6	5.5	58	0.2	77.7	29.6	424	4.46	26.7	0.7	13.3	1.2	42	0.2	0.1	0.2	125	0.29	0.097
	Soil			0.9	20.0	6.1	60	0.2	25.0	12.8	190	3.22	36.8	0.3	3.7	1.3	15	0.2	0.2	0.2	84	0.19	0.024
	QC			0.9	19.1	6.4	58	0.1	24.1	12.9	198	3.22	36.8	0.4	5.0	1.4	16	0.2	0.2	0.2	84	0.19	0.025
	Soil			0.7	48.7	4.0	83	0.2	50.6	19.0	341	3.63	8.1	0.6	0.7	1.3	28	0.5	0.1	0.1	118	0.29	0.063
	QC			0.7	48.3	4.1	84	0.2	52.5	18.9	337	3.68	8.2	0.6	2.6	1.2	28	0.5	<0.1	0.1	118	0.29	0.066
	Soil			1.0	38.2	5.1	87	0.1	36.7	12.7	427	3.16	22.4	0.6	1.9	1.4	27	0.2	0.3	0.1	78	0.32	0.085
	QC			0.9	38.4	5.0	88	0.1	37.3	12.7	411	3.02	23.4	0.6	1.9	1.4	28	0.1	0.3	0.1	74	0.32	0.092
	Soil			0.9	39.9	7.8	80	0.1	41.5	16.5	651	3.27	15.5	0.6	365.3	2.2	30	0.2	0.4	0.1	87	0.43	0.096
	QC			0.9	43.0	7.9	82	<0.1	42.4	17.6	685	3.44	16.3	0.7	1.4	2.3	31	0.2	0.4	0.1	89	0.44	0.099
	Soil			0.4	30.9	3.5	59	0.1	32.5	13.5	355	3.10	48.4	0.7	6.9	2.3	14	<0.1	0.2	0.2	90	0.15	0.041
	QC			0.4	31.8	3.5	61	0.1	34.3	14.3	383	3.29	50.7	0.7	10.9	2.3	15	<0.1	0.2	0.2	97	0.15	0.042
	Soil			1.0	44.0	5.5	93	0.1	36.8	15.3	436	4.03	64.0	0.8	0.9	2.9	33	<0.1	0.4	0.2	98	0.22	0.068
	QC			0.9	42.6	5.1	91	0.1	35.9	14.2	433	3.91	61.7	0.7	2.3	2.8	31	<0.1	0.4	0.2	95	0.22	0.061
	Soil			1.2	56.4	6.1	69	0.2	34.3	12.8	296	3.15	76.4	0.6	5.4	0.6	24	0.1	0.4	0.2	84	0.23	0.075
	QC			1.1	55.0	6.0	68	0.2	33.8	12.6	293	3.12	75.6	0.6	6.8	0.6	23	0.1	0.4	0.2	84	0.22	0.072
	Soil			1.3	68.9	12.5	113	0.2	68.0	28.3	743	4.45	101.2	1.0	7.8	2.5	50	0.3	0.4	0.3	122	0.36	0.092
	QC			1.1	68.9	12.7	116	0.2	66.7	29.1	746	4.43	100.4	1.1	16.9	2.5	49	0.3	0.4	0.3	123	0.38	0.095
	Soil			0.7	26.1	3.9	61	0.2	28.8	12.5	323	2.52	104.0	0.4	4.8	0.9	33	0.2	0.3	0.2	71	0.41	0.075
	QC			0.8	27.0	4.1	63	0.2	30.3	12.9	333	2.61	106.0	0.4	8.1	1.0	35	0.2	0.3	0.2	72	0.42	0.079
	Soil			0.8	41.0	5.7	68	<0.1	42.5	15.1	404	3.41	60.8	0.5	15.7	1.4	22	0.1	0.3	0.1	99	0.24	0.070
	QC			0.7	41.7	5.9	68	<0.1	43.6	14.9	397	3.38	60.7	0.5	12.1	1.4	22	0.1	0.4	0.1	98	0.24	0.071



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Soil Geochemistry

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Project: SAP
Report Date: September 06, 2011

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QUALITY CONTROL REPORT

WHI11000959.1

Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1070210	Soil	17	132	1.98	302	0.189	<1	3.42	0.014	0.65	0.1	0.02	8.6	0.4	0.07	11	0.7	<0.2
REP 1070210	QC	18	137	2.02	301	0.194	<1	3.54	0.014	0.67	0.1	0.01	8.7	0.4	0.09	11	1.1	<0.2
1070208	Soil	21	127	2.03	486	0.199	<1	3.83	0.026	1.10	0.1	0.01	11.2	0.5	0.18	13	0.8	<0.2
REP 1070208	QC	21	131	2.19	496	0.205	<1	4.01	0.030	1.17	0.1	0.01	11.5	0.5	0.19	13	0.7	<0.2
1064101	Soil	10	151	2.14	687	0.206	<1	3.90	0.028	1.30	<0.1	0.01	13.3	0.4	0.10	13	<0.5	<0.2
REP 1064101	QC	10	153	2.09	693	0.199	<1	3.80	0.029	1.28	<0.1	<0.01	13.2	0.4	0.07	13	0.5	<0.2
1064115	Soil	6	88	1.40	393	0.144	<1	2.95	0.015	0.88	1.0	0.03	8.6	0.4	0.06	9	0.7	<0.2
REP 1064115	QC	6	90	1.47	393	0.145	<1	3.07	0.016	0.91	0.8	0.03	8.6	0.4	0.05	9	0.6	<0.2
1061832	Soil	5	57	0.70	99	0.152	<1	2.03	0.009	0.12	0.2	<0.01	3.5	0.1	0.05	7	<0.5	<0.2
REP 1061832	QC	5	57	0.73	99	0.155	<1	2.07	0.009	0.12	0.1	<0.01	3.7	0.2	<0.05	8	<0.5	<0.2
1058878	Soil	6	100	1.26	398	0.160	<1	2.51	0.019	0.78	0.1	0.05	8.7	0.3	0.07	9	<0.5	<0.2
REP 1058878	QC	6	103	1.25	393	0.160	1	2.43	0.019	0.80	0.1	0.06	8.8	0.3	0.07	9	<0.5	<0.2
1058902	Soil	9	59	0.91	118	0.090	<1	1.93	0.011	0.16	<0.1	0.01	4.0	0.2	<0.05	7	<0.5	<0.2
REP 1058902	QC	9	53	0.97	116	0.087	1	1.96	0.011	0.17	<0.1	0.02	3.9	0.2	<0.05	7	<0.5	<0.2
1058901	Soil	10	61	1.17	96	0.136	1	1.89	0.018	0.20	<0.1	0.02	3.9	0.2	<0.05	6	<0.5	<0.2
REP 1058901	QC	10	49	1.23	102	0.139	1	2.03	0.019	0.21	<0.1	0.01	4.0	0.2	<0.05	6	0.7	<0.2
1061808	Soil	7	57	0.89	278	0.231	<1	2.52	0.018	0.63	0.5	0.03	5.8	0.2	<0.05	7	<0.5	<0.2
REP 1061808	QC	8	63	0.95	303	0.246	<1	2.60	0.018	0.70	0.5	<0.01	6.0	0.3	<0.05	8	<0.5	<0.2
1075829	Soil	11	66	1.15	186	0.137	1	2.64	0.022	0.43	<0.1	0.03	5.8	0.2	0.12	8	<0.5	<0.2
REP 1075829	QC	10	66	1.12	175	0.129	<1	2.51	0.020	0.41	<0.1	0.02	5.6	0.3	0.10	8	<0.5	<0.2
1077684	Soil	7	54	0.80	143	0.125	1	2.22	0.015	0.20	0.1	0.02	4.7	0.2	0.06	7	<0.5	<0.2
REP 1077684	QC	6	56	0.78	147	0.120	<1	2.10	0.014	0.19	0.1	0.02	4.6	0.2	<0.05	7	<0.5	<0.2
1076768	Soil	8	128	1.56	280	0.170	<1	2.89	0.018	0.39	0.1	0.04	7.1	0.3	0.07	10	<0.5	<0.2
REP 1076768	QC	9	130	1.65	286	0.175	2	3.09	0.020	0.40	0.1	0.04	6.8	0.3	0.07	10	<0.5	<0.2
1077691	Soil	4	45	0.69	172	0.131	<1	1.59	0.015	0.42	0.2	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
REP 1077691	QC	5	47	0.71	178	0.135	<1	1.66	0.015	0.42	0.3	0.04	4.2	0.2	<0.05	6	<0.5	<0.2
1077737	Soil	6	66	0.97	224	0.153	<1	2.32	0.011	0.58	0.1	0.03	6.5	0.3	<0.05	8	<0.5	<0.2
REP 1077737	QC	6	65	0.97	224	0.154	<1	2.34	0.011	0.58	0.1	0.03	6.4	0.3	<0.05	8	<0.5	<0.2



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Report Date:

September 06, 2011

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Part 1

QUALITY CONTROL REPORT

WHI11000959.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																					
STD DS8	Standard	13.5	101.1	121.4	308	1.7	35.9	7.3	601	2.37	25.1	2.7	106.9	6.9	65	2.2	5.4	6.4	41	0.70	0.078
STD DS8	Standard	12.0	105.9	121.0	300	1.7	34.9	7.2	570	2.32	25.0	2.6	108.1	6.4	60	2.1	5.4	6.0	39	0.65	0.079
STD DS8	Standard	13.2	111.9	123.3	300	1.8	37.9	7.8	624	2.48	21.1	2.4	113.1	7.1	55	1.9	4.4	5.2	41	0.68	0.075
STD DS8	Standard	12.9	101.6	123.3	309	1.9	36.7	7.5	600	2.46	24.8	2.7	110.7	6.9	66	2.5	5.2	6.5	41	0.67	0.079
STD DS8	Standard	12.5	102.8	115.3	296	1.7	36.7	7.1	585	2.39	23.5	2.4	98.9	6.4	59	2.5	4.5	5.8	41	0.65	0.074
STD DS8	Standard	14.2	125.3	132.9	338	1.9	38.9	8.0	641	2.60	26.5	3.1	119.5	7.8	71	2.8	6.2	7.8	46	0.71	0.086
STD DS8	Standard	13.2	123.4	126.4	317	1.7	38.5	7.6	602	2.46	25.8	3.0	115.8	7.5	69	2.5	5.9	7.0	42	0.70	0.081
STD DS8	Standard	12.4	113.0	118.1	305	1.7	38.2	8.0	581	2.36	24.1	2.7	107.5	6.5	62	2.4	5.3	6.3	41	0.68	0.077
STD DS8	Standard	12.0	99.5	119.9	287	1.6	34.5	6.6	568	2.27	22.5	2.9	93.7	7.3	70	2.1	6.0	6.3	39	0.67	0.074
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Sapphire Prospect
Soil Geochemistry

Client:

Ryan Gold Corp.

600 - 666 Burrard St.

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Project:

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Report Date:

September 06, 2011

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Part 2

QUALITY CONTROL REPORT

WHI11000959.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
Reference Materials																		
STD DS8	Standard	17	113	0.61	278	0.115	2	0.92	0.087	0.40	2.8	0.20	2.3	5.4	0.15	5	5.6	4.8
STD DS8	Standard	13	113	0.61	262	0.104	3	0.87	0.082	0.40	2.9	0.21	2.5	5.3	0.16	4	5.2	4.7
STD DS8	Standard	14	121	0.62	278	0.102	3	0.89	0.082	0.41	3.0	0.17	1.9	5.5	0.15	5	5.3	5.0
STD DS8	Standard	16	113	0.63	275	0.114	2	0.91	0.086	0.41	3.0	0.21	2.1	5.3	0.14	5	5.1	4.9
STD DS8	Standard	15	113	0.56	264	0.101	2	0.84	0.079	0.38	2.6	0.20	2.2	5.1	0.17	4	4.2	5.1
STD DS8	Standard	16	125	0.67	293	0.135	3	0.97	0.088	0.42	3.2	0.21	2.3	5.7	0.17	5	4.9	5.0
STD DS8	Standard	16	113	0.60	284	0.130	3	0.90	0.086	0.41	3.1	0.20	2.2	5.6	0.17	5	5.6	4.7
STD DS8	Standard	13	114	0.58	254	0.112	3	0.85	0.081	0.40	2.8	0.21	1.9	5.2	0.19	4	4.7	4.8
STD DS8	Standard	16	108	0.56	268	0.117	2	0.86	0.078	0.38	2.7	0.16	1.9	4.9	0.16	4	5.1	4.3
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
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Vancouver BC V6C 1H2 Canada

Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: September 10, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000960.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 269

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	269	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	269	Dry at 60C			VAN
1DX2	269	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date:

September 10, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000960.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1075504	Soil	0.5	23.9	2.6	57	<0.1	28.9	10.7	303	2.61	52.6	0.4	8.7	1.3	30	<0.1	<0.1	0.2	77	0.28	0.064
1075510	Soil	0.6	20.0	3.3	66	<0.1	27.5	11.3	377	2.73	39.6	0.5	108.8	1.2	27	0.1	<0.1	0.2	85	0.36	0.089
1075511	Soil	0.6	19.2	3.1	64	<0.1	25.4	10.7	383	2.63	36.7	0.5	53.4	1.2	28	0.1	<0.1	0.2	83	0.40	0.097
1059229	Soil	1.0	17.1	3.6	51	0.1	23.7	9.1	246	2.61	29.3	0.4	4.3	1.4	22	<0.1	0.2	0.1	74	0.23	0.033
1059230	Soil	0.6	17.7	3.4	55	<0.1	21.9	9.4	274	2.43	16.1	0.3	5.4	1.0	29	<0.1	0.2	0.1	68	0.29	0.022
1059227	Soil	0.6	20.4	2.5	42	<0.1	24.7	9.5	286	2.33	31.5	0.4	6.5	1.5	23	<0.1	<0.1	0.1	65	0.36	0.110
1059225	Soil	0.5	12.8	4.1	51	0.1	20.6	9.3	262	2.39	13.8	0.3	2.3	1.2	17	<0.1	0.1	0.1	68	0.24	0.052
1059228	Soil	0.3	34.3	3.3	53	0.2	27.6	11.7	311	2.83	23.3	0.9	3.4	1.6	37	<0.1	<0.1	0.1	78	0.44	0.093
1059226	Soil	0.8	19.2	3.8	49	<0.1	24.7	9.5	236	2.55	45.9	0.4	4.8	1.2	22	<0.1	0.2	0.2	70	0.29	0.067
1059234	Soil	0.5	14.3	2.3	47	<0.1	19.6	8.4	280	2.30	20.7	0.4	2.1	0.9	24	<0.1	<0.1	<0.1	67	0.30	0.077
1059232	Soil	0.6	18.6	3.7	54	<0.1	24.8	9.7	253	2.55	27.7	0.5	7.7	1.6	20	0.1	0.2	0.1	69	0.26	0.071
1059235	Soil	0.6	18.2	2.7	62	<0.1	21.1	8.1	275	2.29	20.3	0.3	11.3	1.2	24	<0.1	0.1	0.1	62	0.26	0.043
1059236	Soil	0.4	24.3	2.1	49	<0.1	27.2	10.1	307	2.33	38.1	0.5	11.3	1.5	24	0.1	<0.1	<0.1	73	0.37	0.122
1059233	Soil	0.5	15.4	2.9	45	<0.1	18.7	7.3	238	2.22	21.7	0.4	11.9	1.2	17	<0.1	<0.1	0.1	66	0.27	0.080
1059231	Soil	0.5	16.4	2.9	47	<0.1	20.2	8.4	263	2.38	25.9	0.4	8.2	1.4	21	<0.1	0.1	0.1	68	0.25	0.038
1059237	Soil	0.7	20.6	3.1	55	<0.1	24.3	10.3	318	2.63	34.5	0.5	37.6	1.5	27	<0.1	<0.1	0.1	77	0.34	0.069
1059240	Soil	0.5	18.0	2.9	52	<0.1	21.7	9.4	299	2.39	20.3	0.4	18.5	1.2	28	<0.1	<0.1	<0.1	70	0.34	0.054
1059246	Soil	0.3	22.7	2.5	55	<0.1	25.0	10.0	308	2.55	39.7	0.6	13.5	1.8	33	<0.1	<0.1	0.1	75	0.40	0.117
1059243	Soil	0.7	31.4	3.0	56	0.4	26.2	10.8	335	2.64	52.7	0.8	158.2	1.4	33	<0.1	0.1	0.2	76	0.33	0.057
1075502	Soil	0.3	22.5	2.8	54	<0.1	25.5	10.4	301	2.64	36.9	0.6	8.7	1.6	32	<0.1	<0.1	0.1	78	0.39	0.096
1075501	Soil	0.2	16.7	1.5	48	<0.1	20.8	8.3	281	2.11	28.1	0.6	7.4	1.6	38	<0.1	<0.1	<0.1	65	0.46	0.134
1059245	Soil	0.4	22.4	2.6	52	<0.1	27.3	10.1	298	2.48	42.1	0.5	6.1	1.4	24	<0.1	<0.1	0.1	75	0.33	0.115
1059244	Soil	0.3	20.6	2.9	54	<0.1	26.8	9.7	290	2.51	35.8	0.5	30.5	1.5	23	<0.1	<0.1	0.1	73	0.32	0.092
1075509	Soil	0.7	25.9	4.3	68	0.1	30.2	16.4	521	3.24	45.6	0.5	7.0	0.9	22	<0.1	0.1	0.2	101	0.26	0.078
1075508	Soil	0.9	25.1	4.5	76	<0.1	31.9	12.3	396	3.48	62.0	0.4	6.3	1.3	21	<0.1	0.1	0.2	112	0.25	0.056
1075507	Soil	0.3	16.2	2.2	52	<0.1	19.0	8.6	241	2.04	19.1	0.5	4.0	1.4	27	0.1	<0.1	<0.1	64	0.38	0.114
1075503	Soil	0.3	22.9	2.1	57	<0.1	24.9	11.2	290	2.49	50.4	0.6	17.6	1.7	34	<0.1	<0.1	0.1	72	0.42	0.125
1075506	Soil	0.5	18.4	2.5	56	<0.1	20.3	11.7	378	2.43	35.7	0.5	6.1	1.0	29	<0.1	<0.1	0.1	75	0.35	0.084
1075505	Soil	0.6	28.9	3.0	73	0.1	32.3	14.3	370	2.93	57.3	0.6	8.0	1.4	35	<0.1	<0.1	0.2	86	0.36	0.066
1075512	Soil	0.4	20.2	2.3	52	<0.1	25.1	11.2	390	2.30	19.6	0.4	5.7	1.0	27	<0.1	<0.1	0.1	72	0.33	0.083



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Part 2

CERTIFICATE OF ANALYSIS

WHI11000960.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075504	Soil	5	55	0.79	305	0.177	1	1.88	0.016	0.58	0.5	<0.01	4.8	0.2	<0.05	6	<0.5	<0.2
1075510	Soil	5	60	0.85	249	0.182	2	1.91	0.012	0.39	0.4	0.01	5.1	0.2	<0.05	7	<0.5	<0.2
1075511	Soil	5	56	0.81	245	0.177	1	1.83	0.014	0.38	0.5	0.02	4.8	0.2	<0.05	7	<0.5	<0.2
1059229	Soil	5	49	0.74	188	0.154	1	1.75	0.012	0.37	0.3	0.01	4.2	0.2	<0.05	6	<0.5	<0.2
1059230	Soil	4	50	0.80	242	0.159	1	1.68	0.014	0.44	0.2	0.01	4.1	0.2	<0.05	6	<0.5	<0.2
1059227	Soil	5	43	0.72	223	0.127	1	1.74	0.015	0.39	0.3	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2
1059225	Soil	5	48	0.80	138	0.156	2	1.60	0.010	0.37	0.3	<0.01	3.8	0.1	<0.05	6	<0.5	<0.2
1059228	Soil	7	56	0.88	321	0.177	<1	2.14	0.018	0.45	0.3	0.02	5.2	0.2	<0.05	7	<0.5	<0.2
1059226	Soil	4	44	0.70	139	0.128	<1	1.73	0.010	0.36	0.3	<0.01	3.7	0.1	<0.05	6	<0.5	<0.2
1059234	Soil	5	46	0.73	234	0.152	1	1.54	0.011	0.36	0.3	<0.01	3.8	0.1	<0.05	6	<0.5	<0.2
1059232	Soil	5	45	0.71	156	0.136	1	1.98	0.012	0.32	0.3	0.02	3.8	0.2	<0.05	6	<0.5	<0.2
1059235	Soil	5	43	0.71	204	0.152	<1	1.49	0.011	0.37	0.2	0.01	3.5	0.1	<0.05	6	<0.5	<0.2
1059236	Soil	5	50	0.70	278	0.157	<1	1.62	0.016	0.57	0.3	<0.01	4.5	0.2	<0.05	5	<0.5	<0.2
1059233	Soil	5	44	0.68	193	0.148	<1	1.53	0.011	0.27	0.2	<0.01	3.8	0.1	<0.05	6	<0.5	<0.2
1059231	Soil	5	43	0.68	190	0.151	<1	1.49	0.015	0.28	0.3	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2
1059237	Soil	5	53	0.75	236	0.165	1	1.66	0.014	0.42	0.5	0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1059240	Soil	5	51	0.81	235	0.182	1	1.63	0.012	0.34	0.3	<0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1059246	Soil	7	53	0.79	336	0.191	<1	1.87	0.018	0.52	0.2	<0.01	4.6	0.2	<0.05	6	<0.5	<0.2
1059243	Soil	7	54	0.76	229	0.166	1	2.05	0.014	0.43	0.4	0.03	5.0	0.2	<0.05	6	<0.5	<0.2
1075502	Soil	6	57	0.84	290	0.203	<1	1.92	0.016	0.50	0.5	0.01	4.8	0.2	<0.05	7	<0.5	<0.2
1075501	Soil	7	45	0.70	347	0.165	<1	1.51	0.022	0.54	0.3	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2
1059245	Soil	5	51	0.75	262	0.159	1	1.88	0.013	0.49	0.3	<0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1059244	Soil	6	51	0.74	251	0.168	<1	1.68	0.014	0.45	0.4	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
1075509	Soil	5	69	0.93	270	0.193	1	2.40	0.012	0.38	0.2	<0.01	5.7	0.2	<0.05	8	<0.5	<0.2
1075508	Soil	5	74	1.03	278	0.244	<1	2.36	0.013	0.59	0.3	<0.01	6.5	0.3	<0.05	9	<0.5	<0.2
1075507	Soil	6	45	0.66	252	0.162	<1	1.53	0.019	0.41	0.3	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1075503	Soil	7	55	0.81	377	0.198	<1	1.85	0.018	0.54	0.3	0.01	4.1	0.2	<0.05	6	<0.5	<0.2
1075506	Soil	5	41	0.62	220	0.147	<1	1.42	0.016	0.31	0.2	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
1075505	Soil	6	66	0.87	322	0.201	1	2.28	0.019	0.48	0.4	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1075512	Soil	5	52	0.76	255	0.155	1	1.73	0.016	0.44	0.2	0.02	4.6	0.2	<0.05	5	<0.5	<0.2



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Report Date:

September 10, 2011

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000960.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1077865	Soil	0.7	30.4	6.1	68	<0.1	29.4	12.0	481	2.98	18.2	0.8	8.2	1.6	18	0.1	0.4	0.1	71	0.23	0.049
1077867	Soil	0.6	23.1	5.1	72	<0.1	22.8	10.7	459	2.67	11.7	1.4	14.8	1.6	19	0.1	0.3	0.2	52	0.22	0.063
1077864	Soil	1.2	42.7	6.8	77	<0.1	40.8	17.0	574	3.36	12.2	0.9	3.1	1.6	23	<0.1	0.4	0.2	91	0.28	0.059
1077863	Soil	0.5	35.1	4.2	73	<0.1	47.6	15.8	398	3.26	6.9	0.4	5.1	1.5	20	<0.1	0.2	0.1	107	0.23	0.036
1077866	Soil	0.5	23.9	4.9	66	<0.1	22.5	10.0	437	2.65	10.8	0.9	3.5	1.8	19	0.1	0.3	0.1	56	0.24	0.061
1077869	Soil	0.4	21.1	4.2	62	<0.1	20.3	9.1	412	2.50	8.0	0.9	18.0	1.7	19	0.1	0.2	0.3	49	0.26	0.070
1077870	Soil	0.7	20.3	7.0	82	0.1	19.0	10.8	614	3.13	10.5	2.2	12.5	1.7	30	0.1	0.3	0.6	54	0.30	0.075
1077871	Soil	0.6	24.0	7.2	85	0.2	18.4	8.8	493	3.15	15.3	3.3	13.1	1.8	30	0.1	0.3	1.0	53	0.28	0.085
1077874	Soil	0.8	24.1	8.2	94	0.1	20.6	11.8	765	3.43	12.8	1.8	6.0	1.4	35	0.2	0.4	0.5	59	0.38	0.090
1077872	Soil	0.6	22.9	6.7	79	<0.1	21.0	9.6	472	3.05	13.3	1.0	26.2	1.5	23	0.2	0.3	0.4	59	0.24	0.044
1077873	Soil	0.9	24.3	6.5	71	<0.1	22.0	9.7	463	2.91	10.0	1.5	6.2	0.8	28	0.1	0.4	0.4	59	0.30	0.076
1059242	Soil	0.5	27.4	3.6	54	<0.1	28.2	10.1	281	2.79	48.4	0.8	7.6	1.6	27	<0.1	0.1	0.2	78	0.37	0.113
1059241	Soil	0.5	22.8	3.7	66	<0.1	30.2	11.1	310	3.26	55.6	0.5	25.5	1.8	27	<0.1	0.2	0.2	96	0.31	0.060
1059238	Soil	0.4	19.4	2.6	48	<0.1	24.1	9.7	283	2.43	38.3	0.6	7.9	1.9	28	<0.1	0.1	0.1	70	0.40	0.115
1059239	Soil	0.6	23.6	3.3	57	<0.1	27.7	10.1	307	2.75	49.2	0.7	161.4	1.9	29	<0.1	0.1	0.1	78	0.40	0.101
1077884	Soil	0.7	19.4	6.0	76	<0.1	20.3	9.9	438	2.95	8.2	0.6	5.3	1.7	19	0.2	0.3	0.2	53	0.22	0.038
1077882	Soil	0.5	18.3	4.7	72	<0.1	18.5	8.7	434	2.73	8.5	0.8	4.9	2.1	21	<0.1	0.3	0.2	50	0.23	0.035
1077883	Soil	0.4	16.1	4.2	62	<0.1	17.1	8.3	392	2.42	7.0	0.6	2.8	1.6	21	0.2	0.3	0.2	47	0.27	0.060
1077886	Soil	0.6	18.9	5.4	74	<0.1	19.7	9.2	456	2.74	9.4	0.7	4.5	1.9	23	0.2	0.4	0.2	52	0.27	0.054
1077891	Soil	0.7	21.9	7.6	74	0.2	18.8	10.9	633	2.92	11.3	1.9	3.6	1.2	42	<0.1	0.4	0.3	53	0.42	0.086
1077892	Soil	0.3	12.0	3.4	69	<0.1	14.2	6.7	373	2.18	4.8	0.5	13.3	1.8	18	0.2	0.2	0.2	37	0.25	0.060
1077889	Soil	0.6	14.4	5.2	64	<0.1	16.6	7.9	374	2.48	6.8	0.6	2.2	1.5	22	0.2	0.3	0.2	49	0.25	0.040
1077887	Soil	0.6	18.0	5.3	73	<0.1	18.8	9.0	448	2.69	8.6	0.7	3.6	1.8	23	0.1	0.3	0.2	50	0.27	0.052
1077896	Soil	0.5	16.3	5.5	76	<0.1	17.3	9.4	528	2.83	6.9	0.7	4.3	2.3	24	<0.1	0.2	0.3	50	0.29	0.056
1077893	Soil	0.5	18.8	6.8	63	0.3	18.6	8.9	441	2.86	9.4	1.7	7.1	1.7	27	<0.1	0.2	0.3	54	0.27	0.065
1077894	Soil	0.2	9.5	4.1	67	<0.1	11.4	6.8	414	2.27	3.7	0.6	4.3	2.5	36	<0.1	0.1	0.3	36	0.35	0.059
1077890	Soil	0.7	16.7	5.1	64	0.1	16.2	8.5	395	2.49	7.2	1.1	3.3	1.4	25	0.2	0.3	0.2	48	0.29	0.064
1077895	Soil	0.2	10.7	3.2	61	<0.1	13.2	7.7	408	2.17	3.9	0.4	1.0	1.9	19	0.1	0.1	0.1	38	0.25	0.044
1077888	Soil	0.6	14.4	5.1	65	<0.1	15.8	7.9	386	2.48	6.8	0.6	6.5	1.8	22	<0.1	0.3	0.2	49	0.26	0.041
1077868	Soil	0.5	21.2	4.1	72	<0.1	18.8	9.3	438	2.59	8.8	2.1	27.2	2.0	27	0.1	0.3	0.5	49	0.34	0.092



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1077865	Soil	6	45	0.74	129	0.128	2	1.88	0.011	0.26	0.4	0.03	3.8	0.2	<0.05	6	<0.5
1077867	Soil	6	32	0.68	99	0.119	1	1.60	0.010	0.20	0.1	0.01	3.2	0.3	<0.05	6	<0.5
1077864	Soil	8	65	0.94	187	0.139	1	2.18	0.014	0.25	0.4	0.03	5.1	0.2	<0.05	7	<0.5
1077863	Soil	5	101	1.17	201	0.187	1	2.37	0.017	0.40	0.1	<0.01	6.5	0.2	<0.05	8	<0.5
1077866	Soil	6	34	0.68	106	0.128	1	1.61	0.010	0.28	0.2	0.01	3.4	0.3	<0.05	6	<0.5
1077869	Soil	6	28	0.62	100	0.115	1	1.37	0.009	0.22	0.2	<0.01	3.0	0.3	<0.05	5	<0.5
1077870	Soil	9	31	0.77	150	0.128	1	2.05	0.013	0.30	0.2	0.03	4.3	0.4	0.08	8	<0.5
1077871	Soil	9	33	0.80	139	0.117	2	2.17	0.012	0.34	0.2	0.03	4.7	0.4	0.06	9	<0.5
1077874	Soil	8	34	0.86	202	0.131	3	2.26	0.012	0.29	0.2	0.04	4.7	0.4	0.07	9	<0.5
1077872	Soil	7	35	0.76	138	0.133	2	1.80	0.011	0.33	0.2	0.03	4.2	0.3	<0.05	8	<0.5
1077873	Soil	8	35	0.70	150	0.096	2	1.83	0.012	0.19	0.2	0.03	3.5	0.3	0.05	7	<0.5
1059242	Soil	7	52	0.81	225	0.147	1	2.15	0.013	0.42	0.4	0.01	5.0	0.2	<0.05	7	<0.5
1059241	Soil	6	60	0.91	286	0.223	<1	2.13	0.018	0.57	0.4	<0.01	5.8	0.2	<0.05	8	<0.5
1059238	Soil	8	45	0.69	291	0.163	<1	1.76	0.022	0.45	0.6	0.01	4.2	0.2	<0.05	6	<0.5
1059239	Soil	8	53	0.81	262	0.162	<1	2.08	0.018	0.42	0.4	<0.01	5.1	0.2	<0.05	7	<0.5
1077884	Soil	7	31	0.71	98	0.143	<1	1.64	0.010	0.30	0.2	0.02	3.5	0.3	0.05	7	<0.5
1077882	Soil	7	28	0.71	126	0.154	1	1.64	0.010	0.32	0.1	0.01	4.0	0.3	<0.05	7	<0.5
1077883	Soil	8	25	0.60	96	0.123	<1	1.46	0.012	0.24	0.2	<0.01	2.8	0.2	<0.05	6	<0.5
1077886	Soil	8	29	0.70	110	0.139	2	1.55	0.011	0.30	0.2	0.01	3.6	0.3	<0.05	7	<0.5
1077891	Soil	12	31	0.69	224	0.095	2	1.97	0.012	0.22	0.2	0.04	3.9	0.3	0.07	7	<0.5
1077892	Soil	6	20	0.58	91	0.136	<1	1.29	0.009	0.31	0.1	0.01	3.1	0.3	<0.05	6	<0.5
1077889	Soil	7	26	0.61	76	0.125	<1	1.45	0.010	0.24	0.2	0.02	2.9	0.2	<0.05	6	<0.5
1077887	Soil	7	28	0.68	109	0.142	1	1.50	0.011	0.31	0.2	<0.01	3.4	0.3	<0.05	6	<0.5
1077896	Soil	8	29	0.70	138	0.145	<1	1.85	0.011	0.29	<0.1	0.01	4.0	0.3	<0.05	7	<0.5
1077893	Soil	9	33	0.68	162	0.105	<1	2.08	0.010	0.26	0.2	0.06	4.1	0.3	<0.05	8	<0.5
1077894	Soil	7	19	0.62	156	0.137	<1	1.55	0.014	0.34	<0.1	<0.01	3.7	0.3	<0.05	7	<0.5
1077890	Soil	8	27	0.63	115	0.109	1	1.55	0.011	0.23	0.1	0.03	3.2	0.2	<0.05	6	<0.5
1077895	Soil	6	22	0.57	86	0.132	<1	1.28	0.010	0.23	0.1	<0.01	3.1	0.2	<0.05	5	<0.5
1077888	Soil	8	27	0.60	77	0.128	<1	1.44	0.011	0.25	0.1	0.01	3.1	0.2	<0.05	6	<0.5
1077868	Soil	8	28	0.66	111	0.133	<1	1.51	0.012	0.25	0.2	<0.01	3.7	0.3	<0.05	6	<0.5



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Soil Geochemistry

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Part 1

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076944	Soil	1.2	22.7	8.4	79	0.2	22.6	10.5	431	3.23	10.3	0.8	2.4	1.4	21	0.3	0.5	0.2	68	0.23	0.037
1076949	Soil	1.0	27.4	6.3	85	0.1	26.3	13.4	567	3.17	10.7	0.6	4.6	1.2	31	0.3	0.4	0.2	66	0.43	0.070
1076937	Soil	0.4	13.7	4.6	67	<0.1	15.6	8.4	430	2.50	5.2	0.6	2.0	1.3	29	0.1	0.2	0.2	47	0.34	0.065
1076941	Soil	0.7	37.1	4.7	84	<0.1	39.8	14.1	469	3.67	11.6	0.5	2.1	2.5	27	<0.1	0.3	0.1	76	0.34	0.048
1076940	Soil	0.5	35.8	4.2	74	<0.1	31.1	11.4	384	3.21	8.7	0.6	7.9	3.0	28	<0.1	0.3	0.1	64	0.36	0.054
1076948	Soil	1.1	23.7	7.1	107	<0.1	24.2	10.0	427	3.17	11.0	0.7	1.6	1.2	27	0.4	0.3	0.2	65	0.38	0.043
1076947	Soil	0.5	27.5	5.0	77	<0.1	37.6	13.6	518	3.23	13.2	0.4	2.9	2.5	31	0.1	0.4	0.1	72	0.49	0.059
1077875	Soil	0.8	20.5	6.5	86	<0.1	18.5	10.0	585	3.12	9.1	1.2	5.1	1.5	32	0.2	0.3	0.3	54	0.30	0.072
1077877	Soil	0.6	19.8	5.6	82	<0.1	18.4	8.5	473	3.01	9.7	1.2	21.4	1.5	29	<0.1	0.3	0.3	54	0.25	0.056
1077879	Soil	0.3	17.9	4.0	71	<0.1	16.9	8.1	449	2.67	9.2	0.9	8.3	2.3	26	0.1	0.2	0.2	50	0.35	0.092
1077878	Soil	0.3	13.5	3.6	63	<0.1	15.5	6.7	302	2.26	8.2	0.8	99.8	2.3	27	<0.1	0.2	0.2	46	0.40	0.101
1077880	Soil	0.8	19.6	5.7	75	<0.1	18.5	9.2	467	2.85	9.3	0.8	4.2	1.4	26	0.2	0.4	0.3	54	0.28	0.059
1077876	Soil	1.1	26.5	7.6	90	0.1	22.2	14.3	775	3.47	9.6	1.5	4.1	0.7	42	0.2	0.4	0.3	62	0.40	0.103
1077885	Soil	0.4	12.7	9.6	82	<0.1	12.6	8.4	624	2.76	13.6	0.9	11.2	2.1	26	0.1	0.2	0.7	36	0.34	0.058
1077881	Soil	0.5	18.1	4.8	78	<0.1	17.1	9.7	555	2.90	9.3	1.4	6.3	2.4	21	0.1	0.2	0.3	49	0.31	0.093
1075708	Soil	1.0	18.6	6.0	75	0.2	23.5	10.5	370	2.95	9.1	0.5	4.8	0.9	28	0.2	0.3	0.1	68	0.53	0.043
1075701	Soil	0.7	24.4	6.3	79	0.2	30.1	14.1	568	3.59	11.8	0.6	13.6	1.6	21	0.1	0.4	0.2	72	0.26	0.031
1075703	Soil	0.5	36.1	5.7	74	<0.1	42.6	16.5	563	3.45	11.5	0.4	2.8	1.8	23	0.3	0.4	0.1	77	0.38	0.044
1075704	Soil	0.7	33.2	5.6	75	0.1	30.9	14.5	529	3.29	11.3	0.7	5.6	1.5	26	0.2	0.3	0.2	69	0.52	0.063
1075710	Soil	0.9	24.1	5.4	63	0.1	23.3	13.3	425	3.02	7.8	0.5	2.0	1.5	35	0.2	0.3	0.1	65	0.59	0.040
1075709	Soil	0.5	24.9	5.6	69	<0.1	33.4	13.8	448	3.17	9.3	0.6	1.4	2.1	24	<0.1	0.3	0.1	70	0.39	0.025
1075702	Soil	1.0	23.3	6.7	73	<0.1	31.4	14.0	441	3.23	12.9	0.5	61.2	1.6	27	0.2	0.3	0.2	68	0.43	0.049
1076950	Soil	0.8	27.9	6.0	76	<0.1	29.0	13.3	564	3.09	12.9	0.5	18.4	1.4	27	0.2	0.3	0.1	65	0.40	0.066
1075705	Soil	0.9	24.2	7.2	81	0.2	28.7	15.3	474	3.37	9.8	0.6	3.9	1.3	30	0.2	0.3	0.1	77	0.52	0.041
1076946	Soil	0.6	31.1	4.4	71	<0.1	27.9	12.3	477	2.90	14.7	0.4	7.4	1.8	24	0.1	0.3	0.1	59	0.41	0.077
1076939	Soil	0.5	30.6	4.7	78	0.1	27.0	12.2	552	3.06	7.2	0.9	5.4	2.6	29	0.2	0.3	0.2	59	0.40	0.082
1076938	Soil	0.6	21.0	5.5	76	<0.1	26.0	12.9	539	3.08	8.2	0.5	3.7	1.9	26	<0.1	0.2	0.2	61	0.37	0.050
1076945	Soil	0.7	28.0	6.3	82	<0.1	38.0	15.7	506	3.78	13.9	0.4	3.6	1.4	28	0.2	0.3	0.1	85	0.49	0.054
1076942	Soil	0.8	54.0	6.7	80	0.1	40.0	15.4	494	3.86	13.9	1.0	2.4	2.2	33	0.2	0.3	0.2	88	0.50	0.072
1076943	Soil	1.1	43.3	7.8	88	0.1	39.5	15.5	534	4.16	20.2	0.8	8.4	2.8	34	0.3	0.4	0.3	89	0.55	0.071



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076944	Soil	8	38	0.80	61	0.148	1	1.85	0.011	0.24	<0.1	0.02	3.4	0.2	<0.05	8	<0.5	<0.2
1076949	Soil	9	41	0.83	140	0.109	1	1.79	0.013	0.23	0.1	0.02	3.6	0.2	<0.05	6	<0.5	<0.2
1076937	Soil	8	28	0.66	127	0.119	1	1.65	0.012	0.20	<0.1	<0.01	3.4	0.3	0.05	7	<0.5	<0.2
1076941	Soil	9	58	1.17	166	0.124	<1	2.28	0.012	0.28	<0.1	0.02	4.6	0.2	<0.05	8	<0.5	<0.2
1076940	Soil	10	46	0.93	161	0.121	<1	1.93	0.014	0.29	<0.1	0.02	4.9	0.3	<0.05	7	<0.5	<0.2
1076948	Soil	7	41	0.85	95	0.109	2	1.68	0.011	0.17	<0.1	0.01	3.4	0.1	<0.05	7	<0.5	<0.2
1076947	Soil	7	57	1.03	163	0.130	1	1.84	0.021	0.26	0.1	<0.01	4.6	0.2	<0.05	6	<0.5	<0.2
1077875	Soil	8	31	0.78	171	0.141	1	1.92	0.012	0.34	0.2	0.02	4.3	0.4	0.07	8	<0.5	<0.2
1077877	Soil	7	31	0.78	141	0.148	2	1.90	0.011	0.37	0.2	0.02	4.2	0.4	<0.05	8	<0.5	<0.2
1077879	Soil	8	28	0.69	127	0.145	<1	1.56	0.013	0.34	0.2	<0.01	4.0	0.3	<0.05	6	<0.5	<0.2
1077878	Soil	9	26	0.67	104	0.138	<1	1.46	0.015	0.29	0.2	<0.01	3.4	0.3	<0.05	6	<0.5	<0.2
1077880	Soil	8	31	0.71	127	0.131	<1	1.73	0.012	0.29	0.1	0.01	3.8	0.3	0.07	7	<0.5	<0.2
1077876	Soil	9	37	0.80	200	0.087	3	1.97	0.013	0.30	0.2	0.04	3.4	0.4	0.11	8	0.8	<0.2
1077885	Soil	6	19	0.61	158	0.100	2	1.83	0.008	0.27	0.1	0.01	3.3	0.4	<0.05	7	<0.5	<0.2
1077881	Soil	9	28	0.67	154	0.140	2	1.83	0.011	0.32	0.2	0.01	4.1	0.3	<0.05	7	0.6	<0.2
1075708	Soil	6	42	0.77	85	0.092	3	1.62	0.012	0.13	0.1	0.03	2.8	0.1	<0.05	6	0.8	<0.2
1075701	Soil	8	45	0.90	99	0.134	3	2.24	0.013	0.24	<0.1	0.02	3.9	0.3	<0.05	7	1.2	<0.2
1075703	Soil	7	56	1.05	126	0.112	3	2.10	0.015	0.16	0.1	0.03	4.3	0.2	<0.05	5	0.6	<0.2
1075704	Soil	9	46	0.96	154	0.112	2	1.97	0.015	0.22	0.1	0.02	4.3	0.3	<0.05	6	0.7	<0.2
1075710	Soil	7	38	0.69	118	0.104	2	1.52	0.017	0.11	0.1	0.04	3.5	<0.1	<0.05	5	0.8	<0.2
1075709	Soil	8	48	0.94	154	0.136	2	2.10	0.013	0.18	0.1	0.01	4.2	0.2	<0.05	6	<0.5	<0.2
1075702	Soil	7	47	1.10	97	0.115	2	2.07	0.015	0.14	0.2	0.04	3.7	0.2	<0.05	6	<0.5	<0.2
1076950	Soil	8	41	0.85	139	0.104	2	1.80	0.013	0.21	0.1	0.01	3.7	0.2	<0.05	6	0.9	<0.2
1075705	Soil	7	50	1.00	144	0.119	2	1.94	0.015	0.15	0.2	0.01	3.7	0.1	<0.05	7	0.5	<0.2
1076946	Soil	7	40	0.77	92	0.102	2	1.52	0.012	0.21	0.2	0.02	3.4	0.2	<0.05	5	0.8	<0.2
1076939	Soil	11	40	0.86	152	0.123	1	1.82	0.014	0.28	0.1	0.03	4.4	0.2	0.05	6	0.8	<0.2
1076938	Soil	7	40	0.88	141	0.132	2	2.07	0.012	0.24	<0.1	0.02	3.8	0.3	<0.05	7	0.6	<0.2
1076945	Soil	7	62	1.10	116	0.136	2	2.09	0.014	0.25	0.2	0.02	4.1	0.2	<0.05	7	0.6	<0.2
1076942	Soil	12	60	1.02	248	0.102	2	2.46	0.013	0.19	<0.1	0.03	5.7	0.2	0.05	7	0.7	<0.2
1076943	Soil	10	58	1.01	235	0.124	2	2.60	0.018	0.25	0.1	0.04	5.6	0.3	<0.05	8	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070436	Soil	0.8	31.5	5.0	74	<0.1	34.1	13.9	434	3.39	5.4	0.5	1.9	1.3	19	0.2	0.2	0.1	99	0.25	0.083
1070439	Soil	1.2	42.9	7.8	77	0.1	39.6	16.3	501	3.93	8.6	0.7	5.0	1.1	24	0.1	0.4	0.2	110	0.23	0.078
1070438	Soil	1.1	48.8	8.2	92	0.1	47.0	18.2	520	4.32	8.7	0.6	5.7	1.3	25	0.1	0.3	0.2	124	0.21	0.085
1075719	Soil	0.9	22.7	5.8	71	0.2	26.0	14.6	709	3.09	11.1	0.6	10.8	1.9	26	0.3	0.3	0.1	63	0.43	0.069
1075720	Soil	0.5	25.9	3.8	70	<0.1	21.0	9.1	422	2.26	12.9	0.6	9.6	1.1	32	0.2	0.2	0.1	50	0.82	0.094
1075718	Soil	0.4	17.7	3.8	60	<0.1	21.8	9.2	326	2.53	9.7	0.5	5.2	1.8	18	<0.1	0.2	<0.1	53	0.31	0.037
1075715	Soil	0.9	20.6	6.9	70	0.2	27.7	13.0	395	3.07	40.6	0.5	15.0	1.8	28	0.2	0.4	0.1	70	0.47	0.064
1075714	Soil	0.9	20.9	7.5	111	0.2	29.9	18.1	536	3.61	10.5	0.5	3.3	1.3	26	0.1	0.4	0.1	75	0.44	0.071
1075716	Soil	0.5	19.7	4.9	77	<0.1	25.9	11.2	420	2.91	20.1	0.5	9.1	2.2	29	0.3	0.2	0.2	53	0.52	0.140
1075713	Soil	0.9	22.1	6.9	103	0.3	27.6	14.6	578	3.16	8.8	0.6	3.5	1.9	23	0.3	0.4	0.1	65	0.40	0.074
1075717	Soil	0.4	22.4	4.6	64	0.1	24.5	10.4	365	2.75	11.8	0.8	5.5	1.9	23	0.1	0.2	0.1	59	0.43	0.047
1075712	Soil	0.7	20.1	5.7	73	0.2	25.3	11.4	368	2.95	9.5	0.4	3.5	1.5	25	0.2	0.3	0.1	64	0.40	0.057
1075706	Soil	0.8	20.7	5.9	61	0.2	28.3	12.0	335	3.06	9.8	0.4	3.1	1.5	24	<0.1	0.3	0.1	71	0.40	0.032
1075707	Soil	1.1	26.9	8.7	90	0.2	28.1	18.9	746	3.54	10.5	0.8	2.6	2.1	26	0.3	0.4	0.2	76	0.41	0.039
1075711	Soil	0.9	32.5	7.0	89	0.3	25.9	14.6	504	3.08	7.8	0.9	3.1	1.6	29	0.2	0.3	0.1	68	0.51	0.061
1070446	Soil	1.1	72.7	8.3	91	0.1	63.0	33.4	747	4.06	138.8	0.6	12.2	1.5	27	0.2	0.8	0.2	88	0.33	0.099
1070447	Soil	1.1	42.1	6.3	80	<0.1	37.5	16.0	444	4.14	10.3	0.4	23.5	1.1	18	0.1	0.3	0.2	112	0.22	0.076
1070448	Soil	0.8	43.3	5.1	84	<0.1	43.8	16.1	430	3.68	11.4	0.5	2.0	1.4	20	0.1	0.2	0.2	102	0.23	0.066
1070449	Soil	0.6	39.8	3.9	66	<0.1	33.4	13.1	381	2.91	10.2	0.4	0.9	1.2	18	0.2	0.2	0.1	76	0.28	0.098
1070450	Soil	0.9	47.7	6.0	78	0.2	44.4	16.5	460	3.55	12.3	0.8	2.9	1.8	23	0.1	0.3	0.1	97	0.28	0.090
1070151	Soil	1.0	49.7	5.8	83	<0.1	45.4	17.6	464	4.04	11.4	0.6	2.4	1.6	22	<0.1	0.4	0.1	120	0.26	0.080
1070433	Soil	0.8	38.1	4.9	80	<0.1	34.2	14.0	371	3.31	5.6	0.6	8.4	1.9	21	0.1	0.2	0.1	92	0.26	0.090
1070432	Soil	0.9	49.2	5.8	91	<0.1	44.6	16.5	432	3.61	11.2	0.5	3.1	1.1	19	0.2	0.3	0.1	86	0.26	0.105
1070431	Soil	0.9	46.8	5.9	86	<0.1	40.9	14.9	388	3.59	13.0	0.5	6.1	1.3	21	0.1	0.3	0.1	86	0.29	0.107
1070428	Soil	0.7	35.6	4.8	70	<0.1	36.5	14.5	363	3.19	10.3	0.4	5.0	1.1	19	0.1	0.2	0.1	81	0.24	0.085
1070429	Soil	0.8	69.8	4.0	84	0.1	54.6	20.2	376	3.48	5.7	0.5	1.5	1.4	23	0.2	0.2	0.1	92	0.32	0.140
1070430	Soil	1.0	63.0	4.6	88	0.1	43.1	17.4	381	3.65	6.5	0.5	2.0	1.2	24	0.2	0.2	0.1	97	0.25	0.119
1070437	Soil	0.8	31.7	5.2	72	<0.1	31.7	13.4	405	3.27	6.2	0.4	<0.5	0.9	16	<0.1	0.2	0.1	93	0.18	0.070
1070435	Soil	0.7	26.1	4.4	65	<0.1	26.2	11.0	349	2.82	4.2	0.4	1.9	0.9	14	<0.1	0.2	0.1	79	0.18	0.059
1070434	Soil	0.6	26.3	4.3	65	<0.1	25.7	11.0	341	2.81	4.9	0.3	0.8	0.9	15	<0.1	0.2	0.1	77	0.17	0.065



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070436	Soil	6	61	1.01	263	0.149	1	2.49	0.014	0.46	0.2	0.02	6.4	0.3	0.07	8	0.7	<0.2
1070439	Soil	7	69	1.06	282	0.142	1	2.79	0.015	0.48	0.1	0.04	6.3	0.3	0.10	9	0.7	<0.2
1070438	Soil	7	77	1.18	346	0.174	1	3.39	0.015	0.58	0.2	0.03	8.0	0.3	0.08	10	<0.5	<0.2
1075719	Soil	7	40	0.79	141	0.127	2	1.79	0.015	0.25	0.2	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
1075720	Soil	6	31	0.65	182	0.095	3	1.32	0.017	0.24	0.1	0.02	3.3	0.2	<0.05	5	0.9	<0.2
1075718	Soil	6	37	0.81	82	0.127	1	1.56	0.012	0.29	0.1	<0.01	3.8	0.2	<0.05	5	<0.5	<0.2
1075715	Soil	7	42	0.80	114	0.111	2	1.84	0.014	0.21	0.1	0.02	3.6	0.1	<0.05	6	0.6	<0.2
1075714	Soil	7	46	0.85	120	0.108	1	1.83	0.012	0.14	<0.1	0.01	3.6	<0.1	<0.05	6	0.6	<0.2
1075716	Soil	7	37	0.85	143	0.142	2	1.88	0.014	0.34	0.1	0.01	4.4	0.3	<0.05	7	<0.5	<0.2
1075713	Soil	8	43	0.84	125	0.114	2	1.93	0.013	0.18	0.1	0.02	3.8	0.1	<0.05	6	0.8	<0.2
1075717	Soil	7	40	0.84	111	0.131	1	1.60	0.013	0.31	0.1	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
1075712	Soil	7	39	0.76	102	0.121	1	1.66	0.015	0.22	0.1	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
1075706	Soil	6	45	0.94	66	0.125	2	1.98	0.010	0.17	<0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
1075707	Soil	10	45	0.85	101	0.123	2	2.11	0.012	0.12	0.1	<0.01	4.2	0.1	<0.05	7	<0.5	<0.2
1075711	Soil	9	42	0.81	124	0.114	2	1.77	0.015	0.21	0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
1070446	Soil	8	48	0.98	200	0.116	1	2.45	0.014	0.32	0.2	<0.01	6.0	0.2	0.07	8	<0.5	<0.2
1070447	Soil	5	68	1.09	280	0.164	<1	2.72	0.013	0.55	0.1	0.03	7.3	0.2	0.11	9	<0.5	<0.2
1070448	Soil	6	66	1.07	207	0.163	2	2.38	0.012	0.49	0.1	0.02	6.8	0.2	0.08	8	<0.5	<0.2
1070449	Soil	5	47	0.77	144	0.109	<1	1.77	0.010	0.37	0.1	0.01	4.2	0.2	<0.05	6	<0.5	<0.2
1070450	Soil	8	60	0.90	211	0.155	1	2.39	0.012	0.43	0.1	0.02	6.7	0.2	<0.05	8	0.9	<0.2
1070151	Soil	6	75	1.10	280	0.196	2	2.70	0.013	0.58	0.5	0.03	8.0	0.3	<0.05	10	0.7	<0.2
1070433	Soil	7	60	0.88	234	0.155	<1	2.12	0.015	0.47	0.2	0.01	6.2	0.2	<0.05	7	0.6	<0.2
1070432	Soil	5	56	0.89	206	0.117	<1	2.02	0.011	0.46	0.2	0.02	5.6	0.2	<0.05	7	<0.5	<0.2
1070431	Soil	5	55	0.89	214	0.113	<1	1.96	0.012	0.44	0.1	0.02	5.8	0.2	<0.05	7	<0.5	<0.2
1070428	Soil	5	53	0.84	211	0.105	<1	1.83	0.010	0.44	0.1	0.01	5.0	0.2	<0.05	6	<0.5	<0.2
1070429	Soil	5	58	0.91	229	0.125	<1	2.02	0.016	0.53	0.1	0.02	5.8	0.2	0.06	7	<0.5	<0.2
1070430	Soil	5	63	0.97	238	0.135	<1	2.17	0.017	0.54	0.1	0.01	6.3	0.2	0.08	8	0.6	<0.2
1070437	Soil	4	61	0.92	268	0.129	<1	2.29	0.011	0.45	0.1	0.01	5.9	0.2	<0.05	8	<0.5	<0.2
1070435	Soil	4	48	0.78	227	0.117	<1	1.94	0.009	0.40	0.1	<0.01	5.1	0.2	<0.05	6	<0.5	<0.2
1070434	Soil	4	47	0.75	200	0.111	<1	1.81	0.009	0.36	<0.1	0.02	4.7	0.2	<0.05	6	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1058936	Soil				2.0	29.2	8.3	59	0.1	24.3	12.2	563	3.01	10.4	0.4	1.9	0.4	20	0.1	0.6	0.2	75	0.17	0.042
1070152	Soil				0.8	37.0	4.2	72	0.1	34.1	12.1	353	3.36	6.1	0.4	0.7	1.6	17	0.1	0.2	0.1	89	0.26	0.085
1070153	Soil				0.7	40.7	6.9	76	<0.1	47.9	17.7	456	3.05	21.2	0.4	3.6	1.1	19	0.1	0.9	0.1	71	0.22	0.070
1070154	Soil				1.4	24.7	8.2	60	<0.1	21.9	11.5	585	2.95	6.9	0.4	<0.5	0.4	21	0.1	0.5	0.2	78	0.20	0.054
1070155	Soil				0.6	44.0	5.5	67	<0.1	43.4	16.8	383	3.19	33.8	0.4	11.0	1.4	21	0.1	1.1	0.1	66	0.22	0.064
1070156	Soil				0.9	58.3	5.4	84	<0.1	60.7	20.4	578	3.21	11.2	0.4	6.4	0.9	19	0.1	0.8	<0.1	81	0.18	0.055
1070157	Soil				0.9	34.3	5.8	67	<0.1	31.5	12.4	333	3.21	8.7	0.4	44.0	0.8	16	0.1	0.3	<0.1	82	0.20	0.062
1070158	Soil				0.5	34.9	5.9	63	<0.1	84.3	18.3	463	3.05	8.6	0.3	<0.5	0.5	42	<0.1	0.3	<0.1	68	0.38	0.118
1070159	Soil				0.6	35.9	5.1	69	<0.1	43.4	14.8	412	2.87	9.9	0.4	4.6	0.9	29	0.2	0.3	<0.1	68	0.29	0.091
1070444	Soil				0.9	42.5	5.0	73	<0.1	30.2	13.7	450	3.30	7.0	0.4	1.3	0.6	20	0.3	0.3	0.1	86	0.24	0.086
1070445	Soil				0.9	31.1	6.2	58	<0.1	25.9	12.9	454	2.87	8.0	0.4	1.8	0.6	20	0.2	0.4	0.1	77	0.22	0.070
1070441	Soil				0.9	47.6	5.9	78	<0.1	46.4	18.7	508	3.66	9.8	0.4	1.7	1.1	15	0.2	0.4	0.1	96	0.13	0.046
1070442	Soil				0.6	41.2	4.8	74	<0.1	40.2	15.5	427	3.26	8.9	0.4	15.8	1.2	14	0.1	0.2	0.1	92	0.21	0.066
1070440	Soil				0.8	38.3	5.8	69	<0.1	35.1	13.7	402	3.38	7.4	0.4	1.3	0.9	15	<0.1	0.3	0.1	95	0.13	0.045
1070443	Soil				0.8	36.8	4.8	70	<0.1	31.9	12.1	341	3.19	6.8	0.4	3.0	1.0	16	0.2	0.2	<0.1	85	0.11	0.031
1058940	Soil				0.9	84.8	4.2	51	<0.1	51.2	17.9	310	3.71	11.1	0.4	1.1	1.3	34	<0.1	0.2	0.1	90	0.23	0.080
1058948	Soil				0.6	50.2	4.4	58	<0.1	43.4	16.4	314	3.29	14.6	0.3	1.3	1.3	26	<0.1	0.2	<0.1	92	0.29	0.096
1058927	Soil				0.8	49.9	6.1	44	<0.1	45.1	17.6	502	3.67	17.7	0.4	11.7	1.3	18	0.2	0.3	0.2	100	0.16	0.052
1058942	Soil				0.7	38.2	7.4	66	<0.1	56.7	16.4	450	3.37	9.9	0.6	2.3	2.0	31	0.1	0.3	0.2	85	0.25	0.050
1058949	Soil				0.6	44.3	3.9	57	<0.1	39.9	14.4	314	3.10	12.5	0.3	1.5	1.3	27	0.1	0.2	<0.1	88	0.29	0.099
1058946	Soil				1.2	33.3	6.5	60	0.1	27.8	10.6	267	3.29	15.2	0.4	5.3	0.8	21	0.1	0.3	0.2	92	0.17	0.051
1058925	Soil				0.9	71.3	4.7	43	0.1	56.8	22.8	427	3.95	17.1	0.3	2.7	1.0	19	0.1	0.2	0.1	108	0.24	0.095
1058924	Soil				0.6	38.2	4.5	43	<0.1	34.4	12.6	335	3.29	10.0	0.3	2.5	0.9	14	0.1	0.2	0.1	98	0.15	0.047
1058947	Soil				0.7	44.4	4.6	64	<0.1	34.4	13.5	342	3.55	15.1	0.3	2.2	1.1	23	0.2	0.2	0.1	98	0.22	0.074
1062037	Soil				1.2	54.2	7.3	77	<0.1	44.0	15.0	390	3.80	14.2	0.6	3.5	1.0	26	0.1	0.5	0.2	99	0.23	0.074
1058930	Soil				0.8	45.5	5.2	76	0.2	48.1	19.3	508	4.26	14.4	0.5	3.2	1.3	26	<0.1	0.2	0.2	128	0.32	0.101
1058921	Soil				0.7	40.5	4.2	56	0.1	38.0	12.8	369	3.56	13.6	0.5	2.9	1.7	20	<0.1	0.3	0.2	101	0.28	0.092
1058929	Soil				0.9	47.3	6.1	60	<0.1	49.4	16.2	447	3.97	14.0	0.6	7.5	1.7	23	0.1	0.3	0.2	115	0.25	0.068
1058937	Soil				0.9	74.4	5.7	105	<0.1	81.4	26.0	431	4.82	29.6	0.9	2.7	3.5	56	<0.1	0.2	0.2	167	0.31	0.083
1058934	Soil				1.4	41.4	7.7	51	<0.1	35.2	12.7	318	3.69	11.7	0.5	2.3	0.9	23	<0.1	0.5	0.2	104	0.22	0.059



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1058936	Soil	5	37	0.63	106	0.063	<1	1.34	0.008	0.18	0.1	0.03	2.6	0.1	<0.05	6	<0.5
1070152	Soil	6	61	0.97	193	0.137	<1	2.14	0.010	0.52	0.1	0.01	6.3	0.2	<0.05	7	<0.5
1070153	Soil	5	47	0.76	125	0.096	<1	1.64	0.008	0.27	0.5	0.02	4.5	0.2	<0.05	6	0.7
1070154	Soil	4	39	0.61	145	0.065	<1	1.34	0.009	0.17	<0.1	0.04	2.7	0.1	0.06	6	0.6
1070155	Soil	5	43	0.75	112	0.095	<1	1.90	0.009	0.23	0.1	0.02	4.2	0.1	<0.05	5	0.6
1070156	Soil	5	49	0.79	143	0.104	<1	1.95	0.008	0.26	0.2	0.02	4.6	0.2	<0.05	6	0.7
1070157	Soil	5	50	0.81	114	0.108	<1	1.94	0.008	0.27	0.2	0.02	4.5	0.1	<0.05	6	<0.5
1070158	Soil	6	128	1.93	180	0.089	<1	2.73	0.020	0.21	<0.1	0.02	3.1	0.1	<0.05	8	<0.5
1070159	Soil	5	61	0.97	142	0.079	<1	1.99	0.011	0.18	0.1	0.03	3.6	0.1	<0.05	6	<0.5
1070444	Soil	4	51	0.81	171	0.094	<1	1.86	0.012	0.38	0.1	0.02	4.7	0.2	<0.05	7	<0.5
1070445	Soil	4	41	0.65	122	0.081	<1	1.52	0.009	0.27	<0.1	0.02	3.5	<0.1	<0.05	6	0.6
1070441	Soil	4	60	0.99	209	0.132	<1	2.39	0.010	0.48	0.1	0.03	6.1	0.2	<0.05	8	0.5
1070442	Soil	4	61	0.94	209	0.131	<1	2.18	0.009	0.51	0.1	0.02	6.4	0.2	<0.05	7	<0.5
1070440	Soil	4	61	0.93	228	0.125	<1	2.27	0.011	0.49	<0.1	0.02	6.2	0.2	0.08	8	<0.5
1070443	Soil	4	52	0.87	129	0.132	<1	1.98	0.009	0.42	0.1	0.01	5.2	0.2	0.06	7	<0.5
1058940	Soil	5	68	1.03	216	0.119	<1	2.40	0.015	0.58	0.1	0.01	6.6	0.3	0.14	7	0.5
1058948	Soil	5	59	0.95	202	0.119	<1	2.10	0.012	0.47	<0.1	<0.01	6.3	0.2	0.10	7	0.6
1058927	Soil	5	62	1.02	241	0.119	<1	2.67	0.010	0.47	0.1	0.02	6.9	0.2	0.07	6	0.6
1058942	Soil	8	109	1.33	181	0.139	1	2.68	0.017	0.30	0.1	<0.01	5.6	0.2	<0.05	8	0.7
1058949	Soil	5	57	0.93	200	0.113	<1	2.07	0.011	0.49	<0.1	0.02	6.1	0.2	0.10	7	<0.5
1058946	Soil	4	57	0.88	166	0.111	<1	2.00	0.011	0.36	0.1	0.04	5.3	0.2	0.15	8	0.8
1058925	Soil	4	72	1.07	260	0.128	<1	2.57	0.011	0.55	0.2	0.01	8.0	0.3	0.09	7	0.8
1058924	Soil	4	63	0.95	195	0.119	<1	2.26	0.008	0.49	0.1	0.02	6.6	0.2	0.07	7	<0.5
1058947	Soil	4	65	1.05	234	0.130	<1	2.30	0.015	0.54	0.2	0.02	6.6	0.2	0.12	8	<0.5
1062037	Soil	8	70	1.11	142	0.119	2	2.59	0.012	0.27	0.1	0.02	5.8	0.2	0.06	9	0.7
1058930	Soil	6	102	1.41	368	0.155	2	3.01	0.012	0.78	0.2	0.03	9.4	0.3	0.05	10	0.7
1058921	Soil	7	70	1.12	226	0.147	2	2.50	0.012	0.64	0.1	0.02	7.4	0.3	<0.05	8	<0.5
1058929	Soil	6	87	1.23	307	0.145	1	2.88	0.011	0.61	0.1	0.02	8.0	0.3	<0.05	9	<0.5
1058937	Soil	9	178	2.07	438	0.193	<1	3.91	0.024	1.12	0.1	0.02	13.3	0.4	<0.05	14	0.6
1058934	Soil	6	60	0.89	133	0.123	2	2.16	0.012	0.30	0.2	0.04	5.2	0.2	<0.05	8	0.5



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1058941	Soil	0.8	39.0	7.5	78	0.1	44.9	15.5	414	3.56	22.5	0.6	2.2	2.0	32	<0.1	0.4	0.1	95	0.24	0.047
1062040	Soil	1.0	52.2	6.5	61	<0.1	42.9	15.5	364	3.60	25.2	0.5	9.4	1.3	29	0.1	0.3	0.2	99	0.25	0.080
1058928	Soil	1.1	73.2	11.0	122	0.1	91.9	34.7	839	6.07	124.9	0.8	26.2	2.5	27	0.2	2.4	0.2	93	0.28	0.090
1058932	Soil	1.7	36.3	9.2	61	<0.1	31.6	15.0	603	3.48	12.3	0.7	4.0	0.6	22	<0.1	0.6	0.2	91	0.18	0.080
1058939	Soil	0.8	52.1	6.2	63	<0.1	35.6	14.1	408	4.00	13.1	0.4	3.2	1.5	24	<0.1	0.3	0.2	111	0.19	0.040
1058931	Soil	0.6	47.7	6.3	68	0.3	52.0	17.8	347	4.21	24.7	0.5	6.7	1.6	18	<0.1	0.2	0.2	135	0.24	0.087
1058923	Soil	0.8	46.3	5.4	56	0.1	42.1	15.9	404	4.06	13.5	0.5	2.4	1.6	20	<0.1	0.2	0.1	115	0.21	0.068
1058944	Soil	1.0	38.3	6.3	80	<0.1	41.4	13.4	297	3.79	20.1	0.5	7.9	1.6	49	<0.1	0.3	0.1	100	0.21	0.052
1058938	Soil	0.9	33.4	6.9	74	<0.1	40.1	13.7	346	3.72	12.6	0.6	2.9	1.9	22	0.1	0.4	0.1	109	0.23	0.049
1062039	Soil	1.1	38.7	5.9	63	<0.1	33.8	13.4	349	3.59	10.7	0.6	1.9	1.3	30	0.2	0.3	0.2	102	0.30	0.078
1062036	Soil	0.9	42.9	5.9	64	<0.1	38.0	15.9	385	3.67	12.5	0.4	4.7	1.3	29	0.2	0.3	0.2	102	0.25	0.080
1058945	Soil	0.7	47.2	6.6	83	<0.1	53.6	18.5	386	3.91	30.0	0.5	9.9	1.3	37	0.3	0.3	0.2	105	0.24	0.061
1062038	Soil	1.0	36.0	5.9	59	<0.1	33.9	13.2	332	3.43	10.5	0.5	2.3	1.1	27	0.1	0.3	0.2	100	0.26	0.072
1058943	Soil	1.2	32.3	6.6	69	<0.1	31.3	12.0	304	3.55	11.2	0.5	1.5	1.3	24	0.2	0.4	0.2	93	0.21	0.057
1058950	Soil	1.2	61.4	10.9	71	0.1	59.6	22.4	441	4.06	23.1	1.0	4.3	4.3	49	0.2	0.3	0.2	114	0.34	0.097
1058933	Soil	0.4	80.5	5.7	26	<0.1	76.7	22.1	574	4.83	34.6	0.3	2.7	0.7	30	0.1	0.2	0.2	159	0.27	0.093
1058935	Soil	1.1	45.6	6.9	61	<0.1	41.5	14.3	353	3.99	15.9	0.4	2.7	1.1	20	0.1	0.4	0.2	119	0.19	0.056
1062371	Soil	1.0	69.8	7.2	108	0.2	66.3	23.7	480	4.15	24.3	0.9	3.6	2.9	57	0.1	0.3	0.2	94	0.33	0.081
1058926	Soil	0.7	44.2	5.1	46	<0.1	41.8	16.0	477	3.77	14.9	0.4	2.6	1.3	18	0.1	0.2	0.1	109	0.19	0.069
1062372	Soil	1.0	76.9	6.7	113	0.1	58.3	20.8	438	4.44	15.7	1.0	2.4	2.4	50	0.1	0.2	0.2	109	0.33	0.089
1062378	Soil	0.9	54.5	6.6	102	0.2	48.8	22.2	560	4.02	10.8	0.9	1.7	3.6	28	0.1	0.2	0.2	90	0.28	0.094
1062370	Soil	1.1	77.7	6.8	114	0.1	66.4	23.1	557	4.51	25.3	0.9	3.1	3.6	50	0.2	0.3	0.2	102	0.26	0.071
1062365	Soil	0.7	52.3	4.0	99	0.1	47.0	17.7	435	3.80	15.9	0.7	1.8	3.7	31	<0.1	0.2	0.1	79	0.33	0.111
1062368	Soil	0.9	66.7	6.8	107	0.3	49.7	18.2	432	4.19	26.0	0.9	4.8	1.9	34	0.1	0.3	0.2	88	0.25	0.085
1062376	Soil	0.8	56.7	4.8	106	0.2	50.8	21.8	474	4.09	12.0	1.1	3.0	4.1	30	<0.1	0.3	0.2	90	0.28	0.095
1062377	Soil	0.8	54.7	4.7	103	0.2	48.4	20.5	487	4.02	12.3	0.9	2.3	3.8	29	<0.1	0.2	0.2	88	0.28	0.099
1062375	Soil	0.9	55.3	5.3	108	0.3	51.0	21.9	535	4.26	15.6	1.0	3.0	3.3	32	0.1	0.3	0.2	96	0.29	0.088
1062373	Soil	1.1	29.2	5.7	65	0.2	24.8	10.6	333	2.66	7.4	0.7	3.3	0.4	31	0.3	0.3	0.1	68	0.31	0.080
1062369	Soil	0.8	74.2	6.6	109	0.2	64.1	23.8	509	4.14	34.2	0.9	4.0	3.5	38	0.1	0.3	0.2	90	0.28	0.096
1062374	Soil	0.9	57.8	6.0	100	0.3	50.4	21.9	511	4.01	13.0	1.2	2.0	2.5	50	0.1	0.2	0.2	100	0.39	0.092



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1058941	Soil	10	73	1.16	211	0.126	2	2.75	0.014	0.43	0.1	0.02	6.5	0.2	<0.05	9	<0.5	<0.2
1062040	Soil	7	69	1.04	213	0.125	1	2.42	0.013	0.34	0.1	0.02	6.1	0.2	<0.05	8	<0.5	<0.2
1058928	Soil	8	76	1.19	366	0.082	<1	3.02	0.010	0.43	0.3	0.01	8.2	0.2	<0.05	7	0.8	<0.2
1058932	Soil	8	58	0.85	130	0.078	2	2.14	0.011	0.22	<0.1	0.04	4.2	0.2	0.06	7	<0.5	<0.2
1058939	Soil	7	74	1.19	236	0.169	1	2.73	0.017	0.55	0.1	0.03	7.7	0.3	0.07	9	0.6	<0.2
1058931	Soil	6	97	1.34	303	0.163	<1	3.25	0.009	0.76	0.2	0.02	9.6	0.3	<0.05	11	<0.5	<0.2
1058923	Soil	6	76	1.18	222	0.167	1	2.82	0.011	0.67	0.1	0.02	8.0	0.3	<0.05	9	<0.5	<0.2
1058944	Soil	7	76	1.09	205	0.145	1	2.59	0.015	0.45	0.1	0.05	6.8	0.2	0.08	9	<0.5	<0.2
1058938	Soil	7	92	1.24	207	0.154	2	2.60	0.013	0.45	0.2	0.02	7.5	0.2	<0.05	10	<0.5	<0.2
1062039	Soil	8	66	1.00	239	0.137	2	2.53	0.012	0.38	<0.1	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
1062036	Soil	5	66	1.08	232	0.138	2	2.57	0.014	0.48	0.1	0.02	6.1	0.2	0.09	8	0.5	<0.2
1058945	Soil	6	90	1.27	230	0.154	1	2.72	0.017	0.65	0.1	0.02	7.5	0.2	0.07	9	<0.5	<0.2
1062038	Soil	6	65	0.97	249	0.127	2	2.43	0.011	0.35	0.1	0.02	6.0	0.2	0.06	8	<0.5	<0.2
1058943	Soil	6	66	0.95	140	0.122	2	2.53	0.010	0.27	0.1	0.04	5.2	0.2	0.07	8	0.6	<0.2
1058950	Soil	8	102	1.36	392	0.152	<1	2.70	0.020	0.55	0.1	0.06	6.4	0.3	0.11	9	<0.5	<0.2
1058933	Soil	3	110	1.43	552	0.209	1	3.50	0.015	1.55	0.1	<0.01	12.6	0.5	<0.05	10	<0.5	<0.2
1058935	Soil	5	81	1.13	186	0.155	1	2.62	0.011	0.46	0.2	0.03	7.0	0.2	0.07	9	0.6	<0.2
1062371	Soil	14	64	1.20	188	0.081	<1	2.75	0.012	0.40	<0.1	0.02	5.5	0.3	<0.05	9	0.6	<0.2
1058926	Soil	5	70	1.04	230	0.142	<1	2.58	0.011	0.51	0.1	0.02	7.0	0.3	<0.05	7	<0.5	<0.2
1062372	Soil	15	74	1.42	194	0.106	1	2.95	0.018	0.36	<0.1	0.02	6.6	0.2	0.07	10	0.7	<0.2
1062378	Soil	13	68	1.25	160	0.101	1	2.58	0.010	0.35	<0.1	0.02	5.3	0.3	<0.05	8	<0.5	<0.2
1062370	Soil	16	68	1.32	164	0.103	<1	2.83	0.011	0.37	<0.1	0.02	6.0	0.3	<0.05	9	<0.5	<0.2
1062365	Soil	12	60	1.20	134	0.089	<1	2.32	0.009	0.39	<0.1	0.01	5.0	0.2	<0.05	8	<0.5	<0.2
1062368	Soil	13	64	1.21	116	0.080	2	2.55	0.013	0.24	<0.1	0.03	4.6	0.2	0.06	9	<0.5	<0.2
1062376	Soil	14	70	1.30	162	0.101	1	2.63	0.009	0.43	<0.1	0.02	5.6	0.3	<0.05	8	<0.5	<0.2
1062377	Soil	12	66	1.27	152	0.098	1	2.56	0.009	0.40	<0.1	0.02	5.4	0.3	<0.05	8	<0.5	<0.2
1062375	Soil	15	72	1.32	171	0.101	1	2.69	0.009	0.41	<0.1	0.04	5.5	0.3	<0.05	9	<0.5	<0.2
1062373	Soil	8	44	0.61	116	0.063	2	1.45	0.015	0.11	<0.1	0.06	2.5	0.1	0.13	6	<0.5	<0.2
1062369	Soil	15	61	1.18	153	0.101	<1	2.53	0.011	0.38	<0.1	0.01	5.1	0.2	<0.05	8	<0.5	<0.2
1062374	Soil	17	78	1.28	258	0.095	1	2.80	0.012	0.40	<0.1	0.04	6.0	0.3	0.08	9	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1062357	Soil	0.6	49.5	4.5	85	0.1	41.9	15.6	393	3.52	17.6	0.8	4.8	2.7	23	0.1	0.2	0.1	86	0.29	0.107
1062366	Soil	0.8	44.8	3.9	87	0.2	40.1	17.3	471	3.53	12.7	0.9	1.7	2.9	45	<0.1	0.2	0.1	81	0.37	0.107
1062354	Soil	1.0	61.3	6.5	93	0.1	45.5	18.0	440	4.45	10.2	0.8	2.8	2.1	27	0.1	0.3	0.2	113	0.28	0.089
1062367	Soil	0.9	55.7	5.4	105	0.2	53.5	20.4	470	4.32	27.9	0.9	4.4	2.8	31	0.1	0.2	0.2	93	0.23	0.086
1062352	Soil	1.0	69.2	6.5	88	<0.1	53.3	20.3	545	4.54	13.9	0.7	7.7	2.5	25	0.1	0.4	0.2	106	0.30	0.087
1062380	Soil	0.9	70.8	5.9	112	0.4	56.5	20.4	541	4.56	22.3	1.1	78.9	4.0	28	0.1	0.7	0.2	96	0.31	0.092
1042736	Soil	0.7	35.5	4.4	105	0.2	43.6	17.6	481	3.94	10.2	0.6	3.5	3.2	29	0.1	0.3	0.2	91	0.31	0.090
1062353	Soil	0.8	68.7	14.5	118	<0.1	57.5	21.6	596	4.80	13.1	0.8	2.9	3.5	30	0.2	0.3	0.2	121	0.35	0.089
1062364	Soil	1.0	65.9	4.9	94	0.3	47.8	24.3	761	3.97	18.5	1.3	2.0	3.1	35	<0.1	0.2	0.2	90	0.39	0.095
1062351	Soil	0.9	59.8	5.8	89	<0.1	50.8	19.6	506	4.27	11.3	0.7	1.8	2.7	24	0.2	0.3	0.2	107	0.29	0.094
1062360	Soil	0.6	43.5	4.2	96	0.2	43.3	16.5	395	3.80	10.9	0.7	3.0	3.4	25	<0.1	0.2	0.2	80	0.24	0.087
1042734	Soil	0.5	52.1	3.7	101	0.1	46.1	16.9	487	3.93	10.1	0.7	8.7	4.0	28	0.1	0.3	0.1	77	0.36	0.117
1042733	Soil	0.9	55.6	4.9	99	0.3	45.6	18.8	517	4.10	11.8	1.0	3.3	3.7	25	<0.1	0.3	0.2	91	0.28	0.076
1062379	Soil	0.8	56.3	4.7	108	0.2	51.6	20.2	511	4.35	11.5	0.8	2.3	3.7	28	<0.1	0.2	0.2	97	0.26	0.091
1042735	Soil	1.0	43.2	5.0	103	0.2	44.8	21.3	530	4.31	14.8	0.9	1.7	4.0	27	<0.1	0.3	0.2	94	0.30	0.098
1059748	Soil	0.9	40.7	4.9	68	<0.1	30.6	12.9	381	3.71	6.3	0.5	1.0	1.3	27	0.1	0.3	0.1	103	0.26	0.066
1059735	Soil	0.9	49.4	5.7	54	<0.1	42.7	16.6	377	3.75	10.2	0.4	1.0	1.3	30	<0.1	0.4	0.2	102	0.19	0.060
1059738	Soil	0.8	41.7	4.9	64	<0.1	39.7	15.6	391	3.50	8.9	0.3	2.1	1.0	18	0.1	0.2	0.1	93	0.18	0.048
1059746	Soil	0.8	51.7	6.3	71	0.2	70.5	23.4	549	4.03	8.5	0.6	2.0	1.8	33	0.1	0.4	0.2	118	0.29	0.074
1059742	Soil	1.0	64.5	3.9	106	<0.1	125.4	31.3	295	4.75	4.7	0.8	1.1	2.1	19	<0.1	0.1	0.2	169	0.21	0.055
1059739	Soil	0.9	38.5	4.9	64	<0.1	37.5	16.5	392	3.54	7.5	0.4	1.9	1.4	18	0.2	0.7	0.1	89	0.18	0.041
1059745	Soil	0.9	38.5	4.9	62	0.1	41.9	14.2	350	3.47	6.5	0.4	1.6	0.9	20	0.1	0.3	0.2	102	0.20	0.050
1058922	Soil	0.8	39.9	5.0	48	<0.1	38.0	14.7	358	3.59	11.5	0.4	1.3	1.3	17	0.1	0.2	0.1	105	0.20	0.060
1062359	Soil	0.6	40.7	3.6	81	0.1	41.3	15.9	448	3.40	10.8	0.5	4.6	2.5	27	<0.1	0.2	0.1	77	0.31	0.086
1062358	Soil	0.8	50.3	4.2	85	0.1	44.8	15.8	412	3.60	12.9	0.9	2.3	3.6	26	<0.1	0.2	0.2	82	0.31	0.098
1062356	Soil	0.7	46.3	3.7	93	0.1	45.9	15.1	408	3.79	11.6	0.7	2.7	3.6	27	0.1	0.2	0.1	79	0.28	0.104
1062362	Soil	1.0	45.2	4.3	79	0.2	37.0	14.3	356	3.48	11.5	0.8	3.6	2.0	27	<0.1	0.3	0.2	75	0.27	0.091
1062361	Soil	0.7	43.7	4.1	91	0.2	42.9	16.6	401	3.69	12.7	0.7	1.9	3.3	25	<0.1	0.2	0.2	82	0.29	0.092
1062363	Soil	0.8	42.4	4.0	94	0.2	43.5	16.8	443	3.65	15.4	0.6	2.8	3.1	26	<0.1	0.2	0.2	77	0.27	0.089
1062355	Soil	0.8	36.0	5.0	90	0.1	39.5	13.7	432	3.63	10.9	0.7	4.1	1.5	23	0.2	0.2	0.2	83	0.24	0.094



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1062357	Soil	11	60	1.09	183	0.096	<1	2.31	0.010	0.42	<0.1	0.02	4.9	0.2	<0.05	7	<0.5	<0.2
1062366	Soil	13	58	1.13	175	0.081	<1	2.24	0.012	0.35	<0.1	0.02	4.8	0.3	<0.05	7	<0.5	<0.2
1062354	Soil	11	75	1.29	214	0.132	2	2.99	0.016	0.37	<0.1	0.01	6.7	0.2	0.07	9	<0.5	<0.2
1062367	Soil	12	73	1.32	131	0.092	<1	2.75	0.011	0.37	<0.1	0.03	5.1	0.3	0.06	9	<0.5	<0.2
1062352	Soil	10	75	1.34	165	0.132	1	3.06	0.012	0.27	<0.1	0.02	6.0	0.3	<0.05	8	<0.5	<0.2
1062380	Soil	13	69	1.31	159	0.099	1	2.67	0.010	0.52	0.1	0.02	6.0	0.3	<0.05	9	<0.5	<0.2
1042736	Soil	10	73	1.33	172	0.108	1	2.57	0.009	0.43	<0.1	0.02	5.5	0.3	<0.05	9	<0.5	<0.2
1062353	Soil	13	91	1.53	287	0.160	1	3.33	0.014	0.47	<0.1	0.01	8.2	0.4	<0.05	10	<0.5	<0.2
1062364	Soil	17	66	1.15	195	0.093	1	2.44	0.012	0.30	<0.1	0.03	5.3	0.3	0.06	8	0.8	<0.2
1062351	Soil	11	75	1.27	204	0.132	2	2.83	0.013	0.37	<0.1	0.02	6.4	0.3	<0.05	9	<0.5	<0.2
1062360	Soil	10	64	1.23	141	0.091	<1	2.51	0.008	0.39	<0.1	0.03	4.9	0.3	<0.05	8	<0.5	<0.2
1042734	Soil	12	58	1.20	124	0.088	<1	2.20	0.011	0.40	<0.1	<0.01	4.8	0.2	<0.05	7	<0.5	<0.2
1042733	Soil	13	68	1.21	153	0.104	<1	2.52	0.010	0.36	<0.1	0.04	5.6	0.3	<0.05	8	<0.5	<0.2
1062379	Soil	13	75	1.34	165	0.109	1	2.87	0.009	0.36	<0.1	0.02	5.7	0.3	<0.05	9	<0.5	<0.2
1042735	Soil	12	70	1.28	158	0.104	<1	2.67	0.009	0.40	<0.1	0.03	5.6	0.3	<0.05	8	<0.5	<0.2
1059748	Soil	7	65	0.99	234	0.158	2	2.35	0.020	0.39	0.1	0.02	6.2	0.2	0.11	8	<0.5	<0.2
1059735	Soil	5	63	1.02	284	0.160	1	2.46	0.014	0.71	0.1	<0.01	6.6	0.2	0.07	8	<0.5	<0.2
1059738	Soil	4	59	0.94	200	0.157	2	2.28	0.016	0.52	0.4	<0.01	6.0	0.2	<0.05	8	0.5	<0.2
1059746	Soil	7	103	1.51	286	0.164	2	3.21	0.015	0.61	0.2	0.02	7.7	0.3	<0.05	9	<0.5	<0.2
1059742	Soil	8	168	1.86	468	0.231	<1	3.54	0.020	1.06	<0.1	<0.01	12.0	0.4	0.08	12	0.5	<0.2
1059739	Soil	6	52	0.89	131	0.144	<1	1.95	0.015	0.38	0.1	<0.01	5.0	0.2	0.06	7	<0.5	<0.2
1059745	Soil	5	72	1.05	203	0.140	1	2.56	0.015	0.39	0.1	0.02	5.8	0.2	0.08	8	<0.5	<0.2
1058922	Soil	5	69	1.04	194	0.144	1	2.56	0.010	0.58	0.1	0.02	6.6	0.3	<0.05	8	<0.5	<0.2
1062359	Soil	9	55	1.04	128	0.082	<1	2.10	0.009	0.31	<0.1	0.01	4.3	0.2	<0.05	7	<0.5	<0.2
1062358	Soil	13	60	1.08	144	0.091	<1	2.24	0.009	0.37	<0.1	0.02	5.3	0.2	<0.05	7	<0.5	<0.2
1062356	Soil	11	60	1.20	137	0.086	<1	2.41	0.008	0.45	<0.1	0.01	4.8	0.2	<0.05	7	<0.5	<0.2
1062362	Soil	9	56	1.00	111	0.072	<1	2.24	0.010	0.25	<0.1	0.03	3.9	0.3	0.06	7	0.7	<0.2
1062361	Soil	11	61	1.18	143	0.092	<1	2.44	0.009	0.42	<0.1	0.02	5.0	0.3	<0.05	8	<0.5	<0.2
1062363	Soil	10	57	1.13	128	0.081	<1	2.26	0.008	0.37	<0.1	0.01	4.3	0.2	<0.05	7	<0.5	<0.2
1062355	Soil	9	61	1.10	125	0.072	1	2.42	0.008	0.26	<0.1	<0.01	3.9	0.2	<0.05	8	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1085444	Soil	1.0	36.0	4.8	52	<0.1	37.6	15.1	425	3.35	8.3	0.5	2.8	1.2	22	0.1	0.2	0.1	92	0.25
1085446	Soil	0.9	42.1	4.6	67	<0.1	47.4	17.5	397	3.57	6.9	0.4	7.4	1.3	21	0.1	0.2	0.1	98	0.23
1064301	Soil	0.8	40.6	4.8	44	<0.1	45.8	16.4	352	3.31	6.6	0.4	1.1	1.4	19	0.2	0.3	0.1	89	0.24
1085447	Soil	0.9	45.5	4.8	57	<0.1	45.6	17.3	440	3.49	8.8	0.5	11.2	1.6	22	0.1	0.4	0.1	90	0.29
1085438	Soil	0.8	40.4	4.4	71	<0.1	36.6	15.7	372	3.89	5.0	0.5	1.8	1.6	24	0.1	0.2	0.1	112	0.23
1085449	Soil	0.8	65.7	4.6	50	<0.1	41.1	17.3	351	3.15	7.3	0.5	4.1	1.6	23	0.1	0.3	0.1	80	0.35
1085450	Soil	0.7	46.7	4.6	57	<0.1	48.3	16.7	377	3.45	10.1	0.4	1.8	1.5	24	0.1	0.4	0.1	89	0.32
1085442	Soil	0.8	35.0	5.2	55	<0.1	33.7	13.4	349	3.31	5.6	0.5	0.9	1.6	17	0.2	0.2	0.1	94	0.17
1085441	Soil	1.1	39.7	4.5	54	<0.1	40.4	16.6	424	3.66	4.9	0.4	1.8	1.3	19	0.1	0.2	0.2	109	0.21
1085435	Soil	0.9	47.6	5.1	67	<0.1	42.3	17.5	413	3.81	6.4	0.5	1.3	1.3	20	<0.1	0.2	0.2	111	0.18
1059741	Soil	0.8	51.5	5.2	66	<0.1	48.3	20.0	446	3.87	7.4	0.5	1.2	1.3	22	0.1	0.3	0.1	100	0.23
1085437	Soil	0.8	42.3	4.6	62	<0.1	35.4	14.0	344	3.52	5.0	0.5	9.3	1.4	23	0.1	0.3	0.1	102	0.23
1085436	Soil	0.9	39.5	5.1	70	<0.1	32.3	14.5	387	3.63	5.3	0.4	1.1	1.1	20	0.1	0.2	0.1	98	0.17
1085439	Soil	0.7	49.2	4.9	53	<0.1	41.3	17.1	421	3.78	6.6	0.4	2.7	1.6	25	0.2	0.2	0.1	106	0.35
1059747	Soil	1.1	33.7	6.7	67	0.1	32.9	15.2	522	3.19	6.6	0.6	1.6	1.0	24	0.2	0.3	0.2	90	0.24
1076788	Soil	0.5	64.4	2.8	74	0.2	87.0	16.1	442	3.30	158.5	0.3	13.8	1.4	46	<0.1	0.2	0.3	71	0.52
1076789	Soil	0.8	44.8	4.3	85	0.2	45.0	13.6	429	3.51	154.8	0.5	9.2	1.5	25	0.1	0.2	0.2	101	0.35
1076790	Soil	0.7	41.7	4.2	82	0.2	40.1	14.7	494	3.46	132.7	0.5	6.1	1.4	26	0.1	0.2	0.2	96	0.35
1059737	Soil	1.0	58.7	5.5	47	<0.1	46.3	21.4	397	3.90	14.5	0.5	1.3	1.4	18	<0.1	0.3	0.1	95	0.17
1059740	Soil	0.8	36.3	5.1	66	<0.1	34.9	15.7	371	3.45	7.2	0.4	1.2	1.5	17	<0.1	0.6	0.1	85	0.19
1059743	Soil	0.8	40.7	4.7	66	<0.1	36.2	14.9	392	3.48	6.7	0.5	2.7	1.4	19	0.1	0.3	0.2	100	0.20
1059736	Soil	1.2	48.7	6.5	56	0.1	45.4	24.6	515	3.67	11.0	0.6	1.7	1.2	22	<0.1	0.4	0.1	90	0.24
1085445	Soil	0.8	40.4	5.7	67	<0.1	43.2	16.3	380	3.65	9.6	0.5	3.8	1.4	22	<0.1	0.5	0.3	99	0.23
1085448	Soil	0.9	42.8	5.8	44	<0.1	35.7	14.0	394	3.46	12.1	0.5	5.0	1.1	21	0.1	0.4	0.4	97	0.23
1064302	Soil	1.2	52.8	6.0	53	<0.1	41.1	18.8	536	3.87	22.3	0.5	3.0	1.4	22	0.2	0.4	0.5	106	0.25
1085443	Soil	0.7	61.8	5.5	55	<0.1	55.3	18.6	369	3.55	21.8	0.5	11.4	1.4	25	0.1	0.9	0.3	98	0.32
1059749	Soil	0.9	39.9	4.8	75	<0.1	39.8	16.5	396	3.63	8.9	0.5	3.9	1.7	23	0.2	0.3	0.3	100	0.22
1085440	Soil	0.6	41.7	3.8	45	<0.1	33.1	13.7	342	2.98	10.5	0.5	9.2	1.8	24	0.3	0.3	0.2	78	0.36
1059744	Soil	0.8	54.1	4.7	69	0.1	54.5	20.3	408	3.76	8.5	0.5	1.6	1.5	23	0.2	0.3	0.2	108	0.22
1059750	Soil	1.1	44.4	5.9	73	<0.1	34.2	15.5	428	3.75	6.2	0.4	1.4	0.9	21	0.2	0.3	0.2	114	0.19



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1085444	Soil	6	56	0.88	173	0.130	2	1.91	0.014	0.36	0.1	0.02	5.0	0.2	0.06	7	<0.5	<0.2
1085446	Soil	6	67	1.04	222	0.151	<1	2.41	0.019	0.49	0.1	0.01	6.1	0.2	0.09	8	<0.5	<0.2
1064301	Soil	6	48	0.84	137	0.140	1	1.88	0.015	0.27	0.1	<0.01	4.7	0.2	0.06	6	<0.5	<0.2
1085447	Soil	7	54	0.85	162	0.126	1	2.05	0.014	0.33	0.1	0.01	5.0	0.2	<0.05	6	<0.5	<0.2
1085438	Soil	7	77	1.21	339	0.180	<1	2.60	0.023	0.74	0.1	0.01	7.5	0.3	0.10	9	<0.5	<0.2
1085449	Soil	8	45	0.80	103	0.114	1	1.76	0.016	0.23	0.1	0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1085450	Soil	6	57	0.87	181	0.137	1	1.94	0.016	0.35	0.2	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1085442	Soil	7	58	0.99	205	0.147	1	2.44	0.014	0.49	0.1	0.02	5.6	0.2	<0.05	7	<0.5	<0.2
1085441	Soil	5	74	1.14	382	0.176	<1	2.81	0.018	0.87	0.1	0.01	7.4	0.3	0.05	9	<0.5	<0.2
1085435	Soil	6	72	1.10	275	0.167	<1	2.60	0.020	0.59	0.1	0.01	7.0	0.3	0.09	9	<0.5	<0.2
1059741	Soil	6	60	1.01	223	0.150	<1	2.44	0.018	0.44	0.2	0.02	5.8	0.3	0.07	8	0.6	<0.2
1085437	Soil	6	67	1.00	254	0.153	<1	2.38	0.017	0.49	0.1	0.01	6.1	0.2	0.07	8	<0.5	<0.2
1085436	Soil	6	62	1.02	206	0.151	1	2.39	0.016	0.50	0.1	0.01	5.5	0.2	0.08	8	<0.5	<0.2
1085439	Soil	6	62	1.08	240	0.166	1	2.54	0.020	0.57	0.3	0.02	6.6	0.3	0.06	7	<0.5	<0.2
1059747	Soil	6	63	0.95	235	0.109	2	2.36	0.017	0.36	0.1	0.04	5.1	0.2	0.11	8	<0.5	<0.2
1076788	Soil	5	118	1.52	294	0.154	<1	3.16	0.038	0.90	<0.1	0.01	4.3	0.4	<0.05	9	<0.5	<0.2
1076789	Soil	6	68	1.02	299	0.185	<1	2.58	0.016	0.78	0.3	<0.01	7.1	0.3	<0.05	9	<0.5	<0.2
1076790	Soil	6	65	1.02	294	0.172	<1	2.58	0.015	0.73	0.2	<0.01	6.6	0.2	<0.05	8	<0.5	<0.2
1059737	Soil	5	53	0.92	190	0.152	<1	2.28	0.014	0.58	0.3	<0.01	5.3	0.2	0.06	7	<0.5	<0.2
1059740	Soil	6	53	0.91	137	0.147	<1	2.00	0.015	0.41	0.1	<0.01	4.9	0.2	<0.05	7	<0.5	<0.2
1059743	Soil	6	65	1.04	256	0.157	<1	2.51	0.018	0.53	0.1	<0.01	6.2	0.2	0.08	8	<0.5	<0.2
1059736	Soil	6	54	0.92	204	0.127	1	2.25	0.014	0.46	0.2	0.02	5.3	0.2	0.05	7	<0.5	<0.2
1085445	Soil	7	68	1.08	201	0.153	1	2.48	0.013	0.45	0.2	0.02	6.8	0.2	0.07	8	0.5	<0.2
1085448	Soil	6	50	0.84	166	0.125	<1	2.01	0.013	0.27	0.2	0.03	5.2	0.2	<0.05	7	0.5	<0.2
1064302	Soil	7	58	1.06	189	0.159	2	2.44	0.013	0.34	0.1	0.01	6.2	0.3	<0.05	7	<0.5	<0.2
1085443	Soil	6	58	0.97	244	0.140	<1	2.21	0.012	0.57	0.1	0.01	6.6	0.2	<0.05	7	0.6	<0.2
1059749	Soil	6	66	1.09	248	0.180	<1	2.60	0.019	0.59	0.1	0.02	6.9	0.3	<0.05	9	<0.5	<0.2
1085440	Soil	7	39	0.75	131	0.121	<1	1.66	0.016	0.31	0.1	0.02	4.5	0.2	<0.05	5	<0.5	<0.2
1059744	Soil	6	74	1.16	306	0.177	1	2.70	0.016	0.65	0.1	0.02	7.8	0.3	<0.05	9	0.7	<0.2
1059750	Soil	5	70	1.10	234	0.160	1	2.46	0.016	0.47	0.1	0.03	6.5	0.3	0.07	9	<0.5	<0.2



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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1076785	Soil		0.7	40.0	3.5	82	0.1	40.3	14.6	513	3.42	112.1	0.5	9.8	1.7	22	<0.1	0.2	0.2	104	0.34
1076782	Soil		1.0	37.4	4.1	62	0.4	30.6	17.6	561	2.86	80.4	0.6	20.3	0.7	34	<0.1	0.2	0.2	83	0.39
1076781	Soil		0.7	29.6	4.1	68	0.1	31.0	11.8	337	2.84	81.4	0.5	6.7	1.6	23	0.1	0.2	0.2	76	0.31
1076784	Soil		0.6	31.7	3.3	70	<0.1	35.3	12.1	424	3.10	89.7	0.5	6.3	1.9	23	<0.1	0.2	0.1	91	0.31
1076783	Soil		1.1	44.0	5.7	85	0.4	39.6	21.4	605	3.35	91.7	0.6	6.2	1.2	32	0.2	0.2	0.2	86	0.35
1076786	Soil		0.9	62.8	4.5	79	0.4	63.6	15.7	431	3.54	143.4	0.5	25.9	1.5	38	<0.1	0.2	0.2	93	0.42
1076787	Soil		0.6	55.7	3.5	78	0.2	83.4	18.1	438	3.39	170.3	0.3	11.6	1.5	53	<0.1	0.3	0.2	70	0.48
1076794	Soil		1.0	58.1	6.9	105	0.4	45.4	18.3	645	4.04	131.8	0.6	7.5	1.6	39	0.1	0.2	0.2	108	0.38
1076793	Soil		0.6	35.8	4.3	89	0.2	39.8	13.7	430	3.65	114.9	0.4	5.1	1.5	27	<0.1	0.2	0.2	103	0.33
1076798	Soil		0.8	43.7	5.3	92	0.2	44.3	17.7	519	3.95	129.2	0.5	11.2	1.7	23	0.1	0.2	0.2	107	0.31
1076797	Soil		0.9	45.8	5.3	92	0.2	44.4	17.4	516	4.01	136.9	0.5	10.6	1.6	24	<0.1	0.3	0.2	109	0.32
1076791	Soil		0.9	38.9	4.8	86	0.3	43.1	14.4	452	3.70	104.4	0.5	9.6	1.7	27	0.1	0.2	0.2	104	0.33
1076792	Soil		1.0	44.3	6.1	98	0.3	45.1	16.2	514	3.97	125.1	0.5	7.0	1.8	32	0.2	0.3	0.2	109	0.38
1076795	Soil		0.8	47.9	5.8	88	0.3	46.6	15.3	455	3.81	128.2	0.5	10.8	1.7	27	0.1	0.2	0.2	102	0.31
1076796	Soil		1.0	43.5	5.4	75	0.2	38.3	17.6	668	3.49	92.6	0.5	7.4	1.5	27	0.2	0.2	0.2	93	0.30
1076777	Soil		0.9	40.0	6.3	87	0.3	47.4	15.8	450	3.85	217.3	0.6	8.2	1.1	36	<0.1	0.4	0.2	105	0.36
1076776	Soil		0.7	28.6	4.7	69	0.4	37.7	13.0	334	3.34	174.7	0.5	15.6	1.2	29	<0.1	0.2	0.2	92	0.33
1076772	Soil		0.7	42.3	5.8	87	0.4	42.5	16.7	517	3.71	126.0	0.7	27.8	1.6	34	0.1	0.4	0.3	100	0.33
1076780	Soil		1.1	38.6	6.6	78	0.3	38.3	22.6	649	3.60	108.8	0.7	10.0	1.1	26	<0.1	0.2	0.2	102	0.29
1076779	Soil		0.5	28.6	3.8	66	0.1	29.7	11.0	379	2.82	78.4	0.5	8.3	1.5	24	<0.1	0.2	0.2	81	0.31
1063008	Soil		0.8	39.8	4.5	80	0.1	43.2	16.8	471	3.48	46.3	0.3	10.4	1.1	22	<0.1	0.2	0.2	103	0.27
1063009	Soil		1.0	44.0	6.2	76	0.3	40.6	14.5	441	3.48	59.8	0.4	5.8	1.1	26	0.1	0.3	0.2	98	0.29
1076771	Soil		0.9	40.3	6.6	80	0.4	41.9	15.2	452	3.68	129.5	0.4	17.5	1.1	28	<0.1	0.3	0.3	103	0.31
1076775	Soil		0.8	40.4	5.5	77	0.4	47.6	16.5	391	3.67	134.0	0.3	20.1	1.0	34	<0.1	0.2	0.2	103	0.36
1076778	Soil		0.9	38.6	5.6	75	0.1	37.2	12.3	398	3.35	104.5	0.2	12.9	1.3	24	<0.1	0.3	0.2	95	0.27
1076774	Soil		1.0	45.6	6.1	79	0.2	42.1	14.5	463	3.61	206.9	0.3	18.0	1.2	30	<0.1	0.5	0.3	105	0.29
1063007	Soil		1.1	46.6	6.5	88	0.3	48.6	20.5	539	4.11	49.5	0.5	6.1	1.1	26	<0.1	0.3	0.2	115	0.26
1076773	Soil		0.7	39.0	5.3	76	0.2	42.2	16.9	534	3.53	177.9	0.5	16.9	1.6	29	<0.1	0.4	0.3	99	0.30
1063006	Soil		0.9	42.6	6.2	89	0.2	44.3	17.4	445	4.07	49.7	0.5	5.4	1.3	23	<0.1	0.3	0.2	117	0.26



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076785	Soil	6	68	1.01	367	0.211	<1	2.42	0.020	0.99	0.3	<0.01	7.9	0.3	<0.05	8	<0.5	<0.2
1076782	Soil	6	52	0.77	250	0.123	2	1.92	0.017	0.34	0.1	0.03	5.1	0.2	<0.05	7	<0.5	<0.2
1076781	Soil	6	51	0.81	209	0.148	1	1.94	0.014	0.46	0.2	0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1076784	Soil	7	60	0.95	310	0.184	<1	2.17	0.019	0.80	0.3	<0.01	6.7	0.3	<0.05	7	<0.5	<0.2
1076783	Soil	7	58	0.86	237	0.149	2	2.49	0.014	0.44	0.2	0.04	5.8	0.2	<0.05	8	<0.5	<0.2
1076786	Soil	6	87	1.19	301	0.169	<1	3.10	0.023	0.75	0.2	0.02	6.6	0.3	<0.05	9	<0.5	<0.2
1076787	Soil	5	103	1.44	303	0.164	<1	3.27	0.042	0.82	0.2	<0.01	4.6	0.4	<0.05	10	<0.5	<0.2
1076794	Soil	7	73	1.20	292	0.200	1	3.21	0.015	0.76	0.2	0.02	7.9	0.3	<0.05	10	<0.5	<0.2
1076793	Soil	6	69	1.17	258	0.202	<1	2.67	0.014	0.71	0.2	<0.01	7.4	0.2	<0.05	9	<0.5	<0.2
1076798	Soil	6	70	1.09	262	0.203	1	2.82	0.015	0.66	0.2	0.01	7.6	0.2	<0.05	9	<0.5	<0.2
1076797	Soil	6	71	1.11	274	0.204	2	2.95	0.016	0.69	0.3	0.01	7.6	0.3	<0.05	9	<0.5	<0.2
1076791	Soil	7	68	1.06	309	0.200	1	2.66	0.016	0.73	0.2	0.01	7.3	0.3	<0.05	9	<0.5	<0.2
1076792	Soil	7	72	1.16	274	0.212	2	2.97	0.014	0.67	0.2	0.02	7.7	0.3	<0.05	10	<0.5	<0.2
1076795	Soil	7	68	1.06	240	0.198	<1	2.77	0.016	0.66	0.2	0.02	6.6	0.3	<0.05	9	<0.5	<0.2
1076796	Soil	7	57	0.88	242	0.169	1	2.21	0.017	0.52	0.2	0.02	5.9	0.2	<0.05	8	<0.5	<0.2
1076777	Soil	6	76	1.12	337	0.144	1	2.99	0.014	0.49	0.2	0.03	7.6	0.3	<0.05	9	<0.5	<0.2
1076776	Soil	6	66	0.97	260	0.151	2	2.46	0.014	0.51	0.2	0.03	6.7	0.3	<0.05	8	<0.5	<0.2
1076772	Soil	7	75	1.14	310	0.162	2	2.88	0.016	0.72	0.2	0.05	8.0	0.3	<0.05	10	<0.5	<0.2
1076780	Soil	7	68	0.99	271	0.147	1	2.59	0.013	0.41	0.2	0.03	6.7	0.3	<0.05	9	<0.5	<0.2
1076779	Soil	6	55	0.85	264	0.150	<1	1.95	0.014	0.60	0.2	0.01	5.7	0.2	<0.05	7	<0.5	<0.2
1063008	Soil	4	70	1.07	310	0.162	<1	2.40	0.013	0.77	0.2	<0.01	6.8	0.3	0.06	8	<0.5	<0.2
1063009	Soil	6	63	0.95	286	0.142	<1	2.46	0.012	0.56	0.3	0.02	6.2	0.3	<0.05	8	0.6	<0.2
1076771	Soil	6	69	1.03	260	0.136	<1	2.71	0.011	0.39	0.3	0.04	6.7	0.3	<0.05	9	<0.5	<0.2
1076775	Soil	5	76	1.11	309	0.153	<1	2.96	0.014	0.61	0.2	0.03	7.5	0.3	0.06	9	<0.5	<0.2
1076778	Soil	5	62	0.95	267	0.154	<1	2.27	0.011	0.54	0.3	0.02	5.9	0.2	<0.05	8	<0.5	<0.2
1076774	Soil	5	70	1.02	292	0.154	<1	2.58	0.012	0.67	0.3	0.02	7.0	0.3	<0.05	9	<0.5	<0.2
1063007	Soil	5	76	1.18	304	0.161	<1	2.91	0.012	0.59	0.2	0.03	7.6	0.3	<0.05	10	<0.5	<0.2
1076773	Soil	6	66	1.04	293	0.150	<1	2.43	0.013	0.72	0.2	0.02	7.1	0.3	<0.05	8	<0.5	<0.2
1063006	Soil	6	77	1.19	309	0.177	<1	2.86	0.012	0.73	0.3	0.01	7.9	0.3	<0.05	10	<0.5	<0.2



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Soil Geochemistry

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Project: SAP
Report Date: September 10, 2011

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QUALITY CONTROL REPORT

WHI11000960.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
1059235	Soil		0.6	18.2	2.7	62	<0.1	21.1	8.1	275	2.29	20.3	0.3	11.3	1.2	24	<0.1	0.1	0.1	62	0.26	0.043	
REP 1059235	QC		0.5	17.9	2.7	61	<0.1	21.1	8.2	276	2.28	21.1	0.4	152.7	1.1	24	<0.1	<0.1	0.1	63	0.26	0.042	
1075512	Soil		0.4	20.2	2.3	52	<0.1	25.1	11.2	390	2.30	19.6	0.4	5.7	1.0	27	<0.1	<0.1	0.1	72	0.33	0.083	
REP 1075512	QC		0.4	19.3	2.2	52	<0.1	24.2	11.5	395	2.31	18.9	0.5	5.7	1.1	26	<0.1	<0.1	0.1	71	0.32	0.084	
1059242	Soil		0.5	27.4	3.6	54	<0.1	28.2	10.1	281	2.79	48.4	0.8	7.6	1.6	27	<0.1	0.1	0.2	78	0.37	0.113	
REP 1059242	QC		0.6	27.9	3.5	53	<0.1	27.2	10.1	284	2.73	46.7	0.8	24.6	1.6	26	<0.1	0.2	0.1	75	0.37	0.109	
1077875	Soil		0.8	20.5	6.5	86	<0.1	18.5	10.0	585	3.12	9.1	1.2	5.1	1.5	32	0.2	0.3	0.3	54	0.30	0.072	
REP 1077875	QC		0.8	20.0	6.6	85	<0.1	18.4	10.1	574	3.08	9.4	1.2	12.2	1.4	32	0.2	0.4	0.3	53	0.29	0.072	
1075708	Soil		1.0	18.6	6.0	75	0.2	23.5	10.5	370	2.95	9.1	0.5	4.8	0.9	28	0.2	0.3	0.1	68	0.53	0.043	
REP 1075708	QC		0.9	17.8	5.9	72	0.2	21.7	10.0	367	2.91	9.5	0.5	7.3	0.8	28	0.2	0.3	0.1	66	0.52	0.044	
1075711	Soil		0.9	32.5	7.0	89	0.3	25.9	14.6	504	3.08	7.8	0.9	3.1	1.6	29	0.2	0.3	0.1	68	0.51	0.061	
REP 1075711	QC		0.9	32.1	7.1	91	0.3	26.0	15.1	516	3.14	8.2	0.9	1.2	1.6	29	0.2	0.3	0.1	71	0.54	0.063	
1070430	Soil		1.0	63.0	4.6	88	0.1	43.1	17.4	381	3.65	6.5	0.5	2.0	1.2	24	0.2	0.2	0.1	97	0.25	0.119	
REP 1070430	QC		1.0	62.5	4.4	85	0.1	41.8	16.4	349	3.50	6.2	0.5	0.9	1.2	22	0.2	0.2	0.1	94	0.26	0.113	
1070445	Soil		0.9	31.1	6.2	58	<0.1	25.9	12.9	454	2.87	8.0	0.4	1.8	0.6	20	0.2	0.4	0.1	77	0.22	0.070	
REP 1070445	QC		1.1	32.3	5.9	57	<0.1	25.9	13.0	430	2.78	7.7	0.4	4.9	0.6	19	0.2	0.3	0.1	74	0.22	0.066	
1058937	Soil		0.9	74.4	5.7	105	<0.1	81.4	26.0	431	4.82	29.6	0.9	2.7	3.5	56	<0.1	0.2	0.2	167	0.31	0.083	
REP 1058937	QC		0.7	74.4	5.7	106	0.1	83.6	26.5	435	4.81	29.3	0.9	45.5	3.4	56	<0.1	0.2	0.2	169	0.32	0.088	
1062038	Soil		1.0	36.0	5.9	59	<0.1	33.9	13.2	332	3.43	10.5	0.5	2.3	1.1	27	0.1	0.3	0.2	100	0.26	0.072	
REP 1062038	QC		1.1	39.5	6.4	65	<0.1	36.1	14.3	366	3.75	11.5	0.5	2.0	1.1	29	0.1	0.3	0.2	109	0.27	0.076	
1062380	Soil		0.9	70.8	5.9	112	0.4	56.5	20.4	541	4.56	22.3	1.1	78.9	4.0	28	0.1	0.7	0.2	96	0.31	0.092	
REP 1062380	QC		0.9	68.4	5.5	111	0.3	56.1	20.0	526	4.47	21.7	1.1	3.8	3.8	27	0.1	0.7	0.2	95	0.30	0.095	
1085447	Soil		0.9	45.5	4.8	57	<0.1	45.6	17.3	440	3.49	8.8	0.5	11.2	1.6	22	0.1	0.4	0.1	90	0.29	0.079	
REP 1085447	QC		0.8	44.4	4.9	55	<0.1	44.9	17.2	427	3.35	8.2	0.5	9.4	1.6	22	0.2	0.4	0.1	90	0.30	0.078	
1085450	Soil		0.7	46.7	4.6	57	<0.1	48.3	16.7	377	3.45	10.1	0.4	1.8	1.5	24	0.1	0.4	0.1	89	0.32	0.069	
REP 1085450	QC		0.8	45.2	4.4	58	<0.1	47.4	17.1	376	3.40	10.0	0.5	1.6	1.6	24	0.1	0.3	0.1	89	0.31	0.073	
1076787	Soil		0.6	55.7	3.5	78	0.2	83.4	18.1	438	3.39	170.3	0.3	11.6	1.5	53	<0.1	0.3	0.2	70	0.48	0.091	
REP 1076787	QC		0.6	54.9	3.5	77	0.3	82.9	17.9	432	3.34	166.7	0.3	10.5	1.4	51	0.1	0.3	0.2	70	0.47	0.087	



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September 10, 2011

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Part 2

QUALITY CONTROL REPORT

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Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1059235	Soil	5	43	0.71	204	0.152	<1	1.49	0.011	0.37	0.2	0.01	3.5	0.1	<0.05	6	<0.5	<0.2
REP 1059235	QC	5	44	0.73	208	0.149	<1	1.48	0.011	0.38	0.3	<0.01	3.7	0.2	<0.05	7	<0.5	<0.2
1075512	Soil	5	52	0.76	255	0.155	1	1.73	0.016	0.44	0.2	0.02	4.6	0.2	<0.05	5	<0.5	<0.2
REP 1075512	QC	5	52	0.75	256	0.151	<1	1.72	0.016	0.44	0.2	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
1059242	Soil	7	52	0.81	225	0.147	1	2.15	0.013	0.42	0.4	0.01	5.0	0.2	<0.05	7	<0.5	<0.2
REP 1059242	QC	7	51	0.78	219	0.146	<1	2.07	0.014	0.41	0.3	0.02	4.5	0.2	<0.05	7	<0.5	<0.2
1077875	Soil	8	31	0.78	171	0.141	1	1.92	0.012	0.34	0.2	0.02	4.3	0.4	0.07	8	<0.5	<0.2
REP 1077875	QC	8	31	0.76	168	0.141	<1	1.87	0.012	0.34	0.2	0.02	4.3	0.4	0.06	8	<0.5	<0.2
1075708	Soil	6	42	0.77	85	0.092	3	1.62	0.012	0.13	0.1	0.03	2.8	0.1	<0.05	6	0.8	<0.2
REP 1075708	QC	6	41	0.79	88	0.090	2	1.60	0.011	0.13	0.1	0.02	2.8	<0.1	<0.05	5	1.0	<0.2
1075711	Soil	9	42	0.81	124	0.114	2	1.77	0.015	0.21	0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
REP 1075711	QC	10	43	0.82	125	0.122	2	1.82	0.016	0.22	<0.1	0.03	4.1	0.1	<0.05	6	0.7	<0.2
1070430	Soil	5	63	0.97	238	0.135	<1	2.17	0.017	0.54	0.1	0.01	6.3	0.2	0.08	8	0.6	<0.2
REP 1070430	QC	5	60	0.91	233	0.132	<1	2.07	0.016	0.52	0.1	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1070445	Soil	4	41	0.65	122	0.081	<1	1.52	0.009	0.27	<0.1	0.02	3.5	<0.1	<0.05	6	0.6	<0.2
REP 1070445	QC	4	41	0.63	123	0.077	<1	1.46	0.009	0.26	0.1	0.02	3.3	0.1	<0.05	6	0.6	<0.2
1058937	Soil	9	178	2.07	438	0.193	<1	3.91	0.024	1.12	0.1	0.02	13.3	0.4	<0.05	14	0.6	<0.2
REP 1058937	QC	10	181	2.06	427	0.203	1	3.95	0.026	1.12	0.1	0.02	13.6	0.3	<0.05	14	<0.5	<0.2
1062038	Soil	6	65	0.97	249	0.127	2	2.43	0.011	0.35	0.1	0.02	6.0	0.2	0.06	8	<0.5	<0.2
REP 1062038	QC	6	71	1.05	254	0.131	1	2.59	0.012	0.38	0.1	0.02	6.3	0.2	0.07	9	<0.5	<0.2
1062380	Soil	13	69	1.31	159	0.099	1	2.67	0.010	0.52	0.1	0.02	6.0	0.3	<0.05	9	<0.5	<0.2
REP 1062380	QC	13	67	1.29	159	0.099	<1	2.65	0.010	0.50	<0.1	0.02	5.8	0.3	<0.05	8	<0.5	<0.2
1085447	Soil	7	54	0.85	162	0.126	1	2.05	0.014	0.33	0.1	0.01	5.0	0.2	<0.05	6	<0.5	<0.2
REP 1085447	QC	7	52	0.87	162	0.130	1	2.00	0.015	0.32	0.2	0.02	4.9	0.2	<0.05	6	<0.5	<0.2
1085450	Soil	6	57	0.87	181	0.137	1	1.94	0.016	0.35	0.2	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2
REP 1085450	QC	6	54	0.91	182	0.134	1	2.03	0.016	0.36	0.3	<0.01	5.1	0.2	<0.05	6	<0.5	<0.2
1076787	Soil	5	103	1.44	303	0.164	<1	3.27	0.042	0.82	0.2	<0.01	4.6	0.4	<0.05	10	<0.5	<0.2
REP 1076787	QC	5	101	1.39	299	0.160	<1	3.21	0.041	0.80	0.1	0.02	4.7	0.4	<0.05	9	<0.5	<0.2



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Sapphire Prospect
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QUALITY CONTROL REPORT

WHI11000960.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1076773	Soil	0.7	39.0	5.3	76	0.2	42.2	16.9	534	3.53	177.9	0.5	16.9	1.6	29	<0.1	0.4	0.3	99	0.30
REP 1076773	QC	0.8	41.0	5.5	77	0.2	41.6	17.5	561	3.67	183.9	0.5	18.5	1.6	29	0.1	0.4	0.3	102	0.32
Reference Materials																				
STD DS8	Standard	13.8	113.6	117.4	320	1.8	39.7	8.0	644	2.54	27.9	2.7	108.7	7.0	65	2.3	5.7	6.4	46	0.71
STD DS8	Standard	12.2	96.5	113.0	294	1.8	36.3	7.1	577	2.33	24.0	2.5	101.3	6.3	60	2.5	5.1	6.2	40	0.65
STD DS8	Standard	12.9	101.9	113.6	295	1.7	37.2	7.2	579	2.34	23.4	2.5	99.1	6.3	58	2.3	5.0	6.2	41	0.66
STD DS8	Standard	13.2	108.8	124.2	313	1.8	37.5	7.5	604	2.41	25.5	2.7	112.5	6.3	65	2.6	5.9	6.7	41	0.66
STD DS8	Standard	12.8	108.5	122.7	315	1.7	38.3	7.8	613	2.49	25.4	2.7	111.7	6.4	68	2.6	5.6	6.8	42	0.71
STD DS8	Standard	14.0	107.7	125.0	324	1.9	38.3	7.5	632	2.53	26.1	2.9	112.6	7.6	71	2.3	6.0	6.4	42	0.74
STD DS8	Standard	13.6	112.8	126.0	315	1.8	38.5	7.5	631	2.53	25.8	1.1	132.0	6.6	63	2.2	5.7	6.7	42	0.71
STD DS8	Standard	13.8	108.7	127.2	323	1.9	38.5	7.7	640	2.55	25.4	2.9	108.2	7.2	70	2.4	5.7	6.4	43	0.71
STD DS8	Standard	12.8	108.1	129.5	309	1.8	36.4	7.2	618	2.47	24.5	2.8	106.5	6.7	67	2.4	5.5	6.5	41	0.68
STD DS8	Standard	13.0	110.0	128.2	314	1.9	38.9	7.7	604	2.46	25.1	2.8	113.0	6.8	66	2.4	5.7	7.0	43	0.64
STD DS8	Standard	13.6	107.8	125.7	310	1.7	37.9	7.5	612	2.48	23.0	2.6	101.2	6.4	59	2.3	4.8	6.2	42	0.67
STD DS8	Standard	14.1	115.0	132.2	320	1.9	39.3	7.6	624	2.52	25.3	3.2	109.1	7.9	68	2.2	5.8	6.6	44	0.74
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: SAP

Report Date: September 10, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000960.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076773	Soil	6	66	1.04	293	0.150	<1	2.43	0.013	0.72	0.2	0.02	7.1	0.3	<0.05	8	<0.5	<0.2
REP 1076773	QC	6	68	1.06	300	0.150	<1	2.49	0.013	0.74	0.2	0.02	7.5	0.3	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	122	0.62	288	0.119	2	0.90	0.084	0.42	3.2	0.21	2.1	5.4	0.16	5	4.9	4.9
STD DS8	Standard	14	108	0.58	247	0.106	3	0.85	0.080	0.38	2.8	0.19	2.0	5.1	0.14	5	5.5	4.8
STD DS8	Standard	14	111	0.58	267	0.106	2	0.86	0.077	0.38	3.0	0.20	1.9	5.1	0.15	5	5.1	4.6
STD DS8	Standard	14	113	0.60	282	0.112	2	0.88	0.088	0.41	3.1	0.20	2.3	5.5	0.16	5	5.8	4.7
STD DS8	Standard	15	114	0.62	279	0.116	2	0.90	0.091	0.42	2.8	0.18	2.3	5.1	0.16	4	5.6	4.9
STD DS8	Standard	17	117	0.63	283	0.125	3	0.95	0.093	0.43	3.1	0.22	2.4	5.4	0.13	5	5.7	4.8
STD DS8	Standard	15	120	0.63	279	0.115	2	0.92	0.083	0.40	3.1	0.22	2.0	5.6	0.18	5	5.4	5.5
STD DS8	Standard	17	116	0.64	294	0.115	3	0.93	0.093	0.42	2.7	0.21	2.3	5.5	0.17	5	5.1	5.4
STD DS8	Standard	15	113	0.61	279	0.113	2	0.92	0.098	0.41	2.8	0.23	2.4	5.8	0.16	5	5.7	4.6
STD DS8	Standard	13	120	0.62	265	0.109	3	0.87	0.079	0.42	3.0	0.19	1.9	5.4	0.15	4	5.1	4.5
STD DS8	Standard	15	118	0.62	267	0.110	3	0.90	0.083	0.41	2.9	0.20	2.1	5.3	0.17	4	5.7	4.5
STD DS8	Standard	17	123	0.63	291	0.126	3	0.94	0.090	0.41	3.1	0.20	2.4	5.7	0.12	5	5.0	5.4
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: August 25, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000961.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 285

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	285	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	285	Dry at 60C			VAN
1DX2	285	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Sapphire Prospect
Soil Geochemistry

Client:

Ryan Gold Corp.

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Vancouver BC V6C 1H2 Canada

Project:

SAP

Report Date:

August 25, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000961.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076988	Soil	0.5	25.9	5.5	71	0.1	26.4	12.0	453	3.04	13.0	0.9	84.1	2.4	27	0.1	0.2	0.2	62	0.32	0.078
1076989	Soil	0.5	24.0	5.1	65	<0.1	25.2	11.2	439	2.91	12.4	0.8	2.9	2.6	27	0.1	0.2	0.1	61	0.35	0.084
1076623	Soil	1.6	30.7	9.7	101	<0.1	26.6	14.0	614	3.47	9.8	0.8	5.3	0.7	25	0.3	0.7	0.3	70	0.25	0.070
1076622	Soil	0.9	35.3	5.8	91	<0.1	24.1	13.1	561	2.90	8.1	0.8	6.6	1.8	33	0.4	0.5	0.2	65	0.44	0.107
1076620	Soil	1.0	25.7	8.2	78	<0.1	25.2	10.8	392	3.41	17.0	0.8	9.9	1.1	25	0.2	0.4	0.3	69	0.29	0.055
1059141	Soil	0.6	27.6	7.0	77	<0.1	30.4	13.6	500	3.19	34.9	0.9	12.5	2.1	20	0.2	0.3	0.2	63	0.20	0.040
1076990	Soil	0.7	26.7	5.6	87	0.1	29.9	12.7	453	3.24	14.8	0.9	27.7	2.6	29	0.1	0.2	0.2	70	0.34	0.066
1076987	Soil	0.5	30.0	4.8	73	<0.1	31.9	13.0	527	3.16	13.6	0.7	9.4	3.0	31	<0.1	0.3	0.2	69	0.39	0.095
1076619	Soil	1.5	35.5	9.1	98	0.1	26.2	13.9	799	3.34	11.0	1.1	4.3	0.5	29	0.6	0.7	0.3	68	0.26	0.087
1076986	Soil	0.4	28.4	4.7	72	<0.1	31.1	12.7	501	3.06	12.7	0.7	7.9	2.9	30	0.1	0.3	0.2	66	0.37	0.088
1076621	Soil	0.6	25.3	4.7	73	<0.1	27.6	12.2	512	2.95	13.9	1.0	11.3	2.9	31	0.2	0.3	0.2	65	0.42	0.098
1076602	Soil	1.0	58.1	5.5	85	0.1	43.3	15.2	435	4.10	12.1	0.8	3.0	3.2	30	<0.1	0.3	0.2	92	0.24	0.065
1076607	Soil	1.4	74.2	9.1	102	0.1	52.7	18.7	553	4.60	18.4	1.2	2.4	2.4	40	0.1	0.6	0.2	99	0.29	0.078
1076609	Soil	1.0	70.0	5.5	119	<0.1	56.6	23.5	520	4.83	9.2	1.0	1.7	3.2	39	0.1	0.2	0.2	139	0.38	0.066
1076605	Soil	1.5	42.7	8.2	87	<0.1	38.2	15.7	536	3.95	10.5	1.0	0.9	1.8	31	<0.1	0.5	0.2	97	0.26	0.093
1076604	Soil	1.4	65.2	9.1	102	0.1	69.8	26.0	582	4.53	25.2	1.4	4.0	3.1	35	0.1	1.5	0.2	97	0.23	0.075
1076984	Soil	0.9	45.3	5.4	93	0.1	40.5	16.2	448	3.84	9.7	0.7	1.3	3.9	28	0.1	0.3	0.1	94	0.27	0.075
1076608	Soil	0.9	87.5	5.8	112	0.1	69.9	23.9	518	4.55	15.5	1.0	4.0	4.3	41	0.1	0.4	0.2	91	0.33	0.102
1076606	Soil	1.0	64.0	7.9	101	<0.1	61.9	20.4	542	4.15	36.4	1.0	3.4	2.9	40	<0.1	1.0	0.2	89	0.24	0.077
1076985	Soil	1.0	40.7	5.9	94	<0.1	41.4	17.0	445	4.03	14.8	0.7	2.8	2.8	24	0.1	0.4	0.2	93	0.22	0.052
1076601	Soil	0.9	43.8	5.5	85	<0.1	44.0	17.0	393	3.46	10.5	0.7	5.5	2.8	22	0.1	0.4	0.1	85	0.18	0.042
1076610	Soil	0.9	47.3	5.5	83	0.2	39.7	16.5	444	3.50	7.7	0.9	4.8	1.6	34	0.1	0.2	0.2	93	0.36	0.080
1076603	Soil	0.9	57.0	7.3	91	0.1	48.6	18.0	483	3.79	21.6	0.9	3.9	2.7	24	0.1	0.4	0.2	83	0.22	0.067
1076615	Soil	0.7	45.6	5.5	88	0.2	39.8	14.3	471	3.51	27.3	0.7	3.1	2.0	44	0.1	0.3	0.2	92	0.31	0.067
1076613	Soil	0.8	52.0	5.2	87	0.2	41.6	15.3	455	3.75	13.6	0.8	2.2	2.0	33	<0.1	0.3	0.1	104	0.29	0.060
1076611	Soil	0.9	53.4	6.1	88	0.2	45.3	16.1	456	3.78	12.4	0.9	4.8	2.7	27	<0.1	0.3	0.2	93	0.24	0.061
1059139	Soil	1.4	29.0	7.9	74	0.2	24.9	12.1	539	2.86	149.7	1.3	5.0	0.5	35	0.3	0.5	0.2	64	0.42	0.076
1059138	Soil	0.9	35.7	6.5	74	<0.1	38.1	14.0	431	3.17	70.6	0.6	11.8	1.7	22	0.1	0.4	0.1	77	0.21	0.030
1076617	Soil	1.3	35.0	6.8	79	0.2	32.4	14.2	523	3.31	15.8	0.7	2.5	0.9	34	0.1	0.4	0.2	83	0.33	0.069
1076614	Soil	0.7	47.4	5.6	82	0.2	36.8	12.2	342	3.57	12.0	0.9	3.2	2.3	27	<0.1	0.3	0.2	95	0.22	0.065



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Sapphire Prospect
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Project: SAP
Report Date: August 25, 2011

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CERTIFICATE OF ANALYSIS

WHI11000961.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076988	Soil	9	42	0.87	175	0.120	<1	1.80	0.012	0.27	0.1	0.02	4.0	0.3	<0.05	6	<0.5	<0.2
1076989	Soil	9	41	0.82	160	0.121	<1	1.71	0.013	0.27	<0.1	0.01	3.9	0.3	<0.05	6	<0.5	<0.2
1076623	Soil	9	40	0.75	113	0.073	<1	1.93	0.011	0.07	0.2	0.03	2.3	0.2	0.07	7	<0.5	<0.2
1076622	Soil	9	34	0.71	123	0.118	1	1.47	0.022	0.16	<0.1	0.06	3.0	0.2	0.07	6	<0.5	<0.2
1076620	Soil	7	40	0.78	109	0.122	<1	2.16	0.010	0.27	0.1	0.03	3.2	0.3	0.06	8	<0.5	<0.2
1059141	Soil	7	41	0.79	133	0.127	<1	1.92	0.012	0.28	0.2	0.01	3.7	0.3	<0.05	7	<0.5	<0.2
1076990	Soil	8	49	0.93	171	0.135	<1	2.14	0.013	0.30	0.1	0.02	4.5	0.2	<0.05	7	<0.5	<0.2
1076987	Soil	9	46	0.87	190	0.142	<1	1.92	0.014	0.32	0.2	0.01	4.3	0.3	<0.05	7	<0.5	<0.2
1076619	Soil	9	42	0.73	114	0.081	1	1.81	0.015	0.11	0.1	0.06	2.4	0.2	0.08	7	0.6	<0.2
1076986	Soil	9	44	0.86	175	0.141	<1	1.86	0.016	0.31	0.1	<0.01	4.1	0.3	<0.05	7	<0.5	<0.2
1076621	Soil	10	38	0.78	151	0.135	<1	1.61	0.017	0.25	0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
1076602	Soil	13	61	1.04	129	0.125	<1	2.37	0.013	0.31	<0.1	0.02	4.7	0.3	<0.05	7	<0.5	<0.2
1076607	Soil	16	64	1.04	129	0.107	<1	2.52	0.017	0.24	<0.1	0.03	4.6	0.3	0.09	8	<0.5	<0.2
1076609	Soil	13	109	1.68	347	0.204	<1	3.05	0.022	0.50	<0.1	0.01	7.8	0.3	0.06	11	<0.5	<0.2
1076605	Soil	11	67	1.03	157	0.100	<1	2.44	0.014	0.28	0.1	0.03	4.1	0.2	0.07	8	0.7	<0.2
1076604	Soil	15	70	1.14	162	0.108	<1	2.60	0.011	0.31	0.1	0.03	5.0	0.2	<0.05	8	0.5	<0.2
1076984	Soil	12	67	1.15	149	0.149	<1	2.51	0.015	0.36	0.1	0.01	5.2	0.3	<0.05	8	<0.5	<0.2
1076608	Soil	16	61	1.06	121	0.121	<1	2.40	0.016	0.35	<0.1	<0.01	5.1	0.3	0.05	7	0.7	<0.2
1076606	Soil	14	63	1.12	129	0.085	<1	2.57	0.011	0.29	<0.1	0.03	4.5	0.2	<0.05	7	0.6	<0.2
1076985	Soil	9	70	1.13	141	0.123	1	2.48	0.011	0.34	0.1	0.02	5.3	0.2	<0.05	8	<0.5	<0.2
1076601	Soil	9	60	0.97	135	0.119	<1	2.18	0.013	0.31	0.1	0.02	4.8	0.2	<0.05	7	0.6	<0.2
1076610	Soil	10	70	1.06	265	0.108	2	2.01	0.017	0.32	<0.1	0.04	4.5	0.2	<0.05	8	0.6	<0.2
1076603	Soil	12	57	0.96	109	0.083	<1	2.24	0.011	0.18	<0.1	0.02	4.2	0.2	<0.05	7	<0.5	<0.2
1076615	Soil	8	66	1.02	298	0.119	<1	2.58	0.015	0.46	0.1	0.03	6.1	0.3	<0.05	8	0.5	<0.2
1076613	Soil	8	71	1.25	231	0.151	<1	2.53	0.023	0.56	0.1	0.02	6.1	0.3	<0.05	9	<0.5	<0.2
1076611	Soil	10	67	1.08	170	0.111	<1	2.23	0.015	0.35	<0.1	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1059139	Soil	7	44	0.68	110	0.052	2	1.72	0.014	0.10	0.1	0.05	2.4	0.1	<0.05	6	0.5	<0.2
1059138	Soil	7	50	0.83	86	0.107	1	1.96	0.011	0.16	0.1	0.02	4.1	0.2	<0.05	6	<0.5	<0.2
1076617	Soil	8	54	0.79	162	0.088	2	1.93	0.015	0.27	0.1	0.05	4.3	0.2	<0.05	7	0.6	<0.2
1076614	Soil	9	72	1.19	201	0.132	2	2.67	0.015	0.39	<0.1	0.03	6.5	0.2	<0.05	9	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076618	Soil	2.0	31.6	10.1	78	<0.1	29.4	14.0	564	3.60	12.8	0.7	0.8	0.8	33	0.2	0.7	0.2	81	0.30	0.072
1076612	Soil	1.0	54.3	6.2	85	0.2	39.9	15.8	494	3.80	14.3	1.2	3.1	1.9	35	0.2	0.4	0.2	94	0.31	0.080
1076616	Soil	0.7	42.4	5.3	81	0.1	37.9	13.8	444	3.55	27.0	0.7	3.4	2.1	30	0.1	0.4	0.1	91	0.25	0.050
1059140	Soil	0.9	29.0	6.7	76	<0.1	27.4	12.9	581	3.23	87.1	2.2	42.6	2.7	27	0.1	0.4	0.3	66	0.30	0.066
1059137	Soil	0.9	42.7	6.9	80	0.1	40.6	15.5	541	3.49	58.7	0.6	8.5	2.0	29	0.1	0.5	0.2	85	0.27	0.040
1064349	Soil	1.1	49.0	5.5	115	<0.1	37.1	17.2	522	4.85	7.7	0.9	1.3	3.5	32	0.1	0.3	0.2	130	0.27	0.073
1070453	Soil	1.5	84.7	5.3	148	0.2	81.0	30.1	621	5.51	38.9	1.3	3.5	5.6	40	0.3	0.3	0.2	127	0.35	0.100
1070454	Soil	1.7	120.7	4.1	151	0.2	84.8	32.8	614	6.31	30.6	1.5	2.4	8.3	42	0.1	0.2	0.3	130	0.43	0.147
1064347	Soil	1.0	79.9	4.2	115	0.1	80.3	33.0	448	4.30	15.5	0.8	1.9	3.3	31	0.1	0.2	0.1	124	0.38	0.110
1064350	Soil	1.2	125.9	5.4	195	0.1	268.4	60.5	929	5.10	10.4	1.4	2.6	5.9	29	0.2	0.3	0.2	99	0.28	0.083
1070452	Soil	1.1	35.1	7.1	78	<0.1	29.8	13.6	472	3.13	13.7	0.8	1.5	0.4	29	0.2	0.4	0.2	69	0.29	0.137
1064348	Soil	1.9	60.1	6.1	110	<0.1	55.6	24.6	534	4.02	12.4	0.9	2.6	2.7	34	0.3	0.4	0.2	99	0.34	0.102
1064337	Soil	1.0	111.3	9.8	127	0.3	101.9	41.0	687	4.55	843.9	1.1	48.0	3.0	53	0.2	1.3	0.3	82	0.40	0.090
1064331	Soil	1.2	110.8	5.6	135	0.1	91.6	39.6	664	4.72	14.5	1.0	2.0	3.7	32	0.2	0.3	0.2	102	0.25	0.089
1064334	Soil	0.8	65.3	5.8	129	0.1	105.9	45.0	734	5.19	44.4	1.1	8.8	3.9	38	0.2	0.2	0.2	151	0.33	0.074
1070451	Soil	1.4	67.8	6.1	132	<0.1	58.2	24.2	610	4.61	14.1	1.0	2.5	3.7	28	0.2	0.4	0.2	92	0.22	0.089
1064346	Soil	0.7	69.6	3.5	117	0.1	150.0	47.8	560	4.42	9.5	0.8	1.2	3.1	21	0.2	0.1	0.1	169	0.36	0.080
1064338	Soil	1.3	116.2	6.7	125	0.2	69.2	25.6	574	4.82	25.5	1.4	5.7	4.4	34	0.2	0.4	0.2	97	0.26	0.091
1064332	Soil	1.1	115.6	6.3	167	0.2	108.8	42.6	947	6.02	90.4	1.3	4.0	4.4	42	0.3	0.8	0.2	152	0.36	0.095
1064342	Soil	1.0	53.1	5.9	98	<0.1	45.6	20.1	476	4.20	9.2	0.8	3.0	3.0	33	0.1	0.3	0.2	102	0.26	0.061
1064333	Soil	0.9	61.3	6.7	108	0.1	62.1	28.4	591	4.35	39.5	1.0	4.4	4.2	33	0.2	0.4	0.2	102	0.27	0.057
1064345	Soil	0.9	59.4	5.6	122	0.1	63.5	29.8	566	4.37	8.8	1.0	10.1	3.6	38	0.2	0.3	0.1	119	0.28	0.085
1064336	Soil	0.9	73.5	5.6	96	<0.1	55.7	19.6	513	4.25	25.8	0.7	12.2	2.6	26	0.1	0.4	0.2	90	0.24	0.051
1064335	Soil	0.9	66.6	6.1	121	0.1	75.7	26.2	738	4.90	28.2	1.0	3.1	3.3	32	0.2	0.2	0.2	133	0.27	0.062
1064341	Soil	1.3	52.7	7.4	112	<0.1	68.8	25.1	596	4.52	20.1	0.9	4.3	2.5	32	<0.1	0.5	0.2	105	0.24	0.072
1064340	Soil	1.3	85.1	13.3	190	0.2	200.5	97.8	2997	5.24	49.8	1.1	12.8	3.0	54	0.4	1.3	0.3	88	0.67	0.155
1064343	Soil	1.2	58.3	5.1	104	<0.1	46.8	17.6	510	4.43	9.9	0.9	4.9	3.2	28	0.1	0.3	0.2	122	0.22	0.075
1064344	Soil	0.9	60.8	5.5	121	<0.1	66.2	30.9	561	4.46	8.6	0.9	3.5	3.2	33	0.2	0.2	0.2	130	0.27	0.088
1064339	Soil	1.2	106.7	6.4	133	0.1	86.2	28.6	594	5.32	28.0	1.3	4.5	3.7	36	0.1	0.3	0.2	111	0.28	0.094
1070457	Soil	0.9	68.2	5.9	103	0.1	73.7	30.9	614	4.13	46.0	0.8	4.8	3.5	28	0.2	0.3	0.2	95	0.29	0.099



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Part 2

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076618	Soil	8	48	0.77	110	0.070	<1	1.80	0.011	0.13	0.2	0.03	3.0	0.2	<0.05	7	<0.5	<0.2
1076612	Soil	11	67	1.12	216	0.114	1	2.44	0.017	0.35	0.1	0.03	5.6	0.2	<0.05	8	0.5	<0.2
1076616	Soil	9	62	1.01	187	0.131	2	2.36	0.015	0.40	0.2	0.02	5.8	0.2	<0.05	8	<0.5	<0.2
1059140	Soil	10	41	0.75	142	0.115	<1	1.93	0.014	0.20	0.2	0.04	4.3	0.3	<0.05	6	<0.5	<0.2
1059137	Soil	8	57	0.91	136	0.125	2	2.30	0.016	0.33	0.1	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
1064349	Soil	13	94	1.53	299	0.173	2	3.00	0.026	0.67	<0.1	0.03	8.6	0.3	0.09	11	<0.5	<0.2
1070453	Soil	20	93	1.61	289	0.183	<1	3.06	0.034	0.76	0.2	<0.01	8.7	0.5	0.14	11	1.1	<0.2
1070454	Soil	28	81	1.65	278	0.198	2	3.15	0.044	0.99	<0.1	<0.01	8.5	0.5	0.37	11	1.1	<0.2
1064347	Soil	12	123	1.59	267	0.169	<1	2.61	0.020	0.66	0.3	<0.01	8.3	0.3	<0.05	10	0.6	<0.2
1064350	Soil	21	63	1.37	123	0.123	<1	2.85	0.016	0.33	<0.1	0.01	5.8	0.4	<0.05	8	0.6	<0.2
1070452	Soil	10	43	0.71	95	0.038	2	1.59	0.018	0.11	<0.1	0.03	1.9	0.2	0.09	6	<0.5	<0.2
1064348	Soil	13	81	1.19	170	0.126	2	2.41	0.023	0.35	0.3	0.03	6.2	0.2	0.08	8	<0.5	<0.2
1064337	Soil	13	83	1.35	143	0.092	1	2.79	0.031	0.24	0.1	0.02	4.3	0.3	<0.05	8	0.6	<0.2
1064331	Soil	14	72	1.25	165	0.129	1	2.68	0.026	0.43	0.1	0.02	6.1	0.3	0.08	8	0.7	<0.2
1064334	Soil	15	139	1.99	340	0.185	<1	3.37	0.021	0.83	0.1	<0.01	11.0	0.4	0.08	12	0.6	<0.2
1070451	Soil	17	63	1.13	105	0.105	1	2.37	0.023	0.24	0.7	0.01	4.7	0.3	0.08	8	0.6	<0.2
1064346	Soil	11	205	2.18	414	0.211	<1	2.93	0.014	0.91	<0.1	<0.01	11.1	0.4	<0.05	12	<0.5	<0.2
1064338	Soil	18	67	1.23	131	0.102	2	2.64	0.023	0.27	0.2	0.02	5.3	0.3	0.07	9	0.9	<0.2
1064332	Soil	14	124	1.88	391	0.203	1	3.47	0.024	0.85	<0.1	0.01	12.4	0.4	0.11	13	0.7	<0.2
1064342	Soil	12	74	1.25	220	0.154	1	2.49	0.022	0.45	<0.1	0.01	6.2	0.3	0.10	9	0.6	<0.2
1064333	Soil	14	71	1.26	181	0.144	<1	2.65	0.022	0.47	<0.1	0.02	6.7	0.3	<0.05	9	<0.5	<0.2
1064345	Soil	12	86	1.39	271	0.168	<1	2.76	0.023	0.62	<0.1	<0.01	7.9	0.3	0.11	10	<0.5	<0.2
1064336	Soil	8	74	1.31	109	0.124	1	2.56	0.020	0.24	<0.1	0.01	4.5	0.3	<0.05	8	<0.5	<0.2
1064335	Soil	11	119	1.77	252	0.163	<1	3.25	0.014	0.70	<0.1	0.02	9.5	0.4	<0.05	12	<0.5	<0.2
1064341	Soil	12	74	1.21	167	0.137	<1	2.50	0.018	0.38	<0.1	0.02	5.8	0.3	0.07	9	<0.5	<0.2
1064340	Soil	19	79	1.58	284	0.162	3	2.59	0.023	0.55	0.1	0.01	4.6	0.2	0.06	8	<0.5	<0.2
1064343	Soil	12	92	1.35	240	0.148	2	2.81	0.019	0.54	<0.1	0.01	7.6	0.3	0.12	9	<0.5	<0.2
1064344	Soil	12	94	1.42	283	0.164	2	2.90	0.021	0.67	<0.1	0.01	7.8	0.3	0.11	10	<0.5	<0.2
1064339	Soil	18	88	1.33	216	0.130	2	2.97	0.025	0.43	0.2	<0.01	6.9	0.3	0.09	9	<0.5	<0.2
1070457	Soil	14	64	1.17	158	0.128	2	2.38	0.014	0.44	0.2	<0.01	5.0	0.3	<0.05	7	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070460	Soil				0.8	83.8	14.4	146	0.2	96.8	34.7	2204	5.43	65.3	1.4	9.6	4.5	26	0.3	11.8	0.3	67	0.34	0.077
1070456	Soil				1.6	75.2	7.2	121	0.1	54.1	22.4	580	4.95	10.7	1.2	3.1	2.8	29	<0.1	0.4	0.2	125	0.28	0.092
1070466	Soil				1.5	77.2	6.1	112	0.2	55.1	23.0	678	4.75	80.4	1.1	4.6	2.4	41	0.1	0.5	0.2	117	0.37	0.088
1070455	Soil				1.5	80.3	6.0	133	0.1	71.1	28.3	674	4.89	9.8	1.1	2.7	4.2	33	0.2	0.4	0.2	126	0.31	0.115
1070465	Soil				1.4	115.4	6.6	130	0.2	85.0	27.5	562	4.38	100.4	1.5	7.7	4.8	26	0.2	0.3	0.2	88	0.31	0.140
1070458	Soil				1.1	68.2	5.9	106	0.1	75.8	30.2	616	4.23	42.2	0.8	49.6	3.1	27	0.1	0.4	0.2	101	0.30	0.090
1070459	Soil				1.5	51.5	6.5	102	0.1	49.4	20.3	572	4.23	14.4	1.0	4.4	2.5	29	0.1	0.4	0.2	101	0.31	0.080
1070461	Soil				1.8	65.7	8.1	101	0.2	45.7	18.9	589	4.39	12.4	1.0	2.8	1.7	27	0.1	0.5	0.2	101	0.27	0.099
1070463	Soil				1.1	137.3	6.2	137	0.2	108.6	31.5	584	4.54	14.2	1.5	2.3	5.3	24	0.2	0.4	0.2	84	0.27	0.114
1070462	Soil				1.2	150.3	8.5	140	0.2	116.1	44.5	734	4.61	17.4	1.5	2.8	2.6	36	0.2	0.7	0.2	84	0.34	0.105
1070464	Soil				0.8	140.3	6.0	138	0.2	115.4	32.8	592	4.77	14.6	1.6	5.1	5.3	23	0.2	0.4	0.2	85	0.28	0.113
1064463	Soil				0.8	48.2	4.7	78	<0.1	51.6	17.0	420	3.39	6.5	0.5	2.0	1.8	38	0.2	0.2	0.1	86	0.46	0.121
1064464	Soil				0.8	50.5	5.8	81	<0.1	42.2	17.2	399	3.57	26.8	0.6	1.3	2.0	25	0.1	0.3	0.1	94	0.31	0.092
1064461	Soil				0.7	45.8	5.1	78	<0.1	42.3	16.4	432	3.54	6.5	0.5	3.8	1.8	25	0.2	0.3	0.1	100	0.33	0.105
1064462	Soil				0.7	53.5	4.3	70	<0.1	42.8	16.1	378	3.29	5.2	0.5	1.1	1.8	24	0.2	0.2	0.1	94	0.40	0.117
1064460	Soil				0.7	57.0	4.9	88	0.1	58.1	20.1	484	3.90	7.7	0.6	1.1	1.8	33	0.2	0.2	0.1	114	0.33	0.114
1064459	Soil				0.8	47.5	6.5	78	<0.1	53.6	18.6	459	3.68	17.3	0.6	6.6	1.9	30	0.1	0.4	0.1	98	0.26	0.082
1064458	Soil				0.9	65.2	3.9	89	<0.1	58.8	23.6	461	3.98	7.9	0.6	3.3	1.4	43	0.2	0.2	0.1	103	0.21	0.084
1064457	Soil				1.3	42.8	6.7	73	<0.1	35.3	16.3	513	3.55	7.4	0.6	5.1	0.8	21	<0.1	0.5	0.2	95	0.22	0.070
1064454	Soil				1.4	82.0	6.2	96	0.1	75.6	28.4	553	4.32	16.4	0.6	4.1	1.7	23	0.1	0.4	0.2	110	0.25	0.092
1064455	Soil				1.0	57.1	7.4	93	0.1	58.7	19.9	488	4.24	14.4	0.7	6.9	1.6	26	0.1	0.4	0.2	113	0.21	0.074
1064456	Soil				0.8	40.7	6.8	73	<0.1	41.0	13.7	379	3.55	24.1	0.5	8.0	0.9	22	<0.1	0.5	0.2	90	0.19	0.062
1064453	Soil				1.0	65.7	6.1	77	0.1	53.0	22.3	463	3.76	12.6	0.5	7.0	1.0	25	0.1	0.4	0.2	103	0.24	0.082
1062241	Soil				1.4	46.0	6.7	74	<0.1	36.4	15.3	451	3.80	7.3	0.5	3.1	0.9	19	<0.1	0.4	0.2	108	0.19	0.072
1062242	Soil				0.8	39.0	4.8	57	<0.1	33.6	13.1	316	3.13	6.1	0.4	1.4	1.1	32	0.2	0.3	0.1	85	0.19	0.054
1064452	Soil				1.0	66.0	5.7	75	<0.1	54.5	21.4	456	3.77	13.0	0.5	3.1	1.3	25	0.1	0.4	0.2	109	0.23	0.087
1064451	Soil				1.1	80.8	6.6	80	<0.1	80.3	29.1	482	4.05	17.6	0.4	2.1	0.8	31	0.1	0.2	0.2	115	0.13	0.063
1062250	Soil				1.0	48.2	5.8	71	0.1	42.6	15.5	381	3.54	12.0	0.5	3.3	0.8	22	0.1	0.3	0.2	102	0.22	0.070
1062249	Soil				1.1	67.3	7.7	78	0.2	60.9	23.7	539	3.98	14.2	0.6	4.4	0.9	26	0.3	0.3	0.3	119	0.25	0.077
1062248	Soil				1.0	51.1	6.9	75	0.1	48.3	17.2	419	3.76	9.8	0.6	4.7	1.1	18	<0.1	0.3	0.3	122	0.13	0.054



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070460	Soil	19	53	1.20	137	0.034	3	2.45	0.007	0.23	<0.1	0.02	5.5	0.2	<0.05	6	<0.5	<0.2
1070456	Soil	16	87	1.44	213	0.139	2	2.83	0.017	0.43	0.1	0.03	6.1	0.3	0.08	9	<0.5	<0.2
1070466	Soil	17	94	1.38	298	0.132	2	2.70	0.017	0.52	<0.1	0.03	6.1	0.4	0.10	10	1.0	<0.2
1070455	Soil	22	90	1.54	269	0.164	2	2.96	0.027	0.60	0.1	<0.01	7.9	0.3	0.15	10	<0.5	<0.2
1070465	Soil	18	66	1.20	101	0.081	2	2.64	0.009	0.24	0.2	0.02	4.8	0.3	<0.05	7	<0.5	<0.2
1070458	Soil	13	68	1.19	159	0.137	1	2.37	0.014	0.46	0.3	<0.01	5.3	0.3	<0.05	7	<0.5	<0.2
1070459	Soil	13	71	1.07	173	0.121	2	2.37	0.015	0.28	0.2	0.03	5.0	0.3	0.10	8	0.6	<0.2
1070461	Soil	13	67	1.12	114	0.074	2	2.61	0.011	0.16	<0.1	0.02	3.9	0.2	0.07	8	0.6	<0.2
1070463	Soil	19	63	1.19	90	0.077	2	2.41	0.007	0.24	<0.1	0.01	4.6	0.3	<0.05	7	1.1	<0.2
1070462	Soil	17	61	1.09	98	0.061	2	2.36	0.012	0.20	<0.1	0.06	3.9	0.3	<0.05	6	0.6	<0.2
1070464	Soil	19	66	1.26	93	0.079	2	2.58	0.007	0.26	<0.1	<0.01	4.6	0.3	<0.05	7	0.6	<0.2
1064463	Soil	8	61	0.99	219	0.153	<1	2.30	0.025	0.43	0.2	<0.01	5.4	0.2	<0.05	7	<0.5	<0.2
1064464	Soil	8	57	0.92	187	0.150	<1	2.19	0.018	0.42	0.1	<0.01	6.1	0.2	<0.05	7	<0.5	<0.2
1064461	Soil	8	61	0.91	222	0.158	<1	2.07	0.012	0.46	0.1	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1064462	Soil	8	54	0.86	195	0.150	<1	1.84	0.018	0.43	0.2	<0.01	5.7	0.2	<0.05	7	<0.5	<0.2
1064460	Soil	7	70	1.00	275	0.182	2	2.39	0.015	0.61	0.1	0.01	7.1	0.2	<0.05	8	<0.5	<0.2
1064459	Soil	8	62	0.89	206	0.148	1	2.05	0.013	0.51	0.1	<0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1064458	Soil	6	62	0.94	247	0.168	2	2.16	0.015	0.70	0.1	<0.01	6.3	0.2	<0.05	7	<0.5	<0.2
1064457	Soil	6	56	0.84	134	0.109	2	1.95	0.013	0.21	0.1	0.03	4.1	0.2	0.06	7	0.7	<0.2
1064454	Soil	7	63	0.96	204	0.158	<1	2.49	0.014	0.47	0.2	0.01	6.5	0.2	<0.05	8	0.6	<0.2
1064455	Soil	7	77	1.11	265	0.155	1	2.67	0.013	0.56	0.1	<0.01	6.7	0.3	<0.05	9	<0.5	<0.2
1064456	Soil	5	58	0.80	148	0.106	<1	1.82	0.011	0.35	<0.1	0.02	4.7	0.2	<0.05	7	<0.5	<0.2
1064453	Soil	6	57	0.89	191	0.133	1	2.11	0.014	0.46	0.2	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1062241	Soil	6	62	0.90	139	0.129	2	2.02	0.013	0.34	0.1	0.02	4.8	0.2	0.07	7	<0.5	<0.2
1062242	Soil	6	46	0.77	108	0.122	1	1.68	0.015	0.29	0.1	<0.01	3.8	0.2	<0.05	5	0.7	<0.2
1064452	Soil	5	59	0.93	192	0.146	<1	2.18	0.014	0.48	0.1	0.01	5.8	0.3	<0.05	7	<0.5	<0.2
1064451	Soil	3	74	0.93	309	0.172	1	2.61	0.016	0.82	0.1	0.01	7.0	0.3	<0.05	8	0.9	<0.2
1062250	Soil	4	59	0.86	193	0.139	<1	2.05	0.013	0.48	0.1	0.03	5.3	0.3	0.07	8	<0.5	<0.2
1062249	Soil	5	72	0.99	351	0.149	1	2.65	0.015	0.62	0.1	0.03	6.9	0.3	0.05	9	0.5	<0.2
1062248	Soil	5	77	1.07	295	0.179	2	2.74	0.012	0.67	0.1	0.02	7.5	0.3	<0.05	9	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1062243	Soil	0.9	44.4	6.0	66	<0.1	34.2	14.3	370	3.46	6.8	0.4	10.4	1.2	22	0.1	0.3	0.1	108	0.24	0.062
1062244	Soil	1.4	100.1	6.8	93	0.2	88.3	30.0	588	4.92	8.5	0.5	2.7	0.9	89	0.2	0.4	0.4	133	0.32	0.133
1062245	Soil	1.3	90.6	11.7	102	0.2	59.2	21.0	513	4.46	9.2	1.1	3.9	2.6	58	<0.1	0.6	0.3	129	0.16	0.116
1062246	Soil	1.0	53.1	8.8	91	0.2	45.9	17.4	525	4.58	7.2	0.8	1.8	1.7	33	<0.1	0.2	0.3	138	0.12	0.077
1062247	Soil	0.9	46.4	7.3	81	0.1	42.7	16.0	512	4.17	6.9	0.6	1.1	1.4	24	<0.1	0.2	0.3	127	0.10	0.051
1062240	Soil	0.8	40.2	5.0	60	<0.1	34.8	14.6	350	3.16	6.5	0.5	1.5	1.1	23	0.1	0.4	0.1	78	0.22	0.058
1062239	Soil	1.2	45.5	7.0	71	<0.1	41.9	18.2	476	3.66	7.7	0.5	1.6	1.1	25	0.1	0.4	0.2	94	0.25	0.076
1062237	Soil	0.8	33.3	6.1	82	<0.1	90.7	25.8	550	4.07	11.8	0.5	1.5	2.1	46	0.1	0.3	0.1	100	0.46	0.102
1062238	Soil	0.9	72.5	5.8	78	<0.1	84.2	53.8	653	3.54	14.6	0.5	2.9	2.0	25	0.2	0.3	0.1	89	0.30	0.094
1062235	Soil	1.4	42.0	7.8	70	<0.1	31.8	13.8	471	3.82	6.9	0.5	1.3	0.7	25	<0.1	0.5	0.2	106	0.18	0.071
1062236	Soil	1.4	46.0	6.9	71	0.1	36.4	15.7	530	3.89	7.4	0.6	2.5	0.9	27	<0.1	0.3	0.2	114	0.25	0.095
1062233	Soil	0.9	53.4	4.5	64	<0.1	50.1	17.9	360	3.50	7.9	0.5	2.1	1.6	32	0.2	0.3	0.2	94	0.30	0.082
1062234	Soil	0.9	51.7	4.1	60	<0.1	48.1	16.6	344	3.33	7.2	0.5	3.4	1.8	31	0.2	0.3	0.1	93	0.30	0.078
1062232	Soil	0.9	35.3	5.9	58	<0.1	34.8	13.9	352	3.32	7.8	0.5	4.0	1.3	24	0.1	0.3	0.1	91	0.26	0.070
1062231	Soil	0.8	49.6	4.7	59	<0.1	52.2	19.4	446	3.69	6.7	0.5	1.9	2.1	30	0.2	0.3	0.1	107	0.37	0.096
1062230	Soil	0.8	55.2	5.9	67	<0.1	49.8	19.0	419	3.74	9.0	0.5	1.9	1.7	28	0.1	0.4	0.2	107	0.20	0.047
1062229	Soil	0.9	58.8	6.3	65	<0.1	50.0	18.5	474	3.90	9.4	0.7	1.5	1.9	33	<0.1	0.3	0.2	115	0.29	0.084
1075731	Soil	1.5	110.2	6.7	81	0.4	77.9	36.1	807	4.34	166.1	0.8	6.1	1.3	66	0.1	0.3	0.3	126	0.55	0.087
1075732	Soil	1.3	66.6	6.1	83	0.2	58.4	24.3	524	4.10	140.7	0.7	4.8	1.4	45	0.1	0.4	0.2	121	0.39	0.095
1075733	Soil	1.1	64.9	6.0	85	0.2	58.8	27.0	594	4.12	139.9	0.6	6.2	1.5	54	0.2	0.2	0.2	123	0.46	0.111
1075730	Soil	1.2	85.7	7.1	90	0.3	78.7	26.9	586	5.03	255.1	0.6	10.8	1.7	75	0.2	0.4	0.3	136	0.53	0.114
1075728	Soil	1.2	83.0	6.4	89	0.2	74.7	27.9	633	5.06	139.2	0.6	6.7	2.0	61	0.2	0.3	0.2	141	0.44	0.117
1075721	Soil	1.2	81.1	6.7	83	0.2	70.1	23.0	524	4.36	100.9	0.5	3.0	0.9	44	0.2	0.3	0.2	123	0.36	0.094
1075727	Soil	0.9	33.0	3.5	59	0.2	34.1	11.0	281	2.80	65.3	0.4	5.3	0.9	30	0.3	0.2	0.2	90	0.32	0.068
1075725	Soil	1.2	87.9	7.2	76	0.3	71.6	29.5	631	4.28	183.4	0.8	9.0	1.4	63	<0.1	0.4	0.3	122	0.53	0.100
1075722	Soil	1.2	97.5	6.8	85	0.1	86.1	30.8	612	4.69	165.6	0.6	6.2	1.4	70	0.2	0.4	0.3	136	0.54	0.120
1075726	Soil	1.4	60.0	7.0	78	0.4	53.2	21.1	582	4.21	96.7	0.8	5.5	1.3	44	<0.1	0.2	0.3	127	0.42	0.078
1075729	Soil	1.4	57.6	4.6	73	0.3	53.4	17.9	429	3.79	90.2	0.6	4.9	1.5	40	0.2	0.2	0.2	113	0.38	0.094
1075723	Soil	0.8	63.0	4.8	72	0.2	67.7	23.4	520	3.85	128.6	0.5	5.1	1.2	66	0.1	0.3	0.2	118	0.55	0.131
1075724	Soil	1.1	89.4	6.2	86	0.1	80.5	27.7	570	4.22	110.4	0.5	7.0	1.4	52	0.2	0.4	0.2	120	0.40	0.126



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1062243	Soil	5	59	0.92	152	0.153	2	1.80	0.014	0.45	0.1	<0.01	5.0	0.2	0.07	7	<0.5	<0.2
1062244	Soil	3	84	1.21	482	0.233	<1	3.02	0.019	1.19	0.1	0.02	9.1	0.4	0.11	11	0.7	<0.2
1062245	Soil	9	83	1.20	538	0.272	<1	5.05	0.020	1.09	0.2	0.02	10.6	0.4	<0.05	15	<0.5	<0.2
1062246	Soil	6	90	1.23	485	0.265	<1	4.12	0.019	1.03	0.2	0.02	10.6	0.4	<0.05	13	0.6	<0.2
1062247	Soil	5	83	1.14	453	0.238	<1	3.40	0.016	1.05	0.1	0.02	9.2	0.4	<0.05	11	<0.5	<0.2
1062240	Soil	6	43	0.76	106	0.119	<1	1.65	0.014	0.23	<0.1	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
1062239	Soil	6	55	0.89	146	0.145	<1	2.00	0.014	0.39	0.1	0.02	4.4	0.2	<0.05	8	<0.5	<0.2
1062237	Soil	10	156	2.11	204	0.190	<1	3.05	0.030	0.31	<0.1	0.02	7.0	0.3	<0.05	9	<0.5	<0.2
1062238	Soil	8	52	0.88	156	0.149	1	2.04	0.017	0.41	0.2	0.01	4.9	0.2	<0.05	7	<0.5	<0.2
1062235	Soil	5	63	0.94	176	0.142	<1	2.10	0.016	0.43	<0.1	0.02	4.6	0.2	0.09	9	<0.5	<0.2
1062236	Soil	6	69	1.08	249	0.162	<1	2.48	0.022	0.60	0.2	0.05	6.1	0.3	0.11	9	0.5	<0.2
1062233	Soil	7	58	0.93	192	0.169	<1	1.97	0.020	0.41	0.1	0.02	5.4	0.2	0.05	7	<0.5	<0.2
1062234	Soil	7	58	0.90	185	0.165	<1	1.93	0.020	0.41	0.2	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1062232	Soil	8	54	0.83	114	0.140	<1	1.77	0.015	0.26	0.1	0.02	4.3	0.1	<0.05	7	<0.5	<0.2
1062231	Soil	7	67	1.09	240	0.202	<1	2.54	0.019	0.55	0.2	0.01	6.9	0.2	<0.05	8	<0.5	<0.2
1062230	Soil	7	67	1.06	234	0.189	1	2.49	0.017	0.49	0.1	0.02	6.2	0.2	<0.05	8	<0.5	<0.2
1062229	Soil	8	73	1.13	286	0.190	<1	2.84	0.018	0.59	1.2	0.02	7.0	0.2	<0.05	9	<0.5	<0.2
1075731	Soil	9	83	1.22	329	0.195	2	2.91	0.020	0.56	0.3	0.05	6.7	0.3	<0.05	10	0.8	<0.2
1075732	Soil	7	83	1.22	304	0.207	<1	2.73	0.020	0.66	0.3	0.05	6.8	0.3	<0.05	9	<0.5	<0.2
1075733	Soil	7	86	1.22	308	0.188	<1	2.89	0.019	0.73	0.2	0.04	7.2	0.3	<0.05	10	<0.5	<0.2
1075730	Soil	7	97	1.40	336	0.207	<1	3.33	0.018	0.88	0.2	0.04	8.6	0.3	<0.05	11	0.8	<0.2
1075728	Soil	7	97	1.47	390	0.228	<1	3.30	0.022	0.94	0.2	0.03	8.8	0.4	<0.05	11	<0.5	<0.2
1075721	Soil	6	80	1.19	287	0.170	1	2.83	0.018	0.74	0.2	0.03	7.1	0.3	0.05	10	<0.5	<0.2
1075727	Soil	5	56	0.89	195	0.152	<1	1.72	0.015	0.51	0.2	0.04	4.6	0.2	<0.05	7	<0.5	<0.2
1075725	Soil	9	130	1.52	334	0.202	<1	2.99	0.026	0.40	0.2	0.04	6.2	0.3	<0.05	9	<0.5	<0.2
1075722	Soil	7	98	1.41	367	0.205	<1	3.17	0.025	0.97	0.2	0.03	8.5	0.4	<0.05	11	<0.5	<0.2
1075726	Soil	8	88	1.23	331	0.187	<1	2.88	0.018	0.73	0.2	0.06	7.5	0.3	<0.05	11	0.6	<0.2
1075729	Soil	6	77	1.18	272	0.199	<1	2.44	0.018	0.68	0.3	0.03	6.4	0.3	<0.05	9	<0.5	<0.2
1075723	Soil	6	116	1.51	365	0.221	<1	2.85	0.040	0.81	0.2	0.02	6.4	0.3	<0.05	9	<0.5	<0.2
1075724	Soil	6	79	1.18	302	0.184	<1	2.76	0.021	0.72	0.2	0.03	7.5	0.3	<0.05	9	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1075745	Soil	1.1	55.9	5.7	84	0.2	57.3	21.3	603	4.22	67.3	0.6	3.6	1.5	56	0.1	0.2	0.2	123	0.38	0.087
1075734	Soil	1.2	58.1	5.5	78	0.3	53.5	22.6	511	3.95	131.4	0.6	7.4	1.2	47	0.1	0.3	0.2	113	0.45	0.101
1075736	Soil	1.4	77.1	7.0	89	0.2	70.8	26.5	664	4.92	215.2	0.6	7.5	1.4	65	0.3	0.3	0.3	137	0.41	0.092
1075735	Soil	1.1	64.2	6.1	84	0.3	53.2	25.5	620	4.02	109.5	0.6	4.0	1.0	44	0.2	0.3	0.2	112	0.35	0.077
1075737	Soil	1.6	79.3	7.1	83	0.3	73.3	24.8	647	4.72	233.0	0.6	6.0	1.4	57	0.1	0.3	0.3	129	0.44	0.089
1075740	Soil	1.1	77.9	8.6	95	0.3	72.8	28.7	738	5.02	232.1	0.7	10.4	1.8	81	0.2	0.4	0.3	137	0.54	0.095
1075738	Soil	1.5	79.5	7.0	85	0.3	72.0	24.9	638	4.72	226.9	0.6	4.5	1.4	56	0.1	0.2	0.3	128	0.44	0.086
1075742	Soil	1.4	77.9	6.5	87	0.3	63.3	30.4	727	4.30	91.2	0.7	58.5	1.3	63	0.1	0.3	0.4	128	0.48	0.096
1075739	Soil	1.4	85.7	8.1	101	0.3	76.5	33.1	812	5.09	243.4	0.6	11.9	1.7	62	0.3	0.4	0.4	134	0.39	0.095
1075743	Soil	1.1	44.3	4.7	63	0.5	30.6	16.0	685	2.59	36.3	0.6	23.9	0.7	60	0.2	0.4	0.3	72	0.64	0.061
1075744	Soil	1.3	90.5	7.5	102	0.2	77.0	33.7	770	4.90	259.3	0.6	39.0	1.7	129	0.2	0.4	0.4	131	0.36	0.095
1075741	Soil	0.9	60.4	14.3	138	0.5	92.3	32.2	613	5.48	136.6	0.2	5.5	1.6	71	0.2	0.3	2.1	112	1.11	0.259
1075851	Soil	1.2	54.3	6.2	78	0.1	58.0	24.4	632	3.75	80.3	0.8	5.6	1.3	56	<0.1	0.3	0.3	99	0.48	0.068
1075750	Soil	1.2	66.4	6.6	110	0.1	68.6	26.3	679	4.29	94.0	0.7	5.0	1.4	58	0.2	0.5	0.2	116	0.45	0.083
1075746	Soil	0.9	56.9	7.0	84	0.2	52.6	22.3	643	4.14	71.2	0.7	4.7	1.6	82	0.2	0.2	0.2	123	0.48	0.086
1075749	Soil	1.0	60.4	7.2	100	0.2	78.3	38.2	956	4.50	77.2	0.6	5.6	1.6	73	0.1	0.5	0.2	110	0.56	0.091
1075748	Soil	0.9	55.2	7.0	84	0.2	62.1	24.4	596	4.19	73.4	0.7	4.7	1.7	64	<0.1	0.4	0.2	116	0.45	0.094
1075747	Soil	1.0	40.0	5.0	72	0.3	48.8	13.0	334	3.19	61.3	0.5	2.7	1.1	47	0.4	0.3	0.2	86	0.34	0.073
1064051	Soil	0.8	40.8	5.5	76	0.3	33.9	13.5	482	2.97	9.3	0.7	3.2	2.1	33	0.1	0.4	0.1	71	0.47	0.086
1064052	Soil	0.8	30.5	6.6	95	<0.1	33.6	15.1	553	3.36	11.1	0.6	0.8	2.5	28	0.3	0.4	0.2	76	0.43	0.097
1064053	Soil	1.5	81.6	7.9	118	0.4	65.4	20.7	562	4.37	27.4	1.5	2.4	2.8	39	<0.1	0.4	0.2	98	0.38	0.089
1064054	Soil	1.3	98.9	7.6	149	0.4	72.1	24.6	719	4.88	25.0	2.0	3.7	4.7	34	0.3	0.4	0.2	104	0.33	0.124
1064055	Soil	1.0	52.5	5.6	80	0.6	40.2	17.5	731	3.32	12.2	1.1	4.6	2.6	35	0.2	0.3	0.2	75	0.46	0.093
1064056	Soil	0.7	38.7	5.5	74	0.1	40.8	14.0	455	3.15	9.8	0.6	3.5	2.4	32	0.1	0.3	0.1	73	0.45	0.087
1064057	Soil	0.6	37.4	5.4	81	0.2	37.4	13.5	461	3.33	11.2	0.6	1.8	2.9	31	0.2	0.3	0.1	77	0.42	0.089
1064058	Soil	0.6	60.3	4.6	90	0.3	48.0	17.3	444	3.46	16.9	0.8	2.3	3.7	30	<0.1	0.2	0.1	77	0.36	0.103
1064059	Soil	0.8	62.4	5.5	100	0.2	47.3	15.8	524	3.62	14.2	0.8	3.2	3.9	29	0.2	0.3	0.2	81	0.36	0.104
1064060	Soil	1.5	66.0	8.2	88	1.0	47.7	17.9	477	4.14	72.5	2.0	9.5	3.5	34	0.2	0.4	0.3	99	0.38	0.105
1064061	Soil	1.2	59.0	5.2	83	0.7	45.9	13.9	425	3.27	35.5	1.5	5.0	2.3	36	<0.1	0.2	0.2	75	0.44	0.109
1064062	Soil	0.8	44.7	5.1	83	0.1	39.3	12.8	443	3.42	20.3	0.7	1.9	2.6	28	0.1	0.3	0.1	77	0.35	0.080



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075745	Soil	6	86	1.27	341	0.213	<1	2.98	0.024	0.75	0.2	0.02	7.6	0.3	<0.05	10	0.6	<0.2
1075734	Soil	6	78	1.12	267	0.176	1	2.60	0.018	0.66	0.3	0.04	6.9	0.3	<0.05	9	<0.5	<0.2
1075736	Soil	6	100	1.36	358	0.204	<1	3.38	0.020	0.88	0.3	0.04	8.1	0.3	<0.05	11	<0.5	<0.2
1075735	Soil	7	87	1.12	275	0.157	1	2.59	0.018	0.60	0.2	0.05	5.9	0.3	<0.05	9	<0.5	<0.2
1075737	Soil	6	87	1.22	321	0.184	<1	3.13	0.018	0.74	0.4	0.02	7.4	0.3	<0.05	11	<0.5	<0.2
1075740	Soil	7	123	1.60	385	0.195	<1	3.63	0.023	0.73	0.2	0.05	7.9	0.3	<0.05	12	0.5	<0.2
1075738	Soil	6	85	1.21	318	0.172	<1	3.09	0.017	0.72	0.3	0.02	7.5	0.3	<0.05	10	<0.5	<0.2
1075742	Soil	7	95	1.30	327	0.178	2	3.02	0.018	0.57	0.3	0.06	7.1	0.3	0.10	10	<0.5	<0.2
1075739	Soil	7	99	1.32	329	0.188	2	3.35	0.015	0.68	0.2	0.04	7.9	0.3	0.06	11	0.8	<0.2
1075743	Soil	6	46	0.62	252	0.098	2	1.52	0.017	0.23	0.2	0.07	3.3	0.2	0.11	6	0.7	<0.2
1075744	Soil	7	92	1.40	386	0.205	1	3.51	0.015	0.85	0.2	0.02	8.5	0.4	<0.05	11	0.7	<0.2
1075741	Soil	10	174	2.87	594	0.283	1	3.37	0.071	1.02	<0.1	0.02	4.0	0.6	0.07	13	1.0	<0.2
1075851	Soil	7	94	1.34	217	0.147	1	2.71	0.032	0.40	0.1	0.03	4.9	0.2	<0.05	9	0.6	<0.2
1075750	Soil	6	102	1.40	271	0.166	1	2.98	0.022	0.56	0.1	0.02	6.8	0.3	0.06	9	<0.5	<0.2
1075746	Soil	7	90	1.39	354	0.202	1	3.17	0.026	0.71	0.7	0.05	7.2	0.3	0.05	10	<0.5	<0.2
1075749	Soil	7	111	1.65	257	0.174	<1	3.18	0.032	0.61	0.2	0.03	6.2	0.3	<0.05	10	0.6	<0.2
1075748	Soil	6	98	1.47	355	0.180	1	3.37	0.028	0.77	0.2	0.03	7.2	0.3	<0.05	10	0.6	<0.2
1075747	Soil	6	80	1.08	194	0.154	1	2.19	0.021	0.39	0.1	0.06	4.3	0.2	<0.05	8	0.6	<0.2
1064051	Soil	13	53	0.88	108	0.079	1	1.77	0.018	0.18	<0.1	0.05	3.9	0.1	<0.05	6	<0.5	<0.2
1064052	Soil	9	55	0.98	105	0.111	1	2.01	0.011	0.26	0.1	0.02	3.7	0.2	<0.05	6	0.6	<0.2
1064053	Soil	21	73	1.22	180	0.096	1	2.76	0.015	0.23	<0.1	0.02	5.1	0.3	0.05	9	0.9	<0.2
1064054	Soil	24	78	1.37	185	0.110	1	3.13	0.014	0.41	<0.1	0.04	6.1	0.3	0.06	9	0.8	<0.2
1064055	Soil	16	57	0.98	128	0.081	1	2.08	0.013	0.22	0.2	0.04	4.4	0.2	0.07	6	0.7	<0.2
1064056	Soil	10	52	0.96	109	0.105	2	1.82	0.017	0.18	<0.1	0.01	3.6	0.1	<0.05	6	<0.5	<0.2
1064057	Soil	10	58	1.00	114	0.107	1	1.96	0.014	0.28	<0.1	0.02	4.1	0.2	<0.05	6	<0.5	<0.2
1064058	Soil	13	56	0.98	100	0.098	1	2.05	0.011	0.34	<0.1	0.02	4.6	0.2	<0.05	7	<0.5	<0.2
1064059	Soil	13	61	1.07	117	0.101	1	2.28	0.011	0.33	<0.1	0.02	4.5	0.2	<0.05	7	<0.5	<0.2
1064060	Soil	21	62	0.98	127	0.087	1	2.44	0.012	0.26	0.1	0.06	5.2	0.2	<0.05	7	0.7	<0.2
1064061	Soil	17	59	0.97	99	0.076	1	2.29	0.012	0.24	<0.1	0.03	4.1	0.2	<0.05	7	0.7	<0.2
1064062	Soil	12	59	1.03	119	0.099	2	2.17	0.013	0.23	<0.1	0.01	4.2	0.2	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064082	Soil	0.9	45.7	5.9	80	0.3	43.1	16.2	556	3.59	16.9	0.7	26.4	2.8	30	0.2	0.3	0.2	80	0.39	0.093
1064083	Soil	0.7	41.5	5.1	79	0.2	40.1	13.0	400	3.31	16.7	0.7	1.7	1.9	29	0.1	0.2	0.1	77	0.38	0.093
1064081	Soil	0.7	43.9	4.0	82	0.2	40.4	14.3	463	3.40	16.1	0.6	1.6	2.4	35	<0.1	0.2	0.1	74	0.46	0.104
1064080	Soil	0.7	49.0	4.7	81	<0.1	43.0	14.7	480	3.42	14.6	0.6	1.9	3.3	29	0.1	0.2	0.1	74	0.36	0.106
1064079	Soil	0.6	55.7	4.7	87	0.2	44.2	15.0	463	3.37	12.0	1.1	2.3	3.5	35	0.1	0.2	0.1	72	0.41	0.113
1064078	Soil	0.6	51.6	4.1	97	0.3	48.5	14.3	456	3.72	25.9	1.0	1.7	4.2	44	0.1	0.2	0.3	77	0.43	0.114
1064077	Soil	0.9	35.0	5.8	86	0.2	34.7	14.6	449	3.31	14.3	0.6	1.3	2.7	28	0.1	0.2	0.2	72	0.30	0.086
1064076	Soil	0.9	35.0	6.5	85	0.2	36.6	15.1	409	3.29	71.0	0.5	50.9	2.4	30	0.2	0.3	0.2	73	0.32	0.080
1064075	Soil	0.6	55.5	4.6	91	0.1	52.4	18.9	441	3.67	28.3	0.6	2.8	3.5	27	0.3	0.2	0.2	77	0.33	0.111
1064063	Soil	0.7	40.2	5.2	78	0.1	35.4	12.7	447	3.24	12.2	0.6	0.6	3.0	28	0.1	0.2	0.2	76	0.35	0.071
1064064	Soil	1.2	46.1	7.0	104	0.2	45.5	15.9	452	4.11	26.9	0.7	3.3	3.8	27	0.1	0.3	0.2	89	0.32	0.083
1064065	Soil	0.8	24.6	6.2	89	<0.1	29.7	12.9	428	3.38	14.1	0.4	0.6	1.9	25	0.3	0.3	0.2	82	0.32	0.070
1064067	Soil	0.8	22.5	5.4	65	0.1	25.4	12.2	495	2.74	9.7	0.5	1.3	1.9	24	0.1	0.3	0.1	64	0.39	0.076
1064066	Soil	0.8	24.2	5.8	71	0.1	27.6	11.8	445	2.89	10.6	0.5	3.8	2.0	26	<0.1	0.3	0.1	67	0.43	0.080
1064068	Soil	0.7	42.6	5.4	83	0.1	40.9	14.6	576	3.41	11.9	0.8	2.3	2.2	32	0.2	0.4	0.1	83	0.56	0.077
1064069	Soil	0.9	43.4	6.2	103	0.2	39.4	16.1	543	3.61	18.5	0.7	2.2	3.2	27	0.5	0.3	0.2	82	0.37	0.090
1064070	Soil	0.7	32.0	5.6	91	0.1	37.6	14.3	423	3.71	16.0	0.5	<0.5	2.6	23	0.2	0.3	0.2	79	0.36	0.100
1064071	Soil	0.7	35.5	4.9	72	0.2	35.5	13.1	342	3.38	15.5	0.6	1.5	2.9	26	0.3	0.2	0.2	67	0.38	0.149
1064072	Soil	1.0	56.8	5.3	87	0.2	47.5	17.8	431	3.52	26.8	0.8	3.4	2.7	31	0.2	0.2	0.2	77	0.39	0.092
1064073	Soil	0.6	54.3	3.2	85	<0.1	46.5	15.4	405	3.74	22.4	0.6	4.0	3.3	28	0.1	0.2	0.2	85	0.42	0.123
1064074	Soil	0.9	47.0	6.1	99	0.2	42.8	18.3	437	3.61	23.4	0.7	4.7	2.1	29	1.0	0.3	0.2	80	0.38	0.092
1064250	Soil	1.0	46.7	4.1	43	0.2	40.6	10.3	207	2.64	10.4	0.6	5.7	0.8	27	<0.1	0.2	0.1	74	0.33	0.060
1064251	Soil	1.0	70.4	4.5	49	0.1	69.0	20.0	378	3.95	17.0	0.4	6.1	1.2	27	0.2	0.2	0.2	108	0.40	0.114
1064249	Soil	0.9	98.4	4.4	73	0.2	92.9	29.0	423	4.61	14.9	0.6	5.4	1.8	30	0.2	0.2	0.2	143	0.37	0.088
1064248	Soil	1.1	96.8	5.3	60	0.1	86.3	26.8	477	4.71	15.9	0.6	6.3	1.6	35	<0.1	0.2	0.2	141	0.42	0.100
1064247	Soil	0.6	58.8	3.6	46	0.1	53.1	17.0	376	3.52	5.9	0.5	5.9	1.4	27	0.2	0.1	0.1	107	0.45	0.103
1064246	Soil	0.7	65.4	4.8	66	<0.1	59.7	20.0	417	3.94	9.4	0.5	4.1	1.2	30	0.2	0.2	0.1	117	0.36	0.076
1064245	Soil	0.8	44.1	5.1	39	0.1	40.4	13.8	353	3.72	7.8	0.4	3.0	0.9	22	0.1	0.1	0.2	109	0.28	0.051
1064243	Soil	1.2	75.9	6.1	64	0.2	66.2	21.5	411	4.23	13.3	0.6	4.0	1.4	36	0.2	0.2	0.2	117	0.42	0.093
1064244	Soil	1.1	74.8	5.6	63	0.2	65.9	21.5	431	4.26	13.4	0.6	3.9	1.4	37	0.2	0.3	0.2	121	0.41	0.096



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1064082	Soil	12	58	1.05	133	0.111	2	2.25	0.012	0.37	<0.1	0.02	4.1	0.2	<0.05	7	<0.5
1064083	Soil	10	56	0.98	111	0.104	2	2.07	0.011	0.30	<0.1	0.01	3.9	0.2	<0.05	6	<0.5
1064081	Soil	11	55	1.09	183	0.102	<1	2.16	0.012	0.37	<0.1	0.01	4.2	0.2	<0.05	7	<0.5
1064080	Soil	12	53	0.99	115	0.089	<1	2.09	0.010	0.31	<0.1	0.01	3.8	0.2	<0.05	6	<0.5
1064079	Soil	17	54	0.98	116	0.082	1	2.08	0.011	0.28	<0.1	0.03	4.2	0.2	<0.05	6	<0.5
1064078	Soil	15	59	1.18	95	0.090	<1	2.26	0.011	0.38	<0.1	0.02	4.6	0.3	<0.05	7	0.6
1064077	Soil	10	51	0.91	99	0.095	<1	1.94	0.010	0.29	<0.1	0.02	3.6	0.2	<0.05	7	<0.5
1064076	Soil	9	53	0.91	90	0.087	1	1.85	0.009	0.29	0.2	0.02	3.6	0.2	<0.05	6	<0.5
1064075	Soil	11	57	1.05	113	0.100	1	2.26	0.009	0.38	<0.1	0.01	4.1	0.2	<0.05	7	<0.5
1064063	Soil	10	56	0.97	112	0.112	<1	2.05	0.013	0.19	<0.1	0.01	4.0	0.2	<0.05	6	<0.5
1064064	Soil	11	64	1.05	112	0.110	<1	2.59	0.014	0.28	<0.1	0.02	4.5	0.2	<0.05	8	0.6
1064065	Soil	7	55	0.92	84	0.117	2	1.70	0.010	0.30	0.1	0.01	3.3	0.2	<0.05	7	<0.5
1064067	Soil	8	43	0.74	76	0.079	2	1.64	0.011	0.13	0.1	0.01	2.7	<0.1	<0.05	5	<0.5
1064066	Soil	8	47	0.77	84	0.083	2	1.75	0.012	0.14	0.1	0.02	3.2	0.1	<0.05	6	<0.5
1064068	Soil	9	63	1.06	132	0.103	3	2.04	0.019	0.23	<0.1	0.01	4.3	0.2	<0.05	6	<0.5
1064069	Soil	9	56	1.00	104	0.103	<1	2.15	0.012	0.28	0.1	0.02	4.3	0.2	<0.05	7	0.9
1064070	Soil	8	58	1.01	121	0.109	2	2.08	0.009	0.32	<0.1	0.01	4.1	0.2	<0.05	7	<0.5
1064071	Soil	9	48	0.80	83	0.083	2	1.88	0.008	0.23	0.2	0.02	3.3	0.1	<0.05	6	0.5
1064072	Soil	13	52	0.90	119	0.106	<1	1.99	0.013	0.29	0.1	0.03	4.0	0.2	<0.05	7	<0.5
1064073	Soil	9	65	1.09	137	0.116	<1	2.14	0.013	0.48	<0.1	0.02	4.8	0.2	<0.05	7	1.3
1064074	Soil	10	54	0.91	118	0.097	2	1.87	0.011	0.32	<0.1	0.03	4.0	0.2	<0.05	7	0.8
1064250	Soil	6	55	0.72	191	0.097	<1	1.44	0.014	0.26	0.1	0.03	4.3	0.1	0.06	6	1.6
1064251	Soil	5	65	1.04	208	0.160	1	2.27	0.015	0.65	0.3	0.04	6.4	0.2	0.06	8	0.9
1064249	Soil	7	120	1.52	360	0.207	<1	2.93	0.024	0.85	0.2	0.03	9.2	0.3	0.05	9	1.2
1064248	Soil	7	90	1.35	321	0.190	2	2.93	0.024	0.87	0.2	0.04	8.6	0.3	0.08	9	1.3
1064247	Soil	6	69	1.05	267	0.159	<1	2.19	0.025	0.56	0.1	0.04	7.2	0.3	0.06	7	1.2
1064246	Soil	5	84	1.24	335	0.176	1	2.69	0.017	0.76	0.2	0.03	8.1	0.3	<0.05	9	1.0
1064245	Soil	6	63	0.95	221	0.157	1	2.20	0.014	0.61	0.1	0.02	6.2	0.3	<0.05	7	1.0
1064243	Soil	7	77	1.20	265	0.166	1	2.73	0.021	0.60	0.1	0.02	7.6	0.3	0.08	9	0.7
1064244	Soil	7	78	1.18	274	0.171	1	2.68	0.017	0.62	0.2	0.02	7.5	0.3	0.07	8	0.5



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Part 1

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064241	Soil	1.0	86.3	5.6	57	0.3	62.2	22.2	438	4.18	12.4	0.6	3.9	1.1	38	<0.1	0.2	0.2	118	0.44	0.087
1064242	Soil	0.8	86.1	5.6	64	0.1	71.8	24.2	454	4.33	11.1	0.5	6.5	1.5	29	0.2	0.2	0.2	124	0.35	0.084
1064240	Soil	1.1	58.2	5.9	52	0.3	44.7	16.7	457	3.80	9.3	0.6	2.2	1.0	33	0.1	0.2	0.2	115	0.36	0.090
1064239	Soil	1.1	67.6	6.3	64	0.2	57.4	20.4	548	4.41	11.0	0.6	4.1	1.3	32	0.2	0.2	0.2	131	0.38	0.080
1064238	Soil	1.3	57.2	5.9	57	<0.1	47.4	19.3	429	4.10	13.4	0.6	3.1	1.1	27	0.2	0.2	0.2	124	0.32	0.072
1064237	Soil	0.5	47.7	3.7	55	0.1	47.7	16.6	343	3.58	7.8	0.5	3.8	1.5	23	0.1	0.1	0.2	110	0.31	0.093
1064236	Soil	1.1	60.3	7.2	77	0.1	59.8	18.3	391	4.65	21.2	0.6	3.4	2.1	33	0.1	0.2	0.2	139	0.35	0.053
1064235	Soil	0.7	58.7	4.7	53	<0.1	61.7	22.2	368	3.51	12.7	0.6	18.1	1.7	26	0.2	0.2	0.1	96	0.34	0.086
1064234	Soil	1.0	73.4	5.8	69	0.2	63.5	27.5	478	4.15	14.3	0.7	1.6	1.5	36	0.2	0.2	0.2	119	0.42	0.095
1064233	Soil	0.8	49.5	4.6	79	0.1	46.5	19.9	420	4.21	11.1	0.6	5.3	1.4	33	0.3	0.2	0.2	130	0.38	0.081
1064231	Soil	0.5	47.5	3.4	72	0.1	48.5	18.7	335	3.78	6.9	0.6	2.3	1.8	32	<0.1	0.1	0.1	119	0.47	0.096
1064232	Soil	0.6	42.6	3.2	67	0.2	46.8	16.9	324	3.62	7.3	0.6	1.6	1.8	31	0.1	<0.1	0.1	115	0.49	0.097
1064230	Soil	0.6	73.8	5.2	79	<0.1	80.5	28.4	372	4.50	16.0	0.7	2.7	2.1	41	<0.1	<0.1	0.2	134	0.42	0.083
1064229	Soil	0.8	54.2	4.8	64	<0.1	54.1	19.2	345	4.12	13.5	0.6	6.6	2.1	23	0.1	0.2	0.1	126	0.32	0.066
1064228	Soil	0.7	54.4	4.1	59	<0.1	51.5	21.3	365	4.05	11.9	0.5	4.6	1.7	30	<0.1	0.2	0.2	115	0.38	0.091
1064252	Soil	1.0	102.2	5.4	64	0.2	90.7	29.4	478	4.29	26.9	0.5	191.3	1.4	32	0.1	0.2	0.2	119	0.42	0.105
1064253	Soil	1.1	77.4	5.3	61	0.1	76.7	23.0	417	4.13	11.2	0.4	1.6	1.3	29	0.1	0.2	0.2	113	0.35	0.098
1064255	Soil	0.7	124.5	5.0	71	0.1	77.9	26.6	395	4.55	12.4	0.5	5.6	1.7	39	0.2	0.3	0.2	119	0.41	0.098
1064256	Soil	1.1	74.4	5.5	74	0.1	51.8	20.1	524	4.25	14.2	0.6	1.9	1.4	32	0.2	0.3	0.2	112	0.46	0.133
1064257	Soil	0.5	51.5	3.1	57	<0.1	44.8	14.3	329	3.20	6.4	0.3	1.5	1.0	21	0.1	0.2	0.1	94	0.31	0.111
1064258	Soil	0.8	47.4	4.9	71	<0.1	45.7	17.7	437	3.45	9.6	0.4	1.1	0.7	25	<0.1	0.2	0.2	102	0.24	0.054
1064259	Soil	0.9	62.7	4.7	61	<0.1	48.5	17.9	369	3.55	8.9	0.4	1.3	1.1	25	<0.1	0.2	0.2	102	0.29	0.083
1064260	Soil	0.7	62.4	4.0	49	0.1	51.0	16.1	269	3.10	8.0	0.4	1.5	0.8	24	0.1	0.1	0.2	84	0.31	0.112
1064261	Soil	0.6	53.4	3.7	53	<0.1	47.2	14.6	299	3.22	7.7	0.3	3.0	0.9	18	0.1	0.2	0.1	94	0.23	0.080
1064254	Soil	0.9	52.4	5.3	65	<0.1	50.4	16.9	286	3.34	8.2	0.4	0.6	1.0	19	0.2	0.3	0.2	94	0.23	0.055
1064192	Soil	1.0	68.7	5.7	112	0.1	70.3	27.7	560	4.10	37.0	1.1	6.4	4.5	38	0.1	0.5	0.2	85	0.36	0.098
1064193	Soil	1.1	71.8	5.2	103	0.2	64.8	25.4	514	3.86	40.1	1.2	4.6	2.7	31	<0.1	0.3	0.1	88	0.31	0.065
1064194	Soil	0.9	58.9	4.8	94	0.1	55.4	21.2	438	3.38	111.7	1.1	7.9	3.1	26	0.2	0.4	0.2	79	0.27	0.069
1064195	Soil	1.0	50.2	4.3	87	0.1	45.4	17.1	451	3.68	47.5	0.9	4.4	1.8	32	<0.1	0.3	0.2	101	0.45	0.077
1064196	Soil	0.8	82.4	4.8	132	0.2	83.0	30.7	655	4.74	111.0	1.0	9.3	3.0	33	0.2	0.2	0.2	130	0.51	0.092



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064241	Soil	6	73	1.14	313	0.158	1	2.69	0.017	0.60	0.1	0.05	7.6	0.3	0.08	8	1.1	<0.2
1064242	Soil	6	82	1.31	317	0.182	<1	3.04	0.017	0.72	0.2	0.01	8.2	0.3	0.06	9	0.8	<0.2
1064240	Soil	6	71	1.00	292	0.146	1	2.47	0.015	0.51	0.2	0.07	6.5	0.3	0.08	8	1.1	0.2
1064239	Soil	6	82	1.19	344	0.180	1	2.88	0.019	0.70	0.2	0.03	7.7	0.3	0.08	9	<0.5	<0.2
1064238	Soil	7	75	1.09	286	0.163	<1	2.68	0.016	0.59	0.2	0.04	7.2	0.3	0.08	9	0.6	<0.2
1064237	Soil	6	80	1.16	259	0.174	<1	2.45	0.017	0.66	0.2	0.02	7.4	0.3	0.06	8	0.7	<0.2
1064236	Soil	7	119	1.63	293	0.203	<1	3.47	0.017	0.61	0.1	0.04	9.1	0.3	<0.05	11	<0.5	<0.2
1064235	Soil	7	66	0.95	214	0.140	<1	2.14	0.015	0.47	0.3	0.01	5.7	0.2	<0.05	7	<0.5	<0.2
1064234	Soil	7	89	1.22	307	0.160	<1	2.63	0.020	0.60	0.3	0.02	7.5	0.3	0.08	9	0.5	0.2
1064233	Soil	6	112	1.38	388	0.174	<1	2.59	0.018	0.59	1.4	0.04	8.7	0.3	0.08	9	<0.5	<0.2
1064231	Soil	6	104	1.32	331	0.172	<1	2.36	0.018	0.66	0.1	<0.01	8.4	0.3	<0.05	9	<0.5	<0.2
1064232	Soil	6	96	1.29	312	0.167	<1	2.27	0.019	0.66	0.1	<0.01	7.8	0.2	<0.05	9	0.9	<0.2
1064230	Soil	7	118	1.59	386	0.184	<1	3.39	0.023	0.79	0.1	0.02	9.6	0.3	<0.05	10	<0.5	<0.2
1064229	Soil	7	103	1.42	344	0.174	<1	2.97	0.021	0.84	0.1	0.02	8.2	0.3	0.06	9	1.0	<0.2
1064228	Soil	6	82	1.19	296	0.171	<1	2.43	0.023	0.66	0.2	<0.01	7.1	0.3	0.10	8	0.8	0.2
1064252	Soil	6	75	1.20	292	0.171	1	2.63	0.019	0.70	0.5	0.02	7.7	0.3	0.07	8	0.8	<0.2
1064253	Soil	5	72	1.10	258	0.162	<1	2.48	0.018	0.69	0.2	0.02	6.8	0.2	0.08	8	0.5	<0.2
1064255	Soil	6	86	1.29	283	0.178	<1	2.73	0.019	0.76	0.1	0.02	8.1	0.3	0.07	9	<0.5	<0.2
1064256	Soil	6	76	1.18	245	0.163	<1	2.59	0.021	0.62	0.2	0.04	7.3	0.3	0.08	9	0.9	<0.2
1064257	Soil	4	64	1.00	288	0.154	2	2.01	0.017	0.74	0.2	<0.01	6.3	0.2	0.08	7	0.6	<0.2
1064258	Soil	4	69	1.03	244	0.135	2	2.08	0.015	0.64	0.2	0.03	5.7	0.2	0.09	8	<0.5	<0.2
1064259	Soil	4	69	1.04	301	0.150	1	2.27	0.014	0.66	0.2	0.01	6.6	0.3	0.05	8	<0.5	<0.2
1064260	Soil	4	56	0.89	207	0.115	2	1.86	0.012	0.61	0.2	<0.01	5.4	0.2	0.06	6	<0.5	<0.2
1064261	Soil	3	64	0.97	215	0.147	1	2.00	0.012	0.64	0.2	<0.01	6.3	0.2	<0.05	7	<0.5	<0.2
1064254	Soil	4	66	1.00	190	0.138	3	2.18	0.011	0.40	0.8	0.01	5.7	0.2	0.06	8	<0.5	<0.2
1064192	Soil	16	73	1.29	199	0.115	<1	2.28	0.019	0.51	0.2	<0.01	5.4	0.3	0.09	8	<0.5	<0.2
1064193	Soil	15	84	1.17	227	0.115	1	2.14	0.019	0.38	0.1	0.02	5.2	0.3	0.10	7	0.8	<0.2
1064194	Soil	12	67	1.14	214	0.103	1	2.07	0.019	0.44	0.1	0.02	5.2	0.3	0.06	7	<0.5	<0.2
1064195	Soil	10	77	1.11	262	0.125	2	1.96	0.019	0.50	0.2	0.04	5.1	0.3	0.10	8	<0.5	<0.2
1064196	Soil	12	118	1.88	402	0.190	2	3.02	0.022	0.75	0.1	<0.01	8.2	0.4	<0.05	11	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064197	Soil				1.1	80.1	7.3	141	0.2	81.1	36.0	671	5.06	276.8	1.3	10.1	3.6	49	0.2	0.6	0.2	110	0.48	0.093
1064198	Soil				1.0	61.0	6.2	101	0.2	53.4	24.4	526	3.84	244.3	1.3	13.1	2.1	39	0.1	0.4	0.2	98	0.31	0.072
1064199	Soil				1.1	59.4	4.5	106	0.1	54.6	23.9	452	3.82	83.1	1.0	5.4	3.2	38	0.1	0.2	0.2	101	0.33	0.087
1064201	Soil				0.8	51.8	3.2	101	<0.1	49.1	19.8	403	3.60	30.8	0.8	4.0	3.8	34	0.1	0.2	0.1	87	0.34	0.117
1064200	Soil				0.8	54.9	3.5	103	<0.1	50.5	21.4	421	3.66	35.5	0.8	10.8	3.7	35	0.1	0.2	0.1	89	0.35	0.112
1064202	Soil				1.2	74.2	5.0	107	0.2	58.9	28.6	494	3.98	47.5	1.2	4.2	2.9	37	<0.1	0.3	0.2	103	0.34	0.091
1064203	Soil				1.1	64.0	4.6	94	0.2	50.9	23.1	433	3.44	42.9	1.0	3.1	2.0	26	<0.1	0.3	0.1	85	0.21	0.062
1064215	Soil				1.1	61.1	5.0	117	0.1	71.1	25.0	428	3.96	45.9	0.8	2.3	3.7	39	<0.1	0.6	0.2	100	0.40	0.083
1064214	Soil				1.0	81.6	5.0	122	0.1	64.7	26.9	506	4.33	83.0	1.0	2.8	3.6	35	0.2	0.7	0.2	109	0.32	0.080
1064213	Soil				0.9	46.6	3.2	82	0.2	32.1	13.9	342	3.25	12.7	0.8	1.5	2.9	23	<0.1	0.1	0.2	81	0.16	0.061
1064212	Soil				1.4	88.2	5.3	119	0.2	46.7	21.2	456	4.48	27.1	1.4	2.7	4.8	38	<0.1	0.2	0.3	110	0.27	0.096
1064211	Soil				1.3	98.0	4.1	112	0.2	56.0	23.2	439	4.44	25.7	1.2	2.3	4.6	38	<0.1	0.2	0.2	104	0.27	0.090
1064210	Soil				1.4	102.8	5.0	134	0.2	71.7	32.7	531	4.86	53.2	1.2	8.6	4.2	48	0.1	0.3	0.2	116	0.32	0.091
1064209	Soil				1.0	69.5	7.8	123	0.2	69.0	26.7	664	4.56	30.3	1.5	2.7	4.2	69	0.1	0.3	0.2	114	0.44	0.076
1064208	Soil				1.1	71.2	7.0	118	0.1	65.4	25.1	515	4.56	151.4	1.5	9.6	2.9	35	<0.1	0.5	0.2	117	0.32	0.061
1064204	Soil				1.0	74.2	4.5	118	0.2	71.0	28.6	492	4.43	73.0	1.0	2.3	3.0	29	<0.1	0.2	0.1	121	0.25	0.047
1064205	Soil				0.5	49.5	3.4	104	<0.1	52.7	18.9	443	3.81	132.9	0.6	6.0	3.1	35	<0.1	0.2	0.1	93	0.38	0.121
1064207	Soil				0.7	62.0	7.6	118	0.1	62.6	23.0	552	3.90	146.3	1.1	10.9	3.5	40	0.2	0.5	0.2	98	0.49	0.101
1064206	Soil				0.6	63.8	5.2	115	0.1	71.1	24.7	434	3.67	39.9	0.9	1.3	2.8	62	0.2	0.2	0.1	98	0.48	0.083
1064217	Soil				1.3	61.5	6.2	105	0.2	51.2	22.5	513	3.83	23.1	1.0	2.4	2.0	35	0.2	0.4	0.2	96	0.33	0.078
1064216	Soil				1.1	96.0	7.3	145	0.3	104.2	35.6	626	4.62	28.3	1.5	3.6	3.6	41	0.2	1.1	0.2	115	0.35	0.072
1064218	Soil				0.5	22.5	2.4	63	<0.1	20.8	10.7	273	2.36	6.5	0.5	1.8	1.1	21	0.2	0.2	<0.1	68	0.25	0.057
1064219	Soil				1.0	56.1	5.7	103	0.2	50.8	21.2	499	4.08	21.2	1.2	2.3	3.1	36	0.2	0.4	0.2	100	0.29	0.073
1064220	Soil				0.9	40.2	3.6	70	0.2	36.4	15.0	336	2.66	11.3	1.0	2.0	1.9	25	<0.1	0.3	0.1	66	0.23	0.055
1064221	Soil				0.7	40.6	3.6	81	0.1	38.9	14.7	375	3.26	11.1	0.8	1.9	3.0	29	0.2	0.3	0.1	76	0.23	0.077
1064222	Soil				1.5	60.1	5.8	117	0.3	58.3	19.4	500	4.63	24.0	1.4	2.4	3.3	48	<0.1	0.3	0.2	118	0.32	0.077
1064223	Soil				1.0	46.9	4.7	87	0.2	41.8	16.8	401	3.43	27.4	1.1	8.5	2.2	34	0.1	0.7	0.2	81	0.27	0.062
1064224	Soil				0.8	53.1	5.8	99	0.2	48.0	21.0	498	3.70	75.9	1.2	9.9	2.7	33	<0.1	1.9	0.2	83	0.28	0.065
1064225	Soil				1.2	67.7	7.3	131	0.1	66.5	27.1	676	5.13	97.8	1.3	13.3	4.8	40	0.2	1.9	0.2	122	0.38	0.105
1077904	Soil				1.1	46.1	7.2	90	0.2	46.5	13.5	416	4.61	71.8	0.5	49.8	1.0	23	<0.1	0.3	0.3	119	0.14	0.052



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064197	Soil	18	89	1.74	353	0.185	2	2.87	0.036	0.63	0.1	0.02	6.3	0.3	0.11	10	<0.5	<0.2
1064198	Soil	15	74	1.24	263	0.132	1	2.43	0.027	0.38	0.1	0.03	5.8	0.3	0.09	8	0.5	<0.2
1064199	Soil	13	75	1.27	253	0.146	1	2.27	0.023	0.57	0.1	0.02	6.0	0.3	0.09	8	<0.5	<0.2
1064201	Soil	12	66	1.22	236	0.144	1	2.19	0.025	0.57	0.1	<0.01	5.4	0.3	0.06	8	<0.5	<0.2
1064200	Soil	13	66	1.21	244	0.145	<1	2.20	0.024	0.56	0.1	<0.01	5.3	0.3	0.08	8	<0.5	<0.2
1064202	Soil	14	75	1.29	249	0.135	2	2.50	0.026	0.48	0.1	0.02	5.4	0.2	0.13	8	<0.5	<0.2
1064203	Soil	10	61	1.01	167	0.100	1	2.03	0.015	0.30	0.1	0.02	4.7	0.2	0.08	7	<0.5	<0.2
1064215	Soil	11	74	1.36	222	0.133	<1	2.47	0.021	0.64	0.5	<0.01	6.8	0.4	0.11	9	<0.5	<0.2
1064214	Soil	13	84	1.43	269	0.149	2	2.72	0.021	0.55	0.2	<0.01	7.1	0.3	0.12	9	0.5	<0.2
1064213	Soil	10	57	1.03	197	0.107	1	1.98	0.020	0.44	0.1	0.01	5.1	0.2	0.13	7	<0.5	<0.2
1064212	Soil	17	79	1.40	300	0.145	1	2.66	0.028	0.67	0.1	0.03	7.0	0.4	0.19	9	0.5	<0.2
1064211	Soil	17	74	1.35	293	0.146	1	2.65	0.025	0.72	0.3	0.01	6.6	0.3	0.18	8	<0.5	<0.2
1064210	Soil	16	92	1.57	353	0.172	2	2.88	0.026	0.75	0.2	<0.01	7.4	0.4	0.11	10	0.9	<0.2
1064209	Soil	18	88	1.49	337	0.140	1	2.99	0.020	0.59	0.1	0.01	7.3	0.3	0.09	10	<0.5	<0.2
1064208	Soil	13	96	1.60	292	0.127	1	3.06	0.015	0.46	0.2	0.02	7.5	0.3	0.05	10	<0.5	<0.2
1064204	Soil	11	101	1.50	294	0.166	1	2.77	0.016	0.51	0.2	0.02	7.3	0.3	<0.05	10	<0.5	<0.2
1064205	Soil	9	79	1.39	216	0.144	<1	2.23	0.016	0.63	0.2	<0.01	5.0	0.3	<0.05	8	<0.5	<0.2
1064207	Soil	12	83	1.47	263	0.135	1	2.42	0.014	0.41	0.1	<0.01	6.8	0.3	<0.05	9	0.6	<0.2
1064206	Soil	11	82	1.41	350	0.131	1	2.68	0.019	0.45	0.1	<0.01	6.1	0.3	<0.05	9	<0.5	<0.2
1064217	Soil	11	68	1.03	194	0.103	2	2.16	0.016	0.41	0.1	0.05	4.8	0.3	0.12	8	<0.5	<0.2
1064216	Soil	17	88	1.42	292	0.133	<1	2.86	0.020	0.59	<0.1	0.04	7.5	0.4	0.10	10	<0.5	<0.2
1064218	Soil	6	45	0.72	179	0.086	2	1.18	0.015	0.26	<0.1	0.03	2.7	0.1	0.05	5	<0.5	<0.2
1064219	Soil	14	71	1.24	224	0.113	2	2.53	0.017	0.45	<0.1	0.03	6.1	0.3	0.11	9	<0.5	<0.2
1064220	Soil	11	47	0.78	138	0.073	1	1.58	0.011	0.28	<0.1	0.02	3.8	0.2	0.09	6	<0.5	<0.2
1064221	Soil	11	52	0.97	144	0.093	<1	1.88	0.016	0.39	<0.1	0.01	4.6	0.2	0.06	6	<0.5	<0.2
1064222	Soil	15	85	1.40	247	0.129	3	2.89	0.022	0.59	<0.1	0.04	6.5	0.3	0.13	10	<0.5	<0.2
1064223	Soil	12	58	0.97	187	0.091	2	1.99	0.016	0.37	<0.1	0.03	4.6	0.2	0.10	7	<0.5	<0.2
1064224	Soil	15	61	1.02	187	0.092	2	2.17	0.015	0.42	0.1	0.02	5.1	0.2	0.08	8	<0.5	<0.2
1064225	Soil	18	93	1.61	294	0.146	2	2.97	0.018	0.70	0.2	0.02	8.4	0.3	0.08	11	<0.5	<0.2
1077904	Soil	4	85	1.22	257	0.239	1	3.48	0.017	0.91	0.2	0.03	8.0	0.3	<0.05	12	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1077903	Soil	1.0	42.2	7.6	92	0.2	46.5	14.0	427	4.28	63.1	0.5	5.0	1.0	25	0.1	0.4	0.2	109	0.16	0.053
1077905	Soil	0.8	38.6	7.6	91	0.3	40.1	14.4	447	4.54	1342	0.5	152.2	1.4	30	0.1	0.6	0.4	113	0.26	0.070
1077907	Soil	1.5	32.9	8.4	81	0.1	33.1	13.1	438	3.84	31.7	0.4	3.1	1.2	29	0.2	0.6	0.2	95	0.25	0.063
1077897	Soil	1.2	49.6	7.0	97	0.2	47.9	17.5	627	4.44	39.9	0.6	7.7	1.5	38	0.2	0.4	0.2	122	0.32	0.085
1077900	Soil	0.9	42.7	6.4	86	0.2	43.7	13.7	413	4.15	38.3	0.5	3.0	1.2	24	0.2	0.3	0.2	117	0.19	0.056
1077898	Soil	0.9	41.5	5.9	76	0.5	40.2	16.5	421	3.57	38.0	0.7	8.6	1.5	28	<0.1	0.3	0.2	99	0.22	0.068
1077899	Soil	1.0	41.8	6.3	83	0.2	43.2	16.5	545	4.04	42.5	0.5	4.0	1.2	32	<0.1	0.3	0.2	117	0.22	0.047
1077906	Soil	1.6	30.5	8.8	87	0.2	34.3	12.1	339	4.51	41.6	0.5	1.5	1.6	24	0.2	0.6	0.2	111	0.23	0.050
1077901	Soil	1.1	65.7	7.3	113	0.5	57.8	19.9	690	5.14	54.2	0.6	4.7	1.2	44	<0.1	0.3	0.2	138	0.24	0.066
1077908	Soil	1.0	36.3	7.1	119	<0.1	34.9	12.7	474	3.91	45.0	0.4	3.7	1.4	28	0.3	0.4	0.2	104	0.26	0.058
1077902	Soil	1.1	52.1	7.4	96	0.6	51.5	18.3	635	4.39	143.6	0.7	6.0	1.0	22	0.2	0.4	0.2	116	0.17	0.069
1077928	Soil	1.7	26.8	5.0	65	0.2	21.2	14.1	224	2.87	19.8	0.5	22.9	0.8	31	0.1	0.3	0.1	76	0.33	0.052
1077924	Soil	0.6	33.2	3.0	94	0.2	37.8	14.9	441	3.22	45.2	0.6	6.4	1.4	33	0.1	0.2	0.1	97	0.40	0.106
1077925	Soil	0.8	43.4	4.5	77	<0.1	44.4	18.5	422	3.76	34.9	0.5	5.0	1.7	42	<0.1	0.2	0.1	107	0.39	0.087
1077927	Soil	1.8	35.4	5.6	69	<0.1	35.4	14.3	268	3.61	38.2	0.6	2.7	1.5	23	<0.1	0.5	0.2	94	0.26	0.033
1077926	Soil	0.7	45.6	3.9	73	0.1	41.5	17.9	425	3.53	34.7	0.6	12.2	1.7	59	<0.1	0.2	0.1	99	0.52	0.119
1077929	Soil	1.4	27.4	5.5	66	<0.1	32.2	13.2	281	3.51	37.6	0.5	4.2	1.4	20	<0.1	0.4	0.2	101	0.23	0.028
1077930	Soil	1.2	41.9	5.2	140	<0.1	27.3	24.8	562	5.43	53.7	0.8	3.1	1.0	46	<0.1	0.7	0.1	130	1.30	0.146
1077922	Soil	0.8	92.7	4.3	90	0.2	73.6	20.3	515	4.36	75.7	0.6	11.6	1.5	33	<0.1	0.2	0.3	129	0.47	0.112
1077920	Soil	1.3	60.4	5.6	111	0.1	61.4	19.7	712	4.26	217.7	0.5	93.6	1.3	41	<0.1	0.3	0.3	121	0.40	0.069
1077923	Soil	0.9	93.0	4.6	87	0.2	72.7	20.9	527	4.42	75.1	0.6	13.2	1.6	33	<0.1	0.2	0.2	128	0.46	0.113
1077921	Soil	1.6	38.9	6.2	88	0.2	41.2	17.2	353	4.10	49.2	0.5	3.9	1.7	26	0.1	0.4	0.2	97	0.28	0.045
1077919	Soil	0.8	43.3	7.2	109	<0.1	52.1	20.7	634	3.97	94.2	0.5	8.4	1.3	51	0.1	0.3	0.2	102	0.48	0.068
1077917	Soil	0.8	27.8	4.7	102	0.2	35.3	13.1	329	3.83	102.7	0.6	8.3	1.4	44	0.2	0.2	0.2	102	0.48	0.105
1077918	Soil	0.9	56.7	5.6	111	0.2	53.7	21.3	671	4.28	130.7	0.5	13.6	1.6	42	0.2	0.4	0.2	113	0.36	0.064
1077916	Soil	0.9	37.0	5.8	84	<0.1	40.6	17.4	425	3.89	53.5	0.4	2.7	1.5	47	<0.1	0.3	0.1	95	0.61	0.174
1077915	Soil	0.9	45.4	4.1	70	0.2	30.7	12.5	291	2.95	45.9	0.7	5.9	0.9	38	<0.1	0.4	0.1	82	0.43	0.096
1077910	Soil	1.1	31.0	6.7	80	0.5	45.1	13.9	351	4.17	57.8	0.5	3.9	1.8	22	0.1	0.3	0.2	109	0.19	0.029
1077909	Soil	1.7	35.4	7.9	106	0.1	40.8	15.5	422	4.25	44.7	0.5	2.9	1.6	34	0.3	0.5	0.2	107	0.29	0.049
1077912	Soil	0.9	44.3	5.3	79	0.2	45.9	17.6	470	3.73	80.1	0.5	6.0	1.5	21	0.1	0.3	0.2	101	0.21	0.037



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SAP

Report Date:

August 25, 2011

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CERTIFICATE OF ANALYSIS

WHI11000961.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077903	Soil	5	80	1.07	154	0.193	3	2.93	0.012	0.69	0.2	0.05	6.6	0.3	<0.05	10	<0.5	<0.2
1077905	Soil	5	82	1.40	201	0.198	2	3.05	0.021	0.87	0.2	0.03	6.9	0.3	<0.05	10	<0.5	<0.2
1077907	Soil	5	55	0.82	123	0.157	1	1.99	0.010	0.38	0.2	0.02	4.4	0.2	<0.05	8	<0.5	<0.2
1077897	Soil	6	78	1.08	297	0.207	1	2.99	0.015	0.72	0.1	0.04	7.5	0.3	<0.05	10	<0.5	<0.2
1077900	Soil	5	75	1.02	193	0.205	4	2.82	0.012	0.71	0.2	0.04	7.0	0.2	<0.05	10	<0.5	<0.2
1077898	Soil	5	69	0.95	223	0.179	<1	2.71	0.013	0.60	0.2	0.05	6.9	0.2	<0.05	8	<0.5	<0.2
1077899	Soil	5	78	1.10	238	0.189	2	2.66	0.013	0.74	0.2	0.03	7.0	0.3	<0.05	9	<0.5	<0.2
1077906	Soil	5	65	0.90	119	0.214	2	2.48	0.011	0.45	0.2	0.02	5.6	0.2	<0.05	10	<0.5	<0.2
1077901	Soil	5	97	1.12	326	0.254	2	3.64	0.015	1.18	0.3	0.03	9.2	0.4	<0.05	11	<0.5	<0.2
1077908	Soil	5	63	0.89	172	0.205	1	2.15	0.012	0.54	0.3	0.02	5.8	0.2	<0.05	10	<0.5	<0.2
1077902	Soil	6	82	1.10	185	0.187	1	3.22	0.013	0.64	0.2	0.06	6.6	0.3	<0.05	10	<0.5	<0.2
1077928	Soil	6	44	0.79	203	0.141	2	2.05	0.018	0.15	0.1	0.03	2.7	0.1	<0.05	7	<0.5	<0.2
1077924	Soil	5	68	1.00	303	0.208	<1	2.31	0.024	0.66	0.2	0.02	6.2	0.2	<0.05	7	<0.5	<0.2
1077925	Soil	6	70	1.08	436	0.235	2	2.64	0.020	0.60	0.2	0.01	6.3	0.3	<0.05	9	<0.5	<0.2
1077927	Soil	7	66	0.91	86	0.168	<1	2.63	0.016	0.20	0.2	0.02	4.7	0.2	<0.05	8	<0.5	<0.2
1077926	Soil	7	68	1.07	394	0.217	2	2.44	0.026	0.58	0.2	0.01	5.8	0.3	<0.05	8	<0.5	<0.2
1077929	Soil	5	60	0.96	105	0.178	1	2.49	0.019	0.37	0.3	0.02	5.2	0.2	<0.05	8	<0.5	<0.2
1077930	Soil	7	56	2.03	223	0.201	2	3.97	0.016	0.31	0.5	0.02	8.5	0.1	<0.05	15	<0.5	<0.2
1077922	Soil	5	86	1.29	374	0.258	1	3.04	0.031	1.00	0.3	0.02	9.1	0.4	<0.05	10	<0.5	<0.2
1077920	Soil	6	80	1.19	324	0.226	2	2.90	0.023	0.71	0.3	0.03	7.6	0.2	<0.05	10	<0.5	<0.2
1077923	Soil	5	88	1.27	366	0.263	1	2.98	0.025	0.98	0.3	0.02	9.0	0.3	<0.05	10	<0.5	<0.2
1077921	Soil	6	61	0.91	151	0.175	1	2.54	0.014	0.31	0.2	0.03	5.3	0.2	<0.05	8	<0.5	<0.2
1077919	Soil	6	88	1.35	289	0.216	1	2.88	0.037	0.57	0.1	0.02	6.2	0.2	<0.05	9	<0.5	<0.2
1077917	Soil	6	79	1.21	309	0.226	1	2.67	0.029	0.64	0.2	0.04	7.0	0.2	<0.05	9	<0.5	<0.2
1077918	Soil	5	84	1.23	343	0.240	2	2.95	0.026	0.71	0.3	0.02	7.5	0.3	<0.05	9	<0.5	<0.2
1077916	Soil	12	65	1.40	243	0.226	<1	2.56	0.032	0.38	0.1	0.02	4.2	0.2	<0.05	9	<0.5	<0.2
1077915	Soil	8	49	0.82	196	0.164	2	1.86	0.024	0.28	0.1	0.04	4.6	0.1	<0.05	7	<0.5	<0.2
1077910	Soil	5	72	1.15	133	0.206	2	2.75	0.012	0.53	0.3	0.03	6.1	0.2	<0.05	10	<0.5	<0.2
1077909	Soil	6	65	1.07	211	0.184	1	2.31	0.014	0.52	0.2	0.02	5.3	0.2	0.07	9	<0.5	<0.2
1077912	Soil	5	65	0.92	201	0.201	1	2.72	0.019	0.60	0.2	0.02	6.2	0.3	<0.05	8	<0.5	<0.2



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Project: SAP
Report Date: August 25, 2011

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CERTIFICATE OF ANALYSIS

WHI11000961.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
1077913	Soil	1.0	53.3	5.9	82	0.2	48.2	21.7	515	3.95	166.3	0.7	7.9	1.4	25	<0.1	0.3	0.2	103	0.26	0.049
1077911	Soil	1.2	35.7	6.9	82	0.3	31.2	11.3	341	3.71	38.7	0.6	131.8	0.7	28	0.3	0.4	0.2	97	0.28	0.076
1077914	Soil	0.8	31.7	4.9	89	0.1	27.0	17.9	499	3.56	47.5	0.5	4.8	1.2	43	0.2	0.2	0.1	83	0.44	0.069
1032877	Soil	0.9	34.6	5.3	35	0.2	28.1	10.3	318	3.14	5.7	0.6	7.1	0.5	18	0.1	0.2	0.2	82	0.20	0.084
1032876	Soil	1.4	65.2	9.3	68	0.2	58.3	22.0	569	4.72	16.7	0.8	2.5	1.3	36	<0.1	0.3	0.3	123	0.29	0.071
1032874	Soil	1.0	77.7	7.0	62	0.2	67.4	22.3	503	4.86	15.1	0.7	3.3	1.7	49	0.1	0.3	0.2	126	0.41	0.091
1032875	Soil	1.3	63.5	7.9	63	0.2	57.1	21.1	531	4.67	13.8	0.7	3.9	1.5	34	0.1	0.3	0.3	127	0.30	0.073
1032873	Soil	1.1	68.6	6.7	57	0.2	60.1	19.8	406	4.46	12.2	0.6	2.5	1.9	37	0.2	0.2	0.2	125	0.32	0.084
1032871	Soil	1.0	56.5	5.0	61	0.2	43.9	15.3	313	3.59	10.9	0.7	1.8	1.1	39	0.3	0.2	0.2	105	0.43	0.104
1032869	Soil	0.9	81.9	6.0	55	0.1	75.6	22.0	438	4.12	25.3	0.6	68.1	1.7	38	<0.1	0.2	0.2	111	0.42	0.124
1032868	Soil	1.2	70.1	7.2	68	0.2	64.1	24.2	595	4.57	24.2	0.7	4.8	1.5	34	0.2	0.2	0.2	128	0.32	0.077
1032870	Soil	1.0	61.4	6.4	65	0.1	65.2	20.8	447	4.89	16.7	0.5	3.5	1.7	37	0.2	0.2	0.2	134	0.32	0.076
1032872	Soil	0.8	51.1	6.1	61	<0.1	53.6	17.8	566	3.80	21.5	0.6	19.4	1.8	35	0.2	0.3	0.2	93	0.39	0.121
1032864	Soil	0.6	55.0	4.1	35	0.1	42.4	14.6	370	3.46	9.0	0.6	38.1	1.8	33	0.2	0.2	0.2	94	0.37	0.109
1032866	Soil	1.0	67.5	8.3	58	0.1	59.6	21.5	537	4.11	21.9	0.6	2.8	1.3	35	0.3	0.3	0.2	108	0.40	0.093



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Project: SAP
Report Date: August 25, 2011

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CERTIFICATE OF ANALYSIS

WHI11000961.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077913	Soil	6	65	0.98	222	0.216	2	3.09	0.022	0.61	0.2	0.04	6.4	0.2	<0.05	9	<0.5	<0.2
1077911	Soil	5	58	0.81	155	0.150	3	2.21	0.013	0.51	0.1	0.04	4.9	0.2	<0.05	10	0.5	<0.2
1077914	Soil	5	53	1.06	226	0.204	<1	2.40	0.052	0.44	0.2	0.02	6.0	0.2	<0.05	9	<0.5	<0.2
1032877	Soil	6	51	0.91	146	0.088	2	2.25	0.010	0.32	<0.1	0.02	4.0	0.3	<0.05	6	0.6	<0.2
1032876	Soil	7	77	1.33	296	0.147	2	3.12	0.015	0.50	0.2	0.01	8.0	0.3	<0.05	10	<0.5	<0.2
1032874	Soil	7	86	1.45	339	0.168	1	3.14	0.019	0.77	0.2	0.02	9.3	0.4	<0.05	9	0.7	<0.2
1032875	Soil	7	83	1.39	284	0.160	<1	3.21	0.015	0.58	0.2	0.02	8.6	0.3	<0.05	10	0.6	<0.2
1032873	Soil	7	81	1.40	293	0.186	1	3.03	0.017	0.70	0.3	0.03	8.7	0.3	<0.05	9	0.5	<0.2
1032871	Soil	6	75	1.14	271	0.116	2	2.31	0.022	0.70	0.1	0.03	6.7	0.3	0.06	8	0.6	<0.2
1032869	Soil	7	87	1.37	247	0.146	<1	2.86	0.017	0.63	0.2	0.01	7.9	0.3	<0.05	8	0.6	<0.2
1032868	Soil	8	83	1.33	273	0.154	<1	2.93	0.016	0.64	0.2	0.02	8.1	0.3	<0.05	9	0.5	<0.2
1032870	Soil	7	108	1.56	311	0.184	<1	3.39	0.018	0.61	0.1	0.02	9.1	0.4	<0.05	10	<0.5	<0.2
1032872	Soil	7	68	1.20	235	0.114	<1	2.45	0.014	0.64	0.3	0.01	7.0	0.2	<0.05	7	<0.5	<0.2
1032864	Soil	7	58	1.11	236	0.140	<1	2.37	0.017	0.64	0.2	0.02	6.7	0.3	<0.05	6	<0.5	<0.2
1032866	Soil	7	66	1.18	236	0.126	<1	2.89	0.015	0.54	0.1	0.02	7.1	0.3	<0.05	8	<0.5	<0.2



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Report Date: August 25, 2011

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QUALITY CONTROL REPORT

WHI11000961.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
1076987	Soil			0.5	30.0	4.8	73	<0.1	31.9	13.0	527	3.16	13.6	0.7	9.4	3.0	31	<0.1	0.3	0.2	69	0.39	0.095
REP 1076987	QC			0.3	29.8	4.7	71	<0.1	32.6	13.0	514	3.14	13.0	0.7	8.7	3.1	30	<0.1	0.2	0.2	67	0.39	0.089
1059140	Soil			0.9	29.0	6.7	76	<0.1	27.4	12.9	581	3.23	87.1	2.2	42.6	2.7	27	0.1	0.4	0.3	66	0.30	0.066
REP 1059140	QC			0.8	31.3	6.6	78	<0.1	29.0	13.7	613	3.38	86.8	2.2	12.2	2.7	28	0.2	0.4	0.3	68	0.31	0.066
1064333	Soil			0.9	61.3	6.7	108	0.1	62.1	28.4	591	4.35	39.5	1.0	4.4	4.2	33	0.2	0.4	0.2	102	0.27	0.057
REP 1064333	QC			1.0	61.7	7.0	109	0.1	63.6	29.4	605	4.48	40.1	1.0	7.2	4.1	34	0.2	0.4	0.2	106	0.28	0.057
1070466	Soil			1.5	77.2	6.1	112	0.2	55.1	23.0	678	4.75	80.4	1.1	4.6	2.4	41	0.1	0.5	0.2	117	0.37	0.088
REP 1070466	QC			1.5	81.0	6.2	119	0.2	57.6	23.5	717	4.91	81.6	1.0	4.2	2.4	40	<0.1	0.6	0.2	121	0.39	0.095
1062249	Soil			1.1	67.3	7.7	78	0.2	60.9	23.7	539	3.98	14.2	0.6	4.4	0.9	26	0.3	0.3	0.3	119	0.25	0.077
REP 1062249	QC			1.1	64.9	7.4	80	0.2	61.5	22.8	519	3.84	14.7	0.6	3.2	0.9	27	0.2	0.3	0.2	120	0.24	0.075
1062232	Soil			0.9	35.3	5.9	58	<0.1	34.8	13.9	352	3.32	7.8	0.5	4.0	1.3	24	0.1	0.3	0.1	91	0.26	0.070
REP 1062232	QC			0.8	36.6	5.9	58	<0.1	35.1	14.2	369	3.34	7.5	0.5	1.4	1.4	24	<0.1	0.4	0.2	92	0.27	0.075
1075745	Soil			1.1	55.9	5.7	84	0.2	57.3	21.3	603	4.22	67.3	0.6	3.6	1.5	56	0.1	0.2	0.2	123	0.38	0.087
REP 1075745	QC			1.0	57.2	5.8	82	0.2	59.0	21.6	595	4.31	66.5	0.7	13.9	1.5	56	<0.1	0.3	0.2	124	0.40	0.091
1064052	Soil			0.8	30.5	6.6	95	<0.1	33.6	15.1	553	3.36	11.1	0.6	0.8	2.5	28	0.3	0.4	0.2	76	0.43	0.097
REP 1064052	QC			1.0	30.4	6.4	92	<0.1	32.9	14.9	552	3.30	10.8	0.6	1.1	2.4	28	0.3	0.3	0.2	76	0.41	0.094
1064060	Soil			1.5	66.0	8.2	88	1.0	47.7	17.9	477	4.14	72.5	2.0	9.5	3.5	34	0.2	0.4	0.3	99	0.38	0.105
REP 1064060	QC			1.6	62.6	7.9	81	0.9	44.7	17.3	460	4.02	71.1	1.9	5.9	3.4	33	0.1	0.3	0.2	99	0.38	0.105
1064071	Soil			0.7	35.5	4.9	72	0.2	35.5	13.1	342	3.38	15.5	0.6	1.5	2.9	26	0.3	0.2	0.2	67	0.38	0.149
REP 1064071	QC			0.5	35.0	5.2	73	0.2	37.6	13.2	348	3.39	15.1	0.6	8.1	3.1	26	0.2	0.2	0.2	68	0.39	0.149
1064238	Soil			1.3	57.2	5.9	57	<0.1	47.4	19.3	429	4.10	13.4	0.6	3.1	1.1	27	0.2	0.2	0.2	124	0.32	0.072
REP 1064238	QC			1.0	55.4	5.9	54	0.1	47.7	18.6	413	3.94	12.9	0.6	2.9	1.1	28	0.1	0.2	0.2	118	0.28	0.070
1064198	Soil			1.0	61.0	6.2	101	0.2	53.4	24.4	526	3.84	244.3	1.3	13.1	2.1	39	0.1	0.4	0.2	98	0.31	0.072
REP 1064198	QC			1.0	66.8	6.3	107	0.3	58.5	26.8	579	4.12	261.8	1.4	10.7	2.2	42	<0.1	0.4	0.2	107	0.33	0.075
1064214	Soil			1.0	81.6	5.0	122	0.1	64.7	26.9	506	4.33	83.0	1.0	2.8	3.6	35	0.2	0.7	0.2	109	0.32	0.080
REP 1064214	QC			1.0	77.1	5.1	115	0.1	65.7	26.9	497	4.31	85.6	1.1	4.3	3.7	35	0.2	0.8	0.2	106	0.33	0.079
1077906	Soil			1.6	30.5	8.8	87	0.2	34.3	12.1	339	4.51	41.6	0.5	1.5	1.6	24	0.2	0.6	0.2	111	0.23	0.050
REP 1077906	QC			1.7	31.9	9.1	90	0.2	36.4	12.4	360	4.74	42.8	0.5	3.1	1.7	25	0.3	0.7	0.2	118	0.25	0.051



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: SAP
Report Date: August 25, 2011

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QUALITY CONTROL REPORT

WHI11000961.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1076987	Soil	9	46	0.87	190	0.142	<1	1.92	0.014	0.32	0.2	0.01	4.3	0.3	<0.05	7	<0.5	<0.2
REP 1076987	QC	9	45	0.88	176	0.144	<1	1.90	0.013	0.31	<0.1	0.01	4.2	0.3	<0.05	6	<0.5	<0.2
1059140	Soil	10	41	0.75	142	0.115	<1	1.93	0.014	0.20	0.2	0.04	4.3	0.3	<0.05	6	<0.5	<0.2
REP 1059140	QC	10	42	0.80	150	0.117	1	2.01	0.015	0.20	0.2	0.01	4.3	0.3	<0.05	7	<0.5	<0.2
1064333	Soil	14	71	1.26	181	0.144	<1	2.65	0.022	0.47	<0.1	0.02	6.7	0.3	<0.05	9	<0.5	<0.2
REP 1064333	QC	14	72	1.24	186	0.151	1	2.67	0.021	0.48	<0.1	0.01	7.0	0.4	<0.05	9	<0.5	<0.2
1070466	Soil	17	94	1.38	298	0.132	2	2.70	0.017	0.52	<0.1	0.03	6.1	0.4	0.10	10	1.0	<0.2
REP 1070466	QC	17	99	1.44	306	0.127	2	2.83	0.019	0.54	<0.1	0.02	6.3	0.3	0.12	10	<0.5	<0.2
1062249	Soil	5	72	0.99	351	0.149	1	2.65	0.015	0.62	0.1	0.03	6.9	0.3	0.05	9	0.5	<0.2
REP 1062249	QC	5	72	1.00	349	0.148	1	2.61	0.014	0.60	0.1	0.03	6.6	0.3	0.05	9	<0.5	<0.2
1062232	Soil	8	54	0.83	114	0.140	<1	1.77	0.015	0.26	0.1	0.02	4.3	0.1	<0.05	7	<0.5	<0.2
REP 1062232	QC	8	53	0.85	115	0.143	<1	1.83	0.016	0.27	0.1	0.01	4.4	0.1	<0.05	7	0.6	<0.2
1075745	Soil	6	86	1.27	341	0.213	<1	2.98	0.024	0.75	0.2	0.02	7.6	0.3	<0.05	10	0.6	<0.2
REP 1075745	QC	6	88	1.29	342	0.212	<1	3.01	0.024	0.75	0.3	0.03	7.6	0.3	<0.05	10	0.5	<0.2
1064052	Soil	9	55	0.98	105	0.111	1	2.01	0.011	0.26	0.1	0.02	3.7	0.2	<0.05	6	0.6	<0.2
REP 1064052	QC	9	55	0.95	103	0.110	2	1.93	0.011	0.24	0.1	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
1064060	Soil	21	62	0.98	127	0.087	1	2.44	0.012	0.26	0.1	0.06	5.2	0.2	<0.05	7	0.7	<0.2
REP 1064060	QC	21	64	0.98	131	0.084	2	2.40	0.012	0.26	<0.1	0.05	5.2	0.2	0.06	7	0.8	<0.2
1064071	Soil	9	48	0.80	83	0.083	2	1.88	0.008	0.23	0.2	0.02	3.3	0.1	<0.05	6	0.5	<0.2
REP 1064071	QC	9	49	0.83	85	0.085	1	1.89	0.010	0.25	<0.1	<0.01	3.6	0.1	<0.05	6	0.8	<0.2
1064238	Soil	7	75	1.09	286	0.163	<1	2.68	0.016	0.59	0.2	0.04	7.2	0.3	0.08	9	0.6	<0.2
REP 1064238	QC	7	73	1.09	273	0.162	2	2.69	0.016	0.59	0.2	0.03	6.8	0.3	0.08	9	0.8	<0.2
1064198	Soil	15	74	1.24	263	0.132	1	2.43	0.027	0.38	0.1	0.03	5.8	0.3	0.09	8	0.5	<0.2
REP 1064198	QC	15	82	1.35	270	0.133	2	2.51	0.021	0.40	0.1	0.06	5.8	0.3	0.10	9	<0.5	<0.2
1064214	Soil	13	84	1.43	269	0.149	2	2.72	0.021	0.55	0.2	<0.01	7.1	0.3	0.12	9	0.5	<0.2
REP 1064214	QC	13	82	1.45	272	0.143	1	2.63	0.023	0.55	<0.1	<0.01	6.8	0.3	0.10	9	<0.5	<0.2
1077906	Soil	5	65	0.90	119	0.214	2	2.48	0.011	0.45	0.2	0.02	5.6	0.2	<0.05	10	<0.5	<0.2
REP 1077906	QC	6	68	0.92	123	0.227	1	2.55	0.011	0.48	0.2	0.02	5.6	0.2	<0.05	10	<0.5	<0.2



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Soil Geochemistry

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Project: SAP
Report Date: August 25, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1077922	Soil	0.8	92.7	4.3	90	0.2	73.6	20.3	515	4.36	75.7	0.6	11.6	1.5	33	<0.1	0.2	0.3	129	0.47
REP 1077922	QC	0.8	93.3	4.4	90	0.2	71.9	21.1	521	4.32	75.9	0.6	10.0	1.5	33	0.1	0.2	0.2	128	0.46
1032869	Soil	0.9	81.9	6.0	55	0.1	75.6	22.0	438	4.12	25.3	0.6	68.1	1.7	38	<0.1	0.2	0.2	111	0.42
REP 1032869	QC	0.9	78.5	5.9	55	0.1	74.4	22.2	442	4.24	26.9	0.6	5.8	1.6	36	0.1	0.2	0.2	111	0.42
Reference Materials																				
STD DS8	Standard	11.4	101.6	118.0	295	1.6	34.7	6.8	557	2.24	23.2	2.7	111.1	6.7	64	2.2	5.1	6.2	36	0.63
STD DS8	Standard	13.6	118.4	131.1	320	1.8	40.1	8.0	626	2.58	25.7	2.9	122.6	7.4	71	2.5	6.2	6.9	43	0.70
STD DS8	Standard	13.6	107.4	126.7	313	1.8	36.7	7.6	622	2.52	26.5	3.0	121.5	7.3	76	2.3	5.6	6.9	42	0.72
STD DS8	Standard	12.8	107.4	130.2	291	1.8	36.1	7.5	580	2.33	23.1	3.0	114.9	7.6	66	2.2	5.8	6.9	43	0.66
STD DS8	Standard	13.0	105.5	125.4	304	1.8	35.2	6.9	601	2.41	25.5	3.1	120.8	7.3	72	2.5	6.0	7.2	39	0.70
STD DS8	Standard	13.6	115.6	134.4	334	1.9	39.6	8.1	651	2.71	27.6	3.3	123.1	8.1	76	2.4	6.4	7.4	45	0.75
STD DS8	Standard	13.1	113.4	122.3	301	1.8	39.6	7.6	609	2.49	23.8	2.7	108.6	6.8	70	2.3	5.1	6.4	43	0.70
STD DS8	Standard	13.7	113.7	124.8	314	2.0	38.6	7.8	617	2.50	25.2	2.8	120.3	7.0	71	2.4	5.8	6.8	44	0.69
STD DS8	Standard	12.9	110.1	117.7	310	1.8	37.0	7.3	621	2.43	24.1	2.8	107.1	7.0	68	2.3	5.5	6.2	40	0.68
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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600 - 666 Burrard St.
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Project: SAP
Report Date: August 25, 2011

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QUALITY CONTROL REPORT

WHI11000961.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077922	Soil	5	86	1.29	374	0.258	1	3.04	0.031	1.00	0.3	0.02	9.1	0.4	<0.05	10	<0.5	<0.2
REP 1077922	QC	5	87	1.26	381	0.260	1	3.05	0.025	1.01	0.3	0.01	9.0	0.3	<0.05	9	<0.5	<0.2
1032869	Soil	7	87	1.37	247	0.146	<1	2.86	0.017	0.63	0.2	0.01	7.9	0.3	<0.05	8	0.6	<0.2
REP 1032869	QC	7	87	1.34	249	0.142	<1	2.68	0.017	0.62	0.2	0.01	7.8	0.3	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	13	101	0.56	257	0.104	3	0.84	0.086	0.37	2.6	0.20	2.1	5.3	0.14	4	4.9	4.5
STD DS8	Standard	16	117	0.64	289	0.124	3	0.97	0.110	0.44	3.3	0.22	2.3	5.8	0.09	5	5.6	5.0
STD DS8	Standard	16	118	0.67	292	0.121	3	0.98	0.104	0.42	2.9	0.21	2.7	5.4	0.16	5	5.1	5.9
STD DS8	Standard	14	114	0.65	276	0.115	3	0.89	0.084	0.41	3.0	0.21	1.9	5.6	0.18	4	4.4	4.5
STD DS8	Standard	16	111	0.60	299	0.120	1	0.92	0.097	0.42	3.1	0.20	2.4	5.4	0.11	5	5.2	4.8
STD DS8	Standard	17	125	0.70	306	0.133	3	0.99	0.091	0.46	3.1	0.21	2.2	6.0	0.16	5	5.8	5.2
STD DS8	Standard	14	122	0.59	280	0.120	3	0.91	0.128	0.45	2.9	0.20	2.9	5.6	0.08	5	4.7	5.3
STD DS8	Standard	15	120	0.66	297	0.125	3	0.96	0.102	0.44	3.0	0.20	1.9	5.5	0.13	5	5.8	4.9
STD DS8	Standard	16	114	0.60	277	0.113	3	0.92	0.090	0.40	2.8	0.18	1.9	5.2	0.16	5	4.9	4.6
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

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Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: August 31, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000962.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 277

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	277	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	277	Dry at 60C			VAN
1DX2	277	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date:

August 31, 2011

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000962.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1032863	Soil	0.9	64.5	4.1	49	0.1	52.6	17.6	403	3.55	9.0	0.4	4.4	0.9	27	0.3	0.2	0.1	109	0.35	0.110
1032879	Soil	1.1	80.7	5.7	54	0.3	64.6	22.9	505	4.39	8.7	0.5	3.3	1.1	29	0.2	0.2	0.2	129	0.35	0.099
1032878	Soil	1.2	48.0	5.4	61	0.2	41.8	15.8	415	3.71	6.3	0.4	1.9	0.7	17	0.7	0.2	0.2	110	0.20	0.073
1032883	Soil	1.3	74.7	5.1	43	0.2	62.2	21.0	401	4.38	7.8	0.4	4.0	1.1	23	<0.1	0.2	0.2	131	0.30	0.095
1032885	Soil	0.7	54.8	3.1	34	0.1	45.7	14.7	309	3.35	5.8	0.3	1.3	1.1	17	0.1	0.1	0.1	98	0.29	0.113
1032880	Soil	1.3	69.5	5.4	44	0.2	55.7	20.4	494	4.12	7.4	0.4	2.5	1.0	23	0.1	0.2	0.2	124	0.30	0.090
1032867	Soil	0.8	69.2	4.0	43	<0.1	56.3	18.4	400	3.56	15.7	0.4	5.5	1.2	25	0.1	0.1	0.1	100	0.40	0.124
1032884	Soil	0.7	54.2	3.1	35	0.1	45.6	14.8	315	3.29	5.8	0.3	2.8	1.3	18	<0.1	0.1	0.1	98	0.30	0.114
1032882	Soil	1.0	79.3	4.5	45	0.2	63.2	19.8	395	4.33	5.8	0.4	3.4	0.9	22	<0.1	0.1	0.2	137	0.26	0.072
1032865	Soil	1.1	76.9	7.7	43	<0.1	66.4	23.5	493	4.45	28.8	0.4	4.0	1.1	30	0.6	0.2	0.2	121	0.34	0.089
1032881	Soil	0.5	47.9	2.7	27	<0.1	42.6	13.7	282	3.23	4.7	0.3	2.1	1.0	17	<0.1	0.1	0.1	99	0.31	0.116
1032862	Soil	0.9	74.4	4.7	43	0.1	63.0	20.5	435	4.08	11.4	0.4	1.4	1.2	25	0.1	0.1	0.1	118	0.30	0.083
1032859	Soil	0.7	86.0	4.2	41	0.1	68.8	21.1	445	3.76	18.2	0.4	2.5	1.2	24	0.2	0.1	0.1	107	0.36	0.116
1032861	Soil	0.9	78.9	4.4	44	0.2	64.9	20.3	421	3.98	12.2	0.4	3.8	1.2	24	0.1	0.2	0.1	116	0.27	0.082
1032860	Soil	1.3	131.8	6.9	73	0.1	106.9	36.1	637	5.19	24.3	0.6	4.7	1.3	39	<0.1	0.2	0.2	147	0.42	0.086
1032858	Soil	0.9	53.9	4.7	44	0.2	44.6	12.7	328	3.24	11.9	0.4	2.1	1.1	31	0.3	0.2	0.1	91	0.29	0.058
1032855	Soil	1.4	93.6	6.8	64	0.2	81.9	29.6	675	4.57	21.7	0.5	5.3	1.0	45	0.4	0.3	0.2	133	0.35	0.067
1032853	Soil	0.7	43.7	4.1	33	0.1	42.7	14.2	361	3.38	8.9	0.3	4.5	0.8	18	<0.1	0.1	0.1	104	0.22	0.059
1032857	Soil	1.5	76.8	5.8	61	<0.1	61.5	20.3	422	4.00	14.0	0.4	1.8	0.6	28	0.3	0.2	0.2	113	0.32	0.081
1032854	Soil	0.9	50.6	4.0	34	0.1	43.1	11.7	242	3.04	11.2	0.3	1.9	0.8	21	0.2	0.2	0.1	89	0.22	0.059
1032852	Soil	1.2	73.0	5.1	44	0.2	66.4	20.0	429	3.93	14.9	0.4	8.5	0.8	32	0.1	0.1	0.1	118	0.31	0.064
1032851	Soil	1.2	97.0	5.7	61	0.2	83.2	29.0	592	4.70	26.1	0.5	3.5	0.9	62	0.1	0.2	0.2	133	0.37	0.100
1032856	Soil	0.9	63.2	4.1	42	0.2	53.2	17.4	387	3.75	8.9	0.3	2.6	1.0	21	0.1	0.2	0.1	111	0.33	0.097
1065154	Soil	1.4	97.9	5.3	95	0.1	72.1	28.6	574	4.41	46.8	0.6	25.6	1.5	28	0.1	0.3	0.2	113	0.24	0.103
1065156	Soil	1.3	81.1	5.4	70	0.1	73.9	28.0	538	4.02	35.5	0.5	3.7	1.3	25	0.2	0.3	0.2	100	0.30	0.102
1065151	Soil	0.7	68.0	4.1	50	0.1	88.5	27.0	636	4.02	16.3	0.4	3.3	1.2	20	0.2	0.2	0.1	97	0.32	0.128
1065157	Soil	1.2	67.5	5.3	76	0.1	55.4	22.0	484	3.98	21.6	0.6	4.2	1.3	22	0.1	0.3	0.2	105	0.25	0.085
1065158	Soil	1.4	68.4	6.8	64	0.2	54.7	22.2	536	3.58	17.0	0.8	4.9	0.9	28	0.2	0.3	0.2	92	0.32	0.126
1065160	Soil	0.9	53.8	5.6	70	0.1	43.7	16.9	405	3.54	16.0	0.7	3.9	1.7	23	0.2	0.3	0.1	94	0.31	0.104
1065152	Soil	1.0	101.6	5.1	125	0.1	115.9	32.9	604	4.97	61.4	0.7	5.0	2.4	51	0.2	0.3	0.2	130	0.33	0.129



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1032863	Soil	5	67	1.20	232	0.131	1	2.43	0.014	0.60	0.2	0.03	6.5	0.3	0.07	7	<0.5	<0.2
1032879	Soil	6	83	1.36	309	0.161	<1	2.96	0.014	0.76	0.2	0.03	8.0	0.4	0.08	8	<0.5	<0.2
1032878	Soil	5	68	1.13	178	0.140	2	2.55	0.011	0.42	0.1	0.03	6.3	0.2	0.07	7	<0.5	<0.2
1032883	Soil	5	82	1.30	292	0.167	<1	2.83	0.016	0.70	0.1	0.02	7.8	0.3	0.06	8	<0.5	<0.2
1032885	Soil	5	61	1.11	239	0.137	<1	2.22	0.013	0.67	0.1	<0.01	6.5	0.3	<0.05	6	<0.5	<0.2
1032880	Soil	5	80	1.24	235	0.156	<1	2.67	0.015	0.60	<0.1	0.04	7.1	0.3	0.08	7	<0.5	<0.2
1032867	Soil	6	61	1.06	219	0.120	<1	2.13	0.015	0.60	0.3	0.02	6.5	0.3	0.05	6	<0.5	<0.2
1032884	Soil	5	61	1.06	234	0.138	<1	2.21	0.013	0.66	0.1	<0.01	6.4	0.3	<0.05	6	<0.5	<0.2
1032882	Soil	6	86	1.35	300	0.169	<1	2.90	0.016	0.65	0.1	0.01	8.8	0.3	0.06	8	<0.5	<0.2
1032865	Soil	5	74	1.24	240	0.131	<1	3.09	0.011	0.59	0.1	0.02	7.4	0.3	<0.05	7	<0.5	<0.2
1032881	Soil	4	61	1.07	223	0.137	<1	2.18	0.013	0.72	0.1	<0.01	6.1	0.3	<0.05	5	<0.5	<0.2
1032862	Soil	6	74	1.19	264	0.144	<1	2.78	0.015	0.55	0.2	0.02	7.4	0.3	<0.05	7	<0.5	<0.2
1032859	Soil	6	67	1.11	233	0.135	<1	2.46	0.013	0.61	0.2	0.02	6.8	0.3	<0.05	6	<0.5	<0.2
1032861	Soil	6	75	1.27	257	0.144	<1	2.83	0.015	0.54	0.2	<0.01	7.4	0.3	0.05	7	0.7	<0.2
1032860	Soil	8	96	1.51	332	0.161	1	3.39	0.021	0.54	0.2	0.02	9.3	0.4	0.07	10	0.6	<0.2
1032858	Soil	5	56	0.89	179	0.125	<1	1.99	0.013	0.52	0.3	0.04	5.4	0.2	0.06	6	<0.5	<0.2
1032855	Soil	7	81	1.25	256	0.130	1	2.88	0.015	0.26	0.2	0.03	7.1	0.3	0.08	8	<0.5	<0.2
1032853	Soil	5	68	1.04	171	0.131	<1	2.24	0.010	0.51	0.2	0.02	6.0	0.3	<0.05	6	<0.5	<0.2
1032857	Soil	5	68	1.04	200	0.110	<1	2.37	0.013	0.37	0.1	0.04	5.1	0.2	0.11	8	<0.5	<0.2
1032854	Soil	5	50	0.82	128	0.120	<1	1.87	0.011	0.37	0.1	0.03	4.5	0.2	<0.05	6	<0.5	<0.2
1032852	Soil	5	72	1.10	207	0.128	<1	2.53	0.013	0.56	0.1	0.03	6.3	0.3	0.07	7	<0.5	<0.2
1032851	Soil	6	89	1.40	308	0.136	<1	2.96	0.014	0.78	0.1	0.03	7.6	0.4	0.10	9	<0.5	<0.2
1032856	Soil	5	70	1.17	233	0.151	<1	2.58	0.014	0.56	0.1	0.01	7.2	0.3	<0.05	7	<0.5	<0.2
1065154	Soil	8	81	1.31	173	0.124	<1	2.79	0.028	0.35	0.2	0.03	6.4	0.3	0.18	8	0.6	<0.2
1065156	Soil	7	66	1.05	142	0.110	<1	2.45	0.016	0.30	0.3	0.02	5.3	0.2	0.09	7	<0.5	<0.2
1065151	Soil	5	71	1.06	114	0.107	<1	2.28	0.011	0.47	<0.1	0.01	5.4	0.2	<0.05	7	<0.5	<0.2
1065157	Soil	7	69	1.10	167	0.121	<1	2.53	0.017	0.31	0.1	0.02	5.3	0.2	0.11	8	<0.5	<0.2
1065158	Soil	9	61	0.96	150	0.087	3	2.29	0.019	0.23	<0.1	0.05	4.3	0.2	0.16	7	0.5	<0.2
1065160	Soil	9	63	1.03	146	0.114	<1	2.35	0.013	0.27	0.1	0.01	5.6	0.2	<0.05	6	<0.5	<0.2
1065152	Soil	10	99	1.49	298	0.158	<1	3.09	0.014	0.74	<0.1	0.02	8.8	0.3	0.06	10	0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1065166	Soil	0.7	51.0	5.8	61	<0.1	42.2	15.2	429	3.80	12.7	0.5	2.6	1.7	24	<0.1	0.2	0.1	105	0.17	0.063
1065161	Soil	0.8	48.4	5.2	63	0.1	40.1	15.1	416	3.46	13.6	0.6	3.6	1.9	21	0.1	0.3	0.1	92	0.24	0.084
1065159	Soil	0.8	52.1	5.0	63	<0.1	45.7	16.4	430	3.49	13.9	0.5	1.8	1.6	20	<0.1	0.2	0.1	91	0.26	0.089
1065163	Soil	1.1	71.2	6.3	81	0.2	58.8	22.1	455	3.95	21.3	0.8	4.1	1.8	27	0.1	0.3	0.2	105	0.21	0.097
1065164	Soil	1.1	60.9	7.1	72	0.2	43.7	16.0	426	4.13	17.1	0.7	6.0	1.7	33	<0.1	0.3	0.2	111	0.18	0.096
1065168	Soil	0.9	83.9	6.2	73	0.1	63.8	21.6	509	4.71	24.3	0.6	2.3	1.9	33	0.1	0.2	0.2	118	0.23	0.081
1065165	Soil	0.9	48.4	7.3	73	<0.1	44.0	15.5	436	3.90	14.8	0.7	3.3	1.9	31	0.1	0.4	0.2	96	0.20	0.080
1065170	Soil	0.8	48.4	6.6	65	0.1	45.9	16.5	519	4.17	18.0	0.6	3.4	1.7	28	<0.1	0.3	0.3	95	0.19	0.085
1065180	Soil	1.0	43.6	6.8	55	0.1	36.8	14.0	432	3.73	20.2	0.6	4.9	1.3	31	0.1	0.6	0.2	90	0.28	0.083
1065171	Soil	0.8	79.7	6.9	81	0.2	62.8	21.2	516	4.58	29.5	0.7	3.7	2.2	40	<0.1	0.3	0.3	106	0.19	0.078
1065179	Soil	0.7	33.1	6.2	50	<0.1	32.0	12.1	379	3.41	14.3	0.6	1.9	1.4	23	0.1	0.4	0.2	89	0.21	0.049
1065183	Soil	0.7	39.4	5.4	60	0.2	36.9	13.1	359	3.37	15.0	0.5	8.7	1.2	25	<0.1	0.3	0.2	97	0.24	0.077
1065184	Soil	0.6	35.8	4.4	56	<0.1	36.0	13.5	376	3.47	14.7	0.5	0.9	1.7	22	<0.1	0.3	0.1	96	0.27	0.084
1065182	Soil	0.8	54.6	6.3	73	0.1	46.7	15.8	427	4.21	29.2	0.5	3.7	1.6	29	<0.1	0.5	0.2	118	0.19	0.068
1065181	Soil	1.3	54.3	6.6	60	0.2	35.5	13.7	400	4.17	18.5	0.7	3.3	1.3	35	<0.1	0.5	0.2	111	0.30	0.094
1065169	Soil	0.7	51.1	6.9	60	0.1	44.7	16.0	498	4.21	17.8	0.6	8.3	1.7	27	<0.1	0.2	0.3	99	0.18	0.077
1065167	Soil	0.7	56.6	6.9	60	0.1	46.8	17.0	471	4.22	17.2	0.7	3.5	2.1	30	0.1	0.2	0.2	99	0.18	0.074
1065177	Soil	0.8	40.1	5.9	51	<0.1	39.1	13.8	349	3.49	20.3	0.5	15.9	1.4	22	0.1	0.6	0.2	88	0.19	0.047
1065176	Soil	0.9	66.4	11.4	60	0.2	65.5	22.2	864	4.95	37.7	0.6	3.8	1.6	35	0.1	1.4	0.2	107	0.27	0.086
1065174	Soil	0.8	54.9	5.9	77	0.2	52.9	17.5	393	3.90	26.6	0.9	1.3	2.2	26	<0.1	0.3	0.2	117	0.21	0.060
1065175	Soil	1.2	53.8	7.8	78	0.2	45.2	17.4	516	4.25	59.8	0.8	4.3	1.4	33	0.1	0.7	0.2	111	0.24	0.080
1065178	Soil	0.7	40.5	5.6	52	<0.1	37.3	14.1	376	3.47	21.0	0.5	5.4	1.7	23	<0.1	0.6	0.2	87	0.21	0.052
1065173	Soil	0.7	64.8	7.7	81	0.2	56.6	21.9	551	4.67	24.8	0.9	3.3	3.0	38	<0.1	0.2	0.3	124	0.16	0.076
1065153	Soil	1.2	82.4	5.1	99	0.1	70.7	26.1	507	4.39	19.9	0.8	5.4	2.6	39	0.3	0.3	0.2	99	0.37	0.130
1065162	Soil	0.9	58.8	6.0	72	0.2	51.1	19.9	472	3.89	18.8	0.9	9.0	2.6	33	0.2	0.4	0.2	97	0.27	0.094
1065172	Soil	1.0	85.3	8.6	107	0.1	74.2	23.8	658	5.41	113.6	0.9	16.1	3.4	51	0.2	0.7	0.2	105	0.20	0.067
1065155	Soil	1.0	82.3	5.0	74	<0.1	67.7	24.5	466	4.04	40.2	0.7	6.8	2.0	31	0.1	0.3	0.2	92	0.27	0.101
1058835	Soil	0.3	30.9	2.7	57	0.1	28.2	10.6	300	2.54	31.7	0.7	8.5	1.4	35	<0.1	0.1	0.2	79	0.40	0.092
1058834	Soil	0.4	24.6	2.6	61	0.1	29.4	10.7	336	2.56	27.0	0.6	6.1	1.7	35	<0.1	0.1	0.2	85	0.41	0.107
1058833	Soil	0.7	33.6	3.7	60	0.2	31.0	12.4	346	3.02	30.4	0.7	5.2	1.3	36	<0.1	0.2	0.2	85	0.39	0.084



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1065166	Soil	7	74	1.15	206	0.132	<1	2.80	0.012	0.55	<0.1	0.01	6.6	0.3	<0.05	8	<0.5
1065161	Soil	9	61	0.97	131	0.110	<1	2.28	0.012	0.27	0.1	0.02	5.0	0.2	<0.05	7	<0.5
1065159	Soil	8	64	1.02	147	0.111	<1	2.27	0.013	0.29	<0.1	0.02	5.2	0.2	0.06	7	<0.5
1065163	Soil	9	76	1.15	210	0.125	<1	2.88	0.015	0.43	0.2	0.02	6.5	0.3	0.07	8	<0.5
1065164	Soil	9	78	1.15	223	0.134	<1	3.07	0.013	0.39	0.2	0.04	6.6	0.3	0.06	9	<0.5
1065168	Soil	8	87	1.31	257	0.147	<1	3.21	0.011	0.79	0.2	0.02	7.5	0.4	<0.05	10	<0.5
1065165	Soil	9	69	1.12	214	0.135	<1	2.88	0.015	0.40	0.1	0.02	5.8	0.2	<0.05	8	<0.5
1065170	Soil	7	71	1.16	159	0.114	<1	2.84	0.011	0.45	0.2	0.02	5.3	0.3	<0.05	8	<0.5
1065180	Soil	8	57	0.93	179	0.107	<1	2.27	0.018	0.25	0.1	0.04	5.0	0.2	0.08	7	0.6
1065171	Soil	7	80	1.26	187	0.138	<1	3.23	0.012	0.63	<0.1	0.01	6.7	0.4	<0.05	9	<0.5
1065179	Soil	7	53	0.85	128	0.126	<1	2.01	0.014	0.26	0.1	0.04	4.8	0.2	<0.05	6	<0.5
1065183	Soil	7	67	1.06	240	0.136	<1	2.40	0.014	0.50	0.1	0.03	6.4	0.2	<0.05	8	<0.5
1065184	Soil	7	67	1.04	203	0.150	1	2.22	0.013	0.55	<0.1	0.01	6.7	0.3	<0.05	7	<0.5
1065182	Soil	6	78	1.20	243	0.163	1	2.80	0.016	0.64	0.1	0.02	7.6	0.3	<0.05	9	<0.5
1065181	Soil	7	70	1.09	251	0.148	<1	2.59	0.023	0.53	<0.1	0.03	6.8	0.3	0.11	8	<0.5
1065169	Soil	7	72	1.17	178	0.128	<1	2.92	0.011	0.49	0.1	0.02	5.7	0.3	<0.05	8	<0.5
1065167	Soil	8	74	1.17	200	0.146	<1	2.92	0.013	0.54	0.1	0.02	6.4	0.3	<0.05	8	<0.5
1065177	Soil	7	56	0.92	135	0.137	<1	2.12	0.014	0.30	<0.1	0.03	5.3	0.2	<0.05	6	<0.5
1065176	Soil	6	68	1.08	288	0.126	1	3.01	0.014	0.73	<0.1	0.04	8.3	0.3	<0.05	7	<0.5
1065174	Soil	9	91	1.28	300	0.163	<1	2.82	0.021	0.60	0.1	0.02	7.5	0.3	0.05	9	<0.5
1065175	Soil	9	74	1.16	230	0.131	1	2.74	0.021	0.39	<0.1	0.04	6.4	0.2	0.09	9	<0.5
1065178	Soil	8	57	0.91	139	0.139	2	2.14	0.015	0.32	<0.1	0.02	5.4	0.2	<0.05	6	<0.5
1065173	Soil	9	93	1.40	317	0.172	<1	3.80	0.015	0.77	<0.1	0.01	8.6	0.4	<0.05	10	<0.5
1065153	Soil	10	72	1.28	154	0.139	<1	2.51	0.031	0.38	0.5	0.02	6.1	0.3	0.10	7	<0.5
1065162	Soil	10	65	1.12	194	0.148	2	2.57	0.019	0.39	0.2	0.02	6.0	0.3	<0.05	7	<0.5
1065172	Soil	11	81	1.40	194	0.134	2	3.37	0.014	0.71	<0.1	0.01	6.9	0.4	<0.05	9	<0.5
1065155	Soil	8	67	1.09	152	0.130	2	2.37	0.028	0.33	0.2	0.02	5.3	0.2	0.10	7	0.9
1058835	Soil	7	56	0.83	262	0.170	<1	1.95	0.025	0.46	0.3	<0.01	5.1	0.2	<0.05	6	<0.5
1058834	Soil	6	59	0.86	272	0.182	2	2.05	0.027	0.54	0.2	0.02	5.5	0.2	<0.05	6	<0.5
1058833	Soil	6	57	0.84	248	0.162	2	2.07	0.024	0.49	0.2	0.03	5.2	0.2	<0.05	6	<0.5



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1058830	Soil	0.4	25.7	2.6	58	<0.1	31.1	10.9	290	2.91	18.1	0.5	1.9	1.8	23	<0.1	<0.1	0.1	90	0.30	0.083
1058824	Soil	0.6	29.7	3.6	51	0.1	34.9	11.0	267	2.78	15.8	0.4	2.1	1.6	24	0.1	0.2	0.1	83	0.25	0.060
1058816	Soil	0.5	24.8	4.2	72	0.2	34.4	12.5	436	2.85	11.3	0.5	7.6	1.5	31	<0.1	0.1	0.2	85	0.28	0.037
1058815	Soil	0.3	26.0	4.2	73	0.1	34.9	11.7	309	3.12	24.7	0.5	40.3	2.0	26	<0.1	0.2	0.2	91	0.28	0.062
1058822	Soil	0.5	39.4	2.9	56	0.5	30.2	12.2	386	2.55	30.0	0.9	41.8	1.7	38	<0.1	0.2	0.2	74	0.47	0.117
1058820	Soil	0.4	33.2	4.2	70	<0.1	41.9	14.3	432	3.60	50.6	0.5	6.5	1.5	15	<0.1	0.2	0.2	119	0.16	0.043
1058821	Soil	0.4	28.4	3.2	65	<0.1	34.6	12.8	404	2.92	46.5	0.5	7.9	1.5	19	<0.1	0.2	0.1	91	0.26	0.087
1058819	Soil	0.3	23.6	2.9	63	<0.1	29.5	10.4	282	2.79	25.2	0.5	6.5	1.8	24	<0.1	0.1	0.1	80	0.30	0.082
1058823	Soil	0.6	31.7	4.3	69	0.2	38.1	14.0	355	3.21	39.7	0.5	47.4	1.5	16	<0.1	0.2	0.2	96	0.17	0.061
1058829	Soil	1.1	57.1	6.6	69	0.4	45.4	16.1	460	3.92	44.9	1.1	8.4	1.4	42	<0.1	0.2	0.3	112	0.38	0.067
1058832	Soil	0.5	26.5	3.0	59	0.1	29.8	11.4	300	2.72	30.1	0.6	9.5	1.6	30	<0.1	<0.1	0.2	84	0.36	0.073
1058831	Soil	0.6	36.6	3.8	63	0.1	35.2	13.6	387	3.19	27.7	0.6	3.3	2.0	27	<0.1	0.2	0.2	98	0.31	0.067
1058818	Soil	0.4	31.0	3.2	63	0.1	32.2	10.2	295	2.87	25.7	0.6	11.5	1.4	22	<0.1	0.2	0.2	86	0.25	0.080
1058813	Soil	1.9	57.2	7.3	80	0.7	44.0	14.4	427	7.02	112.4	1.6	8.1	2.4	40	0.2	0.5	0.4	124	0.40	0.125
1058828	Soil	0.9	31.7	5.3	64	0.3	30.1	15.7	631	2.97	24.9	0.8	4.5	0.8	40	0.1	0.2	0.2	90	0.42	0.084
1058827	Soil	0.5	36.8	4.6	60	0.3	33.8	12.4	279	2.67	21.6	0.7	5.1	1.4	24	<0.1	0.2	0.2	89	0.28	0.085
1058817	Soil	0.3	24.9	2.4	58	<0.1	28.5	10.5	349	2.45	23.8	0.5	5.6	1.5	21	<0.1	0.1	0.1	77	0.32	0.110
1058826	Soil	0.5	37.8	3.4	65	0.2	36.9	14.3	370	3.19	24.7	0.6	6.2	1.9	24	0.1	0.1	0.2	99	0.31	0.103
1058814	Soil	0.3	31.0	4.9	64	0.1	34.7	11.4	283	3.27	28.4	0.7	9.4	2.0	25	<0.1	0.2	0.2	95	0.29	0.080
1058825	Soil	0.5	31.7	3.2	51	0.1	34.9	12.1	305	3.00	18.2	0.5	4.4	1.9	22	<0.1	<0.1	0.1	89	0.29	0.096
1064371	Soil	0.7	89.0	7.2	17	0.2	97.3	25.4	633	4.47	54.2	0.4	4.1	1.0	49	<0.1	0.1	0.2	118	0.30	0.097
1064368	Soil	1.4	115.2	8.1	55	0.1	81.8	31.2	544	4.67	27.2	0.6	3.7	1.3	34	0.2	0.4	0.3	111	0.25	0.079
1064364	Soil	0.8	78.9	5.0	42	0.1	89.7	24.0	493	3.75	15.3	0.5	7.5	1.6	28	0.1	0.3	0.2	91	0.29	0.104
1064367	Soil	0.9	64.1	4.6	45	0.1	55.2	18.2	416	3.44	11.0	0.6	6.4	2.1	27	0.2	0.3	0.1	95	0.36	0.118
1064365	Soil	1.1	61.9	6.6	41	<0.1	58.4	20.1	477	3.66	11.6	0.5	3.4	1.0	26	0.1	0.4	0.2	103	0.24	0.076
1064363	Soil	0.8	61.2	4.7	48	<0.1	56.1	17.6	412	3.24	9.8	0.5	6.4	2.0	26	0.2	0.3	0.1	91	0.32	0.081
1064375	Soil	1.2	113.5	7.6	44	<0.1	90.3	33.5	582	4.34	52.8	0.5	13.0	1.0	33	0.2	0.4	0.2	100	0.25	0.095
1064374	Soil	1.5	62.6	8.9	43	<0.1	41.1	12.6	329	4.00	29.5	0.6	8.3	0.9	20	0.2	0.5	0.3	110	0.14	0.054
1064372	Soil	0.8	85.4	5.4	33	<0.1	65.3	20.3	354	3.59	16.4	0.5	5.5	1.3	20	0.2	0.3	0.2	96	0.18	0.054
1064370	Soil	1.0	46.3	6.5	41	0.1	45.3	14.1	347	3.74	13.6	0.5	3.6	0.7	25	0.1	0.4	0.2	103	0.19	0.059



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Part 2

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1058830	Soil	7	61	0.94	284	0.195	<1	2.23	0.021	0.68	0.3	<0.01	6.1	0.2	<0.05	7	<0.5	<0.2
1058824	Soil	6	54	0.82	203	0.156	2	1.85	0.015	0.53	0.2	0.02	5.0	0.2	<0.05	6	<0.5	<0.2
1058816	Soil	6	65	0.94	325	0.191	<1	2.50	0.017	0.51	0.1	0.04	6.5	0.2	<0.05	8	<0.5	<0.2
1058815	Soil	7	64	1.00	298	0.203	<1	2.44	0.021	0.56	0.2	0.02	6.2	0.2	<0.05	8	<0.5	<0.2
1058822	Soil	8	49	0.72	269	0.159	2	1.97	0.019	0.53	0.3	0.03	5.3	0.2	<0.05	6	<0.5	<0.2
1058820	Soil	6	76	1.02	275	0.243	2	3.09	0.014	0.44	0.2	0.02	7.8	0.3	<0.05	9	<0.5	<0.2
1058821	Soil	6	61	0.86	256	0.188	1	2.09	0.018	0.64	0.2	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1058819	Soil	7	55	0.82	263	0.179	2	2.04	0.019	0.54	0.2	0.01	5.7	0.2	<0.05	6	<0.5	<0.2
1058823	Soil	6	64	0.87	218	0.209	1	2.63	0.017	0.61	0.3	0.02	6.7	0.2	<0.05	7	0.6	<0.2
1058829	Soil	7	68	0.98	342	0.181	3	2.86	0.019	0.59	0.2	0.03	6.7	0.3	0.06	8	<0.5	<0.2
1058832	Soil	7	58	0.85	237	0.180	1	1.92	0.021	0.51	0.3	0.02	5.3	0.2	<0.05	6	<0.5	<0.2
1058831	Soil	7	64	0.96	288	0.206	2	2.31	0.019	0.63	0.2	0.01	6.6	0.2	<0.05	7	<0.5	<0.2
1058818	Soil	6	60	0.89	281	0.185	2	2.30	0.019	0.59	0.3	0.02	5.9	0.2	<0.05	7	<0.5	<0.2
1058813	Soil	11	75	0.89	475	0.168	2	3.88	0.017	0.62	0.2	0.09	8.0	0.3	0.07	10	0.7	<0.2
1058828	Soil	7	56	0.80	286	0.129	2	2.29	0.016	0.28	0.2	0.03	5.1	0.2	0.06	7	0.5	<0.2
1058827	Soil	7	63	0.91	262	0.166	2	2.44	0.017	0.56	0.2	0.03	6.3	0.3	<0.05	7	<0.5	<0.2
1058817	Soil	6	51	0.76	255	0.176	2	1.76	0.022	0.57	0.2	0.01	5.1	0.2	<0.05	6	<0.5	<0.2
1058826	Soil	7	67	1.01	299	0.202	1	2.38	0.020	0.70	0.2	0.01	6.8	0.3	<0.05	7	<0.5	<0.2
1058814	Soil	8	64	0.95	287	0.176	2	2.48	0.016	0.52	0.2	0.03	6.2	0.2	<0.05	8	<0.5	<0.2
1058825	Soil	7	62	0.94	257	0.176	2	2.19	0.019	0.70	0.2	<0.01	6.3	0.3	<0.05	7	<0.5	<0.2
1064371	Soil	4	75	1.27	449	0.169	1	3.15	0.014	1.10	<0.1	0.02	7.9	0.4	<0.05	7	0.5	<0.2
1064368	Soil	6	65	1.12	166	0.142	2	2.73	0.018	0.44	0.1	0.04	6.0	0.3	0.08	7	0.5	<0.2
1064364	Soil	7	56	0.89	153	0.132	2	2.06	0.014	0.38	0.1	0.02	5.0	0.2	<0.05	6	<0.5	<0.2
1064367	Soil	8	55	0.94	152	0.143	2	2.05	0.017	0.36	0.2	0.02	5.4	0.2	<0.05	5	0.9	<0.2
1064365	Soil	6	57	0.94	156	0.128	3	2.08	0.013	0.29	0.1	0.04	5.1	0.2	0.05	6	<0.5	<0.2
1064363	Soil	8	52	0.89	131	0.143	2	1.89	0.016	0.26	0.2	0.03	5.1	0.2	<0.05	5	<0.5	<0.2
1064375	Soil	6	58	1.01	178	0.120	1	2.46	0.016	0.44	0.3	0.04	5.1	0.2	0.05	6	0.8	<0.2
1064374	Soil	6	58	0.89	109	0.142	2	2.28	0.012	0.34	0.1	0.02	4.9	0.2	0.06	7	<0.5	<0.2
1064372	Soil	6	54	0.91	130	0.148	1	2.14	0.014	0.42	0.3	0.02	5.6	0.2	<0.05	5	<0.5	<0.2
1064370	Soil	5	62	0.95	157	0.129	2	2.24	0.013	0.40	0.1	0.04	5.1	0.3	0.06	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064369	Soil	1.7	39.1	8.7	45	0.1	38.0	11.2	378	3.55	14.2	0.5	3.9	0.6	27	0.1	0.5	0.2	99	0.20	0.060
1064373	Soil	0.7	64.4	5.1	21	0.2	56.3	16.7	353	3.99	42.0	0.4	19.5	0.9	15	<0.1	0.1	0.2	115	0.09	0.043
1064354	Soil	1.3	32.6	8.1	51	<0.1	35.4	13.4	502	3.62	10.6	0.5	5.1	0.9	28	<0.1	0.5	0.2	109	0.24	0.061
1064355	Soil	1.0	92.9	5.8	55	<0.1	82.5	26.4	484	3.54	17.6	0.6	8.6	1.6	28	0.2	0.5	0.2	82	0.33	0.114
1064356	Soil	0.5	74.8	4.7	23	0.1	81.5	24.2	434	3.95	53.1	0.4	5.2	1.0	43	0.1	0.2	0.2	106	0.38	0.140
1064362	Soil	0.8	58.3	5.3	47	<0.1	57.2	17.8	359	3.64	8.2	0.5	5.2	1.3	22	0.1	0.3	0.2	99	0.23	0.049
1064351	Soil	0.8	57.5	6.2	47	<0.1	53.4	18.2	446	3.43	9.7	0.5	12.2	1.4	23	<0.1	0.4	0.1	86	0.22	0.058
1064353	Soil	0.6	35.4	4.2	42	<0.1	33.3	12.4	321	2.76	7.2	0.5	5.6	1.8	23	0.1	0.3	<0.1	69	0.33	0.089
1064352	Soil	0.8	53.2	5.4	42	<0.1	40.5	13.0	351	3.31	10.1	0.4	5.9	1.0	23	<0.1	0.4	0.1	82	0.28	0.095
1064358	Soil	0.8	79.9	5.8	26	0.1	74.0	19.0	390	3.92	27.4	0.4	3.7	0.9	55	<0.1	0.2	0.2	109	0.23	0.101
1064360	Soil	1.1	71.4	7.1	48	<0.1	56.8	23.3	459	3.92	13.8	0.6	4.3	1.1	28	0.2	0.4	0.2	95	0.25	0.087
1064359	Soil	0.9	44.5	5.3	33	0.1	36.2	13.8	368	3.43	8.2	0.4	2.2	1.1	23	<0.1	0.3	0.2	92	0.21	0.066
1064361	Soil	0.8	78.2	5.2	49	0.1	73.1	22.2	444	3.84	16.0	0.5	8.4	1.7	31	0.3	0.3	0.2	94	0.37	0.123
1064357	Soil	0.9	45.7	6.7	37	<0.1	45.7	14.7	404	3.67	14.7	0.5	6.5	0.8	26	<0.1	0.3	0.2	98	0.24	0.073
1064379	Soil	1.1	79.1	5.7	30	0.1	71.5	19.6	398	4.24	26.6	0.4	9.6	1.0	27	0.1	0.2	0.2	116	0.28	0.103
1064376	Soil	1.3	126.8	7.8	35	0.1	73.7	26.9	486	4.42	40.1	0.5	23.0	0.9	33	0.1	0.4	0.2	108	0.27	0.085
1064383	Soil	0.7	43.7	4.0	25	<0.1	41.4	14.1	293	3.33	17.0	0.4	9.0	1.2	20	<0.1	0.1	0.2	88	0.30	0.125
1064384	Soil	0.8	45.0	3.9	26	<0.1	40.6	13.2	280	3.05	17.2	0.4	15.4	1.1	20	<0.1	0.2	0.2	82	0.29	0.129
1064381	Soil	1.1	89.8	5.1	29	<0.1	61.3	20.6	371	3.89	25.2	0.4	3.7	1.4	21	<0.1	0.2	0.2	108	0.29	0.109
1064382	Soil	1.5	35.6	7.4	38	0.1	28.1	10.1	240	3.52	19.5	0.5	35.2	0.8	18	0.1	0.4	0.2	103	0.19	0.060
1064378	Soil	1.1	113.9	5.1	31	0.2	81.1	22.3	419	4.67	25.7	0.4	70.0	1.1	30	<0.1	0.2	0.2	125	0.30	0.112
1064380	Soil	0.8	46.7	4.5	29	0.2	32.1	11.9	305	3.28	17.4	0.4	104.3	0.5	21	0.2	0.2	0.1	99	0.26	0.100
1064377	Soil	1.1	170.4	7.1	22	<0.1	111.6	32.2	501	4.63	32.6	0.4	3.7	0.9	43	0.1	0.2	0.2	123	0.48	0.111
1075901	Soil	1.0	60.6	5.2	112	0.3	69.1	28.6	532	4.56	106.2	0.8	6.6	2.1	39	0.2	0.2	0.2	140	0.39	0.099
1077950	Soil	0.9	61.5	4.9	111	0.3	69.9	28.2	503	4.59	107.2	0.8	5.2	2.0	39	0.1	0.2	0.2	142	0.39	0.096
1077948	Soil	1.2	84.5	5.8	121	0.2	70.4	29.2	660	5.02	104.5	0.8	4.3	1.6	41	0.1	0.3	0.2	153	0.33	0.095
1077949	Soil	1.2	80.6	6.0	116	0.2	64.7	27.1	639	4.78	98.0	0.8	3.2	1.5	39	0.2	0.3	0.2	144	0.33	0.095
1077947	Soil	1.1	103.8	6.1	123	0.2	102.9	39.7	725	5.43	202.7	0.9	9.0	2.1	53	0.2	0.5	0.2	144	0.47	0.124
1075902	Soil	0.8	61.6	5.1	113	0.2	74.4	25.1	547	4.83	379.6	0.9	7.1	2.6	56	0.1	0.4	0.2	160	0.44	0.086
1075903	Soil	1.5	45.1	5.0	107	0.2	59.8	24.2	500	4.25	178.6	0.8	4.3	2.0	45	0.4	0.2	0.2	135	0.42	0.058



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064369	Soil	6	52	0.76	112	0.108	2	1.79	0.011	0.30	0.1	0.04	3.7	0.2	0.05	7	<0.5	<0.2
1064373	Soil	5	69	1.13	194	0.161	<1	2.60	0.014	0.80	0.2	0.02	7.0	0.3	<0.05	6	<0.5	<0.2
1064354	Soil	5	60	0.95	168	0.138	1	2.11	0.012	0.36	0.1	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
1064355	Soil	7	46	0.86	104	0.112	2	1.90	0.014	0.23	0.1	0.01	4.3	0.2	<0.05	5	0.6	<0.2
1064356	Soil	4	69	1.13	248	0.156	<1	2.45	0.018	0.92	<0.1	<0.01	7.0	0.3	<0.05	6	<0.5	<0.2
1064362	Soil	7	57	0.98	163	0.143	2	2.12	0.017	0.42	0.3	0.02	5.7	0.3	<0.05	6	<0.5	<0.2
1064351	Soil	7	48	0.85	131	0.128	1	1.93	0.013	0.23	0.1	0.01	4.8	0.2	<0.05	5	<0.5	<0.2
1064353	Soil	8	38	0.68	73	0.110	2	1.52	0.015	0.18	0.1	0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1064352	Soil	6	49	0.89	108	0.127	3	2.01	0.013	0.28	0.1	0.02	4.4	0.2	<0.05	5	<0.5	<0.2
1064358	Soil	4	69	1.15	280	0.155	<1	2.75	0.019	0.81	<0.1	0.01	7.3	0.3	0.08	6	<0.5	<0.2
1064360	Soil	7	57	0.92	148	0.121	2	2.25	0.017	0.32	0.1	0.03	5.1	0.3	0.09	6	<0.5	<0.2
1064359	Soil	5	53	0.91	153	0.137	2	2.01	0.015	0.36	0.1	0.02	5.2	0.3	<0.05	5	<0.5	<0.2
1064361	Soil	7	56	0.97	160	0.128	2	2.10	0.015	0.37	0.1	0.01	5.9	0.2	<0.05	5	<0.5	<0.2
1064357	Soil	5	53	0.86	146	0.117	2	2.03	0.012	0.27	<0.1	0.04	4.6	0.2	<0.05	6	<0.5	<0.2
1064379	Soil	5	70	1.25	326	0.152	1	2.74	0.017	0.89	0.2	0.02	7.5	0.3	<0.05	7	<0.5	<0.2
1064376	Soil	5	64	1.11	233	0.123	1	2.71	0.017	0.49	0.1	0.05	6.4	0.3	0.05	6	<0.5	<0.2
1064383	Soil	5	55	1.00	262	0.130	2	2.00	0.013	0.71	0.3	0.01	6.0	0.2	<0.05	5	<0.5	<0.2
1064384	Soil	4	52	0.99	259	0.118	<1	1.97	0.012	0.66	0.2	0.01	5.7	0.2	<0.05	5	<0.5	<0.2
1064381	Soil	6	68	1.16	267	0.153	1	2.53	0.012	0.63	0.3	<0.01	7.3	0.3	<0.05	7	<0.5	<0.2
1064382	Soil	6	53	0.74	95	0.142	1	1.76	0.007	0.30	0.2	0.03	4.4	0.2	0.06	7	<0.5	<0.2
1064378	Soil	5	75	1.30	324	0.174	<1	2.81	0.017	0.90	0.2	0.02	8.3	0.4	<0.05	7	0.6	<0.2
1064380	Soil	5	56	0.93	237	0.113	<1	1.93	0.014	0.62	0.2	0.01	5.1	0.2	0.07	6	<0.5	<0.2
1064377	Soil	4	73	1.30	291	0.160	<1	3.14	0.016	0.82	0.2	0.01	7.8	0.3	<0.05	7	1.0	<0.2
1075901	Soil	9	120	1.61	362	0.197	<1	2.97	0.020	0.70	0.3	0.03	9.8	0.3	0.09	11	<0.5	<0.2
1077950	Soil	8	122	1.62	368	0.192	2	3.09	0.019	0.70	0.2	0.03	9.8	0.3	0.08	11	<0.5	<0.2
1077948	Soil	9	122	1.67	390	0.185	<1	3.29	0.020	0.73	0.3	0.03	9.5	0.4	0.11	12	<0.5	<0.2
1077949	Soil	9	115	1.62	376	0.173	1	3.15	0.019	0.73	0.4	0.03	9.0	0.3	0.12	11	<0.5	<0.2
1077947	Soil	10	123	1.79	447	0.179	<1	3.25	0.027	0.86	1.0	0.01	10.3	0.3	0.10	12	0.6	<0.2
1075902	Soil	11	151	2.02	506	0.204	<1	3.19	0.018	0.94	<0.1	0.01	11.7	0.3	0.09	13	0.6	<0.2
1075903	Soil	9	126	1.67	408	0.205	2	2.74	0.024	0.94	0.2	0.03	9.0	0.3	0.12	11	0.5	<0.2



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Project: SAP
Report Date: August 31, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1075904	Soil	0.8	46.8	4.2	102	0.3	59.7	24.1	513	4.31	68.7	0.8	4.5	1.7	41	<0.1	0.1	0.1	141	0.42	0.075
1075905	Soil	1.1	51.4	3.8	99	0.1	58.3	22.8	447	4.29	118.5	0.8	2.5	2.0	42	<0.1	0.2	0.2	141	0.42	0.072
1075906	Soil	1.2	75.4	5.8	122	0.3	69.5	27.5	602	4.99	136.9	1.0	5.1	1.9	47	0.2	0.3	0.2	153	0.43	0.087
1077940	Soil	1.2	60.2	5.4	99	0.2	58.3	22.8	436	4.47	85.0	0.7	4.2	1.7	41	0.1	0.3	0.2	126	0.37	0.069
1077939	Soil	1.0	71.8	4.5	102	0.2	73.1	26.9	454	4.49	93.8	0.8	3.2	2.1	54	<0.1	0.2	0.2	130	0.45	0.073
1077941	Soil	1.1	55.0	3.9	85	0.2	47.7	15.3	326	3.70	60.4	0.5	2.6	1.2	42	0.2	0.2	0.1	114	0.36	0.047
1077938	Soil	1.2	85.7	5.0	107	0.2	76.2	28.7	493	4.63	102.9	0.9	3.7	1.5	59	0.1	0.3	0.2	137	0.56	0.071
1077936	Soil	1.2	89.3	6.1	118	0.3	81.3	37.3	526	4.88	179.5	1.0	6.3	1.4	60	0.2	0.4	0.2	128	0.50	0.090
1077937	Soil	1.0	68.0	4.7	106	0.2	71.1	25.3	497	4.50	108.3	0.8	3.7	2.0	47	0.2	0.2	0.2	131	0.40	0.092
1077935	Soil	1.4	73.8	5.7	102	0.2	69.0	27.5	503	4.41	127.6	0.8	4.2	1.3	54	0.2	0.3	0.2	116	0.44	0.081
1077943	Soil	1.4	94.3	4.9	116	0.3	82.7	32.3	639	5.13	62.6	1.1	4.2	1.8	61	<0.1	0.2	0.2	163	0.63	0.082
1077942	Soil	0.9	85.6	4.8	110	0.2	78.7	27.7	555	5.21	64.3	1.0	5.1	2.1	49	<0.1	0.2	0.2	156	0.43	0.078
1077945	Soil	0.6	51.8	2.9	63	0.2	38.5	17.0	332	2.96	49.5	0.4	1.5	0.5	29	0.1	0.2	<0.1	96	0.33	0.067
1077944	Soil	1.1	80.2	5.3	111	0.1	63.5	28.0	503	4.55	86.0	0.8	6.2	2.2	48	0.2	0.3	0.2	133	0.40	0.057
1077946	Soil	1.2	73.3	5.9	103	0.3	65.4	22.5	412	4.67	98.6	0.8	7.7	1.7	40	<0.1	0.2	0.2	148	0.33	0.080
1077767	Soil	1.1	49.3	6.1	100	0.2	56.6	21.6	518	3.92	75.9	0.7	1.4	1.3	38	0.1	0.3	0.2	114	0.33	0.069
1077932	Soil	1.4	86.5	5.2	124	0.2	63.9	29.3	448	4.25	130.6	0.7	5.0	1.3	58	0.4	0.3	0.2	105	0.29	0.160
1077770	Soil	1.4	91.1	5.6	121	0.2	77.3	40.1	528	4.48	168.3	0.8	3.8	1.8	68	0.3	0.4	0.2	107	0.46	0.120
1075852	Soil	1.2	112.4	4.2	152	0.2	90.5	38.9	522	5.02	101.9	0.9	8.5	2.8	37	0.2	0.3	0.2	131	0.33	0.111
1077766	Soil	1.0	63.9	5.5	111	0.2	59.1	23.3	472	4.22	69.8	0.9	4.2	2.9	39	0.1	0.3	0.2	111	0.33	0.098
1075853	Soil	0.9	81.7	2.7	110	0.1	76.2	25.9	390	4.01	88.6	0.6	5.8	2.7	29	0.2	0.2	0.1	110	0.32	0.108
1075854	Soil	1.4	102.7	5.9	143	0.2	110.5	37.8	520	5.02	181.0	1.0	8.2	2.7	34	0.2	0.2	0.2	135	0.29	0.079
1075855	Soil	1.2	88.3	7.4	129	0.1	86.1	37.8	596	4.77	284.1	0.9	11.4	2.8	32	0.1	0.4	0.2	121	0.26	0.066
1077768	Soil	1.4	74.9	5.3	121	0.1	73.7	31.2	432	4.47	126.9	0.8	1.4	1.7	50	0.4	0.3	0.2	115	0.41	0.081
1077769	Soil	1.3	69.3	6.0	132	0.2	71.8	28.5	490	5.04	289.5	0.8	2.9	1.7	68	0.2	0.3	0.3	109	0.38	0.099
1077934	Soil	1.3	66.4	5.5	113	0.2	66.4	27.2	494	4.69	189.5	0.8	8.9	1.0	46	0.3	0.3	0.3	118	0.30	0.084
1077933	Soil	1.0	79.9	4.6	107	0.1	79.5	31.1	466	4.80	187.9	0.6	2.8	1.6	54	0.4	0.3	0.2	111	0.32	0.075
1076770	Soil	1.0	52.5	6.1	58	0.2	50.4	18.0	491	3.96	47.9	0.5	2.8	1.0	27	0.1	0.4	0.2	103	0.23	0.073
1076752	Soil	0.8	53.3	5.7	46	0.1	47.9	15.8	435	4.18	44.3	0.4	1.8	1.3	31	0.1	0.3	0.2	111	0.30	0.109
1076750	Soil	1.3	41.0	7.7	59	<0.1	39.8	14.1	505	4.11	26.9	0.5	6.1	0.9	22	0.2	0.5	0.2	110	0.19	0.071



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075904	Soil	9	129	1.76	467	0.221	<1	2.85	0.017	0.89	<0.1	0.04	7.8	0.4	0.07	11	0.5	<0.2
1075905	Soil	10	122	1.70	450	0.206	<1	2.82	0.027	0.88	0.4	0.02	8.9	0.3	0.09	11	<0.5	<0.2
1075906	Soil	10	126	1.71	421	0.206	<1	3.33	0.024	0.80	0.2	0.03	10.2	0.3	0.11	12	0.5	<0.2
1077940	Soil	8	88	1.36	272	0.180	<1	2.92	0.017	0.64	0.2	0.04	7.9	0.3	0.09	10	<0.5	<0.2
1077939	Soil	9	97	1.59	370	0.168	<1	3.19	0.028	0.86	0.4	0.03	9.7	0.4	0.12	10	0.5	<0.2
1077941	Soil	7	80	1.19	257	0.146	<1	2.31	0.017	0.70	0.3	0.05	7.2	0.3	0.12	9	<0.5	<0.2
1077938	Soil	9	110	1.66	402	0.164	1	3.20	0.026	0.90	0.1	0.04	9.4	0.4	0.17	11	0.8	<0.2
1077936	Soil	10	92	1.46	347	0.157	1	3.14	0.027	0.72	0.1	0.04	8.3	0.3	0.16	11	0.9	<0.2
1077937	Soil	9	101	1.58	377	0.171	<1	3.05	0.025	0.83	0.3	0.02	9.3	0.3	0.11	11	0.5	<0.2
1077935	Soil	8	82	1.29	290	0.146	<1	2.81	0.023	0.69	0.1	0.06	7.4	0.3	0.14	9	0.8	<0.2
1077943	Soil	11	125	1.87	480	0.203	<1	3.53	0.023	1.02	0.2	0.04	10.5	0.4	0.13	13	<0.5	<0.2
1077942	Soil	10	123	1.88	425	0.199	<1	3.52	0.023	1.00	0.2	0.03	10.8	0.4	0.10	12	0.9	<0.2
1077945	Soil	5	46	0.74	189	0.109	<1	1.42	0.015	0.34	<0.1	0.02	4.1	0.1	0.09	6	<0.5	<0.2
1077944	Soil	9	92	1.49	361	0.191	<1	2.92	0.022	0.87	0.1	0.03	10.1	0.3	0.10	11	0.6	<0.2
1077946	Soil	9	101	1.53	331	0.182	<1	3.14	0.018	0.65	0.1	0.03	9.4	0.3	0.10	12	<0.5	<0.2
1077767	Soil	9	91	1.32	288	0.133	<1	2.63	0.017	0.55	0.2	0.03	6.8	0.3	0.10	9	0.5	<0.2
1077932	Soil	8	73	1.18	302	0.134	1	2.75	0.022	0.71	0.4	0.04	7.0	0.3	0.17	9	0.7	<0.2
1077770	Soil	8	74	1.23	247	0.152	<1	2.63	0.032	0.70	0.7	0.07	7.4	0.3	0.21	9	<0.5	<0.2
1075852	Soil	11	103	1.66	321	0.187	<1	3.14	0.027	0.75	0.2	0.01	9.3	0.4	0.18	11	0.7	<0.2
1077766	Soil	11	84	1.36	267	0.155	<1	2.90	0.018	0.61	0.2	0.01	7.7	0.3	0.08	10	<0.5	<0.2
1075853	Soil	9	86	1.41	266	0.170	<1	2.56	0.023	0.69	0.6	<0.01	7.8	0.3	0.11	9	<0.5	<0.2
1075854	Soil	10	106	1.63	316	0.185	1	3.29	0.020	0.69	0.4	0.02	9.3	0.4	0.13	11	0.8	<0.2
1075855	Soil	11	104	1.63	237	0.162	1	3.17	0.016	0.52	0.2	0.02	8.0	0.3	0.09	10	0.6	<0.2
1077768	Soil	9	82	1.35	278	0.149	1	2.70	0.023	0.65	0.3	0.02	7.3	0.3	0.19	9	0.8	<0.2
1077769	Soil	8	76	1.33	281	0.125	4	2.95	0.022	0.80	0.3	0.02	6.8	0.4	0.18	9	1.1	<0.2
1077934	Soil	8	85	1.38	292	0.110	3	3.04	0.022	0.65	0.1	0.03	6.5	0.3	0.13	10	1.2	<0.2
1077933	Soil	7	76	1.26	280	0.136	2	2.80	0.023	0.73	0.3	0.02	7.3	0.3	0.12	9	0.7	<0.2
1076770	Soil	6	68	0.98	234	0.115	3	2.46	0.015	0.49	0.6	0.02	6.2	0.2	<0.05	8	0.9	<0.2
1076752	Soil	5	68	1.06	302	0.149	1	2.62	0.014	0.82	0.1	<0.01	7.9	0.3	<0.05	8	1.1	<0.2
1076750	Soil	6	63	0.98	199	0.120	2	2.43	0.011	0.41	0.1	0.02	6.0	0.2	<0.05	8	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076758	Soil	1.3	75.9	5.7	74	<0.1	64.6	20.1	432	4.17	124.4	0.7	8.1	0.8	29	0.1	0.4	0.2	108	0.22	0.062
1076754	Soil	1.1	51.8	7.9	53	0.2	45.0	19.7	605	4.53	64.0	0.9	3.3	1.0	26	<0.1	0.4	0.2	121	0.20	0.091
1076764	Soil	1.0	53.2	4.2	74	0.3	44.4	17.8	434	3.90	75.2	0.7	5.3	1.4	49	<0.1	0.3	0.1	108	0.48	0.074
1076765	Soil	0.9	51.0	4.6	75	0.2	47.1	17.7	397	3.89	78.0	0.7	4.5	1.3	48	<0.1	0.2	0.2	111	0.47	0.067
1044900	Soil	1.0	55.5	6.0	81	<0.1	50.2	21.3	477	4.45	75.8	0.6	13.5	1.5	27	0.2	0.3	0.2	116	0.24	0.074
1076737	Soil	1.4	94.9	6.6	73	0.2	74.6	28.8	705	5.71	76.5	0.6	7.5	1.5	35	0.3	0.4	0.2	138	0.40	0.153
1076747	Soil	1.0	69.0	7.4	48	0.2	65.1	19.9	561	4.67	94.3	0.5	8.3	1.2	24	<0.1	0.3	0.2	132	0.23	0.077
1076749	Soil	0.8	66.9	6.2	47	0.2	64.5	19.4	519	4.68	82.4	0.5	13.3	1.5	22	0.1	0.2	0.2	129	0.23	0.100
1076748	Soil	0.9	65.9	6.4	36	<0.1	64.6	19.5	515	4.45	71.3	0.4	8.1	1.2	20	<0.1	0.1	0.2	132	0.20	0.068
1076763	Soil	1.0	58.6	4.4	84	0.2	50.6	19.4	483	4.41	90.2	0.7	11.0	1.7	54	0.1	0.2	0.2	123	0.51	0.071
1076753	Soil	1.3	61.4	7.2	58	0.2	60.0	19.5	521	4.88	86.1	0.5	7.2	1.4	25	0.1	0.4	0.2	128	0.17	0.074
1076756	Soil	1.0	73.9	6.2	79	0.3	85.1	24.4	597	4.68	85.9	0.6	3.8	1.4	45	0.1	0.4	0.3	113	0.42	0.097
1076761	Soil	1.0	68.0	4.4	83	0.1	53.9	19.0	487	4.21	86.0	0.6	7.4	1.8	44	0.1	0.2	0.1	116	0.43	0.098
1076760	Soil	0.8	74.1	4.5	74	<0.1	63.2	19.7	457	4.11	70.4	0.6	8.8	1.5	36	0.2	0.3	0.1	110	0.35	0.075
1076751	Soil	1.0	57.5	6.4	52	<0.1	52.2	19.4	495	4.35	55.8	0.5	4.1	1.4	22	0.2	0.3	0.2	111	0.23	0.081
1076757	Soil	0.9	63.7	6.5	65	<0.1	65.1	20.5	485	4.28	82.9	0.5	5.8	1.3	25	0.2	0.6	0.2	104	0.19	0.055
1076762	Soil	0.8	58.4	3.9	81	0.1	46.1	17.7	469	3.97	85.3	0.7	5.9	1.7	55	0.1	0.2	0.1	112	0.47	0.070
1076759	Soil	0.7	74.3	5.3	70	0.1	72.7	21.5	534	4.30	61.7	0.6	3.9	1.4	32	<0.1	0.4	0.2	112	0.26	0.067
1076755	Soil	1.1	68.4	6.4	78	0.2	70.4	26.5	672	4.72	62.9	0.7	2.5	1.5	39	<0.1	0.4	0.2	120	0.35	0.095
1076740	Soil	1.2	77.0	6.6	54	0.1	63.9	26.8	643	5.03	68.0	0.5	14.7	1.4	25	0.2	0.3	0.2	124	0.24	0.088
1076739	Soil	1.1	58.3	7.8	60	0.1	49.7	20.3	589	4.83	46.1	0.6	78.3	1.3	30	0.1	0.4	0.2	125	0.31	0.087
1076742	Soil	1.2	71.7	6.8	56	0.2	62.2	24.0	668	5.02	73.5	0.6	9.8	1.6	27	0.1	0.3	0.2	130	0.25	0.085
1076743	Soil	1.0	64.9	6.7	54	0.1	58.1	21.8	609	4.90	60.9	0.5	6.1	1.2	29	0.1	0.3	0.2	128	0.26	0.068
1076745	Soil	1.3	71.9	6.7	55	0.1	63.1	23.0	594	4.93	76.4	0.5	14.0	0.9	34	0.2	0.3	0.2	128	0.31	0.076
1076746	Soil	1.0	58.8	6.0	46	0.1	57.2	18.7	510	4.38	79.1	0.4	7.7	1.1	21	<0.1	0.2	0.2	121	0.18	0.066
1076738	Soil	1.2	52.1	7.0	59	0.1	44.5	17.2	543	4.71	35.8	0.6	1.5	0.9	29	<0.1	0.3	0.2	124	0.26	0.088
1076736	Soil	1.0	74.1	4.4	66	<0.1	53.8	20.9	469	4.29	64.3	0.5	9.4	1.4	28	0.1	0.2	0.2	106	0.34	0.131
1044898	Soil	0.8	53.3	4.6	81	0.1	44.4	20.4	392	4.18	94.6	0.6	9.5	1.9	30	0.2	0.2	0.1	105	0.35	0.127
1044899	Soil	0.7	52.2	4.6	79	<0.1	43.6	19.7	377	4.07	91.4	0.5	10.3	1.8	28	0.1	0.2	0.1	101	0.34	0.124
1076741	Soil	1.1	83.6	7.3	57	<0.1	70.7	28.5	642	5.18	82.3	0.5	11.1	1.3	22	<0.1	0.3	0.2	130	0.17	0.070



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076758	Soil	6	73	1.08	176	0.110	1	2.56	0.019	0.47	0.2	0.04	6.1	0.2	<0.05	8	0.7	<0.2
1076754	Soil	8	72	1.04	273	0.108	1	2.97	0.012	0.51	0.2	0.06	7.3	0.3	<0.05	9	0.6	<0.2
1076764	Soil	8	79	1.24	315	0.137	2	2.62	0.027	0.65	0.4	0.03	6.7	0.3	<0.05	9	1.0	<0.2
1076765	Soil	7	81	1.30	292	0.145	2	2.75	0.030	0.71	0.7	0.02	7.1	0.3	<0.05	9	1.0	<0.2
1044900	Soil	7	72	1.16	296	0.155	1	2.76	0.015	0.65	0.2	<0.01	7.9	0.3	<0.05	9	<0.5	<0.2
1076737	Soil	7	90	1.40	333	0.174	2	3.19	0.020	0.78	0.2	<0.01	10.0	0.3	<0.05	10	0.7	<0.2
1076747	Soil	5	79	1.19	308	0.154	<1	2.98	0.014	0.78	0.2	<0.01	9.1	0.3	<0.05	9	0.9	<0.2
1076749	Soil	5	87	1.25	318	0.166	1	3.13	0.013	0.86	0.2	0.02	9.5	0.3	<0.05	10	0.6	<0.2
1076748	Soil	4	81	1.20	389	0.174	1	3.02	0.013	0.97	0.2	<0.01	9.9	0.4	<0.05	9	0.7	<0.2
1076763	Soil	8	89	1.52	416	0.171	2	3.17	0.032	0.75	0.5	0.01	8.0	0.2	<0.05	10	0.8	<0.2
1076753	Soil	6	80	1.20	289	0.153	1	3.13	0.014	0.73	0.2	0.01	8.9	0.3	<0.05	9	0.6	<0.2
1076756	Soil	7	89	1.30	330	0.140	<1	3.39	0.032	0.63	0.6	0.03	7.3	0.4	<0.05	10	1.1	<0.2
1076761	Soil	7	69	1.37	345	0.179	1	2.78	0.036	0.80	0.8	<0.01	6.8	0.3	<0.05	9	0.8	<0.2
1076760	Soil	6	70	1.14	238	0.146	<1	2.47	0.029	0.63	0.3	0.03	7.3	0.2	<0.05	8	0.9	<0.2
1076751	Soil	6	65	1.06	240	0.141	<1	2.58	0.012	0.60	0.1	0.02	7.3	0.3	<0.05	8	0.8	<0.2
1076757	Soil	7	70	1.09	193	0.127	<1	2.60	0.017	0.45	0.2	<0.01	6.5	0.2	<0.05	8	<0.5	<0.2
1076762	Soil	7	67	1.32	357	0.165	<1	2.80	0.036	0.76	0.6	<0.01	6.9	0.3	<0.05	9	0.8	<0.2
1076759	Soil	7	75	1.16	271	0.140	1	2.74	0.019	0.54	0.4	<0.01	7.8	0.3	<0.05	8	0.9	<0.2
1076755	Soil	8	87	1.28	333	0.157	<1	3.15	0.031	0.66	0.8	0.03	7.8	0.3	<0.05	10	<0.5	<0.2
1076740	Soil	6	75	1.19	286	0.162	<1	2.97	0.023	0.67	0.2	0.02	8.7	0.3	<0.05	9	1.4	<0.2
1076739	Soil	7	72	1.17	282	0.154	1	2.86	0.017	0.53	0.1	0.03	8.3	0.3	0.06	9	0.8	<0.2
1076742	Soil	7	78	1.25	323	0.163	<1	3.06	0.019	0.72	0.3	0.02	9.7	0.4	<0.05	9	1.1	<0.2
1076743	Soil	6	76	1.26	302	0.156	1	3.14	0.019	0.66	0.1	0.02	8.6	0.4	<0.05	9	1.0	<0.2
1076745	Soil	5	76	1.23	335	0.143	<1	3.05	0.015	0.64	0.1	0.04	8.5	0.3	0.06	10	0.6	<0.2
1076746	Soil	5	72	1.11	287	0.152	<1	2.90	0.013	0.70	0.2	<0.01	8.0	0.3	<0.05	8	1.0	<0.2
1076738	Soil	6	73	1.13	278	0.141	<1	2.85	0.015	0.51	0.1	0.03	7.7	0.3	0.08	10	0.9	<0.2
1076736	Soil	6	64	1.08	262	0.149	<1	2.44	0.016	0.64	0.2	0.02	7.7	0.3	<0.05	8	0.8	<0.2
1044898	Soil	7	64	1.10	271	0.150	<1	2.52	0.017	0.70	0.1	<0.01	7.8	0.3	<0.05	9	1.1	<0.2
1044899	Soil	7	63	1.07	266	0.150	<1	2.41	0.016	0.68	0.2	<0.01	7.4	0.3	<0.05	8	0.7	<0.2
1076741	Soil	6	76	1.21	263	0.159	2	3.08	0.014	0.61	0.1	<0.01	8.8	0.3	0.06	10	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076744	Soil	1.1	71.7	7.0	50	0.1	72.1	21.6	560	4.59	66.4	0.5	18.8	1.0	24	<0.1	0.2	0.2	144	0.21	0.067
1075766	Soil	0.8	63.2	5.5	100	0.1	55.9	18.5	725	4.19	25.5	3.3	2.8	1.9	64	<0.1	0.2	0.2	122	0.51	0.097
1075772	Soil	0.6	53.7	6.1	91	0.1	57.9	19.3	529	4.07	21.0	0.9	<0.5	2.5	45	<0.1	0.1	0.2	127	0.49	0.075
1075773	Soil	0.9	53.8	5.7	88	0.1	45.1	18.1	515	3.80	10.1	1.2	8.4	2.1	34	0.1	0.2	0.1	114	0.38	0.080
1075775	Soil	0.9	44.7	6.0	78	0.1	41.1	14.7	495	3.54	12.8	1.3	3.3	1.8	26	<0.1	0.3	0.1	97	0.32	0.064
1075774	Soil	0.5	58.4	6.9	98	<0.1	55.7	17.9	536	4.15	28.5	2.3	13.9	2.4	53	<0.1	0.2	0.1	114	0.39	0.069
1075767	Soil	1.1	34.9	7.6	71	<0.1	33.9	15.4	597	3.23	19.8	0.7	8.3	1.4	28	0.1	0.4	0.2	82	0.34	0.050
1075768	Soil	0.6	38.5	4.5	82	<0.1	45.5	17.5	407	3.95	10.1	0.7	0.7	2.1	23	<0.1	0.2	0.1	125	0.29	0.045
1075769	Soil	0.7	52.9	5.7	94	<0.1	52.0	20.8	602	4.31	10.5	0.6	167.7	2.2	25	<0.1	0.2	0.1	132	0.29	0.031
1075770	Soil	0.6	45.1	4.4	85	<0.1	48.1	16.7	463	3.67	8.8	0.7	11.1	2.1	24	<0.1	0.2	<0.1	116	0.31	0.044
1075771	Soil	0.6	54.4	6.2	92	0.1	57.8	19.0	528	4.22	22.2	0.9	5.8	2.6	44	<0.1	0.2	0.1	130	0.48	0.074
1075753	Soil	0.7	51.0	6.1	87	<0.1	44.4	17.5	665	3.61	11.9	0.7	8.0	2.1	33	0.1	0.3	0.1	92	0.42	0.097
1075752	Soil	1.0	42.4	6.1	74	<0.1	38.3	15.5	532	3.56	11.5	0.6	3.1	1.2	29	<0.1	0.3	0.2	97	0.36	0.081
1075751	Soil	0.9	61.0	6.4	109	0.1	58.9	24.4	618	4.64	11.6	0.7	3.3	2.0	44	<0.1	0.3	0.2	156	0.43	0.070
1076805	Soil	1.3	37.3	6.3	92	<0.1	39.2	17.4	553	3.86	9.2	0.7	2.3	1.4	29	0.1	0.3	0.2	99	0.34	0.078
1076804	Soil	0.9	46.7	5.7	90	0.1	45.4	17.9	552	3.81	54.3	0.7	2.2	2.1	29	<0.1	0.2	0.1	109	0.30	0.082
1076803	Soil	1.0	59.4	6.4	106	0.2	49.4	24.0	637	4.07	239.8	0.9	3.5	2.1	34	0.2	0.4	0.2	115	0.35	0.076
1063042	Soil	1.6	79.1	5.1	119	0.1	85.5	44.2	924	4.39	37.0	0.9	2.8	2.4	34	0.3	0.3	0.2	124	0.36	0.106
1063041	Soil	1.2	61.5	4.8	110	<0.1	62.1	24.9	676	4.10	19.7	0.8	7.8	2.3	31	0.2	0.2	0.1	113	0.40	0.098
1076799	Soil	0.9	55.3	4.8	105	0.1	50.9	21.5	635	3.98	14.5	0.7	<0.5	2.1	34	0.2	0.3	0.1	109	0.42	0.099
1076800	Soil	1.0	57.9	4.8	109	0.1	52.5	22.9	669	4.68	18.0	0.9	1.5	2.7	35	0.2	0.2	0.1	142	0.53	0.095
1076801	Soil	1.4	76.5	8.3	127	0.2	72.0	32.4	952	5.09	57.0	1.1	2.6	2.1	39	0.2	0.4	0.2	131	0.46	0.105
1076802	Soil	0.9	68.1	6.7	115	0.2	56.3	31.5	937	4.48	522.5	0.9	22.8	2.3	54	0.3	0.5	0.7	118	0.55	0.100
1075759	Soil	0.8	50.9	4.2	74	<0.1	47.6	16.4	479	3.17	12.3	0.6	6.9	2.2	24	0.2	0.3	0.5	87	0.37	0.095
1075758	Soil	0.6	42.0	4.3	67	0.1	38.3	13.9	474	2.89	8.0	0.6	5.5	2.4	28	0.2	0.3	0.1	72	0.43	0.102
1075757	Soil	1.1	40.7	7.2	83	<0.1	41.4	18.9	697	3.47	11.4	0.7	3.9	1.1	28	0.1	0.4	0.2	91	0.37	0.079
1075756	Soil	0.9	50.1	6.2	80	0.3	42.9	15.8	599	2.96	14.9	0.7	561.1	2.2	35	0.2	0.3	0.2	78	0.47	0.122
1075755	Soil	1.1	80.3	7.2	104	0.2	55.9	25.3	848	4.49	42.2	1.5	47.5	2.4	79	0.2	0.3	0.2	131	0.53	0.098
1075754	Soil	1.2	61.2	7.3	101	<0.1	52.6	20.5	740	4.06	80.0	0.8	6.7	1.9	29	0.1	0.8	0.2	108	0.36	0.061
1075765	Soil	0.7	44.0	4.4	81	<0.1	50.6	17.3	450	3.60	10.5	0.8	2.1	1.8	23	0.1	0.2	<0.1	110	0.33	0.060



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076744	Soil	5	92	1.27	351	0.175	1	3.44	0.015	0.77	0.2	<0.01	9.3	0.3	<0.05	10	<0.5	<0.2
1075766	Soil	7	102	1.55	352	0.215	<1	3.40	0.019	0.77	0.6	0.01	9.9	0.3	<0.05	10	<0.5	<0.2
1075772	Soil	10	109	1.61	382	0.201	<1	3.32	0.021	0.76	0.2	0.01	9.5	0.4	<0.05	11	<0.5	<0.2
1075773	Soil	9	80	1.19	240	0.198	2	2.84	0.026	0.52	0.4	0.02	7.8	0.2	<0.05	8	<0.5	<0.2
1075775	Soil	10	69	0.99	195	0.154	2	2.71	0.018	0.39	0.2	0.03	6.2	0.2	<0.05	8	<0.5	<0.2
1075774	Soil	9	96	1.54	285	0.176	<1	3.68	0.018	0.81	0.6	0.01	8.9	0.4	<0.05	10	<0.5	<0.2
1075767	Soil	8	48	0.78	123	0.118	<1	1.92	0.016	0.20	0.3	0.01	4.3	0.2	<0.05	6	<0.5	<0.2
1075768	Soil	9	104	1.41	286	0.229	2	2.86	0.024	0.53	0.3	<0.01	8.1	0.2	<0.05	9	<0.5	<0.2
1075769	Soil	9	93	1.38	286	0.221	<1	3.17	0.023	0.48	0.2	<0.01	9.1	0.3	<0.05	10	<0.5	<0.2
1075770	Soil	8	87	1.25	256	0.220	<1	2.67	0.023	0.57	0.3	<0.01	7.8	0.3	<0.05	9	<0.5	<0.2
1075771	Soil	10	113	1.68	368	0.200	<1	3.52	0.021	0.77	0.2	<0.01	9.5	0.4	<0.05	11	<0.5	<0.2
1075753	Soil	9	59	1.04	118	0.131	<1	2.54	0.024	0.28	0.2	0.01	5.7	0.2	<0.05	7	<0.5	<0.2
1075752	Soil	8	62	0.88	163	0.117	2	2.37	0.017	0.23	0.6	0.04	5.3	0.2	0.06	7	<0.5	<0.2
1075751	Soil	8	128	1.58	309	0.192	<1	3.45	0.056	0.64	0.1	<0.01	10.0	0.3	0.10	11	<0.5	<0.2
1076805	Soil	8	68	1.08	201	0.137	1	2.63	0.020	0.27	<0.1	0.02	6.0	0.2	0.10	8	<0.5	<0.2
1076804	Soil	8	79	1.14	218	0.144	2	2.79	0.023	0.44	<0.1	0.02	6.9	0.2	<0.05	8	<0.5	<0.2
1076803	Soil	10	87	1.23	273	0.144	<1	2.80	0.026	0.45	<0.1	0.02	7.3	0.3	0.06	9	0.6	<0.2
1063042	Soil	9	87	1.40	327	0.166	<1	3.09	0.032	0.65	0.2	0.02	8.6	0.3	0.11	10	<0.5	<0.2
1063041	Soil	9	80	1.20	275	0.161	<1	2.74	0.027	0.55	<0.1	<0.01	8.2	0.3	0.07	9	<0.5	<0.2
1076799	Soil	8	79	1.21	282	0.159	<1	2.76	0.027	0.56	0.1	<0.01	8.4	0.2	0.06	9	<0.5	<0.2
1076800	Soil	11	119	1.76	439	0.221	<1	3.18	0.035	0.72	<0.1	0.03	8.0	0.3	0.12	11	<0.5	<0.2
1076801	Soil	11	105	1.49	312	0.152	2	3.39	0.034	0.49	0.1	0.05	8.6	0.3	0.12	11	<0.5	<0.2
1076802	Soil	9	93	1.48	270	0.149	<1	3.10	0.027	0.59	0.2	0.02	8.5	0.3	0.06	10	<0.5	<0.2
1075759	Soil	8	55	0.78	101	0.125	<1	1.89	0.020	0.21	0.6	0.02	4.8	0.1	<0.05	6	<0.5	<0.2
1075758	Soil	10	45	0.69	96	0.119	1	1.76	0.021	0.20	0.3	0.02	4.2	0.1	<0.05	5	<0.5	<0.2
1075757	Soil	7	61	0.86	139	0.120	1	2.25	0.018	0.25	0.2	0.03	5.0	0.1	0.06	7	<0.5	<0.2
1075756	Soil	10	49	0.78	101	0.120	<1	1.95	0.019	0.22	0.5	0.01	4.2	0.1	<0.05	6	<0.5	<0.2
1075755	Soil	9	77	1.51	219	0.153	<1	3.32	0.024	0.49	1.0	0.02	7.9	0.2	<0.05	9	<0.5	<0.2
1075754	Soil	9	67	1.02	169	0.145	2	2.80	0.023	0.29	0.5	0.01	6.5	0.2	<0.05	8	<0.5	<0.2
1075765	Soil	7	86	1.14	175	0.193	1	2.42	0.018	0.40	0.6	<0.01	6.4	0.2	<0.05	8	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1075764	Soil	0.8	38.6	4.9	72	<0.1	50.5	18.1	463	3.04	11.9	0.6	2.4	2.1	27	0.2	0.3	<0.1	80	0.37	0.064
1075763	Soil	1.1	57.2	5.3	89	<0.1	44.9	16.8	541	3.41	20.7	0.7	7.6	2.1	47	<0.1	0.3	0.1	102	0.46	0.109
1075762	Soil	0.8	67.2	6.7	97	<0.1	52.9	24.1	635	3.78	99.9	0.8	21.5	1.9	35	0.2	0.4	0.1	119	0.46	0.108
1075761	Soil	0.8	43.7	5.3	74	<0.1	44.9	16.1	539	3.21	13.6	0.6	3.8	1.8	24	0.1	0.3	0.1	90	0.32	0.038
1075760	Soil	0.9	43.4	4.9	72	<0.1	38.6	15.0	481	3.07	32.4	0.7	7.0	2.2	29	0.2	0.4	0.1	81	0.44	0.113
1083612	Soil	0.8	74.9	4.9	47	<0.1	78.1	21.6	417	3.50	12.9	0.5	3.6	1.6	21	0.2	0.2	<0.1	113	0.33	0.098
1083606	Soil	1.0	63.6	5.2	53	<0.1	46.9	17.3	400	3.70	11.8	0.4	21.0	1.3	21	0.1	0.3	0.2	106	0.26	0.070
1083605	Soil	1.1	57.4	5.2	68	<0.1	50.5	19.2	427	3.62	12.7	0.6	4.1	1.5	28	0.2	0.3	0.2	104	0.35	0.116
1083616	Soil	0.8	46.8	4.8	44	<0.1	39.1	14.8	389	3.55	6.3	0.4	2.1	1.3	20	<0.1	0.3	0.1	101	0.27	0.056
1083609	Soil	0.9	47.8	5.0	50	<0.1	44.7	16.1	469	3.72	15.2	0.5	2.9	1.8	26	0.2	0.3	0.2	102	0.34	0.086
1083601	Soil	1.0	75.1	5.6	70	0.1	48.2	20.9	442	4.73	8.8	0.5	<0.5	1.3	25	0.1	0.3	0.2	123	0.23	0.076
1083610	Soil	0.8	68.8	4.6	45	<0.1	52.8	18.8	409	4.02	7.5	0.5	1.6	1.5	25	0.1	0.3	0.1	104	0.31	0.076
1083602	Soil	1.1	53.5	6.3	56	<0.1	39.8	17.0	405	3.93	13.6	0.5	3.1	1.4	31	0.2	0.4	0.2	104	0.32	0.104
1083604	Soil	1.1	73.8	5.4	75	0.1	58.7	21.7	390	3.99	17.9	0.6	39.8	1.7	32	0.2	0.3	0.2	110	0.35	0.114
1083603	Soil	0.9	59.8	4.8	69	<0.1	52.0	17.5	299	3.53	9.5	0.6	8.4	1.8	28	<0.1	0.3	0.2	97	0.41	0.146
1083608	Soil	1.0	65.8	5.9	54	0.1	58.6	20.0	505	3.76	58.6	0.5	18.0	1.6	27	0.1	0.3	0.2	101	0.40	0.137
1083611	Soil	1.1	45.7	6.2	50	<0.1	41.0	16.0	493	4.01	8.3	0.5	4.0	1.2	22	<0.1	0.4	0.2	120	0.26	0.057
1083615	Soil	0.8	69.7	5.2	49	0.1	71.3	23.5	449	3.67	20.8	0.5	10.3	1.9	24	0.1	0.3	0.1	99	0.31	0.079
1083620	Soil	1.2	90.7	5.8	57	0.1	77.9	27.2	530	3.98	11.1	0.6	1.6	1.9	28	0.3	0.3	0.1	108	0.43	0.145
1083622	Soil	1.2	73.8	7.5	63	0.2	63.9	23.7	625	4.46	16.7	0.7	9.1	1.9	31	0.2	0.8	0.2	114	0.40	0.126
1083617	Soil	1.0	51.9	5.7	51	<0.1	41.7	15.8	428	3.78	8.2	0.5	2.1	1.4	24	<0.1	0.4	0.2	107	0.32	0.070
1083627	Soil	0.8	49.3	4.6	47	<0.1	43.0	15.7	361	3.61	9.3	0.5	2.4	1.7	23	0.1	0.3	0.1	101	0.34	0.090
1083613	Soil	0.8	52.5	4.3	45	<0.1	41.8	15.7	397	3.66	7.3	0.6	7.1	1.8	25	0.1	0.3	0.1	104	0.35	0.069
1083619	Soil	0.7	67.2	4.6	45	<0.1	42.5	16.7	385	3.58	8.9	0.4	3.7	1.7	27	0.1	0.3	0.1	96	0.34	0.078
1083618	Soil	1.0	57.1	5.8	48	<0.1	37.9	15.8	439	3.76	6.5	0.5	2.0	1.3	26	0.2	0.3	0.2	101	0.34	0.103
1083614	Soil	0.9	82.2	5.1	49	<0.1	62.2	20.3	423	3.83	11.8	0.6	3.0	1.7	22	0.1	0.2	0.2	110	0.31	0.086
1083626	Soil	0.9	39.8	5.5	49	<0.1	41.3	15.3	439	3.65	8.4	0.6	36.8	1.7	26	0.2	0.4	0.2	106	0.39	0.103
1083607	Soil	1.1	82.5	6.0	52	0.2	59.8	24.3	463	3.97	21.7	0.6	4.7	1.5	27	0.2	0.3	0.2	104	0.34	0.106
1083624	Soil	0.9	49.9	5.7	51	<0.1	41.9	16.1	426	3.46	15.4	0.5	4.6	1.9	19	0.3	0.5	0.1	88	0.38	0.144
1083634	Soil	1.4	61.7	7.7	60	<0.1	54.9	22.3	513	4.16	11.0	0.6	2.5	0.9	22	0.1	0.4	0.2	119	0.26	0.081



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075764	Soil	9	50	0.83	122	0.139	1	2.03	0.020	0.22	0.6	0.02	4.6	0.2	<0.05	6	<0.5	<0.2
1075763	Soil	9	64	0.96	134	0.144	1	2.36	0.025	0.31	1.1	<0.01	6.3	0.2	<0.05	7	<0.5	<0.2
1075762	Soil	8	79	1.23	173	0.146	<1	2.72	0.018	0.36	1.1	0.01	6.9	0.2	<0.05	9	<0.5	<0.2
1075761	Soil	8	57	0.80	132	0.149	2	2.22	0.017	0.24	1.2	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
1075760	Soil	10	45	0.72	89	0.103	<1	1.74	0.019	0.14	3.5	0.01	3.8	0.1	<0.05	5	<0.5	<0.2
1083612	Soil	7	63	1.02	192	0.179	<1	2.38	0.018	0.52	0.3	<0.01	6.8	0.2	<0.05	6	<0.5	<0.2
1083606	Soil	5	66	1.05	181	0.151	2	2.29	0.016	0.39	0.3	0.01	6.5	0.2	0.11	7	<0.5	<0.2
1083605	Soil	6	70	1.07	204	0.144	2	2.22	0.021	0.40	0.1	0.03	6.5	0.2	0.13	7	<0.5	<0.2
1083616	Soil	5	56	0.96	156	0.153	2	2.20	0.015	0.35	<0.1	0.02	6.1	0.2	0.06	6	<0.5	<0.2
1083609	Soil	7	59	1.01	165	0.153	1	2.27	0.017	0.34	0.2	0.02	6.5	0.2	0.05	6	<0.5	<0.2
1083601	Soil	5	83	1.33	280	0.182	2	3.05	0.030	0.53	<0.1	0.01	8.5	0.3	0.23	10	0.9	<0.2
1083610	Soil	6	64	1.04	195	0.172	<1	2.34	0.017	0.51	0.1	0.01	7.6	0.3	<0.05	6	0.5	<0.2
1083602	Soil	6	65	1.03	226	0.144	<1	2.28	0.020	0.39	0.2	0.01	6.6	0.2	0.09	7	0.5	<0.2
1083604	Soil	7	72	1.17	195	0.166	2	2.35	0.026	0.46	0.2	0.03	7.2	0.2	0.11	8	0.8	<0.2
1083603	Soil	6	62	1.02	192	0.149	1	2.02	0.025	0.46	0.2	<0.01	6.7	0.2	0.08	7	<0.5	<0.2
1083608	Soil	6	57	0.98	165	0.143	2	2.25	0.017	0.32	0.2	0.01	5.9	0.2	0.08	6	<0.5	<0.2
1083611	Soil	6	71	1.15	163	0.170	3	2.65	0.016	0.37	0.1	0.02	7.2	0.2	0.09	7	<0.5	<0.2
1083615	Soil	7	56	0.99	147	0.163	1	2.37	0.016	0.35	0.1	0.01	6.2	0.2	0.06	6	<0.5	<0.2
1083620	Soil	7	57	1.01	139	0.152	1	2.21	0.016	0.35	0.1	0.03	6.8	0.2	0.06	6	0.5	<0.2
1083622	Soil	7	64	1.07	170	0.143	1	2.49	0.015	0.33	0.1	0.03	6.9	0.2	0.06	7	<0.5	<0.2
1083617	Soil	6	60	1.00	166	0.156	2	2.23	0.017	0.32	0.1	0.02	6.3	0.2	0.08	6	0.5	<0.2
1083627	Soil	7	56	0.89	135	0.156	1	2.02	0.014	0.31	0.1	0.01	5.8	0.2	<0.05	6	<0.5	<0.2
1083613	Soil	7	60	0.98	167	0.171	2	2.14	0.018	0.33	0.1	0.02	6.2	0.2	0.08	6	0.6	<0.2
1083619	Soil	7	53	0.93	161	0.149	1	2.02	0.022	0.38	0.1	<0.01	5.8	0.2	0.07	6	<0.5	<0.2
1083618	Soil	6	58	0.98	177	0.152	2	2.16	0.017	0.34	0.1	0.02	6.2	0.2	0.06	7	0.6	<0.2
1083614	Soil	6	64	1.04	201	0.183	1	2.49	0.015	0.45	0.1	0.02	7.8	0.3	<0.05	6	<0.5	<0.2
1083626	Soil	7	58	0.91	180	0.147	<1	2.05	0.015	0.28	0.2	0.02	5.6	0.2	<0.05	6	<0.5	<0.2
1083607	Soil	7	60	0.95	177	0.141	1	2.21	0.019	0.33	0.3	0.03	6.0	0.2	0.08	6	0.8	<0.2
1083624	Soil	7	48	0.82	127	0.095	<1	1.82	0.010	0.25	0.1	<0.01	5.1	0.1	<0.05	5	<0.5	<0.2
1083634	Soil	5	68	1.03	195	0.158	1	2.68	0.012	0.32	<0.1	0.03	6.5	0.3	0.07	8	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1083629	Soil	0.6	45.6	3.7	38	<0.1	38.4	13.6	317	3.27	6.1	0.5	2.4	1.6	25	0.2	0.2	0.1	98	0.40	0.100
1083621	Soil	1.0	88.1	6.1	53	0.1	75.5	27.2	552	4.19	16.1	0.6	4.5	1.6	26	0.2	0.6	0.2	113	0.39	0.128
1083623	Soil	1.0	73.5	7.1	57	0.1	64.1	22.3	551	4.04	33.8	0.6	9.5	1.9	25	0.3	0.7	0.2	104	0.38	0.130
1083631	Soil	0.8	37.6	5.1	46	<0.1	36.3	13.1	345	3.44	6.9	0.5	2.9	1.4	22	0.1	0.3	0.1	100	0.26	0.051
1083628	Soil	0.8	46.2	4.7	46	0.1	39.5	15.2	375	3.56	6.8	0.6	2.8	1.9	24	0.1	0.2	0.1	105	0.37	0.100
1083630	Soil	0.8	74.2	4.7	41	<0.1	65.1	19.1	386	3.76	10.9	0.4	3.0	1.3	26	0.1	0.2	0.1	110	0.35	0.108
1083625	Soil	0.7	50.1	5.3	47	<0.1	51.1	16.6	378	3.51	13.3	0.5	7.2	1.6	21	<0.1	0.4	0.1	94	0.32	0.105
1083633	Soil	1.4	62.3	8.0	60	<0.1	59.3	24.9	532	4.22	11.6	0.5	1.4	1.0	22	0.1	0.4	0.2	124	0.26	0.072
1083632	Soil	0.9	92.4	5.1	69	0.1	76.0	24.5	385	4.29	10.7	0.4	<0.5	1.4	32	0.1	0.2	0.2	120	0.29	0.089
1064307	Soil	1.1	129.1	5.2	64	<0.1	94.5	37.0	513	5.15	24.0	0.5	4.8	1.3	38	0.2	0.3	0.2	119	0.29	0.067
1064303	Soil	0.9	67.1	8.2	67	<0.1	140.5	32.0	631	4.39	53.2	0.5	11.0	1.1	33	<0.1	0.3	0.2	124	0.37	0.070
1064314	Soil	1.0	42.4	6.3	61	<0.1	42.3	15.7	440	3.74	14.0	0.6	26.6	0.8	22	0.2	0.3	0.2	95	0.23	0.062
1064305	Soil	1.5	170.7	9.0	79	0.3	197.1	68.5	980	7.08	200.0	0.7	41.2	1.3	55	0.5	1.3	0.3	121	0.47	0.144
1064306	Soil	1.2	56.9	7.0	62	<0.1	61.5	21.3	573	4.18	14.6	0.5	5.3	1.0	26	0.1	0.5	0.2	101	0.24	0.067
1064313	Soil	1.3	61.0	7.9	69	0.1	60.1	21.5	530	4.22	21.7	0.6	2.1	1.2	27	0.1	0.4	0.2	106	0.26	0.057
1064304	Soil	0.6	57.6	4.2	50	0.1	51.2	17.1	407	3.37	15.3	0.7	3.7	2.2	28	0.2	0.3	0.1	83	0.37	0.127
1064308	Soil	0.9	64.9	6.4	81	<0.1	69.1	25.9	515	4.57	43.5	0.5	14.1	1.2	32	<0.1	0.4	0.2	121	0.25	0.061
1064310	Soil	0.5	70.8	7.0	23	0.2	72.6	19.1	480	4.15	22.1	0.4	2.7	1.3	33	<0.1	0.2	0.2	104	0.42	0.099
1064309	Soil	0.8	66.9	7.4	108	<0.1	80.6	25.8	479	5.01	44.5	0.9	2.3	2.1	32	<0.1	0.4	0.2	146	0.28	0.084
1064312	Soil	0.8	77.3	4.7	51	<0.1	66.5	21.2	424	3.69	19.2	0.4	4.9	1.5	22	0.2	0.3	0.2	95	0.28	0.091
1064311	Soil	0.9	88.1	5.6	40	<0.1	113.5	28.9	644	4.71	19.4	0.4	4.5	1.1	22	<0.1	0.2	0.2	114	0.24	0.085
1064322	Soil	0.9	55.9	6.5	55	0.2	48.9	15.6	413	3.63	15.0	0.4	0.9	1.3	53	0.1	0.2	0.2	84	0.38	0.104
1064316	Soil	0.9	67.3	5.5	58	0.1	56.9	21.1	444	3.96	21.7	0.6	6.4	1.2	26	0.2	0.3	0.2	97	0.26	0.080
1064319	Soil	1.0	48.3	5.6	47	0.3	43.6	16.0	372	3.45	22.0	0.5	5.9	1.1	48	0.2	0.2	0.2	86	0.39	0.074
1064321	Soil	1.0	75.1	5.5	77	0.2	66.8	23.3	518	4.52	17.3	0.5	2.9	2.7	35	0.1	0.2	0.2	100	0.33	0.098
1064317	Soil	0.9	41.2	4.9	39	0.2	42.0	14.9	419	3.58	13.8	0.5	2.1	1.1	29	0.2	0.2	0.2	98	0.36	0.084
1064315	Soil	1.2	85.8	6.3	52	0.2	112.5	33.0	789	4.78	38.0	0.5	2.5	1.0	25	0.2	0.3	0.2	101	0.22	0.085
1064324	Soil	1.0	58.5	7.9	73	0.2	60.5	20.5	564	4.27	37.9	0.7	4.1	1.4	39	0.1	0.4	0.2	101	0.39	0.091
1064330	Soil	1.4	27.4	4.3	60	0.5	29.5	12.9	536	3.01	11.5	0.9	1.0	0.7	31	0.2	0.2	0.2	72	0.30	0.100
1064326	Soil	1.6	49.1	6.0	84	0.4	46.8	15.2	418	3.96	18.4	0.8	2.4	1.8	37	0.2	0.3	0.2	87	0.38	0.101



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1083629	Soil	7	55	0.93	183	0.170	<1	1.96	0.015	0.44	0.1	0.01	6.6	0.2	<0.05	5	<0.5	<0.2
1083621	Soil	6	61	1.07	187	0.168	2	2.43	0.014	0.42	0.1	0.01	7.2	0.2	<0.05	6	<0.5	<0.2
1083623	Soil	6	58	0.99	152	0.143	<1	2.28	0.013	0.33	0.1	0.02	6.5	0.2	<0.05	6	<0.5	<0.2
1083631	Soil	6	56	0.90	161	0.162	<1	2.21	0.013	0.30	0.1	0.02	5.6	0.2	<0.05	7	<0.5	<0.2
1083628	Soil	7	60	0.95	206	0.176	<1	2.26	0.014	0.38	0.1	0.02	6.7	0.2	<0.05	7	<0.5	<0.2
1083630	Soil	5	66	1.08	240	0.189	<1	2.42	0.012	0.72	0.2	0.01	8.2	0.3	<0.05	7	<0.5	<0.2
1083625	Soil	6	53	0.87	132	0.131	<1	1.96	0.012	0.25	0.1	<0.01	5.1	0.2	<0.05	6	<0.5	<0.2
1083633	Soil	5	73	1.10	209	0.170	1	2.75	0.013	0.34	0.1	0.03	7.0	0.3	0.06	8	<0.5	<0.2
1083632	Soil	5	76	1.19	270	0.206	<1	3.01	0.016	0.74	0.1	<0.01	8.2	0.3	<0.05	9	<0.5	<0.2
1064307	Soil	6	74	1.22	247	0.169	<1	2.86	0.023	0.54	0.2	0.01	7.1	0.3	0.12	9	0.7	<0.2
1064303	Soil	6	170	2.08	194	0.191	1	2.74	0.024	0.26	<0.1	0.01	6.6	0.3	0.06	9	<0.5	<0.2
1064314	Soil	6	63	0.99	125	0.107	2	2.41	0.010	0.34	0.2	0.02	4.5	0.2	<0.05	8	<0.5	<0.2
1064305	Soil	6	78	1.34	268	0.138	2	2.88	0.023	0.76	0.5	0.03	8.7	0.3	<0.05	9	0.6	<0.2
1064306	Soil	7	61	0.99	151	0.119	2	2.15	0.015	0.31	0.2	0.01	4.8	0.2	0.06	8	0.5	<0.2
1064313	Soil	8	67	1.10	176	0.124	2	2.74	0.012	0.29	0.2	<0.01	5.4	0.3	<0.05	8	<0.5	<0.2
1064304	Soil	9	46	0.77	109	0.106	2	1.64	0.013	0.23	0.7	0.02	4.6	0.2	<0.05	5	<0.5	<0.2
1064308	Soil	6	84	1.28	260	0.139	<1	2.65	0.012	0.57	7.8	0.02	7.4	0.3	<0.05	10	<0.5	<0.2
1064310	Soil	5	72	1.34	249	0.107	<1	2.97	0.009	0.85	<0.1	<0.01	7.3	0.4	<0.05	7	<0.5	<0.2
1064309	Soil	9	119	1.70	372	0.170	<1	3.23	0.014	0.85	0.3	0.01	10.5	0.4	<0.05	12	0.5	<0.2
1064312	Soil	6	60	1.04	151	0.125	<1	2.29	0.011	0.47	0.2	0.02	5.5	0.3	<0.05	7	<0.5	<0.2
1064311	Soil	5	72	1.25	206	0.142	<1	3.00	0.009	0.52	0.2	0.02	7.1	0.4	<0.05	8	0.6	<0.2
1064322	Soil	6	56	0.99	137	0.084	<1	2.42	0.011	0.43	<0.1	0.01	4.6	0.3	<0.05	7	<0.5	<0.2
1064316	Soil	8	64	1.07	163	0.110	2	2.42	0.011	0.41	0.2	<0.01	5.3	0.3	<0.05	8	<0.5	<0.2
1064319	Soil	6	55	0.93	167	0.103	<1	2.22	0.010	0.44	<0.1	0.03	4.5	0.3	<0.05	7	1.0	<0.2
1064321	Soil	8	67	1.22	134	0.130	1	2.78	0.010	0.52	0.1	0.01	5.7	0.4	<0.05	8	<0.5	<0.2
1064317	Soil	6	61	1.02	169	0.118	1	2.22	0.010	0.41	0.1	0.01	5.6	0.3	<0.05	7	0.5	<0.2
1064315	Soil	6	62	1.07	165	0.115	1	2.65	0.009	0.45	0.3	0.01	5.7	0.3	<0.05	7	0.7	<0.2
1064324	Soil	9	76	1.24	169	0.098	<1	2.83	0.015	0.29	<0.1	0.02	5.6	0.3	<0.05	8	0.8	<0.2
1064330	Soil	7	47	0.72	120	0.059	1	1.93	0.015	0.17	<0.1	0.04	3.8	0.2	0.06	6	0.9	<0.2
1064326	Soil	9	60	0.99	216	0.075	<1	2.66	0.011	0.21	<0.1	0.03	4.6	0.2	<0.05	8	0.9	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1064318	Soil	1.1	60.0	6.9	61	0.2	56.3	19.1	428	3.94	32.2	0.5	4.2	1.0	64	<0.1	0.2	0.2	105	0.39	0.074
1064328	Soil	0.7	30.5	4.4	72	0.2	33.5	11.9	372	3.11	8.0	0.6	2.7	1.7	33	<0.1	0.2	0.2	70	0.36	0.079
1064320	Soil	1.1	61.9	6.2	55	0.2	48.4	15.1	345	3.77	11.5	0.5	2.3	1.3	32	0.3	0.2	0.2	90	0.25	0.078
1064325	Soil	0.7	26.5	4.9	62	0.2	29.6	9.0	264	2.61	10.0	0.5	1.8	1.0	27	0.2	0.2	0.2	63	0.28	0.062
1064323	Soil	1.1	59.8	6.4	77	0.3	57.9	19.5	590	4.23	17.6	0.5	6.5	1.8	35	0.1	0.2	0.2	83	0.34	0.107
1064329	Soil	0.9	32.6	5.1	76	0.4	36.9	11.6	367	3.55	16.3	0.7	2.4	1.6	35	<0.1	0.2	0.2	84	0.37	0.106
1064327	Soil	0.6	35.4	4.7	75	0.3	39.5	11.5	331	3.25	8.8	0.6	2.8	2.0	35	<0.1	0.2	0.2	72	0.39	0.101



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064318	Soil	7	69	1.14	251	0.091	<1	2.89	0.016	0.40	<0.1	0.02	5.6	0.3	<0.05	8	0.7	<0.2
1064328	Soil	8	53	0.96	118	0.080	1	2.01	0.013	0.15	<0.1	0.01	4.1	0.2	<0.05	7	<0.5	<0.2
1064320	Soil	6	51	0.89	111	0.115	<1	2.09	0.012	0.35	<0.1	0.03	4.2	0.3	<0.05	8	<0.5	<0.2
1064325	Soil	8	46	0.76	111	0.084	<1	1.72	0.009	0.19	<0.1	0.03	3.2	0.2	<0.05	7	<0.5	<0.2
1064323	Soil	8	58	1.09	122	0.088	<1	2.58	0.011	0.36	<0.1	0.02	4.3	0.3	<0.05	8	0.9	<0.2
1064329	Soil	8	61	1.05	121	0.085	<1	2.39	0.018	0.23	<0.1	0.04	5.1	0.3	<0.05	8	0.7	<0.2
1064327	Soil	9	57	1.02	116	0.088	1	2.27	0.012	0.27	<0.1	0.04	4.6	0.2	0.07	7	<0.5	<0.2



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Soil Geochemistry

Client: **Ryan Gold Corp.**
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Project: SAP
Report Date: August 31, 2011

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QUALITY CONTROL REPORT

WHI11000962.1

Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1032858	Soil	0.9	53.9	4.7	44	0.2	44.6	12.7	328	3.24	11.9	0.4	2.1	1.1	31	0.3	0.2	0.1	91	0.29	0.058
REP 1032858	QC	1.1	54.0	4.6	44	0.2	46.3	13.0	322	3.13	11.9	0.4	1.8	1.0	32	0.3	0.2	0.1	91	0.29	0.065
1065164	Soil	1.1	60.9	7.1	72	0.2	43.7	16.0	426	4.13	17.1	0.7	6.0	1.7	33	<0.1	0.3	0.2	111	0.18	0.096
REP 1065164	QC	1.0	58.5	7.3	72	0.2	42.6	15.7	425	4.06	17.0	0.7	4.4	1.7	32	0.1	0.2	0.2	112	0.19	0.096
1065165	Soil	0.9	48.4	7.3	73	<0.1	44.0	15.5	436	3.90	14.8	0.7	3.3	1.9	31	0.1	0.4	0.2	96	0.20	0.080
REP 1065165	QC	0.8	47.7	7.0	71	<0.1	41.6	15.2	428	3.81	14.7	0.8	1.4	1.9	31	0.2	0.4	0.2	96	0.20	0.081
1058833	Soil	0.7	33.6	3.7	60	0.2	31.0	12.4	346	3.02	30.4	0.7	5.2	1.3	36	<0.1	0.2	0.2	85	0.39	0.084
REP 1058833	QC	0.7	32.9	3.8	61	0.2	30.5	12.3	331	2.86	29.5	0.7	6.2	1.3	36	<0.1	0.2	0.2	85	0.37	0.080
1064374	Soil	1.5	62.6	8.9	43	<0.1	41.1	12.6	329	4.00	29.5	0.6	8.3	0.9	20	0.2	0.5	0.3	110	0.14	0.054
REP 1064374	QC	1.6	62.8	8.7	44	<0.1	40.4	12.6	327	4.01	29.4	0.5	39.4	0.9	20	0.1	0.5	0.2	109	0.14	0.050
1064355	Soil	1.0	92.9	5.8	55	<0.1	82.5	26.4	484	3.54	17.6	0.6	8.6	1.6	28	0.2	0.5	0.2	82	0.33	0.114
REP 1064355	QC	1.1	90.9	5.8	54	<0.1	84.0	27.2	496	3.65	17.0	0.5	4.9	1.5	28	0.2	0.4	0.1	85	0.33	0.112
1064377	Soil	1.1	170.4	7.1	22	<0.1	111.6	32.2	501	4.63	32.6	0.4	3.7	0.9	43	0.1	0.2	0.2	123	0.48	0.111
REP 1064377	QC	1.1	172.2	7.0	22	<0.1	114.1	33.3	501	4.65	32.5	0.4	4.1	0.9	41	<0.1	0.2	0.2	122	0.47	0.109
1077766	Soil	1.0	63.9	5.5	111	0.2	59.1	23.3	472	4.22	69.8	0.9	4.2	2.9	39	0.1	0.3	0.2	111	0.33	0.098
REP 1077766	QC	0.9	61.3	5.4	108	0.2	57.7	23.9	469	4.16	68.5	0.9	3.1	2.8	38	0.2	0.3	0.2	109	0.32	0.097
1077933	Soil	1.0	79.9	4.6	107	0.1	79.5	31.1	466	4.80	187.9	0.6	2.8	1.6	54	0.4	0.3	0.2	111	0.32	0.075
REP 1077933	QC	1.0	77.5	4.5	107	0.1	77.5	30.7	461	4.63	187.1	0.6	0.7	1.6	53	0.3	0.3	0.2	106	0.31	0.071
1076738	Soil	1.2	52.1	7.0	59	0.1	44.5	17.2	543	4.71	35.8	0.6	1.5	0.9	29	<0.1	0.3	0.2	124	0.26	0.088
REP 1076738	QC	1.1	50.8	7.6	56	0.1	44.0	17.4	525	4.65	34.9	0.6	3.5	0.9	28	<0.1	0.4	0.2	120	0.26	0.090
1076805	Soil	1.3	37.3	6.3	92	<0.1	39.2	17.4	553	3.86	9.2	0.7	2.3	1.4	29	0.1	0.3	0.2	99	0.34	0.078
REP 1076805	QC	1.4	38.2	6.3	97	<0.1	37.9	17.1	549	3.89	9.1	0.7	1.2	1.4	28	0.1	0.3	0.1	101	0.35	0.083
1075765	Soil	0.7	44.0	4.4	81	<0.1	50.6	17.3	450	3.60	10.5	0.8	2.1	1.8	23	0.1	0.2	<0.1	110	0.33	0.060
REP 1075765	QC	0.8	45.2	4.5	80	<0.1	51.7	17.3	447	3.59	10.8	0.8	5.4	1.8	23	0.2	0.2	<0.1	109	0.35	0.062
1083601	Soil	1.0	75.1	5.6	70	0.1	48.2	20.9	442	4.73	8.8	0.5	<0.5	1.3	25	0.1	0.3	0.2	123	0.23	0.076
REP 1083601	QC	1.1	73.4	5.6	69	0.1	47.4	20.6	439	4.69	9.0	0.5	5.0	1.3	25	0.1	0.3	0.2	122	0.22	0.077
1064312	Soil	0.8	77.3	4.7	51	<0.1	66.5	21.2	424	3.69	19.2	0.4	4.9	1.5	22	0.2	0.3	0.2	95	0.28	0.091
REP 1064312	QC	0.7	79.1	4.8	52	<0.1	69.1	22.3	428	3.83	20.2	0.5	17.3	1.6	23	0.1	0.3	0.2	99	0.29	0.089



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Project: SAP
Report Date: August 31, 2011

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QUALITY CONTROL REPORT

WHI11000962.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
1032858	Soil	5	56	0.89	179	0.125	<1	1.99	0.013	0.52	0.3	0.04	5.4	0.2	0.06	6	<0.5
REP 1032858	QC	5	58	0.95	181	0.123	1	2.04	0.013	0.53	0.2	0.03	5.3	0.3	0.06	6	<0.5
1065164	Soil	9	78	1.15	223	0.134	<1	3.07	0.013	0.39	0.2	0.04	6.6	0.3	0.06	9	<0.5
REP 1065164	QC	9	76	1.18	220	0.130	<1	3.04	0.013	0.40	0.1	0.04	6.5	0.3	0.05	9	<0.5
1065165	Soil	9	69	1.12	214	0.135	<1	2.88	0.015	0.40	0.1	0.02	5.8	0.2	<0.05	8	<0.5
REP 1065165	QC	9	66	1.08	215	0.132	<1	2.89	0.014	0.39	0.1	0.02	5.7	0.3	<0.05	8	<0.5
1058833	Soil	6	57	0.84	248	0.162	2	2.07	0.024	0.49	0.2	0.03	5.2	0.2	<0.05	6	<0.5
REP 1058833	QC	6	56	0.83	249	0.158	3	2.06	0.022	0.48	0.3	0.03	5.2	0.2	<0.05	6	<0.5
1064374	Soil	6	58	0.89	109	0.142	2	2.28	0.012	0.34	0.1	0.02	4.9	0.2	0.06	7	<0.5
REP 1064374	QC	5	57	0.90	107	0.141	1	2.31	0.012	0.34	0.2	0.03	4.7	0.2	0.07	7	<0.5
1064355	Soil	7	46	0.86	104	0.112	2	1.90	0.014	0.23	0.1	0.01	4.3	0.2	<0.05	5	0.6
REP 1064355	QC	8	47	0.83	105	0.111	2	1.88	0.014	0.22	0.1	0.02	4.3	0.2	<0.05	6	0.6
1064377	Soil	4	73	1.30	291	0.160	<1	3.14	0.016	0.82	0.2	0.01	7.8	0.3	<0.05	7	1.0
REP 1064377	QC	5	72	1.26	280	0.158	<1	3.16	0.016	0.82	0.2	0.01	7.9	0.4	<0.05	7	0.9
1077766	Soil	11	84	1.36	267	0.155	<1	2.90	0.018	0.61	0.2	0.01	7.7	0.3	0.08	10	<0.5
REP 1077766	QC	11	82	1.36	263	0.152	<1	2.80	0.017	0.63	0.1	0.01	7.6	0.3	0.08	9	<0.5
1077933	Soil	7	76	1.26	280	0.136	2	2.80	0.023	0.73	0.3	0.02	7.3	0.3	0.12	9	0.7
REP 1077933	QC	6	75	1.27	273	0.130	3	2.77	0.023	0.71	0.3	0.01	7.1	0.4	0.11	9	1.1
1076738	Soil	6	73	1.13	278	0.141	<1	2.85	0.015	0.51	0.1	0.03	7.7	0.3	0.08	10	0.9
REP 1076738	QC	6	70	1.12	275	0.139	<1	2.72	0.015	0.50	0.1	0.02	7.7	0.3	0.08	9	<0.5
1076805	Soil	8	68	1.08	201	0.137	1	2.63	0.020	0.27	<0.1	0.02	6.0	0.2	0.10	8	<0.5
REP 1076805	QC	8	68	1.07	205	0.138	<1	2.56	0.021	0.28	0.2	0.03	6.3	0.2	0.12	9	<0.5
1075765	Soil	7	86	1.14	175	0.193	1	2.42	0.018	0.40	0.6	<0.01	6.4	0.2	<0.05	8	<0.5
REP 1075765	QC	7	85	1.14	179	0.187	1	2.46	0.019	0.41	0.4	0.01	6.6	0.2	<0.05	8	<0.5
1083601	Soil	5	83	1.33	280	0.182	2	3.05	0.030	0.53	<0.1	0.01	8.5	0.3	0.23	10	0.9
REP 1083601	QC	6	81	1.30	277	0.186	2	2.96	0.029	0.51	0.1	0.02	8.4	0.3	0.22	10	<0.5
1064312	Soil	6	60	1.04	151	0.125	<1	2.29	0.011	0.47	0.2	0.02	5.5	0.3	<0.05	7	<0.5
REP 1064312	QC	7	64	1.07	156	0.131	<1	2.37	0.011	0.49	0.2	<0.01	5.9	0.3	<0.05	7	0.8



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Part 1

QUALITY CONTROL REPORT

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		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
Reference Materials																					
STD DS8	Standard	13.1	112.5	115.4	300	1.8	39.4	7.9	603	2.36	24.6	2.3	111.6	5.8	59	2.3	4.9	5.4	43	0.68	0.083
STD DS8	Standard	13.7	112.2	129.5	327	1.8	40.5	8.0	649	2.77	27.4	2.9	126.8	7.2	73	2.4	6.4	6.9	44	0.75	0.085
STD DS8	Standard	12.9	106.4	123.3	307	1.7	36.7	7.5	594	2.40	24.2	2.8	116.6	6.9	66	2.3	5.7	6.6	41	0.67	0.078
STD DS8	Standard	13.8	114.1	120.4	306	1.8	38.8	8.0	606	2.42	24.9	2.7	117.0	6.7	69	2.3	5.2	6.3	42	0.71	0.077
STD DS8	Standard	12.6	102.6	128.7	299	1.6	34.7	7.2	584	2.37	23.3	2.9	113.7	7.5	71	2.2	6.4	7.3	39	0.64	0.075
STD DS8	Standard	13.4	114.2	123.4	316	1.8	39.8	7.8	623	2.45	24.8	2.8	146.8	6.9	68	2.4	5.6	6.6	43	0.71	0.077
STD DS8	Standard	12.8	101.0	126.5	296	1.7	36.5	7.0	575	2.32	22.9	2.8	106.6	7.1	69	2.1	5.8	7.0	40	0.67	0.076
STD DS8	Standard	13.4	106.8	119.7	306	1.6	38.7	7.1	609	2.40	23.9	2.8	102.7	6.9	67	2.3	4.9	5.3	43	0.71	0.077
STD DS8	Standard	13.5	114.8	126.7	328	1.9	39.7	7.7	620	2.57	25.5	2.5	131.4	6.6	59	2.8	5.7	6.8	44	0.72	0.088
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

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		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
Reference Materials																		
STD DS8	Standard	14	122	0.58	275	0.110	2	0.89	0.085	0.41	3.0	0.18	2.2	5.2	0.20	4	4.7	5.2
STD DS8	Standard	17	120	0.65	319	0.121	3	0.99	0.108	0.42	3.2	0.17	3.0	5.6	0.11	5	5.4	5.2
STD DS8	Standard	16	114	0.60	273	0.120	3	0.87	0.089	0.40	2.9	0.21	2.1	5.4	0.16	5	5.4	4.9
STD DS8	Standard	16	116	0.62	277	0.129	1	0.98	0.105	0.43	3.0	0.18	2.4	5.4	0.14	5	5.2	5.0
STD DS8	Standard	15	109	0.57	275	0.120	2	0.89	0.089	0.40	2.9	0.23	2.2	5.3	0.14	4	5.0	5.0
STD DS8	Standard	13	120	0.61	277	0.127	2	0.92	0.089	0.42	3.1	0.20	2.2	5.3	0.15	5	5.1	5.2
STD DS8	Standard	16	110	0.59	278	0.118	3	0.89	0.090	0.42	2.8	0.19	2.3	5.4	0.15	4	4.4	4.8
STD DS8	Standard	16	114	0.59	274	0.120	3	0.93	0.086	0.42	2.9	0.17	2.3	5.2	0.16	4	3.9	4.9
STD DS8	Standard	13	125	0.66	270	0.105	2	0.95	0.087	0.44	3.4	0.19	2.0	5.8	0.18	5	5.6	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: August 31, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000963.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 268

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	268	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	268	Dry at 60C			VAN
1DX2	268	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000963.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1059110	Soil	0.9	48.8	5.2	95	0.2	65.3	23.6	422	4.25	44.3	0.7	4.0	2.1	30	<0.1	0.2	0.1	146	0.35	0.066
1076734	Soil	1.1	73.6	8.1	109	0.3	84.5	29.9	587	5.14	55.2	0.7	4.3	1.8	48	<0.1	0.4	0.2	158	0.39	0.097
1059106	Soil	1.4	91.5	7.4	97	0.4	77.6	36.0	705	4.58	68.9	0.9	8.6	1.6	53	0.1	0.4	0.2	143	0.49	0.089
1076732	Soil	0.7	60.1	4.6	95	0.1	60.3	22.6	436	4.31	46.2	0.5	8.9	1.7	46	<0.1	0.3	0.1	135	0.32	0.107
1059109	Soil	0.8	42.5	4.2	87	0.1	54.5	18.9	384	3.86	22.4	0.6	1.0	1.4	29	0.1	0.2	0.1	133	0.32	0.065
1059114	Soil	0.8	56.0	4.9	63	0.1	57.8	21.8	450	4.01	21.9	0.5	7.9	1.6	24	0.1	0.2	0.1	122	0.32	0.100
1059113	Soil	1.0	48.6	5.8	86	0.2	52.5	21.3	501	4.04	31.0	0.7	17.2	1.5	34	0.2	0.4	0.2	125	0.39	0.096
1076733	Soil	1.0	65.8	8.1	109	0.2	71.5	25.0	581	5.31	102.1	0.7	9.7	1.8	82	0.1	0.5	0.3	151	0.40	0.101
1059107	Soil	0.9	49.3	5.5	81	0.2	55.4	19.4	415	4.09	33.0	0.5	5.3	1.7	37	0.1	0.3	0.2	124	0.35	0.095
1059108	Soil	0.6	40.4	3.7	59	0.1	46.1	16.0	333	3.24	18.3	0.5	4.8	1.4	30	<0.1	0.2	0.1	102	0.37	0.107
1076735	Soil	0.7	49.8	4.8	105	0.1	63.4	21.0	464	4.66	79.1	0.4	15.2	1.3	34	0.1	0.3	0.2	146	0.35	0.109
1059111	Soil	1.0	66.1	8.6	96	0.2	82.5	26.6	532	4.89	90.5	1.1	7.6	3.6	39	<0.1	0.3	0.2	153	0.42	0.079
1059118	Soil	0.9	54.3	5.9	69	0.2	53.7	19.4	446	4.27	26.8	0.6	5.7	1.5	29	<0.1	0.2	0.2	133	0.32	0.092
1059120	Soil	1.6	47.9	7.4	65	0.2	50.7	19.0	428	4.49	24.8	0.5	26.3	1.7	30	0.2	0.2	0.2	130	0.30	0.061
1059124	Soil	0.9	60.3	5.3	60	0.3	51.9	19.5	436	4.17	16.1	0.6	7.1	1.5	32	0.1	0.1	0.2	122	0.37	0.094
1059121	Soil	1.1	69.4	5.0	73	0.2	62.2	22.1	461	4.87	24.9	0.4	7.0	1.3	31	0.1	0.2	0.2	137	0.39	0.119
1059112	Soil	0.9	63.3	8.0	97	0.2	80.1	26.2	540	4.81	80.5	1.1	10.9	3.4	40	0.1	0.3	0.2	156	0.42	0.081
1059116	Soil	0.9	58.9	5.3	89	0.1	65.5	19.5	373	4.37	16.1	0.6	4.6	1.2	34	0.2	0.2	0.2	139	0.27	0.083
1059122	Soil	1.1	67.2	5.0	63	0.2	60.1	22.2	454	4.19	27.5	0.5	6.1	1.3	30	0.1	0.1	0.2	126	0.36	0.112
1059119	Soil	0.8	54.0	4.5	60	0.2	56.1	17.9	429	4.14	18.4	0.5	18.0	1.6	26	<0.1	0.1	0.1	125	0.34	0.124
1059123	Soil	1.0	60.3	5.1	68	0.2	54.1	21.2	440	4.37	18.9	0.5	7.1	1.6	28	0.1	0.1	0.2	131	0.34	0.108
1059117	Soil	1.1	63.3	6.1	72	0.2	63.3	21.9	480	4.63	28.2	0.5	7.0	1.6	29	0.3	0.2	0.2	133	0.34	0.109
1059115	Soil	1.0	55.0	6.4	79	0.2	58.7	21.7	551	4.23	31.7	0.7	5.6	1.1	39	<0.1	0.3	0.2	121	0.41	0.088
1059135	Soil	0.8	29.4	4.7	51	<0.1	33.2	12.3	318	3.21	12.4	0.6	4.1	1.1	24	<0.1	0.2	0.1	96	0.31	0.107
1059131	Soil	1.1	44.6	4.8	60	0.2	44.8	15.8	359	3.76	16.5	0.5	5.6	1.5	28	<0.1	0.2	0.2	116	0.34	0.073
1059132	Soil	0.7	57.1	5.1	54	<0.1	51.6	16.9	376	3.51	23.5	0.5	21.1	1.6	26	<0.1	0.3	0.1	101	0.35	0.101
1059134	Soil	0.7	47.6	5.7	63	0.1	49.8	16.9	371	3.89	22.3	0.5	3.4	1.6	30	0.2	0.1	0.1	113	0.35	0.098
1059127	Soil	1.2	64.2	5.2	56	0.3	50.3	20.6	421	4.02	20.9	0.7	6.2	1.7	29	0.1	0.2	0.2	116	0.37	0.107
1059133	Soil	0.9	54.1	6.4	64	0.1	61.9	18.9	340	4.30	34.0	0.4	20.8	1.7	25	0.1	0.2	0.2	121	0.26	0.086
1059125	Soil	0.9	54.9	5.3	61	0.3	49.6	19.7	431	4.00	16.9	0.5	10.2	1.3	35	<0.1	0.2	0.2	115	0.40	0.081



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Part 2

CERTIFICATE OF ANALYSIS

WHI11000963.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1059110	Soil	7	137	1.66	417	0.200	<1	2.98	0.021	0.99	0.5	0.03	10.0	0.3	0.06	11	0.6	<0.2
1076734	Soil	6	148	1.88	461	0.212	<1	3.60	0.019	0.95	0.3	0.03	10.6	0.4	0.07	13	<0.5	<0.2
1059106	Soil	8	125	1.67	447	0.179	1	3.54	0.019	0.85	0.4	0.05	10.2	0.4	0.13	12	0.6	<0.2
1076732	Soil	6	113	1.62	412	0.200	2	3.22	0.018	1.04	0.2	<0.01	10.8	0.4	0.08	11	<0.5	<0.2
1059109	Soil	6	122	1.44	350	0.185	<1	2.62	0.016	0.78	0.3	0.02	9.2	0.3	0.09	11	<0.5	<0.2
1059114	Soil	5	96	1.31	306	0.172	1	2.80	0.012	0.86	0.4	0.01	8.6	0.3	0.07	9	<0.5	<0.2
1059113	Soil	6	112	1.46	365	0.172	4	2.80	0.016	0.90	0.2	0.05	8.6	0.3	0.07	10	<0.5	<0.2
1076733	Soil	7	128	1.74	467	0.211	3	3.55	0.021	0.96	0.2	0.03	10.8	0.3	0.05	12	0.6	<0.2
1059107	Soil	6	120	1.59	353	0.181	2	2.91	0.017	0.84	0.3	0.02	8.8	0.3	<0.05	10	<0.5	<0.2
1059108	Soil	6	84	1.21	349	0.144	2	2.34	0.015	0.79	0.2	0.02	7.1	0.3	<0.05	8	<0.5	<0.2
1076735	Soil	4	137	1.85	519	0.231	2	3.39	0.026	1.26	0.2	0.02	11.7	0.4	<0.05	12	<0.5	<0.2
1059111	Soil	9	170	2.10	457	0.194	2	3.51	0.018	1.13	0.1	0.04	11.3	0.4	<0.05	12	0.8	<0.2
1059118	Soil	5	96	1.33	357	0.184	2	2.99	0.013	0.82	0.3	0.03	9.3	0.3	0.05	10	0.6	<0.2
1059120	Soil	6	86	1.28	245	0.194	3	3.01	0.014	0.55	0.3	0.06	7.7	0.3	0.07	10	<0.5	<0.2
1059124	Soil	7	84	1.30	329	0.166	3	2.90	0.015	0.75	0.3	0.05	8.4	0.4	0.06	10	0.6	<0.2
1059121	Soil	6	93	1.46	377	0.199	3	3.14	0.017	0.99	0.2	0.04	9.6	0.4	0.08	11	<0.5	<0.2
1059112	Soil	9	177	2.13	443	0.203	2	3.43	0.019	1.13	0.2	0.06	11.3	0.4	0.08	12	<0.5	<0.2
1059116	Soil	6	124	1.48	380	0.186	3	3.17	0.016	0.90	0.1	0.03	10.0	0.3	0.10	11	0.6	<0.2
1059122	Soil	5	87	1.28	339	0.182	3	2.88	0.016	0.90	0.5	0.04	8.7	0.3	0.09	10	0.8	<0.2
1059119	Soil	6	84	1.32	365	0.189	2	2.89	0.017	0.97	0.5	0.02	9.0	0.3	0.09	9	0.5	<0.2
1059123	Soil	6	91	1.41	330	0.193	3	3.04	0.017	0.89	0.5	0.04	9.1	0.4	0.10	10	<0.5	<0.2
1059117	Soil	6	90	1.28	317	0.189	2	3.05	0.015	0.80	1.0	0.03	8.8	0.3	0.09	10	<0.5	<0.2
1059115	Soil	7	97	1.33	321	0.150	1	2.93	0.017	0.47	0.2	0.04	8.2	0.3	0.09	10	<0.5	<0.2
1059135	Soil	6	67	1.03	232	0.120	<1	2.44	0.012	0.40	0.2	0.02	5.9	0.2	0.10	8	0.5	<0.2
1059131	Soil	6	82	1.21	304	0.169	2	2.77	0.013	0.74	0.2	0.04	7.9	0.3	0.06	9	0.7	<0.2
1059132	Soil	6	66	1.03	201	0.134	<1	2.32	0.013	0.49	0.1	0.03	6.5	0.2	0.06	8	0.5	<0.2
1059134	Soil	6	89	1.24	313	0.152	2	2.92	0.014	0.65	0.3	0.02	8.4	0.3	0.07	9	0.6	<0.2
1059127	Soil	7	79	1.22	308	0.156	<1	2.73	0.016	0.75	0.3	0.07	8.2	0.3	0.09	9	0.7	<0.2
1059133	Soil	6	95	1.30	289	0.173	<1	3.32	0.012	0.66	0.2	0.03	8.7	0.3	0.08	10	<0.5	<0.2
1059125	Soil	6	79	1.23	333	0.157	2	2.69	0.015	0.70	0.2	0.05	8.1	0.3	0.07	9	<0.5	<0.2



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August 31, 2011

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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1059130	Soil		1.7	52.0	5.1	62	0.2	51.1	19.6	437	4.07	21.0	0.6	3.9	1.9	27	<0.1	0.2	0.2	125	0.33	0.087
1059136	Soil		0.8	25.9	4.7	50	<0.1	29.9	11.0	302	3.18	11.3	0.5	5.7	1.1	23	<0.1	0.2	0.2	90	0.29	0.098
1059126	Soil		1.3	60.6	5.3	56	0.3	50.9	18.9	402	4.18	21.8	0.6	2.2	1.5	33	<0.1	0.2	0.2	119	0.37	0.092
1059129	Soil		1.2	49.1	4.8	60	<0.1	48.2	17.5	393	3.99	19.5	0.4	2.4	1.5	25	<0.1	0.2	0.2	116	0.28	0.074
1059128	Soil		1.0	61.6	5.2	61	0.3	56.3	21.4	469	4.32	17.9	0.5	49.2	1.5	33	0.1	0.2	0.2	126	0.42	0.090
1076505	Soil		0.9	58.9	7.3	82	0.1	67.4	27.0	510	3.94	70.3	0.7	9.7	1.8	34	0.2	0.3	0.2	103	0.33	0.094
1076707	Soil		0.9	62.9	5.6	47	0.1	73.3	24.7	545	4.45	63.7	0.4	6.3	1.3	26	0.1	0.3	0.2	130	0.28	0.084
1076704	Soil		1.0	53.5	6.8	52	0.1	47.7	17.8	546	4.00	64.4	0.5	19.0	0.9	23	0.1	0.4	0.2	117	0.22	0.091
1076703	Soil		0.9	45.7	7.0	53	<0.1	47.2	19.0	531	3.95	77.8	0.5	11.2	1.3	23	<0.1	0.4	0.2	114	0.26	0.083
1076709	Soil		0.9	77.8	5.9	57	0.2	79.9	30.1	583	4.43	68.0	0.5	9.5	1.3	30	0.2	0.3	0.2	125	0.36	0.126
1076504	Soil		0.7	59.6	4.5	85	<0.1	58.6	22.8	401	3.59	48.7	0.6	2.1	2.0	39	0.2	0.3	0.1	88	0.42	0.108
1076706	Soil		0.8	53.3	5.6	46	0.2	62.9	19.8	576	4.11	66.2	0.5	14.6	1.6	27	0.2	0.4	0.1	110	0.30	0.089
1076705	Soil		1.0	46.8	7.1	54	<0.1	44.6	16.0	541	3.96	32.1	0.5	7.5	0.8	24	0.2	0.4	0.2	121	0.21	0.065
1076708	Soil		0.8	56.6	6.0	48	0.1	62.1	22.0	540	3.76	52.6	0.5	9.4	1.2	21	0.2	0.4	0.2	114	0.18	0.055
1076702	Soil		1.1	46.0	5.6	53	0.1	42.9	15.7	469	3.44	51.2	0.5	9.1	2.0	26	0.2	0.3	0.2	99	0.33	0.104
1076701	Soil		1.3	52.0	7.4	66	0.1	42.1	17.3	480	3.75	74.4	0.6	13.3	0.7	26	<0.1	0.5	0.2	104	0.21	0.087
1076506	Soil		0.9	51.1	5.2	74	0.1	48.4	17.7	437	3.62	68.8	0.5	4.6	1.5	25	0.2	0.3	0.2	101	0.27	0.085
1076725	Soil		0.8	66.8	4.5	83	0.1	68.7	21.5	480	4.23	67.9	0.4	11.0	1.3	25	<0.1	0.3	0.1	132	0.27	0.073
1076724	Soil		1.1	78.6	6.6	92	0.2	80.7	27.3	639	4.84	75.5	0.5	11.0	1.2	30	0.2	0.6	0.2	123	0.28	0.081
1076728	Soil		1.0	38.8	4.7	63	0.3	28.4	14.5	352	3.29	33.6	0.8	2.7	0.5	32	<0.1	0.3	0.1	99	0.40	0.118
1076723	Soil		1.1	97.5	5.0	77	<0.1	81.9	28.2	592	4.56	53.7	0.4	5.4	1.3	25	0.2	0.3	0.1	124	0.25	0.082
1076727	Soil		1.2	46.1	6.7	73	0.2	42.7	16.5	481	3.82	68.9	0.5	6.2	0.9	24	<0.1	0.4	0.2	118	0.24	0.058
1076729	Soil		0.6	48.7	5.0	81	0.1	42.0	17.1	336	3.91	64.7	0.7	7.9	2.3	23	0.2	0.3	0.2	113	0.26	0.080
1076730	Soil		0.6	47.5	5.2	79	0.1	42.8	16.8	338	3.79	65.0	0.7	35.0	2.2	23	0.1	0.3	0.2	113	0.27	0.078
1076726	Soil		0.6	66.2	3.5	100	<0.1	71.3	23.5	516	4.69	62.5	0.5	3.2	1.9	20	<0.1	0.2	0.1	154	0.31	0.093
1076711	Soil		1.0	65.9	5.7	56	<0.1	57.0	19.1	483	3.77	25.4	0.4	8.0	1.2	17	0.2	0.3	0.2	112	0.18	0.046
1076731	Soil		0.3	31.5	4.6	70	<0.1	32.8	14.4	280	3.74	36.2	0.5	2.9	2.2	19	<0.1	0.3	0.1	100	0.21	0.053
1076715	Soil		1.2	49.0	8.3	59	0.2	49.6	20.0	724	4.24	19.9	0.6	4.5	0.9	25	0.3	0.3	0.2	136	0.27	0.091
1076719	Soil		1.0	52.2	5.9	64	<0.1	57.1	18.8	510	4.15	46.4	0.4	6.0	1.0	23	0.2	0.3	0.2	120	0.20	0.048
1076721	Soil		1.2	57.5	7.0	68	0.2	57.4	20.6	565	4.03	82.1	0.6	14.0	0.9	26	0.1	0.5	0.2	112	0.23	0.065



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1059130	Soil	7	87	1.34	329	0.171	<1	2.98	0.014	0.84	0.1	0.02	8.6	0.3	<0.05	10	0.9	<0.2
1059136	Soil	6	63	0.97	209	0.111	1	2.31	0.011	0.32	0.1	0.02	5.6	0.2	<0.05	7	<0.5	<0.2
1059126	Soil	7	80	1.23	306	0.164	<1	2.71	0.016	0.75	0.2	0.03	8.1	0.3	<0.05	10	0.6	<0.2
1059129	Soil	6	78	1.27	283	0.167	<1	2.76	0.013	0.76	0.3	0.02	7.8	0.3	<0.05	9	0.5	<0.2
1059128	Soil	6	81	1.31	329	0.169	1	2.82	0.016	0.84	0.2	0.05	8.3	0.4	<0.05	10	0.9	<0.2
1076505	Soil	8	93	1.30	256	0.150	<1	2.80	0.022	0.55	0.1	0.03	6.4	0.3	0.07	9	<0.5	<0.2
1076707	Soil	5	81	1.20	310	0.169	<1	2.95	0.013	0.80	0.2	0.03	9.0	0.4	<0.05	9	0.6	<0.2
1076704	Soil	5	71	1.13	258	0.138	<1	2.68	0.012	0.67	0.1	0.03	7.8	0.3	<0.05	9	0.9	<0.2
1076703	Soil	6	64	1.06	247	0.138	<1	2.56	0.013	0.56	0.1	0.06	7.5	0.3	<0.05	8	0.6	<0.2
1076709	Soil	5	82	1.18	268	0.147	<1	2.72	0.013	0.70	0.2	0.03	8.3	0.3	<0.05	9	0.8	<0.2
1076504	Soil	7	74	1.12	224	0.155	<1	2.29	0.024	0.60	0.3	<0.01	6.1	0.3	<0.05	8	<0.5	<0.2
1076706	Soil	7	68	1.09	261	0.153	<1	2.61	0.014	0.65	0.2	0.02	7.7	0.3	<0.05	8	0.7	<0.2
1076705	Soil	5	72	1.08	245	0.122	<1	2.60	0.009	0.56	0.1	0.03	7.2	0.3	<0.05	8	<0.5	<0.2
1076708	Soil	5	80	1.11	236	0.136	<1	2.59	0.012	0.59	0.1	0.02	7.3	0.3	<0.05	7	0.7	<0.2
1076702	Soil	8	58	0.94	242	0.123	2	2.26	0.012	0.48	0.1	0.03	6.4	0.2	<0.05	6	0.7	<0.2
1076701	Soil	6	63	0.95	188	0.092	1	2.29	0.010	0.34	0.1	0.04	5.6	0.2	0.06	8	<0.5	<0.2
1076506	Soil	7	71	1.05	223	0.129	1	2.41	0.014	0.50	0.1	0.02	6.4	0.3	<0.05	8	<0.5	<0.2
1076725	Soil	5	81	1.18	264	0.150	<1	2.77	0.015	0.71	0.2	0.02	8.3	0.3	<0.05	9	0.5	<0.2
1076724	Soil	6	80	1.10	236	0.122	1	2.78	0.017	0.51	0.2	0.03	7.3	0.3	<0.05	9	<0.5	<0.2
1076728	Soil	7	69	0.92	230	0.081	1	2.18	0.013	0.20	0.1	0.04	5.7	0.1	0.14	8	<0.5	<0.2
1076723	Soil	5	80	1.11	269	0.138	<1	2.67	0.014	0.51	0.1	0.02	7.8	0.3	<0.05	8	0.5	<0.2
1076727	Soil	6	73	1.03	238	0.117	<1	2.51	0.011	0.38	0.1	0.03	6.3	0.2	0.05	9	<0.5	<0.2
1076729	Soil	8	76	1.16	259	0.146	<1	2.81	0.012	0.55	0.2	0.02	8.4	0.2	<0.05	8	<0.5	<0.2
1076730	Soil	8	75	1.13	267	0.147	<1	2.71	0.011	0.56	0.2	0.02	8.4	0.3	<0.05	8	<0.5	<0.2
1076726	Soil	6	122	1.65	359	0.186	<1	3.15	0.011	1.03	0.1	0.01	11.0	0.3	<0.05	11	<0.5	<0.2
1076711	Soil	6	68	1.02	174	0.136	1	2.53	0.009	0.37	0.3	0.03	6.9	0.3	<0.05	7	<0.5	<0.2
1076731	Soil	8	72	1.03	228	0.132	<1	2.56	0.009	0.34	0.1	0.02	7.3	0.2	<0.05	8	<0.5	<0.2
1076715	Soil	4	85	1.20	294	0.143	1	3.02	0.012	0.58	0.1	0.05	8.8	0.4	0.06	9	0.6	<0.2
1076719	Soil	5	78	1.07	209	0.136	<1	2.74	0.008	0.47	0.1	0.04	7.2	0.2	<0.05	9	<0.5	<0.2
1076721	Soil	7	72	0.97	201	0.107	<1	2.41	0.010	0.40	0.2	0.08	6.2	0.2	<0.05	8	0.6	0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076716	Soil	1.5	88.0	7.1	61	0.2	73.0	24.8	602	4.41	42.7	0.5	13.5	1.1	26	0.1	0.4	0.2	126	0.23	0.085
1076717	Soil	1.5	40.5	8.6	78	<0.1	34.8	15.8	679	3.87	33.7	0.5	4.4	0.7	24	0.2	0.5	0.2	109	0.24	0.080
1076722	Soil	1.2	61.9	6.7	72	0.1	69.3	25.4	662	4.30	83.7	0.5	7.7	1.0	30	0.2	0.5	0.2	110	0.26	0.083
1076710	Soil	0.7	55.0	4.2	42	<0.1	55.1	17.5	447	3.31	31.5	0.4	10.7	1.3	18	0.1	0.3	0.1	96	0.22	0.046
1076720	Soil	1.2	89.6	6.0	75	0.1	75.8	28.4	573	4.00	64.8	0.5	9.3	1.3	26	0.1	0.4	0.2	108	0.25	0.064
1076712	Soil	0.8	46.0	5.2	48	<0.1	48.7	16.8	495	3.64	24.5	0.4	3.8	1.0	19	0.1	0.3	0.2	115	0.21	0.044
1076714	Soil	0.9	78.5	5.1	47	0.2	66.6	20.8	468	3.73	29.2	0.5	5.1	1.2	21	0.1	0.3	0.2	108	0.25	0.084
1076713	Soil	1.0	82.9	5.7	52	0.2	72.3	25.7	572	3.99	29.6	0.5	5.3	1.4	21	0.2	0.3	0.2	115	0.21	0.070
1076718	Soil	1.3	57.6	8.9	63	<0.1	47.1	22.5	594	4.21	111.5	0.8	8.5	1.0	24	0.1	0.6	0.2	103	0.20	0.073
1076854	Soil	0.7	54.9	3.7	60	0.1	52.6	16.5	384	3.35	38.0	0.4	2.9	1.4	35	<0.1	0.2	0.1	97	0.42	0.119
1076853	Soil	1.1	77.7	5.6	70	0.2	66.1	25.8	595	4.10	53.8	0.5	18.6	0.8	57	0.1	0.3	0.2	120	0.51	0.072
1076855	Soil	1.1	77.1	6.7	73	0.2	66.3	25.0	654	4.55	55.5	0.6	6.6	1.0	43	0.2	0.3	0.2	135	0.45	0.080
1076858	Soil	1.0	52.1	5.3	71	0.2	46.1	18.4	518	4.10	45.7	0.4	2.5	0.9	47	0.1	0.2	0.2	131	0.49	0.053
1076856	Soil	1.0	72.5	5.1	82	0.2	63.9	22.0	514	4.81	45.3	0.5	3.0	1.4	42	<0.1	0.2	0.2	159	0.38	0.058
1076859	Soil	1.2	66.1	5.2	75	0.2	52.7	24.4	525	4.06	41.8	0.5	4.2	1.3	52	0.3	0.2	0.2	123	0.46	0.067
1076857	Soil	0.9	56.5	5.1	71	0.1	53.6	21.3	517	3.90	35.8	0.5	4.4	1.0	35	0.2	0.2	0.2	118	0.40	0.095
1076860	Soil	1.0	63.7	4.8	68	0.3	55.8	15.5	334	3.81	35.5	0.5	4.0	0.7	49	0.2	0.2	0.1	114	0.45	0.055
1076861	Soil	1.1	80.7	6.5	80	0.3	70.3	27.4	722	4.58	77.7	0.5	3.9	0.9	56	0.3	0.3	0.2	132	0.58	0.061
1076863	Soil	0.8	57.2	4.0	71	0.2	58.7	21.0	475	4.07	50.7	0.4	2.7	1.1	44	0.1	0.2	0.1	120	0.42	0.122
1076862	Soil	0.8	55.8	4.3	67	0.2	57.5	19.8	452	3.84	50.6	0.4	3.2	1.2	42	0.1	0.2	0.2	113	0.44	0.119
1076847	Soil	1.0	51.3	4.9	70	0.3	48.6	20.2	451	3.93	32.4	0.5	2.3	1.2	38	<0.1	0.2	0.1	117	0.48	0.093
1076850	Soil	1.1	78.3	5.9	69	0.3	62.8	23.0	563	4.66	57.2	0.6	7.1	1.1	40	0.1	0.3	0.1	129	0.31	0.081
1076851	Soil	1.1	81.9	5.8	79	0.2	67.0	27.8	657	4.65	61.0	0.5	4.6	0.9	40	0.3	0.3	0.1	129	0.43	0.093
1076849	Soil	0.7	61.0	4.1	67	0.2	54.6	19.3	475	3.94	35.1	0.4	4.1	1.4	35	0.2	0.3	0.1	113	0.37	0.101
1076848	Soil	1.2	84.5	5.6	79	0.3	72.2	27.2	644	4.72	59.9	0.5	6.4	1.2	53	0.4	0.6	0.2	131	0.61	0.102
1076843	Soil	1.3	61.3	3.4	51	0.3	38.1	15.8	267	2.71	22.7	0.5	3.4	0.4	52	0.2	0.3	<0.1	69	0.58	0.087
1076844	Soil	0.6	47.3	5.2	73	<0.1	52.0	20.8	488	3.81	56.1	0.3	11.9	1.4	114	0.2	0.2	<0.1	110	0.60	0.115
1076845	Soil	0.8	50.8	3.9	70	0.1	51.0	19.5	513	3.84	47.2	0.4	3.8	1.2	56	<0.1	0.4	<0.1	108	0.47	0.111
1076842	Soil	1.1	82.7	5.1	77	0.3	67.9	25.5	613	4.54	83.8	0.6	11.8	1.2	66	<0.1	0.3	0.2	132	0.44	0.083
1076846	Soil	1.2	64.7	4.8	67	0.3	61.3	23.8	539	4.22	46.9	0.5	2.8	0.9	46	0.1	0.3	0.1	121	0.46	0.088



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076716	Soil	6	71	1.11	221	0.134	2	2.75	0.011	0.51	0.2	0.08	7.7	0.3	<0.05	8	1.3	0.3
1076717	Soil	6	60	0.87	180	0.102	1	2.22	0.009	0.25	0.1	0.04	5.5	0.2	0.05	8	<0.5	<0.2
1076722	Soil	6	70	1.02	231	0.106	1	2.66	0.015	0.45	0.1	0.05	6.1	0.2	<0.05	8	<0.5	<0.2
1076710	Soil	5	59	0.91	185	0.123	<1	2.07	0.010	0.39	0.2	0.02	6.2	0.2	<0.05	6	<0.5	<0.2
1076720	Soil	6	68	1.03	198	0.125	<1	2.45	0.009	0.39	0.1	0.02	6.5	0.2	<0.05	8	<0.5	<0.2
1076712	Soil	5	72	1.05	225	0.137	<1	2.54	0.009	0.44	0.2	0.01	7.4	0.2	<0.05	7	<0.5	<0.2
1076714	Soil	5	63	0.98	185	0.127	<1	2.37	0.010	0.50	0.1	0.02	6.8	0.3	<0.05	7	<0.5	<0.2
1076713	Soil	6	66	1.02	210	0.131	<1	2.49	0.009	0.53	0.1	0.02	7.4	0.3	<0.05	7	<0.5	<0.2
1076718	Soil	7	61	0.92	170	0.085	2	2.64	0.008	0.30	0.1	0.04	5.5	0.2	<0.05	8	<0.5	<0.2
1076854	Soil	6	67	1.08	248	0.131	<1	2.24	0.014	0.65	0.3	0.01	6.8	0.2	<0.05	7	<0.5	<0.2
1076853	Soil	6	80	1.23	326	0.123	<1	2.74	0.018	0.53	0.2	0.03	7.3	0.3	0.06	9	<0.5	<0.2
1076855	Soil	6	86	1.33	366	0.134	<1	3.13	0.012	0.62	0.2	0.04	8.2	0.3	<0.05	10	<0.5	<0.2
1076858	Soil	5	73	1.28	286	0.165	1	2.56	0.015	0.60	0.5	0.04	7.2	0.3	<0.05	10	<0.5	<0.2
1076856	Soil	5	97	1.60	353	0.182	<1	3.45	0.019	0.67	0.2	0.02	10.5	0.3	<0.05	11	<0.5	<0.2
1076859	Soil	6	77	1.26	261	0.152	<1	2.69	0.022	0.67	0.3	0.06	7.7	0.3	<0.05	9	<0.5	<0.2
1076857	Soil	5	77	1.21	275	0.130	<1	2.66	0.017	0.59	0.4	0.10	7.4	0.2	<0.05	9	<0.5	<0.2
1076860	Soil	5	83	1.10	266	0.141	1	2.57	0.014	0.60	0.4	0.06	6.7	0.3	<0.05	10	<0.5	<0.2
1076861	Soil	6	95	1.39	366	0.135	<1	3.11	0.016	0.57	0.3	0.04	7.7	0.3	0.06	10	<0.5	<0.2
1076863	Soil	4	86	1.26	310	0.169	2	2.73	0.019	0.81	0.4	0.03	7.8	0.3	<0.05	9	<0.5	<0.2
1076862	Soil	5	83	1.20	293	0.146	<1	2.55	0.014	0.76	0.6	0.02	7.4	0.3	<0.05	9	<0.5	<0.2
1076847	Soil	6	74	1.21	277	0.146	3	2.65	0.015	0.58	0.2	0.06	6.9	0.3	<0.05	9	<0.5	<0.2
1076850	Soil	7	86	1.33	282	0.165	2	3.00	0.016	0.67	0.2	0.04	7.7	0.3	<0.05	9	<0.5	<0.2
1076851	Soil	7	87	1.34	317	0.150	3	3.00	0.019	0.56	0.2	0.03	7.7	0.3	<0.05	10	<0.5	<0.2
1076849	Soil	5	74	1.18	290	0.161	1	2.44	0.017	0.71	0.2	0.03	7.4	0.3	<0.05	8	<0.5	<0.2
1076848	Soil	6	85	1.38	346	0.169	2	3.10	0.023	0.72	0.3	0.04	8.6	0.3	<0.05	9	<0.5	<0.2
1076843	Soil	6	47	0.66	181	0.077	2	1.55	0.017	0.29	0.3	0.06	3.4	0.1	0.10	5	<0.5	<0.2
1076844	Soil	6	82	1.37	410	0.179	2	3.04	0.014	0.90	<0.1	0.04	7.0	0.3	<0.05	10	<0.5	<0.2
1076845	Soil	6	76	1.38	295	0.158	1	2.77	0.018	0.81	0.2	0.02	6.5	0.3	<0.05	9	<0.5	<0.2
1076842	Soil	7	97	1.46	341	0.150	2	3.06	0.020	0.61	0.2	0.04	7.8	0.3	<0.05	10	0.6	<0.2
1076846	Soil	6	82	1.23	341	0.158	2	2.73	0.018	0.70	0.2	0.04	7.9	0.3	<0.05	9	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076841	Soil	0.9	68.9	4.5	88	0.2	70.6	28.0	533	4.40	44.4	0.5	4.9	1.0	50	0.1	0.2	0.1	124	0.46	0.105
1076852	Soil	1.3	73.3	5.6	71	0.3	63.8	24.1	559	4.28	61.9	0.5	3.6	0.9	47	0.2	0.4	0.2	124	0.49	0.079
1076864	Soil	1.4	33.7	3.4	47	0.1	31.8	17.6	941	2.44	39.0	0.3	1.9	<0.1	51	0.3	0.2	<0.1	65	0.70	0.099
1076866	Soil	1.0	79.4	4.9	77	0.2	74.3	25.2	560	4.47	98.4	0.4	3.2	1.0	41	0.3	0.3	0.2	128	0.47	0.106
1076868	Soil	0.7	71.5	3.6	71	0.1	65.8	20.4	454	4.05	96.6	0.3	7.3	1.0	37	0.2	0.5	0.2	117	0.42	0.115
1076869	Soil	1.0	65.4	3.9	63	0.2	63.4	23.0	523	3.59	87.6	0.5	2.3	0.7	59	0.2	0.3	0.1	102	0.66	0.103
1076870	Soil	0.9	89.6	4.9	81	0.1	80.4	31.3	597	4.43	148.1	0.4	6.5	0.9	40	0.2	0.3	0.2	124	0.37	0.094
1076865	Soil	1.1	67.4	5.2	81	0.2	61.7	23.4	728	4.15	103.7	0.5	3.2	0.8	49	0.5	0.3	0.2	114	0.36	0.085
1076867	Soil	0.9	66.6	3.8	66	0.2	60.8	20.8	465	3.91	68.7	0.4	9.2	0.7	35	<0.1	0.3	<0.1	111	0.36	0.101
1076871	Soil	1.0	92.0	5.5	90	0.2	86.5	32.3	639	4.70	159.9	0.5	4.9	1.0	45	0.2	0.3	0.2	128	0.39	0.097
1059702	Soil	1.0	46.0	4.4	100	0.2	42.0	19.6	499	3.86	13.3	0.8	2.6	2.7	26	<0.1	0.4	0.1	82	0.32	0.084
1059703	Soil	1.2	72.1	5.3	114	0.2	55.1	20.0	553	4.42	18.9	1.0	4.5	3.3	27	<0.1	0.8	0.1	96	0.24	0.082
1059705	Soil	1.1	58.9	4.7	112	0.2	51.7	19.7	514	4.40	16.6	0.8	6.3	3.4	30	<0.1	0.9	0.1	92	0.33	0.098
1059708	Soil	0.7	55.0	3.2	101	0.2	48.7	18.2	411	4.00	12.9	0.7	3.9	3.2	25	<0.1	0.2	0.1	81	0.27	0.100
1059710	Soil	1.1	61.3	4.9	94	0.2	43.3	20.6	578	3.80	13.7	1.0	4.4	2.9	23	<0.1	0.2	0.2	81	0.21	0.077
1059709	Soil	0.8	47.8	4.2	104	0.3	46.2	22.2	550	3.90	11.8	0.7	2.1	2.9	31	<0.1	<0.1	0.1	89	0.30	0.090
1059701	Soil	0.8	42.7	3.5	91	0.2	41.1	15.9	408	3.74	11.2	0.7	7.5	2.9	22	<0.1	0.2	0.1	78	0.25	0.080
1059704	Soil	1.1	67.7	5.3	106	0.3	53.4	18.7	517	4.22	17.5	1.0	3.6	3.2	25	<0.1	0.7	0.2	89	0.25	0.083
1059712	Soil	0.5	44.9	2.9	80	0.1	42.4	15.6	460	3.31	9.3	0.5	2.2	2.9	24	<0.1	0.1	<0.1	62	0.37	0.114
1059707	Soil	0.9	56.3	4.2	101	0.2	48.0	18.0	472	3.70	13.6	0.8	1.5	3.0	29	<0.1	0.3	0.1	80	0.30	0.085
1059706	Soil	0.7	59.0	4.6	101	0.2	50.0	17.0	474	3.98	12.7	0.8	3.7	3.7	23	<0.1	0.6	0.1	89	0.23	0.083
1059711	Soil	0.9	52.1	4.4	98	0.2	45.3	25.4	663	4.03	12.5	0.7	0.8	3.3	24	<0.1	0.2	0.1	80	0.26	0.077
1059723	Soil	0.9	57.7	4.8	94	0.1	52.8	20.0	472	3.62	15.7	0.7	3.9	1.6	40	<0.1	0.2	<0.1	83	0.33	0.085
1059728	Soil	0.9	39.7	3.5	42	0.2	20.8	7.5	156	2.16	5.4	0.7	2.5	0.7	21	<0.1	0.2	<0.1	55	0.24	0.058
1059732	Soil	2.2	100.2	11.0	118	0.3	68.9	25.0	551	5.23	34.4	1.5	6.1	4.0	32	<0.1	0.7	0.5	111	0.23	0.077
1059731	Soil	2.2	60.6	8.9	91	0.3	44.0	21.2	743	4.32	15.1	1.6	4.8	2.2	36	<0.1	0.5	0.4	99	0.27	0.112
1059734	Soil	1.4	48.7	7.1	67	0.2	34.7	13.6	432	3.35	9.9	1.1	4.6	0.8	29	0.2	0.4	0.4	85	0.33	0.111
1059724	Soil	0.9	61.3	6.2	102	0.4	50.9	17.4	445	4.08	19.3	1.2	5.5	2.8	35	0.1	0.3	0.2	88	0.33	0.099
1059733	Soil	2.2	48.8	7.4	60	0.2	26.5	14.0	553	3.02	12.3	1.3	3.3	0.6	30	<0.1	0.6	0.3	80	0.27	0.092
1059730	Soil	1.2	58.9	8.2	122	<0.1	65.4	21.5	596	5.50	11.4	0.9	2.2	4.9	28	0.1	0.3	0.2	127	0.29	0.102



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076841	Soil	7	99	1.55	306	0.161	1	3.06	0.024	0.62	0.2	0.02	7.3	0.3	<0.05	10	<0.5	<0.2
1076852	Soil	7	86	1.31	297	0.150	2	2.98	0.020	0.60	0.4	0.05	8.2	0.3	<0.05	10	<0.5	<0.2
1076864	Soil	4	48	0.69	230	0.061	4	1.45	0.018	0.44	0.2	0.09	2.3	0.2	0.12	5	<0.5	<0.2
1076866	Soil	5	98	1.40	355	0.188	2	2.96	0.023	0.81	0.2	0.03	8.1	0.3	<0.05	10	<0.5	<0.2
1076868	Soil	5	83	1.19	321	0.186	2	2.49	0.020	0.90	0.2	0.02	7.9	0.3	<0.05	8	<0.5	<0.2
1076869	Soil	6	108	1.33	290	0.150	2	2.43	0.027	0.61	0.1	0.06	5.9	0.3	0.05	8	<0.5	<0.2
1076870	Soil	6	103	1.38	303	0.172	<1	3.04	0.022	0.71	0.1	0.04	7.3	0.3	<0.05	9	0.6	<0.2
1076865	Soil	6	87	1.29	291	0.158	2	2.74	0.018	0.63	0.2	0.07	6.5	0.3	<0.05	9	0.6	<0.2
1076867	Soil	5	77	1.18	283	0.140	3	2.56	0.017	0.69	0.3	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
1076871	Soil	6	105	1.40	322	0.177	2	2.92	0.022	0.79	0.1	0.05	7.7	0.3	<0.05	10	<0.5	<0.2
1059702	Soil	11	62	1.13	140	0.094	<1	2.43	0.011	0.33	0.2	0.04	5.1	0.2	<0.05	8	<0.5	<0.2
1059703	Soil	13	69	1.26	145	0.100	2	2.53	0.009	0.43	<0.1	0.05	5.1	0.3	<0.05	8	<0.5	<0.2
1059705	Soil	13	68	1.29	162	0.108	3	2.42	0.009	0.47	<0.1	0.03	5.3	0.3	<0.05	8	<0.5	<0.2
1059708	Soil	11	60	1.19	147	0.095	<1	2.42	0.008	0.39	<0.1	0.03	5.0	0.3	<0.05	8	<0.5	<0.2
1059710	Soil	13	57	1.04	119	0.085	<1	2.30	0.009	0.26	0.1	0.05	4.2	0.2	<0.05	7	<0.5	<0.2
1059709	Soil	11	66	1.21	167	0.101	1	2.44	0.009	0.41	<0.1	0.03	4.9	0.3	<0.05	8	<0.5	<0.2
1059701	Soil	10	60	1.15	138	0.093	1	2.27	0.008	0.38	<0.1	0.03	4.8	0.2	<0.05	7	<0.5	<0.2
1059704	Soil	13	66	1.18	142	0.093	2	2.43	0.009	0.42	<0.1	0.04	5.0	0.3	<0.05	8	0.7	<0.2
1059712	Soil	9	47	1.06	89	0.071	<1	1.76	0.010	0.23	<0.1	0.01	3.6	0.2	<0.05	5	<0.5	<0.2
1059707	Soil	12	61	1.16	179	0.092	1	2.38	0.010	0.40	<0.1	0.02	4.9	0.2	<0.05	8	0.6	<0.2
1059706	Soil	13	66	1.18	154	0.106	<1	2.49	0.008	0.34	<0.1	0.02	5.3	0.3	<0.05	8	<0.5	<0.2
1059711	Soil	11	59	1.12	125	0.093	<1	2.34	0.009	0.32	<0.1	0.04	4.3	0.3	<0.05	7	<0.5	<0.2
1059723	Soil	13	70	1.18	171	0.085	1	2.44	0.011	0.29	<0.1	0.02	4.4	0.2	<0.05	7	0.5	<0.2
1059728	Soil	10	29	0.45	67	0.060	1	1.18	0.009	0.07	<0.1	0.05	2.2	<0.1	0.05	4	<0.5	<0.2
1059732	Soil	18	78	1.33	125	0.101	<1	3.24	0.008	0.23	0.1	0.04	5.3	0.3	<0.05	11	0.7	<0.2
1059731	Soil	17	64	1.06	130	0.074	1	2.44	0.010	0.22	0.1	0.03	4.1	0.3	0.07	9	0.7	<0.2
1059734	Soil	11	55	0.80	114	0.077	<1	2.04	0.010	0.15	<0.1	0.04	2.7	0.2	<0.05	7	0.8	<0.2
1059724	Soil	14	65	1.15	120	0.090	<1	2.49	0.009	0.25	<0.1	0.02	4.3	0.2	<0.05	8	0.5	<0.2
1059733	Soil	12	42	0.64	76	0.054	2	1.56	0.011	0.09	0.1	0.03	1.7	0.1	0.07	7	0.7	<0.2
1059730	Soil	15	83	1.42	143	0.154	<1	3.20	0.009	0.35	<0.1	0.03	5.9	0.4	<0.05	11	1.0	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1059729	Soil	1.2	70.2	7.5	122	0.1	70.3	24.6	636	5.24	15.3	1.0	3.7	5.3	35	0.3	0.3	0.3	119	0.26	0.078
1059721	Soil	0.9	56.4	5.6	115	0.2	58.4	21.7	480	4.40	13.7	0.8	4.4	3.9	37	0.2	0.2	0.2	99	0.33	0.101
1059727	Soil	0.9	43.7	5.0	83	0.3	34.6	17.6	499	3.71	8.2	1.1	3.2	2.4	28	<0.1	0.2	0.2	87	0.27	0.079
1059718	Soil	1.2	70.2	5.3	85	0.2	49.9	15.7	311	3.31	10.6	1.2	3.2	1.7	32	<0.1	0.2	0.2	68	0.29	0.082
1059713	Soil	1.1	46.9	5.0	101	0.2	50.0	20.9	514	4.14	11.5	0.8	1.7	4.3	28	<0.1	0.2	0.4	84	0.31	0.105
1059720	Soil	0.9	59.6	5.7	105	0.2	55.2	21.8	532	4.02	10.5	0.9	4.3	3.8	37	0.1	0.3	0.3	92	0.39	0.108
1059717	Soil	1.2	73.9	6.3	118	0.2	68.2	25.5	524	4.41	11.2	1.1	2.3	3.1	30	<0.1	0.2	0.3	90	0.25	0.081
1059719	Soil	1.1	42.9	6.2	89	0.2	32.4	11.9	370	3.27	8.1	0.9	2.7	1.1	29	0.2	0.4	0.4	73	0.26	0.073
1059714	Soil	1.0	67.3	5.7	96	0.2	46.5	18.6	444	3.92	9.3	1.3	4.2	2.6	26	<0.1	0.2	0.2	86	0.23	0.080
1059715	Soil	0.9	75.4	5.5	108	0.1	54.4	18.6	531	4.33	10.4	1.1	1.7	4.8	30	0.1	0.2	0.2	94	0.26	0.099
1059716	Soil	1.4	86.4	6.9	128	0.1	83.6	29.1	562	4.50	11.0	1.2	1.6	3.0	35	0.4	0.3	0.2	88	0.29	0.097
1059726	Soil	1.0	47.5	6.2	124	0.4	59.7	25.0	490	4.64	8.6	1.1	3.0	4.2	37	<0.1	0.2	0.3	91	0.30	0.083
1059725	Soil	1.1	65.0	7.9	119	0.5	61.4	19.4	445	5.23	18.8	1.9	2.2	4.7	33	<0.1	0.3	0.3	103	0.24	0.076
1059722	Soil	1.3	57.7	6.3	90	0.2	41.2	24.0	628	3.69	13.7	1.5	2.6	1.5	37	<0.1	0.3	0.2	83	0.27	0.092
1064013	Soil	1.0	69.4	8.7	47	<0.1	83.9	25.1	552	4.84	32.6	0.5	3.6	1.9	45	0.1	0.8	0.2	110	0.31	0.083
1064023	Soil	1.1	163.5	5.2	40	0.2	81.4	28.2	468	4.85	20.4	0.5	2.0	1.2	26	0.2	0.5	0.2	125	0.36	0.146
1064024	Soil	1.1	226.0	5.2	43	0.2	183.7	52.0	597	5.06	9.6	0.7	3.3	1.6	33	0.3	0.2	0.3	124	0.32	0.129
1064022	Soil	1.6	149.1	6.4	49	0.2	101.4	30.1	511	4.96	14.6	0.6	6.9	1.5	24	0.1	0.4	0.3	133	0.24	0.090
1064021	Soil	0.7	47.3	5.5	37	0.1	48.8	15.5	372	3.72	6.8	0.5	1.6	1.1	17	0.2	0.3	0.2	104	0.17	0.056
1064020	Soil	1.0	129.5	7.7	45	<0.1	86.9	29.5	620	4.57	19.9	0.5	6.0	1.6	27	0.1	0.9	0.2	110	0.21	0.061
1064019	Soil	1.2	71.3	7.7	41	<0.1	52.1	17.2	350	4.32	12.2	0.5	3.0	1.2	41	<0.1	0.6	0.2	98	0.25	0.057
1064018	Soil	1.2	103.4	7.6	42	<0.1	50.8	19.0	445	4.87	9.1	0.5	2.4	1.3	58	0.1	0.3	0.2	134	0.31	0.063
1064017	Soil	1.3	129.7	10.4	40	0.1	110.8	31.8	624	4.90	47.5	0.4	7.0	1.3	62	0.2	0.4	0.2	123	0.37	0.115
1064014	Soil	1.1	70.4	6.0	36	<0.1	63.4	19.4	379	4.20	11.8	0.4	1.6	1.2	27	<0.1	0.3	0.2	111	0.20	0.049
1064015	Soil	1.0	64.8	7.3	47	<0.1	54.9	18.7	501	3.67	9.5	0.5	9.9	1.0	24	<0.1	0.5	0.2	98	0.21	0.065
1064016	Soil	0.8	50.2	6.6	38	<0.1	48.9	14.6	378	3.62	11.2	0.5	4.0	1.4	26	0.1	0.4	0.2	103	0.21	0.046
1064025	Soil	0.6	66.6	4.5	66	<0.1	81.4	26.0	348	4.12	6.3	0.6	1.4	2.5	34	0.1	0.1	0.1	116	0.26	0.056
1064026	Soil	0.8	154.2	7.3	45	<0.1	124.3	28.4	397	5.30	69.1	0.6	12.7	1.9	24	0.1	0.3	0.2	106	0.27	0.125
1064027	Soil	0.7	53.0	4.7	40	<0.1	35.0	14.1	390	3.75	6.6	0.4	0.8	2.0	32	0.2	0.3	0.2	101	0.39	0.115
1064028	Soil	0.7	66.0	5.1	35	<0.1	69.6	20.0	395	3.93	7.3	0.5	2.1	1.6	24	0.1	0.4	0.2	104	0.33	0.086



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1059729	Soil	16	82	1.31	145	0.137	<1	3.20	0.008	0.33	<0.1	0.03	5.6	0.4	<0.05	11	0.6
1059721	Soil	14	69	1.24	150	0.112	<1	2.58	0.012	0.44	<0.1	0.02	4.9	0.3	<0.05	9	0.5
1059727	Soil	13	48	0.85	98	0.091	1	2.01	0.011	0.16	<0.1	0.03	3.4	0.2	0.05	7	0.7
1059718	Soil	18	47	0.86	89	0.073	1	1.92	0.013	0.16	<0.1	0.05	3.3	0.2	0.08	7	<0.5
1059713	Soil	12	59	1.18	113	0.099	1	2.48	0.009	0.28	<0.1	0.02	4.3	0.3	<0.05	8	<0.5
1059720	Soil	15	69	1.22	138	0.106	<1	2.56	0.012	0.32	<0.1	0.02	5.1	0.3	0.14	8	0.6
1059717	Soil	17	63	1.19	105	0.088	1	2.64	0.011	0.21	<0.1	0.03	4.3	0.3	<0.05	9	<0.5
1059719	Soil	11	44	0.68	86	0.082	1	1.71	0.013	0.10	0.1	0.08	2.8	0.2	<0.05	6	0.6
1059714	Soil	13	58	1.01	105	0.092	<1	2.45	0.013	0.20	<0.1	0.04	3.9	0.2	0.10	8	0.7
1059715	Soil	17	63	1.18	109	0.105	<1	2.63	0.011	0.25	0.1	0.01	4.4	0.3	<0.05	8	0.6
1059716	Soil	19	58	1.07	94	0.081	<1	2.44	0.012	0.20	<0.1	0.04	3.9	0.3	<0.05	8	<0.5
1059726	Soil	16	71	1.29	141	0.105	<1	2.94	0.009	0.29	<0.1	0.05	5.2	0.3	<0.05	9	<0.5
1059725	Soil	23	73	1.33	127	0.097	<1	3.23	0.009	0.28	<0.1	0.04	5.6	0.4	<0.05	9	0.6
1059722	Soil	15	59	1.03	136	0.077	<1	2.48	0.013	0.20	<0.1	0.04	4.0	0.3	<0.05	8	<0.5
1064013	Soil	7	62	1.11	226	0.147	<1	2.76	0.011	0.57	<0.1	0.02	7.0	0.3	0.05	7	<0.5
1064023	Soil	5	75	1.27	296	0.173	<1	2.90	0.024	0.75	0.1	0.02	7.8	0.3	0.16	7	0.7
1064024	Soil	6	74	1.16	286	0.173	<1	2.83	0.027	0.61	0.7	0.02	7.8	0.3	0.06	7	<0.5
1064022	Soil	6	81	1.36	298	0.172	1	2.93	0.019	0.63	0.2	0.03	7.6	0.3	<0.05	8	0.6
1064021	Soil	5	78	1.15	145	0.143	<1	2.53	0.013	0.40	<0.1	0.03	5.4	0.3	<0.05	7	<0.5
1064020	Soil	6	61	1.16	203	0.149	1	2.89	0.012	0.56	<0.1	0.02	7.2	0.3	<0.05	7	0.6
1064019	Soil	6	54	1.01	164	0.125	<1	2.41	0.014	0.33	<0.1	0.04	5.3	0.2	<0.05	7	<0.5
1064018	Soil	6	73	1.33	257	0.183	1	3.25	0.014	0.45	0.1	0.02	7.7	0.3	<0.05	8	0.6
1064017	Soil	5	67	1.20	279	0.149	<1	2.83	0.012	0.67	<0.1	0.01	7.4	0.3	<0.05	7	0.5
1064014	Soil	5	61	1.10	165	0.155	<1	2.62	0.013	0.44	<0.1	0.01	5.9	0.3	<0.05	7	<0.5
1064015	Soil	6	53	0.89	129	0.126	1	2.07	0.015	0.26	<0.1	0.02	4.6	0.2	0.05	6	<0.5
1064016	Soil	7	54	0.94	140	0.141	1	2.29	0.011	0.37	0.1	0.02	5.3	0.2	<0.05	6	<0.5
1064025	Soil	8	81	1.07	278	0.172	<1	2.61	0.022	0.54	0.1	<0.01	7.4	0.2	0.09	8	<0.5
1064026	Soil	6	61	1.13	201	0.127	<1	2.81	0.019	0.51	0.2	0.02	6.5	0.2	0.09	7	<0.5
1064027	Soil	7	53	1.03	218	0.167	1	2.34	0.027	0.48	0.1	0.01	5.7	0.3	<0.05	6	<0.5
1064028	Soil	7	57	1.04	198	0.161	1	2.41	0.016	0.46	0.1	<0.01	5.9	0.3	<0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1064029	Soil	0.6	79.5	4.0	77	<0.1	110.2	29.5	283	3.90	17.4	1.0	1.1	3.1	22	<0.1	0.1	0.1	154	0.23
1064030	Soil	1.2	37.1	7.3	51	0.1	29.5	15.9	593	3.37	7.9	0.6	0.9	0.4	28	<0.1	0.5	0.2	89	0.29
1064031	Soil	1.3	47.1	7.0	71	<0.1	40.2	17.0	494	3.91	8.3	0.6	2.5	1.4	28	0.2	0.5	0.2	109	0.28
1064032	Soil	1.0	63.6	6.5	56	<0.1	42.7	18.0	362	4.18	13.0	0.6	1.6	1.1	33	0.2	0.4	0.2	96	0.33
1064033	Soil	1.0	41.6	6.6	61	<0.1	36.3	14.6	367	3.51	8.5	0.6	2.8	1.9	27	0.1	0.4	0.2	97	0.30
1064034	Soil	1.0	70.4	5.7	64	<0.1	50.7	20.5	396	4.07	10.9	0.8	1.8	2.1	31	0.3	0.5	0.2	103	0.38
1064035	Soil	1.0	87.6	6.6	61	0.1	67.2	24.5	452	4.47	18.0	1.0	15.8	1.8	32	0.2	0.3	0.2	116	0.31
1064001	Soil	0.4	26.8	7.2	79	<0.1	22.1	22.3	695	5.01	9.0	0.3	2.2	1.7	163	<0.1	0.2	<0.1	115	0.92
1064002	Soil	0.8	61.8	5.9	35	<0.1	71.5	23.1	408	3.66	16.7	0.3	4.0	1.0	29	0.1	0.4	0.1	99	0.23
1064003	Soil	0.8	61.4	6.2	43	0.1	62.8	22.0	433	3.64	14.4	0.5	4.7	1.5	30	0.1	0.3	0.2	97	0.29
1064004	Soil	0.8	111.6	7.5	30	0.1	132.6	30.5	572	4.60	37.5	0.3	9.1	1.0	39	<0.1	0.2	0.3	123	0.35
1064005	Soil	0.5	50.6	13.0	36	0.2	71.1	13.2	370	4.27	23.4	0.4	3.0	1.2	137	0.1	0.3	0.2	88	0.65
1064006	Soil	1.0	50.2	7.0	46	<0.1	54.3	19.5	425	3.86	10.2	0.4	2.7	1.1	25	0.1	0.5	0.2	92	0.27
1064007	Soil	0.9	68.2	5.3	48	<0.1	58.0	18.0	399	3.33	11.5	0.5	4.2	1.8	25	0.2	0.4	0.1	88	0.33
1064008	Soil	0.7	45.1	5.1	40	<0.1	47.1	15.6	398	3.38	13.6	0.4	7.7	1.5	23	0.2	0.3	0.1	94	0.31
1064011	Soil	1.0	48.4	6.3	41	<0.1	40.1	14.3	373	3.53	9.0	0.4	3.4	0.7	19	<0.1	0.3	0.2	104	0.19
1064012	Soil	1.0	72.4	7.6	45	<0.1	79.8	23.7	499	4.36	28.8	0.4	3.1	1.5	39	0.1	0.6	0.2	103	0.28
1064010	Soil	0.9	48.6	5.3	40	<0.1	42.4	14.9	339	3.33	25.1	0.4	3.6	1.2	24	0.1	0.3	0.2	86	0.21
1064009	Soil	1.2	41.2	6.6	41	<0.1	35.4	14.1	479	3.33	8.4	0.4	3.2	0.7	22	0.1	0.4	0.2	97	0.24
1094420	Soil	1.3	48.0	6.2	78	0.3	37.1	14.9	443	3.24	112.0	1.0	5.1	0.9	33	0.1	0.4	0.2	86	0.29
1094421	Soil	0.9	58.3	6.0	102	0.1	57.5	19.5	460	4.07	143.1	0.9	8.3	2.1	39	0.2	0.3	0.2	109	0.27
1094422	Soil	0.9	70.2	4.9	108	0.2	82.7	26.8	496	4.22	154.9	1.0	6.8	3.2	37	0.1	0.3	0.2	113	0.39
1094423	Soil	1.1	50.9	6.0	101	0.2	52.6	19.4	362	3.71	109.0	0.7	3.0	1.4	33	0.2	0.4	0.2	97	0.30
1094424	Soil	1.1	63.2	5.3	96	0.2	53.1	20.3	402	3.86	91.4	0.8	4.2	2.1	30	0.2	0.3	0.2	101	0.21
1094425	Soil	1.1	63.7	4.6	126	0.1	59.9	28.4	455	4.46	124.4	1.0	3.4	2.1	46	0.3	0.2	0.2	126	0.37
1094426	Soil	1.1	70.0	4.2	114	0.2	51.1	24.4	397	4.00	71.7	1.1	3.6	1.9	45	0.3	0.2	0.2	119	0.40
1094408	Soil	1.1	61.0	4.8	98	0.2	53.7	18.0	399	3.78	44.7	1.2	4.2	2.1	35	0.1	0.2	0.2	102	0.27
1094409	Soil	1.1	73.8	5.4	121	0.2	66.8	23.1	466	4.28	57.4	1.2	4.2	2.6	38	0.2	0.2	0.2	116	0.37
1094410	Soil	0.9	53.8	3.8	86	0.1	50.2	16.8	383	3.54	30.8	0.8	2.6	3.1	33	0.1	0.2	0.1	95	0.32
1094411	Soil	1.1	60.7	5.5	113	0.1	65.1	23.4	432	4.15	50.1	1.0	2.6	1.9	37	0.2	0.3	0.2	113	0.33



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064029	Soil	11	173	1.71	311	0.201	<1	2.99	0.028	0.75	0.2	<0.01	9.4	0.3	0.08	11	<0.5	<0.2
1064030	Soil	7	53	0.77	151	0.085	1	1.92	0.022	0.21	0.1	<0.01	3.3	0.1	0.14	7	<0.5	<0.2
1064031	Soil	8	76	1.18	200	0.166	1	2.48	0.026	0.31	0.1	<0.01	6.4	0.2	0.11	8	0.5	<0.2
1064032	Soil	7	60	1.00	167	0.137	2	2.31	0.023	0.30	0.4	<0.01	5.2	0.2	0.09	7	0.6	<0.2
1064033	Soil	9	59	0.96	134	0.157	2	2.15	0.021	0.28	0.1	<0.01	5.4	0.1	0.05	7	0.7	<0.2
1064034	Soil	9	65	1.08	210	0.172	2	2.41	0.031	0.46	0.6	<0.01	6.9	0.2	0.08	7	<0.5	<0.2
1064035	Soil	7	76	1.31	297	0.203	<1	3.00	0.036	0.61	0.2	<0.01	8.4	0.3	0.14	9	0.7	<0.2
1064001	Soil	8	43	2.17	407	0.174	2	4.13	0.062	0.65	<0.1	<0.01	6.4	0.4	<0.05	12	<0.5	<0.2
1064002	Soil	5	58	0.90	140	0.118	<1	2.00	0.009	0.44	0.1	0.02	4.9	0.2	<0.05	5	<0.5	<0.2
1064003	Soil	8	56	0.93	144	0.149	<1	2.15	0.017	0.31	0.1	<0.01	5.4	0.2	<0.05	6	<0.5	<0.2
1064004	Soil	4	81	1.40	254	0.182	<1	3.15	0.013	0.88	0.1	0.03	9.1	1.1	0.07	7	0.5	<0.2
1064005	Soil	4	64	1.11	264	0.089	<1	2.87	0.021	0.90	<0.1	0.02	7.0	0.2	0.22	7	<0.5	<0.2
1064006	Soil	5	59	0.99	160	0.142	1	2.31	0.011	0.42	<0.1	0.02	5.8	0.2	0.05	6	<0.5	<0.2
1064007	Soil	8	53	0.89	120	0.140	<1	1.98	0.012	0.26	0.1	0.02	5.2	0.2	<0.05	5	<0.5	<0.2
1064008	Soil	6	54	0.95	135	0.153	1	1.96	0.011	0.30	<0.1	0.01	5.7	0.2	<0.05	5	<0.5	<0.2
1064011	Soil	5	59	0.92	131	0.142	<1	2.07	0.009	0.23	<0.1	0.02	5.5	0.2	<0.05	6	<0.5	<0.2
1064012	Soil	6	59	1.01	195	0.145	<1	2.31	0.010	0.50	<0.1	0.02	6.7	0.3	<0.05	6	<0.5	<0.2
1064010	Soil	6	48	0.84	123	0.132	<1	1.87	0.010	0.25	<0.1	0.02	4.5	0.2	<0.05	5	<0.5	<0.2
1064009	Soil	5	53	0.86	142	0.118	<1	1.87	0.011	0.25	<0.1	0.03	4.7	0.2	0.06	6	<0.5	<0.2
1094420	Soil	10	68	0.89	166	0.087	1	1.99	0.014	0.29	0.2	0.08	4.0	0.2	0.13	7	<0.5	<0.2
1094421	Soil	11	95	1.34	244	0.146	<1	2.59	0.015	0.56	0.2	0.03	7.0	0.3	0.09	9	<0.5	<0.2
1094422	Soil	12	98	1.41	271	0.164	<1	2.62	0.028	0.63	0.3	0.02	8.3	0.3	0.07	9	<0.5	<0.2
1094423	Soil	9	70	1.06	175	0.122	<1	2.19	0.016	0.41	0.2	0.03	5.3	0.2	0.10	8	0.5	<0.2
1094424	Soil	9	73	1.13	196	0.141	<1	2.39	0.018	0.54	<0.1	0.03	6.3	0.3	0.10	8	<0.5	<0.2
1094425	Soil	11	107	1.47	357	0.159	<1	2.64	0.019	0.69	0.3	0.05	8.4	0.3	0.15	10	<0.5	<0.2
1094426	Soil	10	94	1.34	336	0.147	<1	2.39	0.022	0.72	0.4	0.06	7.5	0.3	0.21	9	<0.5	<0.2
1094408	Soil	14	81	1.23	273	0.124	<1	2.47	0.017	0.55	<0.1	0.03	6.2	0.3	0.11	8	<0.5	<0.2
1094409	Soil	16	88	1.34	296	0.135	<1	2.80	0.019	0.63	0.4	0.03	7.1	0.3	0.11	10	<0.5	<0.2
1094410	Soil	12	73	1.16	251	0.135	<1	2.11	0.018	0.62	<0.1	0.01	6.0	0.3	0.08	8	<0.5	<0.2
1094411	Soil	12	100	1.40	304	0.136	<1	2.67	0.016	0.66	0.1	0.03	6.2	0.3	0.10	9	0.6	<0.2



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Project: SAP
Report Date: August 31, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1094419	Soil	1.1	79.2	6.7	114	0.2	77.0	26.2	513	4.45	284.6	1.1	12.1	2.8	37	0.2	0.6	0.2	112	0.30	0.066
1094418	Soil	1.0	52.1	4.9	98	0.2	50.4	19.0	421	3.40	174.5	1.0	9.0	1.3	37	0.2	0.3	0.2	89	0.41	0.102
1094417	Soil	1.1	80.5	7.6	134	0.3	81.0	31.7	601	4.62	326.2	1.2	17.6	2.2	41	0.2	0.5	0.3	112	0.32	0.083
1094416	Soil	1.2	79.0	6.3	111	0.2	58.6	21.3	481	4.42	115.4	1.3	4.6	2.7	40	<0.1	0.3	0.2	118	0.30	0.067
1094415	Soil	0.9	61.3	5.0	104	0.2	61.5	21.5	451	3.89	152.0	1.0	27.0	2.9	35	0.1	0.3	0.2	100	0.34	0.084
1094414	Soil	1.0	61.5	4.8	106	0.2	62.0	21.8	452	3.85	152.7	1.0	25.6	2.8	35	0.1	0.2	0.2	102	0.33	0.084
1094413	Soil	1.3	65.8	4.8	107	0.2	57.8	22.2	422	4.24	57.3	1.2	4.1	2.1	40	0.1	0.2	0.2	129	0.38	0.071
1094412	Soil	1.2	64.2	4.7	105	0.3	56.6	15.4	366	4.06	34.9	1.2	4.9	1.8	45	<0.1	0.2	0.2	121	0.40	0.067
1094406	Soil	1.0	67.6	4.2	102	0.2	58.1	22.0	396	3.95	48.8	1.1	2.4	3.4	39	<0.1	0.2	0.2	109	0.28	0.075
1094407	Soil	1.1	79.7	4.9	109	0.2	62.9	20.8	410	4.15	48.4	1.1	15.5	3.3	37	<0.1	0.2	0.2	111	0.27	0.063
1094405	Soil	1.1	80.4	5.6	115	0.3	69.7	22.9	456	4.24	145.9	1.2	5.1	2.8	40	<0.1	0.3	0.2	114	0.32	0.063
1094404	Soil	1.3	66.3	6.6	102	0.3	56.6	18.2	466	4.16	308.9	1.4	8.3	1.8	48	<0.1	0.5	0.2	109	0.43	0.091
1094403	Soil	1.1	79.0	6.9	117	0.3	79.7	27.5	547	4.76	82.9	1.4	3.0	3.5	41	<0.1	0.3	0.2	130	0.30	0.066
1094402	Soil	1.0	69.3	5.9	111	0.2	73.6	24.3	475	3.94	65.1	1.1	4.4	3.2	42	<0.1	0.3	0.2	92	0.35	0.074
1094401	Soil	0.9	61.1	4.4	94	0.1	54.7	17.8	385	3.51	68.2	0.9	2.5	2.4	33	<0.1	0.2	0.1	84	0.29	0.069
1070200	Soil	1.2	87.5	4.9	111	0.2	74.4	21.7	401	3.86	24.7	1.1	3.4	3.0	32	0.1	0.2	0.2	86	0.24	0.083
1070199	Soil	1.1	94.9	3.9	129	0.2	90.1	27.2	442	4.04	28.6	0.9	1.9	3.3	28	0.2	0.2	0.2	93	0.24	0.072
1070198	Soil	0.9	62.5	5.0	103	0.2	57.0	21.2	527	3.88	67.4	1.1	14.6	2.2	30	0.1	0.3	0.2	109	0.27	0.072
1070197	Soil	1.0	77.1	4.5	109	0.3	62.6	24.2	432	3.51	93.3	1.3	3.7	2.4	29	<0.1	0.2	0.2	89	0.30	0.096
1070196	Soil	1.2	118.8	4.5	128	0.2	68.3	25.6	466	4.18	18.0	0.8	0.9	2.7	25	0.3	0.2	0.2	97	0.26	0.086
1064129	Soil	1.2	73.8	10.6	88	0.1	47.8	20.4	537	4.40	58.2	0.5	36.8	1.1	23	0.1	0.2	0.3	135	0.26	0.087
1064130	Soil	1.3	72.0	6.0	85	<0.1	48.0	18.8	542	4.20	6.9	0.5	1.7	1.2	24	0.3	0.3	0.2	125	0.32	0.119
1064131	Soil	1.6	78.7	6.9	93	<0.1	60.1	27.6	666	4.13	10.3	0.5	<0.5	1.1	22	0.3	0.3	0.2	115	0.30	0.128
1064132	Soil	1.3	46.3	6.5	80	<0.1	36.2	15.6	509	3.75	7.7	0.5	0.5	0.9	18	0.2	0.3	0.2	113	0.22	0.086
1064133	Soil	0.8	51.4	4.7	71	<0.1	36.8	15.2	413	3.79	5.5	0.4	3.2	1.2	19	0.2	0.2	0.1	115	0.30	0.103
1064134	Soil	1.1	57.0	6.2	73	<0.1	52.6	20.6	475	3.65	7.3	0.5	1.1	1.2	20	0.2	0.3	0.2	111	0.27	0.100
1064135	Soil	1.4	52.7	6.0	86	<0.1	37.1	17.1	566	3.86	6.5	0.5	1.1	1.0	23	0.2	0.3	0.2	117	0.27	0.107
1064136	Soil	0.8	59.3	6.0	79	<0.1	47.3	20.4	515	3.73	7.5	0.5	5.0	1.5	25	0.1	0.3	0.1	110	0.33	0.120
1064137	Soil	0.9	65.0	6.8	81	<0.1	56.7	23.2	581	3.48	11.9	0.5	2.4	1.3	20	0.2	0.3	0.2	99	0.28	0.089
1064138	Soil	0.9	68.6	5.8	81	<0.1	57.6	26.4	547	3.95	8.7	0.5	<0.5	1.3	25	0.2	0.2	0.1	113	0.41	0.136



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1094419	Soil	13	98	1.38	242	0.145	<1	2.75	0.019	0.59	0.1	0.03	7.3	0.3	0.11	9	<0.5
1094418	Soil	9	71	1.07	191	0.096	1	2.21	0.013	0.49	0.2	0.04	4.8	0.3	0.13	7	<0.5
1094417	Soil	13	98	1.44	247	0.123	<1	3.03	0.015	0.66	0.3	0.03	6.7	0.4	0.08	10	0.8
1094416	Soil	13	86	1.35	250	0.141	<1	2.93	0.019	0.63	0.2	0.03	7.1	0.4	0.11	10	0.7
1094415	Soil	11	78	1.24	221	0.131	<1	2.47	0.017	0.62	0.2	0.02	6.6	0.3	0.06	8	0.5
1094414	Soil	11	79	1.25	227	0.128	<1	2.46	0.017	0.62	0.1	0.02	6.5	0.3	0.07	8	<0.5
1094413	Soil	12	106	1.56	380	0.155	<1	2.83	0.019	0.76	0.1	0.04	7.5	0.3	0.12	10	<0.5
1094412	Soil	12	96	1.45	348	0.142	1	2.63	0.019	0.71	0.1	0.03	6.8	0.3	0.14	10	<0.5
1094406	Soil	15	87	1.36	311	0.145	<1	2.59	0.018	0.72	<0.1	0.02	6.9	0.3	0.13	9	<0.5
1094407	Soil	15	82	1.33	257	0.143	<1	2.67	0.019	0.63	0.1	0.01	6.6	0.3	0.12	9	<0.5
1094405	Soil	15	87	1.40	291	0.140	<1	2.79	0.016	0.66	<0.1	0.02	7.0	0.3	0.11	10	0.8
1094404	Soil	16	85	1.31	296	0.110	<1	2.65	0.017	0.56	<0.1	0.04	6.0	0.3	0.14	9	<0.5
1094403	Soil	17	107	1.62	358	0.155	<1	3.19	0.015	0.70	<0.1	0.02	8.7	0.4	0.08	11	0.6
1094402	Soil	15	71	1.21	219	0.107	<1	2.44	0.014	0.54	0.1	0.02	5.7	0.3	0.06	8	<0.5
1094401	Soil	14	67	1.07	174	0.097	<1	2.16	0.013	0.42	<0.1	0.02	4.7	0.3	0.07	7	<0.5
1070200	Soil	16	66	1.06	122	0.089	<1	2.32	0.013	0.36	<0.1	0.03	4.3	0.3	0.08	7	<0.5
1070199	Soil	16	67	1.13	108	0.096	1	2.32	0.011	0.36	<0.1	0.01	4.4	0.3	0.16	7	<0.5
1070198	Soil	12	80	1.27	205	0.117	<1	2.58	0.013	0.44	0.1	0.02	5.3	0.3	0.11	8	<0.5
1070197	Soil	17	63	1.07	135	0.084	<1	2.19	0.012	0.30	<0.1	0.02	4.6	0.2	0.10	6	0.8
1070196	Soil	14	67	1.16	101	0.097	<1	2.49	0.010	0.31	0.1	0.03	4.5	0.3	0.09	7	0.6
1064129	Soil	5	72	1.13	295	0.211	<1	2.85	0.017	0.58	0.2	0.01	8.4	0.3	0.11	9	<0.5
1064130	Soil	6	69	1.09	270	0.210	<1	2.61	0.020	0.56	0.2	0.02	8.3	0.3	0.11	8	0.8
1064131	Soil	5	65	1.03	228	0.186	1	2.62	0.015	0.48	0.1	0.02	7.3	0.3	0.08	8	<0.5
1064132	Soil	5	63	0.97	243	0.182	1	2.34	0.016	0.62	0.2	<0.01	7.0	0.2	0.05	9	<0.5
1064133	Soil	5	64	1.00	226	0.213	<1	2.33	0.017	0.57	0.2	0.02	7.9	0.3	0.07	8	<0.5
1064134	Soil	7	60	0.91	186	0.176	<1	2.23	0.012	0.36	0.1	0.02	6.6	0.2	<0.05	7	0.8
1064135	Soil	5	65	1.00	236	0.199	<1	2.54	0.015	0.56	0.2	0.02	7.8	0.3	0.09	8	0.8
1064136	Soil	6	63	0.99	247	0.199	<1	2.48	0.015	0.55	0.2	0.02	7.3	0.3	<0.05	8	<0.5
1064137	Soil	7	55	0.88	183	0.153	<1	2.22	0.012	0.34	0.1	0.02	5.9	0.2	<0.05	7	<0.5
1064138	Soil	5	66	0.98	279	0.201	<1	2.33	0.014	0.68	0.2	0.01	8.3	0.2	<0.05	7	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1064139	Soil				0.9	56.4	8.0	96	0.1	55.3	21.3	542	4.10	9.6	0.6	17.3	1.4	26	0.2	0.3	0.2	117	0.32	0.115
1064140	Soil				0.9	56.7	4.8	93	0.1	50.8	19.6	482	3.88	6.0	0.4	0.9	1.1	19	0.1	0.1	0.1	114	0.27	0.102
1064141	Soil				0.7	51.1	4.3	81	0.1	48.3	21.1	491	3.59	5.1	0.4	1.1	1.0	22	<0.1	0.1	0.1	114	0.25	0.103
1064142	Soil				1.2	52.7	6.3	87	0.1	56.7	26.3	622	3.96	5.9	0.5	0.8	1.2	23	0.2	0.2	0.2	114	0.26	0.087
1064143	Soil				1.0	54.1	5.3	77	<0.1	53.2	21.5	529	3.66	6.1	0.4	1.1	1.1	18	<0.1	0.2	0.1	114	0.27	0.105
1064144	Soil				0.9	52.1	5.0	75	<0.1	48.0	19.1	509	3.37	6.2	0.5	1.8	1.4	20	0.1	0.2	0.1	104	0.31	0.123
1064145	Soil				1.0	51.9	6.9	76	<0.1	48.7	19.9	544	3.66	8.5	0.5	1.5	1.1	17	0.1	0.2	0.2	110	0.20	0.077
1064146	Soil				1.1	62.3	7.4	91	0.1	56.2	22.6	693	4.07	6.1	0.6	10.1	1.5	23	0.1	0.2	0.2	122	0.31	0.112
1064147	Soil				1.5	57.7	6.9	89	<0.1	61.9	25.1	616	3.77	6.6	0.5	<0.5	1.3	14	<0.1	0.2	0.2	121	0.13	0.066
1064148	Soil				1.0	39.2	6.4	71	<0.1	38.8	13.8	419	3.49	7.0	0.5	<0.5	1.1	17	<0.1	0.3	0.2	105	0.14	0.048
1064149	Soil				0.9	52.0	4.9	80	<0.1	46.7	17.8	518	3.71	6.0	0.5	1.1	1.5	20	<0.1	0.2	0.2	117	0.17	0.061
1064150	Soil				1.0	52.3	5.2	82	<0.1	48.6	19.1	530	3.76	6.2	0.5	<0.5	1.5	20	0.1	0.2	0.2	118	0.18	0.062
1064151	Soil				0.6	45.8	4.6	80	<0.1	44.8	18.0	414	3.58	6.1	0.5	<0.5	1.3	18	<0.1	0.2	0.1	111	0.18	0.054
1064117	Soil				0.7	42.6	5.0	77	<0.1	36.0	15.7	366	3.10	14.7	0.5	1.3	1.7	24	0.2	0.2	0.1	86	0.31	0.094
1064118	Soil				0.8	39.6	4.5	70	<0.1	32.3	14.2	405	3.06	8.3	0.5	0.7	1.6	20	0.2	0.2	0.1	93	0.24	0.073
1064127	Soil				0.7	50.5	5.2	63	0.1	40.4	16.8	440	3.44	20.4	0.6	8.5	1.5	23	0.2	0.3	0.1	101	0.28	0.081
1064128	Soil				1.1	54.5	7.2	74	<0.1	49.3	21.0	491	3.80	25.7	0.5	3.6	1.1	19	0.2	0.3	0.2	108	0.21	0.086
1064126	Soil				1.1	76.2	6.7	92	<0.1	68.9	31.6	722	3.80	11.2	0.6	2.0	1.7	23	0.2	0.3	0.2	99	0.25	0.092
1064125	Soil				1.0	64.1	7.7	81	0.2	54.2	24.1	579	4.21	10.8	0.6	0.6	1.6	30	0.2	0.3	0.2	117	0.24	0.088
1064124	Soil				0.7	50.8	7.7	85	<0.1	52.4	21.1	471	3.92	9.6	0.6	1.4	1.9	20	<0.1	0.3	0.1	112	0.21	0.065
1064123	Soil				1.1	68.9	8.1	97	0.1	55.0	25.1	529	3.83	15.6	0.7	0.8	1.5	25	0.2	0.3	0.2	101	0.28	0.108
1064119	Soil				0.7	46.1	4.5	72	<0.1	40.3	16.3	372	3.23	6.6	0.4	<0.5	1.3	18	<0.1	0.2	0.1	98	0.20	0.060
1064120	Soil				1.1	42.1	7.6	81	0.2	39.5	17.2	607	3.90	8.0	0.5	1.1	0.8	18	<0.1	0.3	0.2	109	0.19	0.077
1064121	Soil				1.1	93.1	11.3	152	0.2	82.6	36.2	590	4.91	23.2	0.9	2.8	2.3	37	0.3	0.7	0.2	98	0.35	0.139
1064122	Soil				1.2	90.5	11.7	152	0.2	86.2	36.1	573	4.87	23.6	0.8	3.4	2.5	39	0.3	0.7	0.2	98	0.37	0.136
1075789	Soil				0.5	32.1	4.2	80	0.2	37.1	14.8	444	3.45	51.6	0.5	7.2	1.3	62	<0.1	0.1	0.1	97	0.48	0.111
1075790	Soil				0.4	34.0	3.1	80	<0.1	38.0	13.2	415	3.53	50.8	0.4	7.1	1.5	50	<0.1	0.1	0.1	101	0.48	0.121
1075783	Soil				1.0	39.2	5.1	78	0.2	36.7	17.3	506	3.60	61.5	0.5	4.5	1.3	40	0.1	0.3	0.1	94	0.38	0.063
1075784	Soil				0.5	35.4	3.4	82	0.1	39.0	13.6	412	3.64	61.8	0.4	8.8	1.2	31	<0.1	0.1	0.1	109	0.33	0.074
1075791	Soil				0.6	43.8	4.3	81	0.1	42.6	16.4	442	3.88	63.6	0.6	9.2	1.7	58	<0.1	0.2	0.1	110	0.57	0.108



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1064139	Soil	7	71	0.99	272	0.184	<1	2.50	0.013	0.53	0.2	0.02	7.8	0.2	<0.05	8	0.6	<0.2
1064140	Soil	4	71	0.99	297	0.208	<1	2.41	0.013	0.74	0.2	<0.01	8.2	0.2	<0.05	8	<0.5	<0.2
1064141	Soil	4	65	0.97	328	0.216	<1	2.31	0.017	0.76	0.1	<0.01	7.8	0.3	<0.05	8	<0.5	<0.2
1064142	Soil	6	69	1.03	283	0.199	<1	2.43	0.013	0.54	0.2	0.02	7.5	0.3	<0.05	9	<0.5	<0.2
1064143	Soil	4	67	0.99	305	0.201	<1	2.49	0.014	0.67	0.1	0.02	7.6	0.3	<0.05	8	<0.5	<0.2
1064144	Soil	6	59	0.91	254	0.186	<1	2.30	0.013	0.54	0.2	0.02	6.9	0.2	<0.05	7	<0.5	<0.2
1064145	Soil	5	64	0.93	254	0.185	<1	2.63	0.012	0.54	0.2	0.02	7.2	0.2	<0.05	8	<0.5	<0.2
1064146	Soil	6	73	1.06	313	0.204	<1	2.78	0.014	0.67	0.2	0.02	8.5	0.3	<0.05	9	<0.5	<0.2
1064147	Soil	5	68	1.00	291	0.213	<1	2.87	0.012	0.67	0.2	0.02	7.4	0.3	<0.05	9	<0.5	<0.2
1064148	Soil	6	61	0.90	178	0.174	<1	2.18	0.012	0.38	0.1	0.03	5.9	0.2	<0.05	8	<0.5	<0.2
1064149	Soil	6	74	1.10	303	0.219	<1	2.80	0.016	0.73	0.2	0.01	8.0	0.2	<0.05	8	0.6	<0.2
1064150	Soil	6	76	1.12	323	0.226	<1	2.87	0.014	0.77	0.1	0.02	8.4	0.3	<0.05	8	0.5	<0.2
1064151	Soil	5	76	1.13	294	0.220	<1	2.62	0.013	0.73	0.2	0.02	8.1	0.3	<0.05	8	<0.5	<0.2
1064117	Soil	7	52	0.87	193	0.151	<1	1.93	0.012	0.44	0.1	0.01	5.7	0.2	<0.05	7	<0.5	<0.2
1064118	Soil	7	52	0.85	186	0.154	<1	1.95	0.014	0.41	0.1	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
1064127	Soil	8	53	0.85	166	0.158	<1	2.08	0.014	0.39	0.1	0.02	5.9	0.2	<0.05	6	<0.5	<0.2
1064128	Soil	6	58	0.96	207	0.162	<1	2.33	0.019	0.47	0.2	0.03	6.4	0.2	0.11	8	<0.5	<0.2
1064126	Soil	7	55	0.86	163	0.153	<1	2.21	0.017	0.36	0.1	0.02	6.1	0.2	0.09	7	<0.5	<0.2
1064125	Soil	8	75	1.11	256	0.176	<1	2.83	0.016	0.46	0.1	0.03	7.1	0.2	0.06	8	<0.5	<0.2
1064124	Soil	8	78	1.11	203	0.170	<1	2.63	0.013	0.45	0.1	0.01	7.3	0.2	<0.05	8	<0.5	<0.2
1064123	Soil	8	63	1.00	201	0.144	<1	2.39	0.014	0.41	<0.1	0.02	6.9	0.2	0.06	8	0.6	<0.2
1064119	Soil	6	58	0.91	210	0.167	<1	2.09	0.014	0.44	0.2	0.01	6.2	0.2	0.06	7	<0.5	<0.2
1064120	Soil	5	69	1.06	210	0.135	<1	2.83	0.011	0.41	0.1	0.03	6.3	0.3	0.06	9	<0.5	<0.2
1064121	Soil	11	69	1.15	169	0.087	<1	2.54	0.013	0.33	0.1	0.03	6.2	0.2	<0.05	8	<0.5	<0.2
1064122	Soil	11	68	1.15	158	0.081	<1	2.58	0.013	0.31	0.1	0.02	6.1	0.2	<0.05	8	<0.5	<0.2
1075789	Soil	6	76	1.12	444	0.181	<1	2.74	0.018	0.59	0.3	0.01	6.0	0.2	<0.05	9	<0.5	<0.2
1075790	Soil	5	79	1.18	386	0.193	<1	2.52	0.020	0.84	0.2	<0.01	6.7	0.3	<0.05	8	<0.5	<0.2
1075783	Soil	6	68	1.08	268	0.160	<1	2.57	0.014	0.59	0.2	<0.01	5.6	0.2	<0.05	8	<0.5	<0.2
1075784	Soil	5	80	1.14	331	0.199	<1	2.89	0.016	0.94	0.2	0.02	7.7	0.3	<0.05	9	<0.5	<0.2
1075791	Soil	6	94	1.37	465	0.232	<1	2.90	0.021	0.69	0.2	0.01	6.4	0.3	<0.05	9	<0.5	<0.2



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		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
1075792	Soil	0.4	25.3	2.7	68	<0.1	30.6	11.9	323	3.02	34.0	0.3	5.8	1.0	30	<0.1	0.1	<0.1	101	0.31	0.055
1075785	Soil	1.5	53.3	6.9	87	0.4	46.9	26.0	678	4.23	89.9	0.6	12.7	1.8	54	<0.1	0.3	0.2	115	0.45	0.055
1075788	Soil	0.4	31.7	3.3	75	0.1	37.9	13.2	330	3.37	33.8	0.5	6.8	1.4	46	<0.1	0.1	0.1	98	0.42	0.095
1075793	Soil	0.8	51.2	4.4	93	0.4	41.9	17.1	506	3.80	61.0	0.7	9.9	0.9	50	<0.1	0.2	0.2	121	0.53	0.084
1075794	Soil	0.5	36.3	3.2	82	0.2	36.2	13.4	362	3.51	74.1	0.5	21.4	1.4	69	<0.1	0.1	<0.1	106	0.55	0.106
1075787	Soil	0.6	54.9	4.3	87	0.3	44.1	18.4	458	3.71	55.8	0.7	11.3	1.7	54	<0.1	0.2	0.2	117	0.54	0.093
1075786	Soil	0.7	33.7	3.6	78	<0.1	38.9	16.1	453	3.54	60.3	0.4	8.3	1.3	44	<0.1	0.2	0.1	111	0.43	0.070
1075796	Soil	0.9	35.6	3.1	63	<0.1	34.3	13.2	314	3.05	60.3	0.4	4.4	1.4	38	<0.1	0.1	0.1	97	0.41	0.090
1075802	Soil	0.9	48.9	4.6	118	0.3	43.9	20.5	517	3.45	59.6	0.8	5.6	1.5	62	0.1	0.2	0.2	92	0.66	0.094
1075799	Soil	1.1	62.2	5.5	93	0.2	36.6	23.6	589	3.57	32.5	1.0	5.2	1.8	38	0.2	0.2	0.1	92	0.46	0.075
1075798	Soil	0.7	32.5	3.3	69	0.3	32.7	15.0	340	3.02	46.3	0.6	8.9	1.5	55	<0.1	0.2	0.1	89	0.52	0.113
1075797	Soil	2.0	37.4	6.6	96	0.2	32.3	21.2	524	3.86	36.1	0.6	6.1	2.2	34	0.1	0.3	0.1	100	0.39	0.047
1075795	Soil	0.7	34.4	3.7	91	0.2	39.0	15.6	417	3.53	45.3	0.4	6.0	1.3	47	<0.1	0.1	0.1	101	0.44	0.039
1075801	Soil	0.9	58.0	3.5	69	0.2	37.8	16.8	361	3.11	33.8	1.1	6.8	1.7	48	<0.1	0.2	0.1	85	0.67	0.103
1075803	Soil	1.0	28.2	4.9	80	<0.1	38.4	17.4	376	3.60	29.1	0.4	2.5	1.4	29	<0.1	0.2	0.1	102	0.34	0.032
1075800	Soil	1.4	30.7	7.1	95	<0.1	31.5	14.5	308	3.70	60.8	0.4	4.3	1.2	26	0.4	0.2	0.2	98	0.34	0.020
1063046	Soil	0.8	28.5	3.8	64	0.2	34.5	13.6	392	3.02	44.9	0.4	8.7	1.4	31	<0.1	0.1	0.1	87	0.39	0.077
1075777	Soil	0.4	28.4	2.6	58	<0.1	34.8	13.7	367	2.81	45.2	0.4	11.7	1.3	39	<0.1	0.1	<0.1	85	0.42	0.112
1075778	Soil	1.0	38.0	5.2	73	0.3	36.3	14.7	417	3.30	58.4	0.6	5.4	1.5	40	<0.1	0.2	0.1	92	0.37	0.081
1075779	Soil	1.2	46.0	6.4	86	0.2	45.7	18.9	474	3.99	77.6	0.6	8.6	1.9	37	<0.1	0.2	0.2	109	0.40	0.061
1075776	Soil	0.7	25.0	3.0	76	0.1	30.1	11.7	318	2.66	32.5	0.4	6.0	1.2	35	<0.1	0.2	0.1	79	0.41	0.066
1075780	Soil	1.6	75.3	8.0	89	1.5	55.4	34.3	1140	4.49	107.3	1.0	11.4	2.5	52	0.2	0.3	0.2	112	0.56	0.066
1075781	Soil	0.7	34.6	3.2	60	0.2	34.2	13.5	317	2.96	50.8	0.4	3.0	1.3	33	<0.1	0.2	0.1	78	0.35	0.070
1075782	Soil	0.4	35.6	3.1	70	<0.1	36.3	13.3	388	3.12	55.9	0.4	12.4	1.3	48	<0.1	0.1	0.1	95	0.49	0.114
1063050	Soil	1.0	38.5	6.7	81	0.3	38.4	16.3	364	3.52	72.5	0.4	3.4	1.4	34	0.2	0.3	0.2	90	0.38	0.062
1063049	Soil	1.0	30.5	4.7	83	0.1	38.6	15.9	424	3.43	67.2	0.4	8.4	1.5	30	<0.1	0.2	0.2	93	0.36	0.069
1063048	Soil	0.8	31.6	4.4	67	0.2	33.6	13.1	372	3.08	48.4	0.5	23.7	1.4	37	<0.1	0.1	0.1	86	0.44	0.081
1063047	Soil	0.8	40.4	4.4	69	0.1	40.8	17.7	427	3.39	60.5	0.5	6.4	1.4	49	<0.1	0.2	0.1	93	0.48	0.094



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1075792	Soil	4	66	0.94	262	0.194	<1	2.18	0.016	0.60	0.1	<0.01	6.4	0.2	<0.05	7	<0.5
1075785	Soil	7	81	1.20	315	0.201	<1	3.34	0.016	0.53	0.2	0.02	6.9	0.2	<0.05	9	<0.5
1075788	Soil	6	77	1.15	352	0.202	<1	2.68	0.018	0.68	0.2	<0.01	7.1	0.3	<0.05	9	<0.5
1075793	Soil	6	87	1.12	351	0.200	2	2.94	0.016	0.46	0.2	0.03	7.6	0.2	<0.05	10	<0.5
1075794	Soil	6	81	1.16	407	0.234	<1	2.90	0.023	0.81	0.2	<0.01	7.4	0.3	<0.05	9	<0.5
1075787	Soil	7	90	1.28	394	0.233	2	3.00	0.023	0.74	0.2	0.02	7.9	0.3	<0.05	10	<0.5
1075786	Soil	5	80	1.10	357	0.218	<1	2.68	0.019	0.69	0.3	<0.01	7.0	0.2	<0.05	9	<0.5
1075796	Soil	6	65	0.96	307	0.199	<1	2.35	0.018	0.51	0.2	<0.01	5.7	0.2	<0.05	7	<0.5
1075802	Soil	7	71	1.11	346	0.156	<1	2.55	0.020	0.43	0.2	0.04	6.0	0.2	<0.05	8	<0.5
1075799	Soil	11	60	0.87	374	0.160	1	2.56	0.018	0.20	0.1	0.02	5.5	0.2	<0.05	7	<0.5
1075798	Soil	7	65	0.99	351	0.183	<1	2.37	0.021	0.48	0.2	0.02	5.4	0.2	<0.05	7	<0.5
1075797	Soil	6	64	0.94	201	0.182	<1	2.54	0.013	0.31	0.2	0.01	5.3	0.2	<0.05	8	<0.5
1075795	Soil	5	83	1.21	283	0.223	1	2.78	0.017	0.73	0.1	<0.01	7.0	0.3	<0.05	9	<0.5
1075801	Soil	7	60	0.96	267	0.170	<1	2.04	0.022	0.48	0.2	0.02	5.6	0.2	<0.05	7	<0.5
1075803	Soil	5	70	1.01	243	0.197	<1	2.29	0.016	0.47	0.2	0.01	5.7	0.2	<0.05	8	<0.5
1075800	Soil	5	58	0.85	125	0.174	<1	1.96	0.013	0.17	0.2	0.02	4.2	0.1	<0.05	8	<0.5
1063046	Soil	5	67	0.98	289	0.171	1	2.32	0.018	0.55	0.3	<0.01	6.0	0.2	<0.05	7	<0.5
1075777	Soil	4	67	0.95	348	0.185	2	2.32	0.021	0.61	0.2	<0.01	5.8	0.2	<0.05	7	<0.5
1075778	Soil	7	68	1.02	285	0.172	<1	2.80	0.016	0.48	0.2	0.02	5.9	0.2	<0.05	8	<0.5
1075779	Soil	6	81	1.16	299	0.214	1	3.34	0.016	0.68	0.3	0.02	6.5	0.3	<0.05	10	<0.5
1075776	Soil	5	59	0.89	237	0.170	1	1.97	0.018	0.55	0.3	0.02	5.3	0.2	<0.05	7	<0.5
1075780	Soil	7	75	1.06	316	0.164	2	3.95	0.017	0.58	0.3	0.04	6.9	0.3	<0.05	10	<0.5
1075781	Soil	5	57	0.89	277	0.163	<1	2.51	0.021	0.54	0.2	0.01	4.9	0.2	<0.05	8	<0.5
1075782	Soil	5	70	0.97	356	0.191	1	2.27	0.022	0.70	0.2	<0.01	6.7	0.3	<0.05	8	<0.5
1063050	Soil	5	66	0.90	225	0.169	1	2.53	0.016	0.59	0.2	0.02	5.5	0.2	<0.05	8	<0.5
1063049	Soil	6	68	1.05	269	0.186	2	2.50	0.019	0.64	0.3	<0.01	5.6	0.2	<0.05	8	<0.5
1063048	Soil	6	65	0.97	290	0.156	<1	2.46	0.020	0.50	0.2	0.01	5.6	0.2	<0.05	8	<0.5
1063047	Soil	7	103	1.23	337	0.197	1	2.64	0.024	0.64	0.2	0.01	5.3	0.2	<0.05	8	<0.5



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QUALITY CONTROL REPORT

WHI11000963.1

Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																				
1059114	Soil	0.8	56.0	4.9	63	0.1	57.8	21.8	450	4.01	21.9	0.5	7.9	1.6	24	0.1	0.2	0.1	122	0.32
REP 1059114	QC	0.8	56.6	4.9	63	0.1	59.9	21.3	434	3.82	22.2	0.4	2.1	1.6	24	<0.1	0.2	0.2	122	0.32
1059119	Soil	0.8	54.0	4.5	60	0.2	56.1	17.9	429	4.14	18.4	0.5	18.0	1.6	26	<0.1	0.1	0.1	125	0.34
REP 1059119	QC	0.7	53.4	4.5	60	0.1	52.5	17.6	444	4.12	19.0	0.5	4.6	1.6	26	<0.1	0.1	0.2	126	0.32
1076709	Soil	0.9	77.8	5.9	57	0.2	79.9	30.1	583	4.43	68.0	0.5	9.5	1.3	30	0.2	0.3	0.2	125	0.36
REP 1076709	QC	1.0	79.2	5.8	60	0.1	82.1	31.3	619	4.66	69.8	0.5	11.8	1.3	32	0.2	0.4	0.2	124	0.37
1076727	Soil	1.2	46.1	6.7	73	0.2	42.7	16.5	481	3.82	68.9	0.5	6.2	0.9	24	<0.1	0.4	0.2	118	0.24
REP 1076727	QC	1.3	47.0	6.7	76	0.2	43.1	16.9	481	3.97	70.5	0.6	4.4	1.0	25	0.1	0.4	0.2	121	0.24
1076857	Soil	0.9	56.5	5.1	71	0.1	53.6	21.3	517	3.90	35.8	0.5	4.4	1.0	35	0.2	0.2	0.2	118	0.40
REP 1076857	QC	0.8	54.8	5.0	70	0.1	52.9	20.5	502	3.83	35.2	0.5	4.5	0.9	35	0.3	0.2	0.1	115	0.38
1076869	Soil	1.0	65.4	3.9	63	0.2	63.4	23.0	523	3.59	87.6	0.5	2.3	0.7	59	0.2	0.3	0.1	102	0.66
REP 1076869	QC	1.0	74.2	4.1	70	0.3	69.4	25.5	564	3.82	94.4	0.4	4.1	0.7	65	0.2	0.3	0.1	108	0.71
1059710	Soil	1.1	61.3	4.9	94	0.2	43.3	20.6	578	3.80	13.7	1.0	4.4	2.9	23	<0.1	0.2	0.2	81	0.21
REP 1059710	QC	1.0	58.7	4.7	91	0.2	41.8	20.8	559	3.75	12.1	1.0	5.3	2.5	22	<0.1	0.2	<0.1	80	0.22
1059734	Soil	1.4	48.7	7.1	67	0.2	34.7	13.6	432	3.35	9.9	1.1	4.6	0.8	29	0.2	0.4	0.4	85	0.33
REP 1059734	QC	1.4	49.3	7.1	71	0.3	34.6	13.9	449	3.40	10.8	1.1	2.8	0.8	30	0.1	0.4	0.3	84	0.34
1064025	Soil	0.6	66.6	4.5	66	<0.1	81.4	26.0	348	4.12	6.3	0.6	1.4	2.5	34	0.1	0.1	0.1	116	0.26
REP 1064025	QC	0.6	65.1	4.4	69	<0.1	83.1	26.1	334	4.04	6.3	0.6	0.8	2.4	34	0.2	0.2	0.1	117	0.27
1064031	Soil	1.3	47.1	7.0	71	<0.1	40.2	17.0	494	3.91	8.3	0.6	2.5	1.4	28	0.2	0.5	0.2	109	0.28
REP 1064031	QC	1.1	47.4	7.4	75	<0.1	40.8	17.3	482	3.97	7.9	0.7	0.8	1.5	28	0.2	0.4	0.2	113	0.29
1094424	Soil	1.1	63.2	5.3	96	0.2	53.1	20.3	402	3.86	91.4	0.8	4.2	2.1	30	0.2	0.3	0.2	101	0.21
REP 1094424	QC	0.9	60.9	5.3	91	0.1	50.8	20.2	400	3.78	88.8	0.8	3.3	2.0	30	0.1	0.3	0.2	99	0.20
1094417	Soil	1.1	80.5	7.6	134	0.3	81.0	31.7	601	4.62	326.2	1.2	17.6	2.2	41	0.2	0.5	0.3	112	0.32
REP 1094417	QC	1.0	80.4	7.6	137	0.3	81.9	31.3	590	4.57	325.5	1.2	18.9	2.2	41	0.2	0.6	0.3	111	0.32
1064142	Soil	1.2	52.7	6.3	87	0.1	56.7	26.3	622	3.96	5.9	0.5	0.8	1.2	23	0.2	0.2	0.2	114	0.26
REP 1064142	QC	1.0	49.2	6.1	83	<0.1	55.1	24.8	604	3.72	6.5	0.5	1.9	1.2	23	0.1	0.2	0.2	110	0.25
1064148	Soil	1.0	39.2	6.4	71	<0.1	38.8	13.8	419	3.49	7.0	0.5	<0.5	1.1	17	<0.1	0.3	0.2	105	0.14
REP 1064148	QC	1.1	39.2	6.6	73	<0.1	40.0	14.4	442	3.63	6.9	0.6	2.0	1.2	19	<0.1	0.4	0.2	107	0.15



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Sapphire Prospect
Soil Geochemistry

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Project:

SAP

Report Date:

August 31, 2011

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Part 2

QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
1059114	Soil	5	96	1.31	306	0.172	1	2.80	0.012	0.86	0.4	0.01	8.6	0.3	0.07	9	<0.5
REP 1059114	QC	5	96	1.24	315	0.174	<1	2.78	0.012	0.83	0.3	0.02	8.5	0.3	0.08	9	<0.5
1059119	Soil	6	84	1.32	365	0.189	2	2.89	0.017	0.97	0.5	0.02	9.0	0.3	0.09	9	0.5
REP 1059119	QC	6	87	1.34	357	0.185	2	2.88	0.016	0.97	0.3	0.03	9.1	0.3	0.10	9	0.6
1076709	Soil	5	82	1.18	268	0.147	<1	2.72	0.013	0.70	0.2	0.03	8.3	0.3	<0.05	9	0.8
REP 1076709	QC	5	84	1.23	270	0.154	<1	2.80	0.014	0.73	0.2	0.02	8.7	0.3	<0.05	9	1.0
1076727	Soil	6	73	1.03	238	0.117	<1	2.51	0.011	0.38	0.1	0.03	6.3	0.2	0.05	9	<0.5
REP 1076727	QC	6	76	1.06	244	0.120	1	2.59	0.011	0.40	0.1	0.03	6.6	0.2	0.05	9	<0.5
1076857	Soil	5	77	1.21	275	0.130	<1	2.66	0.017	0.59	0.4	0.10	7.4	0.2	<0.05	9	<0.5
REP 1076857	QC	5	76	1.17	272	0.132	<1	2.63	0.017	0.57	0.5	0.09	7.4	0.2	<0.05	8	<0.5
1076869	Soil	6	108	1.33	290	0.150	2	2.43	0.027	0.61	0.1	0.06	5.9	0.3	0.05	8	<0.5
REP 1076869	QC	6	116	1.49	313	0.160	2	2.57	0.028	0.70	0.2	0.07	5.7	0.3	<0.05	8	<0.5
1059710	Soil	13	57	1.04	119	0.085	<1	2.30	0.009	0.26	0.1	0.05	4.2	0.2	<0.05	7	<0.5
REP 1059710	QC	13	56	1.04	110	0.086	1	2.45	0.010	0.27	0.1	0.04	4.1	0.2	<0.05	7	<0.5
1059734	Soil	11	55	0.80	114	0.077	<1	2.04	0.010	0.15	<0.1	0.04	2.7	0.2	<0.05	7	0.8
REP 1059734	QC	12	56	0.81	114	0.078	1	2.07	0.010	0.15	<0.1	0.04	2.7	0.2	0.09	7	0.8
1064025	Soil	8	81	1.07	278	0.172	<1	2.61	0.022	0.54	0.1	<0.01	7.4	0.2	0.09	8	<0.5
REP 1064025	QC	8	82	1.12	281	0.163	<1	2.54	0.022	0.52	0.1	0.02	7.4	0.2	<0.05	8	0.6
1064031	Soil	8	76	1.18	200	0.166	1	2.48	0.026	0.31	0.1	<0.01	6.4	0.2	0.11	8	0.5
REP 1064031	QC	8	74	1.17	206	0.167	<1	2.51	0.025	0.31	0.1	<0.01	6.6	0.2	0.10	9	<0.5
1094424	Soil	9	73	1.13	196	0.141	<1	2.39	0.018	0.54	<0.1	0.03	6.3	0.3	0.10	8	<0.5
REP 1094424	QC	9	72	1.12	195	0.136	<1	2.38	0.018	0.53	0.2	0.03	6.1	0.3	0.10	8	<0.5
1094417	Soil	13	98	1.44	247	0.123	<1	3.03	0.015	0.66	0.3	0.03	6.7	0.4	0.08	10	0.8
REP 1094417	QC	13	97	1.44	240	0.120	<1	3.01	0.015	0.66	0.2	0.02	6.7	0.4	0.09	9	0.6
1064142	Soil	6	69	1.03	283	0.199	<1	2.43	0.013	0.54	0.2	0.02	7.5	0.3	<0.05	9	<0.5
REP 1064142	QC	6	67	1.02	280	0.194	<1	2.53	0.013	0.54	0.1	0.01	7.2	0.2	<0.05	8	<0.5
1064148	Soil	6	61	0.90	178	0.174	<1	2.18	0.012	0.38	0.1	0.03	5.9	0.2	<0.05	8	<0.5
REP 1064148	QC	7	65	0.97	182	0.181	1	2.41	0.012	0.39	0.1	0.02	6.2	0.2	<0.05	8	0.6



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Sapphire Prospect
Soil Geochemistry

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Project: SAP
Report Date: August 31, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1075783	Soil	1.0	39.2	5.1	78	0.2	36.7	17.3	506	3.60	61.5	0.5	4.5	1.3	40	0.1	0.3	0.1	94	0.38
REP 1075783	QC	0.9	40.2	5.1	80	0.2	38.3	17.5	518	3.63	62.6	0.5	33.3	1.4	39	<0.1	0.3	0.2	96	0.39
1075793	Soil	0.8	51.2	4.4	93	0.4	41.9	17.1	506	3.80	61.0	0.7	9.9	0.9	50	<0.1	0.2	0.2	121	0.53
REP 1075793	QC	0.9	50.3	4.5	94	0.5	42.8	16.9	509	3.87	64.9	0.7	9.1	1.0	50	0.1	0.2	0.2	117	0.52
1075779	Soil	1.2	46.0	6.4	86	0.2	45.7	18.9	474	3.99	77.6	0.6	8.6	1.9	37	<0.1	0.2	0.2	109	0.40
REP 1075779	QC	1.2	47.9	5.9	91	0.2	47.9	19.6	472	4.14	80.0	0.6	50.5	1.9	37	<0.1	0.2	0.2	115	0.40
Reference Materials																				
STD DS8	Standard	13.8	108.6	128.6	316	1.7	37.3	7.7	626	2.47	25.5	2.9	101.8	7.5	76	2.4	6.2	6.2	44	0.73
STD DS8	Standard	13.2	116.3	119.2	312	1.7	39.3	8.1	597	2.43	25.5	2.5	98.0	6.4	62	2.2	5.1	6.2	42	0.68
STD DS8	Standard	13.6	110.7	132.3	311	1.7	39.7	8.0	660	2.59	24.5	2.9	119.5	7.2	69	2.3	5.6	6.7	43	0.77
STD DS8	Standard	14.5	116.7	124.1	314	1.8	40.1	8.0	636	2.51	26.0	2.8	109.6	6.9	62	2.6	5.5	6.7	48	0.70
STD DS8	Standard	12.8	104.7	105.9	294	1.8	35.9	7.3	601	2.44	24.4	2.2	110.0	5.6	60	2.1	5.0	5.3	41	0.64
STD DS8	Standard	13.0	110.7	121.3	305	1.8	38.8	7.3	592	2.40	24.7	2.5	106.0	6.3	58	2.1	5.2	6.5	42	0.65
STD DS8	Standard	12.7	113.5	122.5	321	1.9	38.7	7.5	605	2.50	26.1	2.6	114.5	6.2	60	2.2	5.6	6.9	44	0.69
STD DS8	Standard	12.4	107.3	123.0	295	1.7	36.8	7.1	570	2.28	23.4	2.7	113.3	6.6	62	2.4	4.8	6.5	42	0.65
STD DS8	Standard	12.5	99.9	114.8	281	1.6	36.2	6.9	558	2.12	22.6	2.4	94.4	6.1	57	2.1	4.4	5.9	42	0.61
STD DS8	Standard	14.5	111.0	129.8	327	1.8	39.4	7.8	632	2.55	25.6	3.0	110.0	8.1	76	2.2	6.0	7.3	45	0.73
STD DS8	Standard	13.5	114.8	126.7	328	1.9	39.7	7.7	620	2.57	25.5	2.5	131.4	6.6	59	2.8	5.7	6.8	44	0.72
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	0.05	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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Sapphire Prospect
Soil Geochemistry

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Project: SAP
Report Date: August 31, 2011

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QUALITY CONTROL REPORT

WHI11000963.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1075783	Soil	6	68	1.08	268	0.160	<1	2.57	0.014	0.59	0.2	<0.01	5.6	0.2	<0.05	8	<0.5	<0.2
REP 1075783	QC	7	71	1.08	275	0.165	<1	2.70	0.016	0.61	0.3	0.01	5.6	0.2	<0.05	8	<0.5	<0.2
1075793	Soil	6	87	1.12	351	0.200	2	2.94	0.016	0.46	0.2	0.03	7.6	0.2	<0.05	10	<0.5	<0.2
REP 1075793	QC	6	87	1.17	362	0.196	<1	3.09	0.016	0.45	0.2	0.01	7.7	0.2	<0.05	10	<0.5	<0.2
1075779	Soil	6	81	1.16	299	0.214	1	3.34	0.016	0.68	0.3	0.02	6.5	0.3	<0.05	10	<0.5	<0.2
REP 1075779	QC	6	81	1.16	312	0.214	1	3.63	0.016	0.68	0.2	0.02	7.0	0.2	<0.05	10	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	119	0.61	300	0.128	3	0.95	0.110	0.42	3.3	0.19	2.7	5.7	0.14	5	5.5	5.2
STD DS8	Standard	14	118	0.61	279	0.110	2	0.90	0.085	0.41	3.1	0.19	2.1	5.4	0.24	5	5.9	4.7
STD DS8	Standard	15	122	0.64	292	0.120	5	1.00	0.107	0.46	3.2	0.23	3.8	5.6	0.22	5	5.6	5.0
STD DS8	Standard	15	130	0.63	282	0.123	2	0.98	0.086	0.43	3.4	0.22	2.2	5.9	0.17	5	5.2	5.1
STD DS8	Standard	13	114	0.55	262	0.109	3	0.87	0.081	0.40	2.9	0.17	1.9	5.1	0.15	4	4.6	4.8
STD DS8	Standard	13	116	0.60	253	0.098	2	0.87	0.081	0.40	2.7	0.19	2.0	5.1	0.16	4	5.2	4.9
STD DS8	Standard	14	121	0.63	285	0.103	3	0.91	0.086	0.42	3.0	0.22	1.9	5.5	0.17	5	5.3	5.4
STD DS8	Standard	14	111	0.57	257	0.113	3	0.83	0.081	0.39	2.8	0.21	2.1	5.3	0.16	4	3.9	4.7
STD DS8	Standard	13	108	0.51	237	0.108	1	0.80	0.080	0.37	2.5	0.19	2.0	4.8	0.15	4	4.8	3.9
STD DS8	Standard	19	120	0.65	288	0.136	3	0.95	0.093	0.43	3.2	0.03	2.2	5.6	0.16	5	5.2	5.0
STD DS8	Standard	13	125	0.66	270	0.105	2	0.95	0.087	0.44	3.4	0.19	2.0	5.8	0.18	5	5.6	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Sapphire Prospect
Soil Geochemistry

Client: **Ryan Gold Corp.**
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Vancouver BC V6C 1H2 Canada

Project: SAP

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

WHI11000963.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

WHI11000963.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Submitted By: Mike Skead
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: August 29, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000964.1

CLIENT JOB INFORMATION

Project: SAP
Shipment ID:
P.O. Number
Number of Samples: 264

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	264	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	264	Dry at 60C			VAN
1DX2	264	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: SAP
Report Date: August 29, 2011

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CERTIFICATE OF ANALYSIS

WHI11000964.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076883	Soil	0.7	25.9	4.7	67	0.2	30.5	12.8	300	2.79	15.0	0.3	2.5	1.2	19	0.2	0.2	0.2	75	0.29	0.130
1076881	Soil	0.8	31.7	4.6	67	0.2	31.7	13.0	376	2.99	11.2	0.4	3.5	1.0	31	0.2	0.2	0.2	83	0.44	0.118
1076874	Soil	1.0	29.5	5.9	92	0.3	37.9	15.3	389	3.52	14.3	0.4	3.3	1.5	21	0.2	0.3	0.2	93	0.26	0.086
1076879	Soil	1.1	36.9	5.5	81	0.3	37.8	16.4	373	3.57	15.5	0.4	2.0	1.5	22	0.2	0.3	0.1	99	0.25	0.069
1076872	Soil	0.8	30.8	4.8	63	0.3	32.7	14.6	424	3.21	12.5	0.4	52.8	1.2	24	0.2	0.2	0.2	90	0.28	0.075
1076873	Soil	0.6	25.9	4.3	57	0.2	33.6	12.2	309	3.05	13.6	0.3	2.2	1.2	22	0.1	0.2	0.1	78	0.30	0.100
1076875	Soil	0.7	27.3	5.4	66	0.1	35.1	13.1	295	3.35	13.6	0.4	23.3	1.4	21	0.2	0.3	0.1	79	0.28	0.103
1076876	Soil	0.8	36.0	4.7	69	0.1	43.5	16.1	369	3.63	16.2	0.4	2.1	1.5	22	0.1	0.2	0.2	100	0.28	0.092
1076877	Soil	0.9	24.3	6.1	81	0.2	31.5	14.9	419	3.29	11.7	0.4	2.6	1.5	23	0.2	0.3	0.2	79	0.28	0.080
1076882	Soil	0.9	34.8	4.7	68	0.2	35.3	13.2	350	3.14	14.3	0.4	2.5	1.4	25	<0.1	0.2	0.1	83	0.31	0.099
1076878	Soil	0.7	25.9	4.7	71	0.1	33.7	11.6	350	3.18	14.1	0.4	2.6	1.2	22	0.1	0.2	0.1	87	0.28	0.092
1076880	Soil	1.1	31.1	7.0	127	0.3	34.4	21.8	698	3.53	12.4	0.5	3.5	1.5	25	0.3	0.4	0.2	86	0.34	0.115
1076896	Soil	0.6	40.6	3.3	59	0.1	35.3	12.1	356	2.89	12.2	0.4	1.8	1.2	23	<0.1	0.1	<0.1	82	0.35	0.117
1076902	Soil	0.8	28.1	4.7	61	0.2	27.8	11.9	306	2.65	14.5	0.4	1.3	1.5	23	0.1	0.2	0.1	67	0.31	0.077
1076903	Soil	0.6	31.4	3.8	55	0.1	35.4	12.8	340	2.86	20.2	0.4	4.4	1.8	23	<0.1	0.2	0.1	71	0.34	0.115
1076900	Soil	0.6	31.2	5.0	58	0.1	38.2	13.4	319	2.84	19.2	0.4	70.5	1.4	25	<0.1	0.2	0.1	70	0.34	0.125
1076901	Soil	0.5	34.2	4.2	56	0.1	34.9	12.1	309	2.74	18.8	0.4	2.6	1.5	22	<0.1	0.2	0.1	69	0.29	0.087
1076898	Soil	0.8	29.4	5.0	67	0.3	33.9	13.2	318	3.17	16.5	0.4	5.7	1.6	18	0.2	0.2	0.1	84	0.23	0.076
1076897	Soil	0.5	25.4	5.3	74	0.1	31.4	13.1	297	2.97	13.0	0.4	2.0	1.3	21	0.2	0.3	0.2	74	0.25	0.084
1076899	Soil	0.8	58.9	5.3	66	0.4	44.9	14.5	456	3.05	30.6	0.6	50.5	1.5	30	0.1	0.2	0.2	84	0.41	0.112
1076894	Soil	0.7	39.2	4.3	76	0.1	36.5	13.3	400	3.23	12.4	0.4	4.2	1.4	21	<0.1	0.1	0.1	92	0.33	0.100
1076895	Soil	0.8	40.4	4.4	73	0.2	38.1	13.3	424	3.34	13.0	0.4	6.7	1.5	22	<0.1	0.1	0.1	97	0.34	0.103
1076891	Soil	0.6	51.2	4.4	63	0.4	39.4	14.2	371	3.31	14.0	0.5	2.6	1.4	29	<0.1	0.2	0.1	92	0.33	0.081
1076892	Soil	0.6	25.1	5.5	81	0.2	31.0	13.6	415	3.04	14.1	0.4	2.4	1.3	25	0.2	0.3	0.1	73	0.33	0.111
1076890	Soil	1.1	31.1	4.8	62	0.3	33.9	11.1	302	3.15	14.5	0.4	5.0	1.3	20	<0.1	0.3	0.1	86	0.22	0.056
1076893	Soil	1.0	62.5	6.1	79	0.4	46.6	19.5	528	3.41	16.5	0.5	2.9	1.3	30	0.1	0.2	0.2	95	0.35	0.078
1076888	Soil	0.6	45.5	3.8	66	0.1	45.4	14.5	369	3.31	15.0	0.4	5.5	1.5	23	<0.1	0.2	0.2	94	0.32	0.098
1076889	Soil	0.9	34.9	4.8	64	0.2	35.0	12.4	355	3.06	12.8	0.4	2.6	1.3	25	<0.1	0.1	0.2	86	0.29	0.073
1076885	Soil	0.9	22.9	5.4	66	0.3	25.7	10.1	272	2.78	9.4	0.4	1.8	1.1	33	0.2	0.3	0.2	77	0.37	0.066
1076887	Soil	0.5	34.9	3.3	54	0.1	32.8	11.4	312	2.78	13.1	0.4	3.3	1.7	24	<0.1	0.1	0.1	74	0.37	0.120



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Report Date:

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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1076883	Soil	5	47	0.76	138	0.121	1	1.82	0.009	0.37	0.2	0.01	4.2	0.1	0.07	6	<0.5
1076881	Soil	5	51	0.89	193	0.140	1	1.82	0.010	0.57	0.2	0.02	5.1	0.2	0.07	7	<0.5
1076874	Soil	5	59	0.96	123	0.173	1	2.37	0.009	0.47	0.2	0.03	5.7	0.2	<0.05	8	<0.5
1076879	Soil	5	64	1.02	156	0.197	2	2.29	0.010	0.69	0.2	0.02	6.2	0.2	<0.05	8	<0.5
1076872	Soil	6	57	0.90	207	0.172	1	2.09	0.013	0.48	0.2	0.02	5.3	0.2	<0.05	7	<0.5
1076873	Soil	4	51	0.87	140	0.129	<1	1.87	0.008	0.47	0.2	0.02	4.8	0.2	<0.05	6	<0.5
1076875	Soil	5	52	0.90	79	0.123	<1	1.96	0.007	0.39	0.2	0.02	4.5	0.2	<0.05	7	<0.5
1076876	Soil	5	66	1.03	197	0.179	1	2.38	0.014	0.61	0.2	0.02	6.4	0.3	<0.05	7	<0.5
1076877	Soil	5	51	0.88	160	0.139	<1	1.89	0.009	0.38	0.1	0.01	4.5	0.2	<0.05	7	<0.5
1076882	Soil	5	52	0.87	201	0.148	<1	2.02	0.010	0.49	0.2	0.02	5.5	0.2	<0.05	7	<0.5
1076878	Soil	5	57	0.90	199	0.169	<1	2.01	0.009	0.54	0.1	0.02	5.6	0.2	<0.05	7	<0.5
1076880	Soil	6	54	0.89	170	0.143	<1	1.95	0.010	0.45	0.2	0.02	5.0	0.2	0.06	7	<0.5
1076896	Soil	4	54	0.86	211	0.165	<1	1.92	0.011	0.54	0.2	<0.01	6.0	0.2	<0.05	6	<0.5
1076902	Soil	6	42	0.70	137	0.124	1	1.60	0.013	0.34	0.2	0.01	3.7	0.1	<0.05	6	<0.5
1076903	Soil	6	49	0.83	165	0.129	<1	2.00	0.011	0.43	0.2	0.01	4.5	0.2	0.05	6	<0.5
1076900	Soil	5	53	0.83	154	0.114	<1	1.87	0.010	0.43	0.2	0.02	4.3	0.2	0.05	6	<0.5
1076901	Soil	5	45	0.77	160	0.120	2	1.80	0.009	0.43	0.2	0.01	4.3	0.2	<0.05	6	<0.5
1076898	Soil	5	55	0.87	167	0.160	<1	2.02	0.011	0.53	0.2	0.02	5.3	0.2	<0.05	7	<0.5
1076897	Soil	5	47	0.81	140	0.128	1	1.79	0.010	0.39	0.2	0.01	4.3	0.2	<0.05	6	<0.5
1076899	Soil	6	58	0.86	196	0.140	<1	1.96	0.013	0.53	0.2	0.02	5.4	0.2	<0.05	7	<0.5
1076894	Soil	5	62	0.98	240	0.187	<1	2.18	0.012	0.65	0.2	0.01	6.7	0.2	<0.05	7	<0.5
1076895	Soil	5	64	1.03	255	0.196	<1	2.28	0.012	0.69	0.2	0.01	7.0	0.3	<0.05	8	<0.5
1076891	Soil	6	56	0.88	247	0.174	<1	2.20	0.012	0.56	0.2	0.03	6.3	0.2	<0.05	8	<0.5
1076892	Soil	6	47	0.83	131	0.125	2	1.77	0.008	0.44	0.1	0.02	4.4	0.2	<0.05	6	<0.5
1076890	Soil	5	52	0.85	156	0.162	<1	1.92	0.009	0.59	0.2	0.01	5.4	0.2	<0.05	7	<0.5
1076893	Soil	6	59	0.92	259	0.172	<1	2.30	0.012	0.70	0.2	0.02	6.6	0.3	<0.05	7	<0.5
1076888	Soil	5	63	1.03	248	0.183	<1	2.37	0.012	0.71	0.2	0.02	6.4	0.3	<0.05	7	<0.5
1076889	Soil	5	52	0.89	181	0.161	<1	2.00	0.009	0.59	0.2	0.02	5.6	0.2	<0.05	7	<0.5
1076885	Soil	5	48	0.76	134	0.154	<1	1.56	0.011	0.43	0.2	0.02	4.6	0.2	<0.05	7	<0.5
1076887	Soil	6	49	0.87	193	0.139	<1	1.95	0.011	0.40	0.2	0.01	5.0	0.2	<0.05	6	<0.5



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Part 1

CERTIFICATE OF ANALYSIS

WHI11000964.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1076886	Soil	0.7	24.9	4.9	73	0.1	27.5	12.3	392	2.92	9.6	0.3	1.7	1.1	22	0.3	0.2	0.1	73	0.26	0.128
1076884	Soil	1.2	43.1	6.2	77	0.2	37.2	16.9	523	3.21	13.2	0.4	2.3	1.4	33	0.1	0.2	0.2	84	0.36	0.084
1198581	Soil	0.7	48.7	4.1	63	<0.1	43.9	16.4	327	3.71	8.8	0.5	2.4	1.7	30	<0.1	0.2	0.1	109	0.26	0.083
1198582	Soil	0.9	51.2	5.3	66	<0.1	50.9	15.8	316	3.71	13.1	0.6	3.0	1.9	34	0.1	0.2	0.2	107	0.25	0.061
1198584	Soil	0.6	50.9	4.9	50	<0.1	42.5	15.4	411	3.65	12.7	0.5	3.7	2.0	28	0.1	0.3	0.1	105	0.30	0.069
1198579	Soil	0.7	46.2	6.5	57	0.1	45.4	15.0	323	3.53	17.4	0.6	4.7	1.8	23	0.1	0.4	0.2	98	0.20	0.081
1198580	Soil	0.8	54.4	4.8	67	<0.1	44.0	16.1	337	3.70	12.8	0.6	10.2	1.7	26	<0.1	0.3	0.2	111	0.26	0.077
1198570	Soil	0.8	72.1	4.7	49	0.1	60.9	19.2	388	3.62	14.9	0.5	109.9	2.0	24	0.2	0.3	0.2	94	0.32	0.108
1198578	Soil	1.0	50.1	11.1	83	0.1	46.8	14.2	380	3.88	67.1	0.6	18.7	1.8	31	0.1	1.2	0.2	89	0.24	0.090
1198585	Soil	0.7	52.2	5.1	50	<0.1	43.8	15.6	429	3.77	13.5	0.5	7.3	1.9	25	0.1	0.3	0.1	105	0.27	0.061
1198574	Soil	1.0	54.2	10.4	59	0.1	40.7	13.9	313	4.11	270.4	0.5	27.0	1.3	32	<0.1	1.9	0.2	88	0.19	0.067
1198583	Soil	0.8	48.9	4.9	59	<0.1	45.0	17.8	401	3.92	11.1	0.5	2.4	1.7	41	0.1	0.3	0.1	109	0.31	0.090
1198567	Soil	0.9	71.4	5.9	56	<0.1	67.3	21.2	501	3.94	23.3	0.6	115.9	1.7	26	0.3	0.4	0.2	98	0.33	0.121
1198568	Soil	0.8	67.2	6.9	56	0.1	60.6	20.2	535	4.21	20.4	0.6	4.3	1.8	28	0.2	0.3	0.2	112	0.33	0.113
1198565	Soil	0.8	91.6	5.8	53	0.1	89.1	24.3	542	4.17	34.5	0.6	13.5	2.1	28	0.3	0.3	0.2	102	0.35	0.128
1198569	Soil	0.7	61.1	5.9	58	<0.1	61.0	18.9	450	4.12	20.8	0.6	7.8	2.0	25	<0.1	0.3	0.2	111	0.31	0.095
1198573	Soil	1.1	68.7	7.8	63	<0.1	56.1	20.9	519	4.54	18.7	0.6	4.5	1.8	35	0.1	0.4	0.2	116	0.20	0.056
1198576	Soil	0.7	51.7	6.8	60	0.1	47.8	15.3	406	3.71	41.5	0.5	14.9	1.7	29	0.2	0.8	0.2	89	0.31	0.093
1198566	Soil	1.0	61.8	5.7	50	0.2	56.2	18.3	431	3.71	22.5	0.6	323.7	1.4	25	0.2	0.3	0.2	96	0.29	0.102
1198572	Soil	0.6	62.4	5.8	70	0.1	56.7	19.4	325	4.07	15.4	0.6	3.5	2.0	60	0.1	0.2	0.2	119	0.34	0.088
1198571	Soil	0.8	57.5	4.5	53	<0.1	50.8	16.2	324	3.60	12.3	0.5	2.7	1.7	26	0.1	0.2	0.1	95	0.36	0.101
1198564	Soil	1.1	91.9	5.6	44	0.2	85.4	28.1	476	4.07	35.6	0.5	573.5	1.4	24	0.2	0.3	0.2	96	0.27	0.103
1198575	Soil	1.0	64.6	10.9	72	0.2	55.5	19.2	501	4.41	97.5	0.7	25.4	1.7	36	0.1	1.2	0.2	97	0.26	0.094
1198577	Soil	0.5	74.2	5.7	95	<0.1	70.8	22.4	413	4.66	26.6	0.6	4.6	1.8	28	<0.1	0.5	0.2	148	0.30	0.120
1198562	Soil	0.7	61.7	4.6	36	<0.1	52.2	17.6	389	3.70	34.4	0.4	22.5	1.1	22	0.1	0.2	0.2	94	0.26	0.073
1198554	Soil	1.3	158.9	6.6	60	0.2	103.4	32.3	633	4.42	26.8	0.7	9.9	1.4	29	0.2	0.5	0.2	100	0.34	0.112
1198558	Soil	0.5	62.8	7.3	73	0.2	134.6	24.4	394	4.11	17.5	0.7	2.6	2.4	67	0.2	0.1	0.2	116	0.54	0.121
1198561	Soil	0.6	52.7	6.2	97	0.2	172.7	34.3	885	5.54	29.2	0.3	4.5	1.8	60	0.2	0.3	<0.1	134	0.78	0.085
1198560	Soil	1.2	44.1	8.7	52	0.1	40.5	14.2	403	3.73	19.4	0.5	66.5	0.2	24	<0.1	0.5	0.2	94	0.24	0.115
1198559	Soil	1.1	78.6	6.2	52	<0.1	95.5	25.9	533	4.42	35.8	0.5	13.9	1.0	26	0.1	0.4	0.2	103	0.30	0.089



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1076886	Soil	5	44	0.77	168	0.121	<1	1.66	0.009	0.36	0.1	0.01	4.0	0.1	<0.05	6	<0.5	<0.2
1076884	Soil	6	54	0.92	184	0.150	<1	2.02	0.011	0.53	0.2	0.02	5.3	0.2	<0.05	8	<0.5	<0.2
1198581	Soil	7	76	1.22	281	0.177	<1	2.55	0.017	0.69	0.1	0.01	8.0	0.3	0.09	8	<0.5	<0.2
1198582	Soil	7	77	1.16	242	0.167	<1	2.52	0.016	0.56	<0.1	0.02	7.0	0.3	0.08	8	<0.5	<0.2
1198584	Soil	8	65	1.09	197	0.172	<1	2.43	0.015	0.47	<0.1	0.02	7.0	0.3	<0.05	6	0.6	<0.2
1198579	Soil	7	70	1.04	240	0.146	<1	2.74	0.011	0.49	0.2	0.02	6.8	0.3	0.05	8	<0.5	<0.2
1198580	Soil	8	82	1.18	277	0.143	1	2.59	0.012	0.57	0.2	<0.01	8.0	0.3	0.06	8	<0.5	<0.2
1198570	Soil	8	65	1.03	177	0.125	2	2.28	0.011	0.46	0.2	<0.01	6.3	0.3	<0.05	6	<0.5	<0.2
1198578	Soil	9	63	1.03	185	0.105	1	2.59	0.011	0.44	0.1	<0.01	6.4	0.2	<0.05	8	<0.5	<0.2
1198585	Soil	7	67	1.10	195	0.147	2	2.54	0.012	0.47	0.1	0.02	7.0	0.2	<0.05	6	<0.5	<0.2
1198574	Soil	6	60	0.93	191	0.095	1	2.21	0.021	0.44	0.1	0.01	6.4	0.2	0.11	6	0.6	<0.2
1198583	Soil	7	74	1.22	291	0.150	1	2.70	0.013	0.66	0.1	<0.01	7.8	0.3	<0.05	8	<0.5	<0.2
1198567	Soil	8	64	0.99	172	0.113	<1	2.26	0.012	0.29	0.4	0.02	5.9	0.2	<0.05	6	<0.5	<0.2
1198568	Soil	8	71	1.15	240	0.126	1	2.86	0.010	0.47	0.2	0.02	7.5	0.3	<0.05	7	<0.5	<0.2
1198565	Soil	7	64	1.05	208	0.124	<1	2.49	0.012	0.39	0.4	0.02	6.8	0.3	<0.05	6	0.6	<0.2
1198569	Soil	8	86	1.31	247	0.139	<1	2.82	0.010	0.62	0.2	<0.01	7.6	0.3	<0.05	8	<0.5	<0.2
1198573	Soil	8	78	1.26	242	0.142	2	3.19	0.012	0.57	0.1	0.01	7.7	0.3	<0.05	9	<0.5	<0.2
1198576	Soil	7	61	0.98	204	0.108	<1	2.11	0.013	0.46	0.1	0.01	6.4	0.2	<0.05	6	<0.5	<0.2
1198566	Soil	7	58	0.91	159	0.105	<1	2.12	0.012	0.25	0.3	0.02	5.2	0.2	<0.05	6	0.5	<0.2
1198572	Soil	8	90	1.36	329	0.142	<1	3.10	0.010	0.80	0.1	0.02	9.0	0.3	<0.05	10	<0.5	<0.2
1198571	Soil	7	66	1.09	230	0.129	<1	2.31	0.009	0.63	0.1	<0.01	7.0	0.3	<0.05	7	<0.5	<0.2
1198564	Soil	6	56	0.87	166	0.106	<1	2.10	0.012	0.28	0.6	0.02	5.6	0.2	<0.05	6	0.5	<0.2
1198575	Soil	8	71	1.09	199	0.106	<1	2.49	0.016	0.48	0.1	0.01	7.1	0.2	0.07	7	<0.5	<0.2
1198577	Soil	6	127	1.63	452	0.181	<1	3.39	0.013	1.28	0.1	<0.01	12.9	0.4	<0.05	12	<0.5	<0.2
1198562	Soil	6	53	0.87	146	0.110	1	1.91	0.012	0.26	0.2	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2
1198554	Soil	8	64	1.12	150	0.111	1	2.65	0.014	0.30	0.1	0.05	6.1	0.3	0.07	7	<0.5	<0.2
1198558	Soil	8	89	1.58	418	0.098	<1	3.39	0.008	1.21	<0.1	<0.01	9.5	0.4	<0.05	10	<0.5	<0.2
1198561	Soil	13	319	4.43	303	0.175	<1	4.08	0.065	0.90	<0.1	<0.01	14.2	0.5	<0.05	13	<0.5	<0.2
1198560	Soil	6	53	0.75	134	0.048	<1	1.83	0.011	0.30	0.1	0.02	2.8	0.2	0.11	7	0.8	<0.2
1198559	Soil	6	64	1.02	155	0.107	<1	2.37	0.014	0.31	0.2	0.01	5.6	0.2	0.07	6	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1198552	Soil		0.7	47.3	5.5	53	0.1	63.3	18.9	484	3.43	28.2	0.5	14.9	1.9	33	0.1	0.6	0.1	73	0.35
1198553	Soil		1.0	72.7	5.2	42	0.1	61.7	21.4	511	3.67	17.2	0.6	10.2	1.7	21	0.1	0.3	0.2	94	0.27
1198563	Soil		0.9	61.5	5.9	47	<0.1	46.8	15.2	361	3.48	24.6	0.5	11.4	0.7	21	<0.1	0.4	0.2	89	0.18
1198555	Soil		0.8	125.5	4.6	47	0.1	120.2	33.0	608	4.00	24.2	0.5	9.0	1.5	24	0.2	0.3	0.2	91	0.32
1198557	Soil		0.9	62.8	5.7	51	<0.1	61.7	22.2	493	3.81	37.8	0.5	5.4	1.2	24	0.1	0.4	0.2	91	0.27
1198556	Soil		0.7	93.9	4.6	44	0.1	58.2	19.1	471	3.60	15.8	0.5	5.4	1.7	26	0.2	0.3	0.2	93	0.35
1198551	Soil		0.7	46.8	5.3	52	0.1	62.0	18.5	489	3.44	27.6	0.4	10.7	1.9	33	0.1	0.6	0.1	72	0.34
1075578	Soil		0.9	43.1	6.1	81	0.2	41.7	19.0	549	3.75	55.5	0.6	6.7	1.5	24	0.1	0.3	0.2	104	0.29
1075577	Soil		0.9	40.9	5.9	78	0.2	39.4	17.1	502	3.67	49.1	0.6	4.6	1.6	23	<0.1	0.3	0.2	103	0.28
1075569	Soil		0.8	45.5	5.4	74	0.1	44.5	16.9	424	3.65	30.1	0.5	11.2	1.4	27	<0.1	0.2	0.2	113	0.35
1075576	Soil		0.8	41.9	5.1	82	0.2	43.1	15.5	426	3.83	44.4	0.6	6.1	1.7	25	<0.1	0.2	0.2	112	0.30
1075572	Soil		1.2	41.7	6.6	82	0.4	47.3	20.1	531	4.13	36.0	0.7	6.4	1.1	32	<0.1	0.2	0.2	122	0.32
1075575	Soil		1.5	62.1	7.6	96	0.2	62.0	22.8	672	4.86	51.6	0.7	7.6	1.2	27	<0.1	0.3	0.3	151	0.28
1075574	Soil		0.9	43.6	4.2	77	0.2	47.7	18.6	451	3.71	28.3	0.5	25.4	1.8	21	0.1	0.2	0.2	122	0.32
1075570	Soil		1.2	45.0	6.3	93	0.2	57.1	24.5	556	4.24	27.7	0.5	8.7	1.4	29	0.2	0.2	0.3	138	0.35
1075573	Soil		1.2	42.3	5.4	84	0.3	58.4	24.6	590	4.42	49.9	0.6	7.7	1.4	25	0.1	0.2	0.3	139	0.32
1075571	Soil		1.0	36.2	4.1	76	0.1	47.6	18.1	425	3.71	28.6	0.4	3.1	1.4	25	0.1	0.2	0.2	122	0.35
1075556	Soil		1.2	60.0	7.0	94	0.1	61.1	23.8	491	4.43	35.6	0.7	2.9	1.4	35	<0.1	0.4	0.3	140	0.30
1075555	Soil		0.9	44.7	4.4	67	<0.1	46.6	15.5	331	3.57	18.2	0.5	3.3	1.1	26	0.1	0.2	0.2	112	0.27
1075554	Soil		1.0	54.0	4.5	70	0.1	54.7	19.0	355	3.91	16.4	0.5	2.3	1.9	25	0.1	0.3	0.2	120	0.29
1075553	Soil		1.2	57.0	4.3	79	0.1	57.5	19.5	377	4.02	18.5	0.5	4.0	1.6	32	0.2	0.2	0.2	128	0.29
1075552	Soil		1.1	91.8	5.3	94	0.2	82.0	28.1	468	4.56	23.5	0.7	4.1	1.7	44	0.1	0.2	0.2	151	0.39
1075551	Soil		1.1	67.0	6.3	86	0.2	61.6	20.8	484	4.71	28.3	0.6	2.9	1.2	32	<0.1	0.3	0.2	143	0.25
1075550	Soil		0.8	35.6	3.8	63	<0.1	37.2	13.7	308	3.18	12.7	0.4	2.6	0.8	22	0.2	0.2	0.2	102	0.29
1076840	Soil		0.9	40.4	3.9	72	0.1	47.8	14.6	249	3.23	16.8	0.5	3.2	1.2	27	<0.1	0.2	0.2	114	0.26
1075549	Soil		1.0	41.0	5.1	61	0.1	39.9	14.0	398	3.24	14.0	0.5	4.7	0.8	22	<0.1	0.3	0.2	108	0.22
1075548	Soil		1.1	47.0	4.4	78	0.2	53.8	18.1	344	3.73	21.2	0.6	1.7	1.3	25	<0.1	0.2	0.2	124	0.30
1076838	Soil		1.2	74.6	6.3	112	0.2	76.8	27.2	620	5.32	74.7	0.6	8.4	2.0	83	<0.1	0.4	0.2	165	0.30
1076839	Soil		1.1	73.0	6.5	105	0.2	81.1	29.0	531	5.23	32.7	0.7	4.6	1.5	37	<0.1	0.3	0.2	160	0.33
1075568	Soil		1.5	65.4	5.7	88	0.2	64.2	23.2	543	4.41	36.9	0.6	6.3	1.7	28	<0.1	0.2	0.2	147	0.31



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Part 2

CERTIFICATE OF ANALYSIS

WHI11000964.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1198552	Soil	8	85	1.20	129	0.090	<1	2.17	0.014	0.26	<0.1	0.01	4.3	0.2	<0.05	6	0.6	<0.2
1198553	Soil	8	58	1.01	139	0.117	1	2.31	0.010	0.36	0.1	0.02	5.7	0.3	<0.05	6	0.8	<0.2
1198563	Soil	6	49	0.81	119	0.086	1	1.95	0.012	0.16	0.2	0.02	4.3	0.2	0.06	6	<0.5	<0.2
1198555	Soil	6	57	0.98	132	0.109	<1	2.26	0.009	0.32	0.1	0.01	5.5	0.2	<0.05	6	0.5	<0.2
1198557	Soil	7	56	0.95	108	0.112	<1	2.20	0.010	0.30	0.1	0.02	5.0	0.2	<0.05	7	0.5	<0.2
1198556	Soil	7	56	1.00	155	0.117	1	2.20	0.013	0.38	0.1	0.01	5.6	0.3	<0.05	6	<0.5	<0.2
1198551	Soil	8	82	1.17	129	0.090	<1	2.11	0.014	0.27	<0.1	<0.01	4.4	0.2	<0.05	6	0.6	<0.2
1075578	Soil	7	67	1.05	291	0.149	<1	2.66	0.011	0.64	0.3	<0.01	7.1	0.3	<0.05	9	<0.5	<0.2
1075577	Soil	7	68	1.06	289	0.152	<1	2.58	0.012	0.68	0.3	<0.01	7.3	0.3	<0.05	9	<0.5	<0.2
1075569	Soil	6	71	1.11	272	0.163	<1	2.70	0.012	0.64	0.3	<0.01	7.5	0.3	<0.05	9	<0.5	<0.2
1075576	Soil	7	72	1.14	319	0.166	1	2.83	0.013	0.77	0.3	<0.01	7.9	0.3	<0.05	9	<0.5	<0.2
1075572	Soil	6	79	1.22	310	0.150	<1	3.08	0.013	0.59	0.2	0.04	8.0	0.3	<0.05	10	<0.5	<0.2
1075575	Soil	6	94	1.36	270	0.197	3	3.56	0.013	0.41	0.3	0.01	8.3	0.3	0.15	11	<0.5	<0.2
1075574	Soil	7	86	1.22	298	0.206	3	2.86	0.016	0.77	0.3	0.01	8.5	0.3	0.08	9	0.6	<0.2
1075570	Soil	6	93	1.33	293	0.226	2	3.26	0.013	0.74	0.3	0.03	8.8	0.3	0.06	10	<0.5	<0.2
1075573	Soil	6	97	1.26	324	0.215	2	3.09	0.013	0.63	0.3	0.02	9.0	0.3	0.07	10	<0.5	<0.2
1075571	Soil	6	83	1.14	280	0.202	2	2.59	0.012	0.71	0.4	0.03	7.7	0.3	0.07	9	<0.5	<0.2
1075556	Soil	8	102	1.35	266	0.192	2	3.19	0.012	0.40	0.4	0.02	8.1	0.2	0.09	10	0.8	<0.2
1075555	Soil	5	86	1.14	272	0.168	2	2.81	0.013	0.62	0.3	0.03	7.5	0.3	0.10	8	0.5	<0.2
1075554	Soil	7	87	1.15	267	0.209	3	2.61	0.015	0.75	0.4	0.01	7.8	0.3	0.08	8	<0.5	<0.2
1075553	Soil	6	100	1.33	298	0.218	2	2.93	0.019	0.82	0.3	0.02	8.5	0.3	0.09	9	<0.5	<0.2
1075552	Soil	7	124	1.47	448	0.225	2	3.50	0.017	1.04	0.2	0.03	10.8	0.4	0.07	11	<0.5	<0.2
1075551	Soil	6	96	1.25	296	0.183	1	3.07	0.014	0.54	0.2	0.02	8.3	0.3	0.07	10	<0.5	<0.2
1075550	Soil	4	70	0.93	252	0.157	1	2.03	0.014	0.58	0.6	0.01	6.3	0.2	0.09	7	<0.5	<0.2
1076840	Soil	5	97	1.21	263	0.178	1	2.31	0.015	0.63	0.2	0.02	7.2	0.2	0.06	8	<0.5	<0.2
1075549	Soil	6	71	0.90	222	0.147	3	2.23	0.015	0.40	0.2	0.02	5.6	0.2	0.09	8	<0.5	<0.2
1075548	Soil	6	112	1.34	298	0.190	<1	2.72	0.015	0.57	0.3	0.02	8.3	0.2	0.06	9	<0.5	<0.2
1076838	Soil	6	140	1.83	516	0.255	1	3.99	0.019	1.23	0.2	0.02	11.7	0.4	0.05	12	0.7	<0.2
1076839	Soil	8	152	1.84	450	0.233	2	3.97	0.019	0.76	0.2	0.03	11.0	0.4	0.08	12	<0.5	<0.2
1075568	Soil	6	91	1.38	313	0.235	2	3.42	0.016	0.81	0.5	0.04	9.0	0.3	<0.05	11	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1075567	Soil	0.9	39.8	4.7	63	<0.1	39.9	15.5	367	3.29	29.0	0.5	2.6	0.9	28	0.2	0.3	0.2	102	0.21	0.065
1075566	Soil	1.1	55.7	4.7	87	0.2	57.8	20.8	488	4.37	27.7	0.5	5.1	1.8	23	<0.1	0.2	0.2	139	0.32	0.121
1075565	Soil	1.0	59.4	3.8	82	0.2	65.6	24.7	439	4.10	33.0	0.4	27.1	1.5	26	<0.1	0.2	0.2	133	0.37	0.126
1075564	Soil	1.1	42.4	3.8	76	0.1	52.5	20.7	352	3.91	31.4	0.5	3.3	1.7	28	<0.1	0.2	0.2	116	0.38	0.119
1075563	Soil	1.2	46.9	4.4	72	0.3	46.6	17.8	373	3.61	30.6	0.6	6.2	1.6	30	<0.1	0.2	0.2	115	0.33	0.097
1075562	Soil	1.4	72.0	5.5	95	0.1	69.2	23.5	433	5.12	69.6	0.4	3.8	1.5	65	0.1	0.2	0.2	153	0.33	0.099
1075557	Soil	1.0	57.2	6.4	90	0.1	56.9	20.7	520	4.29	59.1	0.6	4.7	1.2	31	0.1	0.4	0.2	133	0.27	0.090
1075561	Soil	1.1	62.7	4.6	80	0.2	59.8	22.9	399	4.42	26.6	0.5	2.4	1.8	45	<0.1	0.2	0.2	149	0.31	0.085
1075560	Soil	1.2	56.8	4.2	72	0.3	59.2	18.7	320	4.22	24.6	0.4	3.3	1.3	25	0.2	0.1	0.2	133	0.28	0.081
1075558	Soil	1.0	58.1	6.7	85	0.2	54.7	21.2	569	4.13	81.8	0.6	8.5	1.2	39	0.1	0.7	0.2	123	0.34	0.099
1075559	Soil	1.3	75.4	8.8	95	0.2	68.9	23.3	564	4.89	115.3	0.7	11.7	1.3	41	<0.1	0.7	0.2	132	0.32	0.103
1077699	Soil	1.1	44.8	5.8	92	0.1	43.2	17.9	557	3.43	25.2	0.7	327.5	2.1	24	0.2	0.5	0.2	91	0.32	0.098
1077719	Soil	1.6	32.4	6.3	74	<0.1	33.0	16.2	803	3.40	11.9	0.8	3.4	0.9	24	0.1	0.4	0.2	96	0.26	0.089
1077697	Soil	0.9	61.3	5.2	97	0.2	57.3	20.6	645	3.63	14.3	0.8	23.0	2.4	26	0.3	0.4	0.3	103	0.41	0.132
1077702	Soil	0.9	49.7	5.5	97	<0.1	44.4	18.4	534	3.53	27.9	0.8	58.7	1.9	21	0.2	0.4	0.2	101	0.31	0.099
1077734	Soil	0.9	44.2	5.1	97	<0.1	41.4	17.3	541	3.41	30.0	0.8	14.2	2.0	23	0.3	0.3	0.1	94	0.36	0.111
1077708	Soil	0.6	38.2	4.4	73	<0.1	40.2	15.4	412	3.24	19.2	1.0	5.2	2.1	22	0.1	0.2	0.1	98	0.31	0.081
1077709	Soil	1.1	44.2	6.3	81	0.1	43.9	17.6	539	3.90	18.9	1.2	2.6	1.4	30	<0.1	0.3	0.2	117	0.36	0.080
1077714	Soil	1.0	52.1	6.4	90	0.2	45.3	18.4	541	4.03	32.0	0.9	219.5	1.3	31	<0.1	0.4	0.3	117	0.33	0.072
1077713	Soil	0.8	42.7	5.5	89	0.1	46.0	18.3	512	4.00	29.3	0.8	6.1	1.1	28	<0.1	0.3	0.2	122	0.33	0.069
1077701	Soil	0.9	47.4	4.7	85	<0.1	37.5	17.1	513	3.03	29.4	1.0	3.6	1.8	22	0.4	0.5	0.2	91	0.34	0.101
1077707	Soil	0.7	37.8	4.5	72	0.1	39.5	14.6	404	3.21	20.9	1.0	39.9	1.7	23	<0.1	0.2	0.1	97	0.28	0.073
1077710	Soil	1.2	45.3	6.7	78	0.1	41.0	17.0	490	3.70	16.8	1.1	1.7	1.1	27	<0.1	0.3	0.2	111	0.25	0.066
1077725	Soil	2.1	37.2	8.0	72	<0.1	33.6	12.9	381	3.29	21.9	0.7	2.5	0.8	26	0.1	0.7	0.2	92	0.22	0.057
1077722	Soil	1.1	74.0	4.9	97	<0.1	55.1	20.1	495	3.86	18.3	0.6	2.2	1.5	22	0.1	0.3	0.2	105	0.19	0.046
1077727	Soil	0.8	37.9	4.6	77	0.1	41.9	15.9	435	3.34	15.9	0.6	4.2	1.9	25	0.1	0.3	0.1	93	0.33	0.086
1077723	Soil	0.8	42.5	5.5	81	<0.1	44.5	17.3	482	3.43	22.8	0.5	2.3	1.9	20	0.1	0.3	0.2	90	0.20	0.043
1077726	Soil	1.3	33.4	6.6	70	0.1	34.3	14.5	473	3.18	17.1	0.6	2.7	0.8	26	0.1	0.4	0.2	88	0.26	0.060
1077724	Soil	0.9	38.7	6.0	77	<0.1	40.2	15.1	421	3.38	19.7	0.5	5.4	1.4	19	0.1	0.3	0.2	92	0.18	0.034
1077728	Soil	1.0	43.8	5.5	77	0.1	41.5	15.6	466	3.51	23.4	0.7	3.4	1.8	24	0.1	0.3	0.2	95	0.26	0.069



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1075567	Soil	5	63	0.84	210	0.153	2	2.13	0.015	0.44	0.2	0.02	5.8	0.2	<0.05	8	<0.5	<0.2
1075566	Soil	6	90	1.30	364	0.231	1	3.17	0.016	0.95	0.3	0.02	9.1	0.4	<0.05	10	<0.5	<0.2
1075565	Soil	5	105	1.32	344	0.222	2	2.92	0.019	1.02	0.3	0.01	8.6	0.4	<0.05	10	<0.5	<0.2
1075564	Soil	6	79	1.19	272	0.198	2	2.55	0.018	0.80	0.7	0.03	7.7	0.3	<0.05	9	<0.5	<0.2
1075563	Soil	7	79	1.12	276	0.190	2	2.56	0.014	0.76	0.2	0.04	7.7	0.3	0.05	8	<0.5	<0.2
1075562	Soil	5	99	1.48	410	0.266	1	3.38	0.019	1.24	0.3	0.02	10.3	0.4	<0.05	12	<0.5	<0.2
1075557	Soil	7	96	1.33	271	0.174	3	3.22	0.015	0.47	0.4	0.01	8.0	0.3	<0.05	9	<0.5	<0.2
1075561	Soil	6	93	1.43	336	0.235	2	3.64	0.017	1.02	0.3	0.01	10.1	0.4	<0.05	11	<0.5	<0.2
1075560	Soil	5	85	1.24	285	0.221	2	2.81	0.016	0.94	0.3	0.01	8.7	0.3	<0.05	9	<0.5	<0.2
1075558	Soil	7	88	1.20	295	0.151	2	2.92	0.017	0.49	0.2	0.02	7.6	0.2	0.10	9	<0.5	<0.2
1075559	Soil	8	101	1.32	298	0.161	2	3.22	0.016	0.47	0.2	0.03	8.2	0.3	0.06	10	<0.5	<0.2
1077699	Soil	8	60	0.87	153	0.151	2	2.34	0.017	0.25	0.4	0.03	5.3	0.2	<0.05	7	<0.5	<0.2
1077719	Soil	8	64	0.81	153	0.110	2	2.10	0.015	0.20	1.4	0.05	4.2	0.1	0.10	7	<0.5	<0.2
1077697	Soil	9	68	0.94	166	0.171	3	2.75	0.016	0.32	0.5	0.03	6.1	0.2	<0.05	8	<0.5	<0.2
1077702	Soil	8	69	0.95	137	0.141	2	2.45	0.017	0.22	0.5	0.02	5.5	0.2	<0.05	7	<0.5	<0.2
1077734	Soil	9	63	0.92	148	0.136	1	2.25	0.018	0.23	0.4	0.01	5.1	0.1	<0.05	7	<0.5	<0.2
1077708	Soil	8	73	1.05	216	0.165	<1	2.34	0.019	0.44	0.4	0.02	6.1	0.2	<0.05	7	<0.5	<0.2
1077709	Soil	8	84	1.16	246	0.152	2	2.73	0.018	0.37	0.3	0.04	6.5	0.2	0.07	9	<0.5	<0.2
1077714	Soil	8	85	1.17	254	0.157	2	2.77	0.016	0.43	1.1	0.03	7.7	0.2	0.09	9	0.6	<0.2
1077713	Soil	7	95	1.31	295	0.165	2	2.82	0.016	0.54	0.5	0.03	8.2	0.2	0.09	9	<0.5	<0.2
1077701	Soil	7	56	0.75	127	0.115	1	2.01	0.014	0.19	0.7	0.03	4.7	0.1	0.10	6	<0.5	<0.2
1077707	Soil	7	71	1.02	211	0.164	<1	2.26	0.018	0.44	0.4	0.02	6.4	0.2	<0.05	7	<0.5	<0.2
1077710	Soil	8	78	1.09	230	0.140	<1	2.50	0.017	0.37	0.2	0.04	6.1	0.2	0.08	9	<0.5	<0.2
1077725	Soil	7	53	0.73	123	0.100	2	2.03	0.011	0.20	0.3	0.05	4.1	0.2	0.06	7	<0.5	<0.2
1077722	Soil	7	66	1.17	203	0.179	<1	2.74	0.014	0.55	0.5	0.01	7.9	0.3	0.05	9	<0.5	<0.2
1077727	Soil	7	63	0.99	177	0.140	1	2.25	0.015	0.41	0.2	0.02	6.5	0.2	<0.05	7	<0.5	<0.2
1077723	Soil	8	60	0.96	161	0.147	2	2.43	0.013	0.29	0.4	0.02	5.9	0.2	<0.05	7	<0.5	<0.2
1077726	Soil	7	54	0.80	142	0.109	1	1.96	0.014	0.21	0.3	0.03	4.2	0.2	0.06	7	<0.5	<0.2
1077724	Soil	7	59	0.91	145	0.141	1	2.28	0.012	0.30	0.3	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1077728	Soil	8	63	0.97	180	0.137	<1	2.38	0.014	0.38	0.3	0.03	6.6	0.2	<0.05	8	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1077721	Soil	0.7	41.0	5.4	79	<0.1	45.0	16.8	466	3.47	25.7	0.6	2.1	1.5	24	0.1	0.4	0.1	97	0.24	0.047
1077705	Soil	0.9	45.3	7.0	85	0.2	41.2	15.0	327	3.39	44.2	1.6	65.3	1.5	22	<0.1	0.4	0.2	103	0.22	0.079
1077711	Soil	0.9	44.7	5.7	76	0.1	40.5	16.5	452	3.45	33.7	1.3	21.2	1.5	26	<0.1	0.3	0.2	100	0.20	0.051
1077715	Soil	1.0	43.7	5.7	78	0.1	40.1	15.5	467	3.44	23.4	0.8	7.7	1.6	29	0.1	0.3	0.2	100	0.28	0.066
1077717	Soil	0.7	39.8	4.8	79	<0.1	39.6	14.6	423	3.14	13.8	0.7	2.3	2.1	24	0.1	0.2	0.2	92	0.30	0.082
1077718	Soil	0.8	36.5	5.7	69	<0.1	36.1	11.8	238	2.97	12.1	0.7	2.6	2.4	20	0.1	0.3	0.2	79	0.28	0.089
1077703	Soil	0.9	41.2	5.9	96	<0.1	40.6	17.5	582	3.32	30.0	0.9	11.9	1.6	24	0.2	0.4	0.2	93	0.29	0.087
1077720	Soil	1.3	46.1	8.6	118	0.1	47.7	24.4	922	4.17	19.2	0.8	2.8	1.2	32	0.4	0.4	0.3	105	0.36	0.108
1077704	Soil	1.1	44.0	5.4	80	0.1	37.0	14.7	407	3.45	54.7	1.0	8.4	1.7	22	<0.1	0.3	0.2	97	0.29	0.089
1077700	Soil	1.1	45.5	5.1	88	<0.1	40.4	15.4	480	3.22	27.1	0.7	6.7	2.1	25	0.3	0.4	0.2	88	0.34	0.117
1077706	Soil	0.8	39.4	5.1	77	<0.1	42.5	15.4	398	3.27	23.4	1.0	9.3	1.6	20	<0.1	0.2	0.2	102	0.20	0.043
1077712	Soil	0.7	41.4	5.8	78	0.1	41.2	15.4	457	3.47	170.2	1.1	7.6	2.2	35	0.1	0.3	0.2	98	0.30	0.071
1077716	Soil	1.0	37.4	6.2	73	<0.1	35.7	14.4	442	3.32	18.1	0.7	4.3	1.4	27	0.2	0.4	0.2	91	0.27	0.056
1077698	Soil	0.9	47.9	5.7	88	<0.1	44.8	16.9	542	3.42	14.2	0.7	4.8	2.2	28	0.2	0.4	0.2	90	0.34	0.102
1070423	Soil	1.0	123.4	5.9	43	0.2	76.6	26.4	435	4.23	15.3	0.6	6.4	0.8	33	0.1	0.3	0.2	108	0.22	0.073
1070422	Soil	1.2	220.4	6.0	45	0.3	156.7	39.2	497	4.82	41.3	0.6	6.3	1.1	35	0.2	0.2	0.3	118	0.33	0.106
1070424	Soil	0.7	128.1	5.7	57	0.2	94.6	30.9	520	4.69	15.3	0.6	6.1	1.7	50	0.2	0.2	0.2	122	0.41	0.113
1070425	Soil	1.0	82.3	6.3	53	0.1	64.2	25.8	478	3.96	20.0	0.5	6.5	1.0	64	0.2	0.5	0.1	100	0.58	0.128
1070426	Soil	0.9	105.6	7.0	47	0.1	80.7	26.3	493	4.10	24.4	0.5	8.0	1.4	84	0.2	0.5	0.2	103	0.45	0.124
1070427	Soil	0.7	86.0	7.1	47	0.1	82.8	25.8	455	4.29	19.7	0.6	4.5	2.2	46	0.2	0.3	0.2	113	0.43	0.126
1064498	Soil	0.7	87.3	5.8	42	0.1	75.7	20.7	357	3.99	16.9	0.6	2.5	2.0	27	<0.1	0.3	0.2	110	0.28	0.102
1064497	Soil	1.0	69.3	5.8	38	0.2	60.5	20.8	492	4.07	22.7	0.7	4.8	2.2	27	0.2	0.3	0.2	106	0.27	0.086
1064499	Soil	1.4	73.1	5.9	36	0.2	61.3	21.4	556	4.87	45.7	0.8	5.7	2.3	28	0.2	0.3	0.2	109	0.26	0.090
1070401	Soil	1.1	78.3	6.8	37	0.3	59.1	18.6	326	3.67	20.2	0.8	6.5	2.4	30	0.2	0.4	0.2	109	0.27	0.085
1070402	Soil	0.8	46.8	5.7	34	<0.1	43.2	14.5	333	3.44	12.6	0.5	4.1	1.0	19	<0.1	0.3	0.2	98	0.17	0.057
1070403	Soil	0.8	45.9	6.0	40	<0.1	44.4	15.6	352	3.40	12.3	0.5	4.9	1.1	18	<0.1	0.3	0.2	99	0.15	0.045
1070404	Soil	0.9	81.4	6.4	45	<0.1	67.3	24.5	475	3.81	14.3	0.5	6.3	1.1	25	<0.1	0.3	0.2	105	0.22	0.074
1070405	Soil	1.0	80.2	6.3	43	<0.1	65.9	24.7	456	3.81	14.5	0.5	4.3	1.1	26	0.2	0.3	0.2	106	0.22	0.070
1070406	Soil	1.1	88.5	8.2	45	0.3	66.8	18.8	343	4.36	15.8	0.9	5.7	1.2	28	<0.1	0.3	0.2	124	0.21	0.074
1070407	Soil	0.9	62.9	6.1	43	<0.1	53.9	18.1	410	3.86	15.9	0.5	5.6	1.2	21	0.1	0.3	0.2	110	0.16	0.047



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Project: SAP
Report Date: August 29, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077721	Soil	7	67	0.97	196	0.145	<1	2.45	0.012	0.32	0.4	0.02	6.1	0.2	<0.05	8	<0.5	<0.2
1077705	Soil	8	75	1.08	183	0.149	<1	2.74	0.015	0.29	1.0	0.03	6.7	0.2	<0.05	8	<0.5	<0.2
1077711	Soil	8	73	1.03	234	0.153	2	2.40	0.020	0.43	0.4	0.02	6.5	0.2	0.06	8	<0.5	<0.2
1077715	Soil	8	73	1.06	269	0.142	1	2.41	0.020	0.41	0.3	0.03	6.9	0.2	<0.05	8	<0.5	<0.2
1077717	Soil	8	66	0.97	195	0.156	1	2.30	0.018	0.31	0.4	0.01	6.2	0.2	<0.05	7	<0.5	<0.2
1077718	Soil	9	58	0.85	141	0.138	1	2.43	0.011	0.25	0.4	0.02	5.5	0.2	<0.05	7	<0.5	<0.2
1077703	Soil	8	66	0.92	164	0.133	1	2.32	0.016	0.19	0.5	0.02	5.8	0.1	<0.05	7	<0.5	<0.2
1077720	Soil	8	71	1.02	247	0.119	1	3.01	0.015	0.27	0.4	0.04	5.6	0.2	0.07	9	<0.5	<0.2
1077704	Soil	8	66	1.03	162	0.145	2	2.41	0.017	0.25	1.1	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
1077700	Soil	8	55	0.83	160	0.139	2	2.31	0.014	0.23	0.5	0.02	5.2	0.1	<0.05	7	<0.5	<0.2
1077706	Soil	7	80	1.11	222	0.173	1	2.47	0.017	0.39	0.9	0.02	6.6	0.2	<0.05	9	<0.5	<0.2
1077712	Soil	9	73	1.14	274	0.147	<1	2.54	0.018	0.50	0.3	0.02	6.9	0.2	<0.05	8	<0.5	<0.2
1077716	Soil	8	63	0.89	211	0.138	2	2.23	0.018	0.27	0.2	0.03	5.7	0.2	<0.05	7	<0.5	<0.2
1077698	Soil	9	55	0.86	153	0.147	1	2.33	0.015	0.24	0.5	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
1070423	Soil	5	74	1.25	285	0.120	1	2.65	0.015	0.67	0.1	0.01	6.4	0.3	0.08	7	<0.5	<0.2
1070422	Soil	5	77	1.34	332	0.149	2	3.06	0.018	0.88	0.2	0.04	7.5	0.4	0.07	7	0.8	<0.2
1070424	Soil	5	94	1.51	410	0.161	<1	2.90	0.017	0.98	0.2	0.01	8.6	0.3	<0.05	8	0.9	<0.2
1070425	Soil	5	68	1.21	276	0.122	1	2.50	0.016	0.68	0.2	0.05	6.7	0.3	0.08	6	<0.5	<0.2
1070426	Soil	5	69	1.28	331	0.143	<1	2.73	0.016	0.87	0.3	0.02	7.6	0.3	<0.05	7	0.5	<0.2
1070427	Soil	6	99	1.57	382	0.158	<1	3.08	0.020	0.94	0.1	0.01	7.8	0.3	<0.05	8	<0.5	<0.2
1064498	Soil	7	94	1.24	211	0.162	<1	2.74	0.014	0.62	0.2	0.01	7.9	0.3	<0.05	7	<0.5	<0.2
1064497	Soil	8	77	1.13	214	0.164	1	2.60	0.011	0.59	0.2	0.02	8.1	0.3	<0.05	7	0.7	<0.2
1064499	Soil	8	78	1.14	222	0.165	1	2.65	0.011	0.58	0.1	0.02	8.4	0.3	<0.05	7	0.9	<0.2
1070401	Soil	9	84	1.16	247	0.167	1	2.77	0.011	0.60	0.1	0.03	8.8	0.3	<0.05	7	1.1	<0.2
1070402	Soil	5	65	1.03	193	0.129	<1	2.26	0.010	0.47	0.2	0.02	5.9	0.3	<0.05	6	0.6	<0.2
1070403	Soil	5	64	0.99	178	0.132	<1	2.24	0.010	0.47	0.1	0.02	5.6	0.3	<0.05	6	<0.5	<0.2
1070404	Soil	6	67	1.06	236	0.122	<1	2.45	0.012	0.48	0.1	0.02	5.8	0.3	<0.05	6	<0.5	<0.2
1070405	Soil	6	68	1.07	235	0.127	<1	2.42	0.012	0.46	0.2	0.02	6.0	0.3	<0.05	6	0.6	<0.2
1070406	Soil	8	90	1.44	229	0.148	<1	3.15	0.012	0.49	0.1	0.04	7.2	0.3	<0.05	8	0.5	<0.2
1070407	Soil	5	71	1.15	205	0.141	<1	2.52	0.013	0.58	0.1	0.02	6.4	0.3	<0.05	7	0.5	<0.2



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Project: SAP
Report Date: August 29, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070408	Soil	1.3	74.8	7.6	63	0.2	54.5	17.9	319	4.16	53.0	0.9	7.1	1.0	37	<0.1	0.3	0.2	118	0.21	0.075
1070409	Soil	1.1	64.7	6.0	50	<0.1	46.9	16.6	324	3.77	17.4	0.6	3.8	0.8	33	<0.1	0.3	0.2	100	0.18	0.061
1070420	Soil	1.3	243.1	6.6	37	0.2	156.1	36.5	461	4.43	96.6	0.6	290.3	1.2	34	0.3	0.2	0.3	111	0.23	0.109
1070421	Soil	1.0	138.8	5.2	69	0.2	93.5	32.2	441	4.67	20.9	0.9	4.2	1.6	48	0.2	0.1	0.2	144	0.30	0.110
1070419	Soil	0.9	144.4	5.6	42	0.2	107.1	35.5	463	4.48	24.3	0.5	5.7	0.9	26	0.2	0.2	0.2	130	0.25	0.070
1070418	Soil	0.8	79.4	4.0	31	0.2	49.3	14.9	318	3.87	14.6	0.5	4.8	1.2	23	<0.1	<0.1	0.2	117	0.28	0.107
1070417	Soil	0.8	136.5	4.7	47	0.2	93.4	28.3	403	4.33	28.2	0.5	6.3	1.3	27	<0.1	0.1	0.2	130	0.26	0.101
1070416	Soil	0.8	167.9	4.5	39	0.2	134.6	36.1	440	4.08	31.5	0.5	6.3	1.2	33	0.2	0.2	0.2	110	0.35	0.133
1070415	Soil	0.8	108.0	4.2	42	0.1	94.1	27.6	426	4.46	36.0	0.5	9.6	1.2	39	0.1	0.2	0.1	126	0.38	0.127
1070414	Soil	1.1	95.3	5.5	48	0.2	89.3	25.6	448	5.02	54.1	0.7	11.9	1.4	46	<0.1	0.2	0.2	137	0.34	0.112
1070413	Soil	0.9	91.1	5.5	54	0.2	92.5	31.3	460	4.42	31.8	0.7	20.4	1.0	47	0.2	0.3	0.2	126	0.37	0.104
1070412	Soil	1.0	84.0	6.3	62	0.2	84.3	25.1	375	4.07	15.5	0.9	4.4	0.5	63	0.2	0.3	0.2	112	0.49	0.142
1070411	Soil	1.2	63.1	6.3	56	0.1	50.1	15.5	319	4.05	17.2	0.8	3.6	0.6	39	0.2	0.3	0.2	116	0.44	0.069
1070410	Soil	1.0	72.8	5.6	54	0.1	54.7	19.3	346	3.98	16.6	0.8	4.7	0.9	40	<0.1	0.3	0.2	112	0.19	0.059
1077977	Soil	1.0	52.3	5.3	83	0.1	42.4	16.6	426	3.75	33.1	0.6	22.4	1.6	28	0.2	0.2	0.2	108	0.36	0.140
1077983	Soil	1.1	71.8	6.1	83	0.1	60.4	24.0	510	4.45	120.1	0.6	26.5	1.4	23	0.2	0.3	0.2	122	0.26	0.098
1077982	Soil	1.8	97.1	9.2	77	0.2	68.8	31.5	628	5.06	83.8	0.8	12.6	1.0	25	0.1	0.4	0.3	138	0.22	0.103
1077981	Soil	1.2	77.9	8.0	70	0.2	66.2	25.4	556	4.53	52.4	0.6	9.3	1.2	25	0.1	0.3	0.2	131	0.23	0.077
1077976	Soil	1.0	62.1	5.4	84	0.1	48.6	20.1	426	3.93	47.5	0.5	8.7	1.4	24	0.1	0.3	0.2	114	0.28	0.112
1077975	Soil	1.1	71.7	5.8	91	0.1	48.6	21.2	460	4.26	61.6	0.6	24.3	1.3	30	0.3	0.3	0.2	116	0.31	0.119
1077974	Soil	1.1	42.1	6.2	80	<0.1	38.7	15.7	425	3.73	29.4	0.6	6.1	1.3	23	<0.1	0.3	0.2	108	0.21	0.060
1077973	Soil	1.1	60.6	5.2	96	<0.1	48.3	21.5	445	4.13	41.2	0.6	4.8	1.6	26	0.3	0.3	0.2	114	0.27	0.100
1077972	Soil	1.1	50.5	5.5	91	0.1	43.8	19.8	444	3.67	47.4	0.7	8.8	1.6	28	0.2	0.3	0.2	104	0.33	0.112
1077980	Soil	1.1	72.4	7.4	73	0.1	66.2	24.6	562	4.59	54.7	0.6	12.9	1.2	24	0.1	0.3	0.2	134	0.22	0.075
1077979	Soil	0.9	58.0	5.8	68	0.1	51.8	18.7	458	3.99	37.0	0.5	21.1	1.1	25	<0.1	0.2	0.2	119	0.28	0.079
1077978	Soil	1.1	118.5	5.9	68	0.1	75.6	27.6	458	4.80	106.8	0.5	14.2	1.1	32	0.2	0.2	0.2	113	0.40	0.175
1063001	Soil	1.2	47.7	7.6	82	<0.1	45.1	18.1	467	3.99	32.8	0.6	7.1	1.3	19	0.2	0.4	0.2	114	0.19	0.063
1063003	Soil	1.0	43.3	5.7	77	0.1	41.7	16.4	457	3.70	25.6	0.5	7.5	1.5	22	0.1	0.3	0.2	109	0.25	0.076
1063004	Soil	1.6	70.4	10.6	97	0.1	62.1	21.0	570	5.00	281.8	0.5	88.4	1.6	31	0.3	2.2	0.2	113	0.27	0.098
1063005	Soil	1.5	39.9	6.6	68	0.1	35.9	12.3	325	3.52	42.9	0.6	5.3	0.6	27	0.1	0.6	0.2	102	0.24	0.076



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070408	Soil	7	91	1.27	252	0.120	<1	2.95	0.013	0.54	0.2	0.04	6.3	0.3	0.07	8	0.7	<0.2
1070409	Soil	5	72	1.05	228	0.111	<1	2.34	0.010	0.44	0.2	0.02	5.5	0.2	0.05	7	<0.5	<0.2
1070420	Soil	5	76	1.28	303	0.137	<1	2.88	0.014	0.83	0.3	0.01	7.2	0.3	0.05	7	1.0	<0.2
1070421	Soil	6	109	1.61	532	0.188	<1	3.19	0.021	1.13	0.1	0.02	10.5	0.4	0.10	10	0.8	<0.2
1070419	Soil	5	85	1.34	324	0.159	<1	2.94	0.014	0.64	0.2	0.01	8.4	0.4	0.07	8	1.0	<0.2
1070418	Soil	5	80	1.27	353	0.158	<1	2.56	0.016	1.04	0.3	0.01	7.9	0.3	<0.05	7	0.7	<0.2
1070417	Soil	5	88	1.38	333	0.173	<1	2.99	0.015	0.89	0.8	0.02	8.7	0.3	0.06	8	0.8	<0.2
1070416	Soil	5	108	1.61	295	0.137	<1	2.68	0.016	0.75	0.4	0.01	7.8	0.3	<0.05	7	<0.5	<0.2
1070415	Soil	5	117	1.72	327	0.160	<1	2.99	0.015	0.98	0.5	0.01	9.2	0.4	<0.05	8	0.5	<0.2
1070414	Soil	6	112	1.76	372	0.173	<1	3.08	0.016	1.12	0.8	0.01	9.6	0.4	0.06	9	<0.5	<0.2
1070413	Soil	6	116	1.68	335	0.150	<1	2.91	0.014	0.87	0.6	0.04	8.3	0.4	0.08	8	0.6	<0.2
1070412	Soil	7	109	1.35	293	0.095	<1	2.73	0.019	0.43	0.2	0.02	5.0	0.3	0.12	8	0.6	<0.2
1070411	Soil	6	83	1.18	276	0.114	1	2.49	0.012	0.63	0.4	0.03	5.6	0.3	0.09	8	0.8	<0.2
1070410	Soil	7	89	1.17	296	0.122	<1	2.55	0.011	0.60	0.1	0.02	6.2	0.3	0.07	8	0.5	<0.2
1077977	Soil	6	66	1.02	253	0.156	<1	2.36	0.015	0.54	0.1	0.02	7.0	0.3	<0.05	8	0.5	<0.2
1077983	Soil	6	73	1.10	267	0.163	<1	2.70	0.013	0.60	0.2	0.01	7.3	0.3	<0.05	9	0.8	<0.2
1077982	Soil	8	80	1.18	278	0.146	<1	3.14	0.013	0.54	0.2	0.04	7.6	0.3	0.09	10	0.7	<0.2
1077981	Soil	6	85	1.23	272	0.164	<1	2.95	0.013	0.62	0.1	0.02	7.8	0.3	<0.05	10	0.6	<0.2
1077976	Soil	6	69	1.06	235	0.162	<1	2.51	0.014	0.62	0.2	<0.01	6.9	0.3	0.06	9	<0.5	<0.2
1077975	Soil	5	69	1.07	266	0.162	<1	2.61	0.016	0.63	0.1	0.02	7.2	0.3	0.09	9	0.5	<0.2
1077974	Soil	6	64	1.02	186	0.147	<1	2.46	0.013	0.44	0.1	0.02	5.7	0.3	0.05	9	<0.5	<0.2
1077973	Soil	7	72	1.07	238	0.171	<1	2.55	0.014	0.59	0.1	0.01	7.3	0.3	<0.05	9	<0.5	<0.2
1077972	Soil	7	68	1.03	222	0.146	<1	2.36	0.015	0.49	0.2	0.03	6.4	0.2	<0.05	8	<0.5	<0.2
1077980	Soil	6	92	1.25	285	0.176	<1	2.90	0.014	0.64	0.1	0.02	8.0	0.3	0.05	10	0.7	<0.2
1077979	Soil	5	84	1.17	281	0.165	<1	2.67	0.013	0.62	0.2	0.02	7.3	0.3	<0.05	9	<0.5	<0.2
1077978	Soil	4	74	1.08	259	0.152	<1	2.66	0.015	0.68	0.1	<0.01	7.9	0.3	0.06	9	0.9	<0.2
1063001	Soil	6	69	1.04	182	0.166	<1	2.81	0.010	0.49	0.1	0.03	6.2	0.3	<0.05	9	0.8	<0.2
1063003	Soil	6	68	0.98	211	0.174	<1	2.42	0.012	0.51	0.1	0.02	6.6	0.3	<0.05	8	<0.5	<0.2
1063004	Soil	6	71	1.07	275	0.163	<1	2.72	0.012	0.66	0.3	0.01	7.2	0.3	<0.05	9	<0.5	<0.2
1063005	Soil	5	64	0.81	185	0.128	1	1.94	0.010	0.40	0.1	0.05	4.4	0.2	0.08	8	0.7	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1063002	Soil	1.1	53.1	6.8	85	<0.1	48.5	19.1	475	4.08	34.1	0.5	4.0	1.3	21	0.1	0.4	0.2	118	0.24	0.062
1078000	Soil	1.5	64.7	8.0	80	0.2	48.4	21.1	527	4.50	56.7	0.7	6.0	1.2	23	0.1	0.5	0.2	126	0.26	0.099
1077999	Soil	1.2	71.6	7.1	87	0.1	54.7	21.4	480	3.93	51.4	0.6	8.8	1.7	26	0.2	0.4	0.2	112	0.35	0.124
1077998	Soil	1.5	75.9	7.4	81	0.1	47.8	18.6	427	4.08	38.5	0.7	5.1	1.2	25	0.1	0.4	0.2	113	0.25	0.085
1077997	Soil	1.5	79.0	7.6	86	0.1	50.9	19.8	459	4.33	42.1	0.7	4.7	1.3	24	0.1	0.5	0.2	116	0.26	0.087
1077996	Soil	0.9	51.2	5.5	79	<0.1	45.1	18.4	426	3.65	33.2	0.5	2.6	1.2	19	0.1	0.3	0.1	105	0.21	0.050
1077990	Soil	1.2	75.4	5.7	84	<0.1	60.7	23.5	401	3.84	236.2	0.5	103.9	1.6	22	0.1	0.3	0.2	108	0.23	0.084
1077991	Soil	1.0	67.6	5.5	81	0.1	52.3	20.8	437	3.81	83.6	0.5	48.1	1.5	21	0.2	0.2	0.2	107	0.25	0.092
1077992	Soil	1.9	74.1	8.4	88	0.2	53.7	24.9	554	4.26	154.3	0.8	18.1	1.1	27	0.2	0.4	0.3	115	0.25	0.089
1077993	Soil	1.4	60.8	6.3	78	<0.1	44.7	18.1	448	3.82	88.0	0.6	22.2	1.3	19	0.2	0.4	0.2	102	0.17	0.061
1077994	Soil	0.9	42.0	5.1	69	<0.1	33.5	14.2	374	3.35	23.8	0.5	19.2	1.2	19	0.1	0.3	0.2	98	0.23	0.057
1077985	Soil	0.9	52.0	5.7	70	0.1	47.7	19.1	400	3.48	59.6	0.6	11.1	1.6	22	0.2	0.4	0.1	95	0.20	0.054
1077995	Soil	1.5	76.0	9.1	83	0.2	65.8	24.4	419	4.01	160.1	0.7	17.8	1.8	37	0.3	2.1	0.2	96	0.16	0.061
1077989	Soil	1.3	62.2	6.2	86	<0.1	52.0	22.4	474	3.81	69.3	0.6	8.9	1.5	20	<0.1	0.3	0.2	114	0.24	0.091
1077988	Soil	1.5	67.6	7.2	86	0.1	47.1	19.4	462	4.02	86.6	0.6	13.0	1.5	27	0.3	0.4	0.2	109	0.29	0.102
1077987	Soil	1.0	44.9	5.4	66	<0.1	40.1	16.2	394	3.37	21.4	0.5	13.0	1.6	21	<0.1	0.3	0.2	97	0.26	0.073
1077986	Soil	1.5	78.5	11.0	90	0.2	75.6	30.5	651	4.47	53.4	1.3	9.2	2.7	36	0.1	0.6	0.2	113	0.28	0.083
1077984	Soil	1.0	53.7	5.9	72	0.2	46.9	17.7	450	3.71	44.2	0.6	12.9	1.6	19	0.1	0.3	0.2	109	0.24	0.063
1070254	Soil	1.1	75.7	6.7	99	0.2	71.4	26.7	443	4.36	70.4	1.0	21.6	1.7	46	0.2	0.3	0.3	129	0.43	0.075
1070262	Soil	0.9	58.2	4.3	66	<0.1	57.4	20.4	442	3.78	54.8	0.4	6.4	1.4	37	<0.1	0.4	0.1	108	0.49	0.117
1070261	Soil	0.9	96.3	5.4	83	0.2	91.2	30.8	516	4.42	106.6	0.7	42.3	1.6	39	0.1	0.4	0.2	131	0.39	0.067
1070258	Soil	1.1	90.6	8.5	86	0.3	90.1	32.5	578	4.19	79.1	0.8	16.8	1.8	43	0.3	0.4	0.4	125	0.58	0.098
1070263	Soil	0.7	64.8	4.4	67	0.2	69.5	21.9	484	3.90	107.4	0.5	80.7	1.6	37	0.1	0.4	0.2	113	0.50	0.112
1070257	Soil	1.3	72.9	5.3	88	0.2	82.6	30.4	482	4.22	32.3	0.8	4.8	1.6	39	<0.1	0.3	0.2	133	0.46	0.068
1070256	Soil	1.0	72.3	6.3	93	0.2	69.1	25.9	425	4.28	69.7	0.9	21.4	1.6	45	0.2	0.3	0.3	124	0.41	0.076
1070255	Soil	1.2	52.4	7.2	74	0.2	50.2	20.3	472	3.89	36.5	0.6	4.6	0.9	40	0.2	0.3	0.2	113	0.31	0.070
1070259	Soil	1.1	79.8	5.0	71	0.2	67.2	25.8	532	4.15	38.5	0.7	6.8	1.2	43	<0.1	0.4	0.2	123	0.53	0.091
1094400	Soil	1.1	60.1	6.9	79	0.2	65.5	26.3	448	3.99	380.7	0.7	13.8	1.3	42	0.1	0.4	0.2	117	0.30	0.066
1094386	Soil	0.9	50.9	5.3	73	0.1	49.9	19.0	440	3.71	120.3	0.7	16.2	1.5	27	0.1	0.8	0.2	100	0.29	0.080
1094398	Soil	0.8	43.7	5.3	65	0.1	61.6	26.5	513	3.99	44.6	0.5	2.9	1.5	88	<0.1	1.0	0.1	122	0.82	0.118



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1063002	Soil	6	69	1.07	195	0.197	2	2.68	0.012	0.50	0.2	0.03	7.3	0.3	0.09	8	0.6	<0.2
1078000	Soil	8	73	1.06	220	0.168	1	2.71	0.014	0.37	0.1	0.04	7.3	0.2	0.11	9	<0.5	<0.2
1077999	Soil	7	68	1.09	244	0.188	<1	2.47	0.018	0.53	0.2	0.02	8.1	0.3	<0.05	8	0.6	<0.2
1077998	Soil	8	65	0.98	187	0.163	<1	2.49	0.015	0.26	0.1	0.03	6.6	0.2	0.07	8	0.9	<0.2
1077997	Soil	8	69	1.03	201	0.170	<1	2.67	0.014	0.32	0.1	0.02	7.0	0.3	0.08	9	0.6	<0.2
1077996	Soil	6	62	0.97	190	0.180	<1	2.23	0.012	0.44	0.1	0.03	6.7	0.2	0.06	7	<0.5	<0.2
1077990	Soil	7	65	0.98	240	0.180	<1	2.47	0.011	0.69	0.1	<0.01	7.7	0.3	<0.05	8	<0.5	<0.2
1077991	Soil	6	64	1.00	237	0.187	<1	2.44	0.012	0.65	0.2	0.02	7.5	0.3	<0.05	8	<0.5	<0.2
1077992	Soil	7	67	0.99	225	0.151	<1	2.63	0.013	0.43	0.1	0.04	6.7	0.3	0.06	8	0.6	<0.2
1077993	Soil	6	58	0.91	176	0.156	<1	2.30	0.012	0.43	0.2	0.01	6.0	0.3	<0.05	7	0.7	<0.2
1077994	Soil	6	54	0.88	186	0.169	<1	2.08	0.012	0.37	0.1	0.02	5.8	0.2	<0.05	7	0.7	<0.2
1077985	Soil	7	59	0.96	175	0.153	<1	2.41	0.014	0.43	0.1	0.03	6.1	0.2	<0.05	7	0.7	<0.2
1077995	Soil	7	57	0.82	210	0.146	<1	2.05	0.020	0.42	0.1	0.02	6.6	0.2	0.10	7	0.7	<0.2
1077989	Soil	6	70	1.06	275	0.189	<1	2.61	0.016	0.67	0.1	0.01	7.8	0.3	<0.05	9	<0.5	<0.2
1077988	Soil	6	66	1.01	230	0.162	<1	2.41	0.013	0.47	0.1	0.01	7.0	0.3	<0.05	8	0.7	<0.2
1077987	Soil	6	59	0.92	176	0.165	<1	2.20	0.012	0.43	0.1	0.01	6.4	0.2	<0.05	7	<0.5	<0.2
1077986	Soil	8	156	1.46	215	0.145	<1	3.00	0.019	0.38	0.1	0.03	6.0	0.3	<0.05	9	0.5	<0.2
1077984	Soil	7	64	0.99	231	0.177	<1	2.44	0.012	0.51	0.2	0.02	7.2	0.3	<0.05	8	0.6	<0.2
1070254	Soil	8	118	1.48	330	0.179	<1	2.91	0.030	0.67	0.4	0.01	8.5	0.3	0.12	9	<0.5	<0.2
1070262	Soil	8	81	1.30	356	0.204	<1	2.37	0.034	0.66	0.2	0.01	6.8	0.3	<0.05	8	<0.5	<0.2
1070261	Soil	8	103	1.39	300	0.178	<1	2.89	0.029	0.62	0.2	0.02	8.8	0.3	0.07	9	0.7	<0.2
1070258	Soil	8	109	1.45	339	0.161	<1	2.58	0.025	0.72	0.2	0.02	8.2	0.3	0.09	8	<0.5	<0.2
1070263	Soil	7	90	1.36	307	0.186	<1	2.51	0.027	0.64	0.5	<0.01	7.7	0.3	<0.05	8	<0.5	<0.2
1070257	Soil	9	124	1.52	355	0.184	<1	2.78	0.025	0.68	0.1	0.03	7.8	0.3	0.09	10	<0.5	<0.2
1070256	Soil	8	110	1.45	315	0.171	<1	2.85	0.029	0.68	0.3	0.02	8.0	0.3	0.15	9	0.7	<0.2
1070255	Soil	7	79	1.16	248	0.139	<1	2.71	0.017	0.40	0.2	0.04	6.4	0.3	0.09	9	0.6	<0.2
1070259	Soil	8	87	1.34	314	0.182	<1	2.66	0.027	0.66	0.1	0.03	7.5	0.3	0.09	8	0.8	<0.2
1094400	Soil	9	118	1.65	270	0.186	<1	2.82	0.028	0.69	0.4	<0.01	6.7	0.3	0.09	9	<0.5	<0.2
1094386	Soil	8	73	1.12	224	0.134	<1	2.35	0.018	0.41	0.2	0.03	6.7	0.2	0.08	8	0.6	<0.2
1094398	Soil	8	144	2.21	444	0.279	1	3.07	0.085	0.91	0.2	0.03	5.7	0.4	0.07	9	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1070266	Soil	1.3	68.4	5.7	68	0.2	62.1	22.4	498	4.04	54.1	0.6	58.2	0.9	42	0.1	0.3	0.2	119	0.46	0.071
1070265	Soil	1.1	66.8	5.2	62	0.2	57.1	20.2	432	3.75	52.9	0.6	15.1	0.6	44	<0.1	0.3	0.2	110	0.50	0.082
1070260	Soil	1.0	85.1	4.6	77	0.2	82.7	27.8	519	4.09	44.1	0.6	11.6	1.5	47	0.3	0.4	0.2	115	0.57	0.138
1070264	Soil	1.2	56.8	4.6	55	0.2	44.7	26.4	875	3.19	31.0	0.5	3.7	0.5	47	0.1	0.4	0.1	88	0.59	0.098
1070253	Soil	0.8	69.3	5.2	92	0.1	82.1	29.2	532	4.28	37.4	0.7	2.8	2.0	59	0.2	0.4	0.2	132	0.44	0.064
1070267	Soil	0.8	67.3	5.0	70	0.2	79.0	23.9	467	4.02	70.0	0.5	9.8	1.3	59	<0.1	0.2	0.2	110	0.45	0.096
1094385	Soil	0.8	40.5	4.5	70	0.2	44.5	17.5	400	3.44	87.8	0.6	8.0	1.6	24	<0.1	0.6	0.1	93	0.30	0.090
1094399	Soil	1.0	68.2	4.5	95	0.1	61.2	26.6	427	4.23	73.5	0.7	5.1	1.9	33	0.2	0.3	0.2	130	0.41	0.095
1070252	Soil	0.9	60.1	5.3	80	<0.1	80.9	28.5	421	4.11	55.0	0.6	4.0	1.6	40	0.1	0.3	0.1	118	0.32	0.060
1094396	Soil	1.1	54.4	5.1	82	0.2	49.6	20.3	454	4.17	59.7	0.6	6.0	1.2	44	0.1	0.3	0.2	126	0.60	0.059
1094392	Soil	1.0	66.4	5.9	67	0.2	69.3	23.4	534	4.40	343.0	0.4	44.9	1.1	26	0.1	3.3	0.2	114	0.24	0.084
1094387	Soil	1.2	47.3	5.6	71	0.2	44.9	17.3	468	3.69	54.3	0.8	6.5	1.1	28	<0.1	0.6	0.2	103	0.28	0.076
1094394	Soil	1.1	58.4	5.5	86	0.1	50.7	20.7	491	4.13	69.4	0.6	8.5	1.5	30	0.1	0.6	0.2	115	0.35	0.091
1094393	Soil	1.0	57.2	6.6	68	0.2	57.1	19.8	501	4.06	271.3	0.6	41.4	0.9	29	0.1	2.3	0.2	106	0.34	0.094
1070251	Soil	0.9	79.5	4.6	103	0.2	85.9	37.7	515	4.72	66.5	0.7	7.1	2.2	65	0.2	0.3	0.1	144	0.59	0.120
1094397	Soil	0.9	45.7	5.2	61	0.1	51.2	20.7	455	3.53	154.1	0.6	7.3	0.7	41	<0.1	0.5	0.1	95	0.47	0.095
1094391	Soil	1.3	69.1	7.7	77	0.4	67.9	24.5	710	4.74	329.4	0.7	43.1	1.2	35	0.1	2.2	0.2	125	0.34	0.081
1094388	Soil	1.1	45.2	5.2	68	0.2	45.0	16.4	361	3.44	49.0	0.8	8.3	0.5	31	<0.1	0.6	0.1	95	0.32	0.078
1094389	Soil	1.3	78.3	8.0	103	0.3	80.2	26.9	628	5.15	277.3	0.8	28.1	1.4	33	<0.1	1.6	0.2	131	0.31	0.090
1094390	Soil	0.8	49.2	4.6	58	0.2	49.8	16.8	407	3.55	202.0	0.4	27.8	1.1	25	0.2	2.4	0.1	92	0.27	0.068
1094395	Soil	1.0	62.8	5.2	86	0.2	54.8	22.2	472	4.30	53.5	0.7	4.8	1.5	29	0.1	0.4	0.2	122	0.26	0.072
1077800	Soil	1.0	51.4	5.1	95	<0.1	46.8	19.0	459	4.14	30.4	0.8	4.6	2.9	31	0.1	0.3	0.2	105	0.25	0.074
1077798	Soil	1.1	71.0	7.9	97	0.3	59.3	16.8	447	4.07	44.2	1.4	15.5	3.5	136	<0.1	1.0	0.2	85	0.39	0.087
1077793	Soil	1.1	47.9	6.1	94	0.1	61.9	25.3	560	3.98	32.3	0.9	3.2	2.5	26	<0.1	0.3	0.2	97	0.24	0.068
1077797	Soil	1.1	51.5	5.8	85	0.2	42.7	15.7	457	3.87	16.9	1.0	4.2	2.7	28	<0.1	0.3	0.2	93	0.24	0.074
1077795	Soil	0.8	50.8	5.5	90	0.2	54.6	20.4	466	3.91	21.6	0.9	3.0	2.8	25	0.1	0.3	0.2	98	0.22	0.061
1077791	Soil	1.1	52.5	5.7	100	0.2	51.4	19.5	458	3.98	28.0	1.0	2.6	3.5	37	0.2	0.3	0.2	93	0.35	0.105
1077788	Soil	1.0	54.5	5.2	109	0.1	49.4	18.5	444	3.93	39.1	1.0	2.5	4.3	34	0.2	0.2	0.1	94	0.30	0.123
1077783	Soil	1.2	54.9	7.2	106	0.1	50.6	19.5	528	4.32	75.6	1.1	5.3	3.1	28	<0.1	0.4	0.2	104	0.23	0.091
1077787	Soil	1.1	48.4	5.7	107	0.1	50.5	19.5	437	3.71	50.2	0.9	6.6	3.3	36	0.2	0.3	0.1	86	0.35	0.110



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070266	Soil	7	83	1.29	274	0.163	<1	2.65	0.021	0.54	0.3	0.04	6.7	0.3	0.10	8	0.6	<0.2
1070265	Soil	7	78	1.20	268	0.140	<1	2.44	0.023	0.52	0.2	0.04	5.6	0.2	0.12	8	0.6	<0.2
1070260	Soil	8	100	1.44	309	0.193	<1	2.54	0.035	0.67	0.2	0.02	7.4	0.3	0.10	8	<0.5	<0.2
1070264	Soil	7	61	0.88	307	0.106	<1	1.87	0.022	0.23	<0.1	0.04	4.5	0.2	0.13	6	0.6	<0.2
1070253	Soil	8	132	1.67	287	0.193	<1	3.18	0.029	0.72	0.1	0.01	9.3	0.3	0.08	9	<0.5	<0.2
1070267	Soil	7	94	1.50	325	0.161	<1	2.96	0.026	0.63	0.3	<0.01	7.0	0.3	0.05	9	<0.5	<0.2
1094385	Soil	7	71	1.08	210	0.118	<1	2.10	0.014	0.47	0.2	0.02	5.7	0.2	0.06	8	<0.5	<0.2
1094399	Soil	9	121	1.57	288	0.150	<1	2.71	0.022	0.52	0.1	0.02	7.6	0.3	0.09	10	<0.5	<0.2
1070252	Soil	7	100	1.50	300	0.170	<1	2.83	0.030	0.69	0.2	0.02	6.4	0.3	0.08	10	<0.5	<0.2
1094396	Soil	6	91	1.32	461	0.146	<1	2.60	0.018	0.57	0.3	0.04	7.2	0.3	0.09	10	<0.5	<0.2
1094392	Soil	5	77	1.24	257	0.138	<1	2.69	0.016	0.74	0.3	0.04	6.7	0.3	0.06	8	<0.5	<0.2
1094387	Soil	9	76	1.11	255	0.114	<1	2.42	0.016	0.38	0.2	0.04	5.2	0.2	0.08	8	<0.5	<0.2
1094394	Soil	8	82	1.23	266	0.138	<1	2.53	0.021	0.54	0.2	0.03	6.7	0.3	0.08	9	<0.5	<0.2
1094393	Soil	6	70	1.09	210	0.112	<1	2.38	0.015	0.50	0.2	0.03	5.3	0.3	0.08	8	<0.5	<0.2
1070251	Soil	9	128	1.92	415	0.203	<1	3.13	0.047	0.90	0.2	0.02	8.7	0.4	0.06	11	<0.5	<0.2
1094397	Soil	7	98	1.29	257	0.129	<1	2.41	0.029	0.47	0.2	0.04	4.3	0.3	0.10	8	<0.5	<0.2
1094391	Soil	8	88	1.29	332	0.133	<1	3.08	0.017	0.61	0.2	0.05	6.9	0.3	0.08	9	0.6	<0.2
1094388	Soil	8	73	1.03	273	0.093	<1	2.25	0.016	0.40	0.3	0.05	4.0	0.2	0.10	8	<0.5	<0.2
1094389	Soil	9	110	1.51	304	0.139	<1	3.21	0.022	0.59	0.4	0.02	6.9	0.3	0.11	11	<0.5	<0.2
1094390	Soil	6	63	0.98	192	0.113	<1	2.07	0.015	0.47	0.4	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1094395	Soil	8	86	1.34	294	0.143	<1	2.76	0.021	0.63	0.3	0.03	7.0	0.3	0.09	10	<0.5	<0.2
1077800	Soil	12	74	1.19	173	0.126	<1	2.56	0.018	0.43	<0.1	0.02	5.6	0.3	0.08	9	<0.5	<0.2
1077798	Soil	16	62	1.15	167	0.067	<1	2.69	0.014	0.39	<0.1	0.02	5.2	0.2	<0.05	8	<0.5	<0.2
1077793	Soil	12	71	1.11	178	0.110	<1	2.39	0.014	0.38	0.1	0.01	4.9	0.3	0.06	8	<0.5	<0.2
1077797	Soil	14	66	1.08	149	0.099	<1	2.50	0.018	0.32	<0.1	0.02	4.6	0.3	0.08	8	<0.5	<0.2
1077795	Soil	12	72	1.14	164	0.119	<1	2.39	0.014	0.42	<0.1	0.02	5.1	0.3	0.05	8	<0.5	<0.2
1077791	Soil	15	65	1.08	185	0.111	<1	2.31	0.018	0.41	<0.1	<0.01	5.1	0.2	0.06	8	<0.5	<0.2
1077788	Soil	14	70	1.14	207	0.127	<1	2.65	0.016	0.50	0.2	0.02	5.5	0.3	0.06	8	<0.5	<0.2
1077783	Soil	13	77	1.24	198	0.116	<1	3.02	0.017	0.39	0.1	0.01	5.7	0.3	0.07	9	<0.5	<0.2
1077787	Soil	13	65	1.08	177	0.108	<1	2.24	0.017	0.39	0.2	0.01	4.9	0.2	0.06	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
1077794	Soil	1.0	46.7	5.9	87	0.1	52.6	18.9	465	3.80	29.2	0.9	2.9	2.4	27	0.1	0.3	0.2	95	0.25	0.070
1077801	Soil	0.8	47.3	5.4	83	<0.1	52.0	18.4	424	3.73	39.0	0.8	2.3	2.7	37	0.1	0.3	0.1	96	0.27	0.063
1077799	Soil	1.3	44.2	6.1	82	0.1	44.3	16.0	406	3.75	14.0	0.8	2.7	2.0	36	<0.1	0.4	0.2	91	0.24	0.075
1077789	Soil	0.8	66.2	7.1	123	0.1	69.5	25.5	517	4.25	39.1	1.3	3.1	5.2	50	0.1	0.2	0.2	106	0.27	0.095
1077790	Soil	0.9	48.3	5.1	97	0.1	49.4	18.6	417	3.62	23.0	1.0	3.6	3.2	38	0.2	0.3	0.1	89	0.36	0.100
1077803	Soil	0.7	57.8	5.9	86	0.1	52.0	19.3	381	3.80	133.5	0.8	4.9	2.7	26	0.2	0.4	0.2	89	0.17	0.043
1077796	Soil	1.0	61.0	7.3	97	0.2	54.2	19.5	467	3.94	14.8	1.0	5.8	2.9	32	0.2	0.2	0.2	102	0.28	0.084
1077792	Soil	1.0	49.2	5.5	92	0.2	45.7	18.7	493	3.89	27.4	1.0	4.9	2.9	30	0.1	0.3	0.2	96	0.30	0.085
1077802	Soil	1.2	48.3	7.6	89	<0.1	48.0	18.5	476	4.01	23.1	0.9	3.3	1.9	25	0.1	0.4	0.2	98	0.20	0.058
1077785	Soil	0.8	48.5	4.6	105	<0.1	60.5	24.5	451	3.94	28.7	1.0	3.3	3.7	31	0.1	0.2	0.1	103	0.28	0.092
1077779	Soil	1.0	45.0	5.4	98	<0.1	40.4	15.1	432	3.80	20.1	0.9	3.9	2.8	28	0.2	0.3	0.1	89	0.24	0.089
1077784	Soil	0.8	62.7	5.5	122	0.1	57.7	26.7	537	4.54	21.3	1.2	2.8	5.4	51	<0.1	0.1	0.2	125	0.27	0.092
1077778	Soil	0.8	57.9	4.5	107	<0.1	58.8	23.1	437	4.02	13.3	0.9	2.2	3.5	31	<0.1	0.2	0.1	102	0.30	0.083
1077776	Soil	1.2	47.3	5.7	88	<0.1	37.8	15.2	441	3.79	14.2	0.7	1.2	2.5	29	<0.1	0.4	0.2	93	0.33	0.079
1077774	Soil	0.8	46.7	3.9	94	<0.1	38.6	15.0	398	3.89	8.1	0.7	2.0	3.2	32	<0.1	0.2	0.1	106	0.33	0.081
1077786	Soil	0.9	58.9	5.8	121	0.1	59.6	23.8	481	4.16	47.9	0.9	3.2	3.9	35	0.2	0.4	0.1	104	0.35	0.118
1077773	Soil	1.0	38.7	5.4	89	<0.1	52.6	18.6	529	3.57	10.3	0.9	2.4	2.1	32	0.1	0.3	0.1	106	0.41	0.102
1077781	Soil	0.9	53.1	7.0	97	0.2	91.4	24.5	506	3.84	48.0	1.1	1.3	3.6	35	<0.1	0.3	0.2	93	0.28	0.091
1077780	Soil	1.3	47.0	7.3	90	0.1	41.5	20.1	650	3.89	37.3	1.1	2.7	2.0	32	<0.1	0.4	0.2	97	0.26	0.089
1077777	Soil	0.9	54.0	4.5	103	<0.1	57.0	22.5	426	3.89	12.8	1.0	1.2	3.6	30	<0.1	0.2	0.1	102	0.28	0.081
1077782	Soil	1.1	59.0	6.3	104	<0.1	60.3	20.9	515	4.08	27.2	1.0	1.0	3.5	30	0.2	0.3	0.2	107	0.30	0.083
1077771	Soil	1.2	42.3	8.0	93	<0.1	47.5	17.0	522	3.88	55.4	0.8	3.5	1.8	29	0.1	0.6	0.2	94	0.27	0.076
1077775	Soil	0.9	47.1	5.6	80	<0.1	35.3	14.7	416	3.57	10.1	0.7	3.1	2.1	27	<0.1	0.4	0.1	89	0.30	0.047
1077772	Soil	0.9	56.0	4.4	120	<0.1	92.8	30.5	505	4.53	25.5	0.8	0.5	3.3	32	0.1	0.2	0.1	131	0.30	0.070



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Project: SAP
Report Date: August 29, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077794	Soil	12	68	1.08	170	0.107	<1	2.37	0.014	0.36	0.1	0.02	4.8	0.2	0.07	8	<0.5	<0.2
1077801	Soil	11	76	1.14	192	0.115	<1	2.65	0.016	0.42	0.2	0.02	5.2	0.2	0.05	8	<0.5	<0.2
1077799	Soil	12	63	1.03	171	0.097	<1	2.37	0.019	0.38	<0.1	0.03	4.3	0.2	0.11	8	<0.5	<0.2
1077789	Soil	17	84	1.28	275	0.131	<1	3.13	0.014	0.73	0.1	<0.01	6.7	0.4	<0.05	10	<0.5	<0.2
1077790	Soil	13	63	1.04	176	0.107	<1	2.18	0.016	0.39	<0.1	<0.01	4.6	0.2	<0.05	7	<0.5	<0.2
1077803	Soil	12	61	1.03	145	0.112	<1	2.40	0.016	0.41	<0.1	0.02	4.8	0.2	0.07	7	<0.5	<0.2
1077796	Soil	15	70	1.13	204	0.111	<1	2.49	0.025	0.44	<0.1	0.01	5.3	0.3	0.10	8	<0.5	<0.2
1077792	Soil	13	68	1.12	190	0.106	<1	2.40	0.015	0.42	0.2	0.02	5.0	0.3	0.07	8	<0.5	<0.2
1077802	Soil	11	73	1.17	165	0.104	<1	2.76	0.012	0.38	0.1	0.02	4.9	0.3	0.05	8	<0.5	<0.2
1077785	Soil	13	87	1.31	284	0.135	<1	2.70	0.016	0.55	0.3	<0.01	6.2	0.2	0.05	9	<0.5	<0.2
1077779	Soil	13	64	1.07	202	0.103	<1	2.45	0.016	0.45	<0.1	0.02	5.1	0.3	0.07	8	<0.5	<0.2
1077784	Soil	16	101	1.48	429	0.169	<1	3.59	0.016	1.04	0.1	<0.01	8.5	0.5	<0.05	12	<0.5	<0.2
1077778	Soil	15	75	1.25	199	0.155	<1	2.63	0.019	0.50	<0.1	0.02	6.9	0.3	0.06	9	<0.5	<0.2
1077776	Soil	12	58	0.98	142	0.127	1	2.20	0.015	0.24	<0.1	0.03	4.9	0.2	0.05	7	<0.5	<0.2
1077774	Soil	14	72	1.21	239	0.161	<1	2.43	0.025	0.55	<0.1	0.02	6.8	0.3	0.11	8	<0.5	<0.2
1077786	Soil	14	78	1.26	224	0.160	<1	2.72	0.019	0.53	<0.1	<0.01	6.5	0.3	0.08	9	<0.5	<0.2
1077773	Soil	10	95	1.22	229	0.121	<1	2.35	0.019	0.45	<0.1	0.03	6.5	0.2	0.06	8	<0.5	<0.2
1077781	Soil	11	131	1.58	293	0.168	<1	3.14	0.019	0.60	<0.1	0.03	4.9	0.3	0.05	9	<0.5	<0.2
1077780	Soil	13	66	1.05	184	0.111	2	2.60	0.014	0.27	<0.1	0.04	5.3	0.2	0.08	8	<0.5	<0.2
1077777	Soil	15	72	1.20	198	0.153	<1	2.58	0.018	0.49	<0.1	0.01	6.5	0.3	<0.05	8	<0.5	<0.2
1077782	Soil	14	85	1.29	252	0.149	<1	2.85	0.018	0.44	0.2	0.02	6.8	0.3	0.06	9	<0.5	<0.2
1077771	Soil	11	63	1.05	145	0.101	<1	2.39	0.013	0.31	<0.1	0.02	4.9	0.2	0.05	8	<0.5	<0.2
1077775	Soil	11	53	0.96	132	0.133	1	2.04	0.019	0.27	0.1	0.03	4.9	0.2	<0.05	7	<0.5	<0.2
1077772	Soil	12	111	1.57	300	0.190	<1	3.12	0.023	0.70	0.1	0.02	9.3	0.3	0.06	10	<0.5	<0.2



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Project: SAP
Report Date: August 29, 2011

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QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
1076880	Soil		1.1	31.1	7.0	127	0.3	34.4	21.8	698	3.53	12.4	0.5	3.5	1.5	25	0.3	0.4	0.2	86	0.34	0.115	
REP 1076880	QC		1.1	30.8	6.7	126	0.3	33.8	21.6	708	3.54	12.3	0.5	4.4	1.5	25	0.3	0.3	0.2	83	0.32	0.117	
1198581	Soil		0.7	48.7	4.1	63	<0.1	43.9	16.4	327	3.71	8.8	0.5	2.4	1.7	30	<0.1	0.2	0.1	109	0.26	0.083	
REP 1198581	QC		0.6	46.9	4.1	62	<0.1	41.8	16.1	309	3.55	8.5	0.5	1.7	1.6	28	0.1	0.2	0.1	105	0.27	0.080	
1198577	Soil		0.5	74.2	5.7	95	<0.1	70.8	22.4	413	4.66	26.6	0.6	4.6	1.8	28	<0.1	0.5	0.2	148	0.30	0.120	
REP 1198577	QC		0.6	75.7	6.1	96	<0.1	70.5	22.8	426	4.71	28.0	0.6	7.2	1.8	29	0.1	0.4	0.2	148	0.31	0.117	
1198557	Soil		0.9	62.8	5.7	51	<0.1	61.7	22.2	493	3.81	37.8	0.5	5.4	1.2	24	0.1	0.4	0.2	91	0.27	0.074	
REP 1198557	QC		0.8	61.8	5.9	51	<0.1	61.9	21.4	490	3.81	37.1	0.5	10.1	1.2	24	<0.1	0.4	0.2	92	0.26	0.071	
1075554	Soil		1.0	54.0	4.5	70	0.1	54.7	19.0	355	3.91	16.4	0.5	2.3	1.9	25	0.1	0.3	0.2	120	0.29	0.088	
REP 1075554	QC		1.0	52.1	4.3	70	<0.1	53.5	18.4	323	3.81	16.4	0.5	3.9	1.9	23	<0.1	0.2	0.2	118	0.28	0.091	
1075565	Soil		1.0	59.4	3.8	82	0.2	65.6	24.7	439	4.10	33.0	0.4	27.1	1.5	26	<0.1	0.2	0.2	133	0.37	0.126	
REP 1075565	QC		0.9	60.4	3.9	84	0.2	66.7	24.3	434	4.11	33.5	0.4	6.8	1.6	27	<0.1	0.2	0.2	136	0.39	0.136	
1077720	Soil		1.3	46.1	8.6	118	0.1	47.7	24.4	922	4.17	19.2	0.8	2.8	1.2	32	0.4	0.4	0.3	105	0.36	0.108	
REP 1077720	QC		1.3	47.0	8.8	114	<0.1	48.8	24.8	937	4.24	19.4	0.9	9.6	1.1	33	0.3	0.5	0.3	106	0.36	0.112	
1070427	Soil		0.7	86.0	7.1	47	0.1	82.8	25.8	455	4.29	19.7	0.6	4.5	2.2	46	0.2	0.3	0.2	113	0.43	0.126	
REP 1070427	QC		0.7	89.6	7.1	46	0.1	86.4	25.1	460	4.31	19.3	0.6	6.1	2.2	46	0.2	0.3	0.2	114	0.43	0.120	
1070421	Soil		1.0	138.8	5.2	69	0.2	93.5	32.2	441	4.67	20.9	0.9	4.2	1.6	48	0.2	0.1	0.2	144	0.30	0.110	
REP 1070421	QC		1.1	143.9	4.9	72	0.2	100.3	34.6	462	5.15	21.4	0.9	4.5	1.6	48	0.1	0.1	0.2	148	0.32	0.108	
1077980	Soil		1.1	72.4	7.4	73	0.1	66.2	24.6	562	4.59	54.7	0.6	12.9	1.2	24	0.1	0.3	0.2	134	0.22	0.075	
REP 1077980	QC		1.1	70.5	7.5	75	0.1	64.5	23.6	550	4.41	53.6	0.6	13.9	1.2	24	0.1	0.3	0.2	128	0.21	0.074	
1077999	Soil		1.2	71.6	7.1	87	0.1	54.7	21.4	480	3.93	51.4	0.6	8.8	1.7	26	0.2	0.4	0.2	112	0.35	0.124	
REP 1077999	QC		1.2	70.8	7.1	84	0.1	55.3	21.9	469	3.89	50.5	0.6	7.9	1.6	25	0.2	0.3	0.2	110	0.33	0.121	
1070261	Soil		0.9	96.3	5.4	83	0.2	91.2	30.8	516	4.42	106.6	0.7	42.3	1.6	39	0.1	0.4	0.2	131	0.39	0.067	
REP 1070261	QC		1.0	96.1	5.5	83	0.2	91.6	31.1	522	4.44	106.2	0.7	13.7	1.7	38	0.1	0.4	0.2	132	0.39	0.067	
1094387	Soil		1.2	47.3	5.6	71	0.2	44.9	17.3	468	3.69	54.3	0.8	6.5	1.1	28	<0.1	0.6	0.2	103	0.28	0.076	
REP 1094387	QC		1.1	48.5	5.6	70	0.2	44.0	17.0	458	3.71	53.2	0.8	7.8	1.0	27	<0.1	0.5	0.2	100	0.27	0.074	
1077802	Soil		1.2	48.3	7.6	89	<0.1	48.0	18.5	476	4.01	23.1	0.9	3.3	1.9	25	0.1	0.4	0.2	98	0.20	0.058	
REP 1077802	QC		1.1	45.5	7.2	85	<0.1	46.5	18.0	468	3.88	22.4	0.9	5.5	1.9	25	<0.1	0.4	0.2	96	0.19	0.055	



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Part 2

QUALITY CONTROL REPORT

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Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1076880	Soil	6	54	0.89	170	0.143	<1	1.95	0.010	0.45	0.2	0.02	5.0	0.2	0.06	7	<0.5	<0.2
REP 1076880	QC	6	53	0.90	165	0.143	<1	1.99	0.010	0.45	0.2	0.02	5.1	0.2	0.05	7	0.5	<0.2
1198581	Soil	7	76	1.22	281	0.177	<1	2.55	0.017	0.69	0.1	0.01	8.0	0.3	0.09	8	<0.5	<0.2
REP 1198581	QC	6	72	1.16	263	0.169	1	2.43	0.016	0.66	0.1	0.01	7.5	0.3	0.05	8	<0.5	<0.2
1198577	Soil	6	127	1.63	452	0.181	<1	3.39	0.013	1.28	0.1	<0.01	12.9	0.4	<0.05	12	<0.5	<0.2
REP 1198577	QC	6	126	1.70	459	0.181	<1	3.45	0.014	1.30	0.1	<0.01	13.0	0.4	<0.05	11	<0.5	<0.2
1198557	Soil	7	56	0.95	108	0.112	<1	2.20	0.010	0.30	0.1	0.02	5.0	0.2	<0.05	7	0.5	<0.2
REP 1198557	QC	7	55	0.95	108	0.114	1	2.17	0.010	0.30	0.1	0.01	5.0	0.2	<0.05	7	<0.5	<0.2
1075554	Soil	7	87	1.15	267	0.209	3	2.61	0.015	0.75	0.4	0.01	7.8	0.3	0.08	8	<0.5	<0.2
REP 1075554	QC	6	87	1.21	265	0.203	2	2.79	0.015	0.74	0.3	0.01	7.8	0.3	0.06	8	<0.5	<0.2
1075565	Soil	5	105	1.32	344	0.222	2	2.92	0.019	1.02	0.3	0.01	8.6	0.4	<0.05	10	<0.5	<0.2
REP 1075565	QC	5	105	1.36	338	0.224	1	2.93	0.019	1.06	0.3	0.02	8.9	0.3	<0.05	9	<0.5	<0.2
1077720	Soil	8	71	1.02	247	0.119	1	3.01	0.015	0.27	0.4	0.04	5.6	0.2	0.07	9	<0.5	<0.2
REP 1077720	QC	8	72	1.03	249	0.122	2	3.07	0.015	0.27	0.4	0.03	5.5	0.2	0.08	9	<0.5	<0.2
1070427	Soil	6	99	1.57	382	0.158	<1	3.08	0.020	0.94	0.1	0.01	7.8	0.3	<0.05	8	<0.5	<0.2
REP 1070427	QC	5	97	1.50	387	0.154	<1	2.89	0.019	0.98	0.1	<0.01	7.9	0.4	<0.05	8	<0.5	<0.2
1070421	Soil	6	109	1.61	532	0.188	<1	3.19	0.021	1.13	0.1	0.02	10.5	0.4	0.10	10	0.8	<0.2
REP 1070421	QC	6	115	1.64	563	0.195	<1	3.31	0.021	1.20	0.2	0.02	11.0	0.4	0.09	10	0.7	<0.2
1077980	Soil	6	92	1.25	285	0.176	<1	2.90	0.014	0.64	0.1	0.02	8.0	0.3	0.05	10	0.7	<0.2
REP 1077980	QC	6	89	1.24	276	0.166	<1	2.96	0.014	0.63	0.1	0.02	7.8	0.3	0.06	10	0.8	<0.2
1077999	Soil	7	68	1.09	244	0.188	<1	2.47	0.018	0.53	0.2	0.02	8.1	0.3	<0.05	8	0.6	<0.2
REP 1077999	QC	7	67	1.00	238	0.183	<1	2.41	0.013	0.52	0.1	0.02	7.8	0.2	<0.05	8	0.6	<0.2
1070261	Soil	8	103	1.39	300	0.178	<1	2.89	0.029	0.62	0.2	0.02	8.8	0.3	0.07	9	0.7	<0.2
REP 1070261	QC	9	105	1.40	306	0.177	<1	2.95	0.029	0.62	0.2	0.02	8.8	0.3	0.05	9	<0.5	<0.2
1094387	Soil	9	76	1.11	255	0.114	<1	2.42	0.016	0.38	0.2	0.04	5.2	0.2	0.08	8	<0.5	<0.2
REP 1094387	QC	8	75	1.10	252	0.109	<1	2.35	0.015	0.38	0.2	0.04	5.1	0.2	0.08	8	<0.5	<0.2
1077802	Soil	11	73	1.17	165	0.104	<1	2.76	0.012	0.38	0.1	0.02	4.9	0.3	0.05	8	<0.5	<0.2
REP 1077802	QC	11	71	1.13	160	0.102	<1	2.66	0.012	0.38	0.1	0.02	4.8	0.2	<0.05	8	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1077773	Soil	1.0	38.7	5.4	89	<0.1	52.6	18.6	529	3.57	10.3	0.9	2.4	2.1	32	0.1	0.3	0.1	106	0.41	0.102
REP 1077773	QC	1.0	37.5	5.4	90	<0.1	51.7	18.7	538	3.64	9.6	0.9	0.5	2.1	32	<0.1	0.3	0.2	106	0.40	0.102
Reference Materials																					
STD DS8	Standard	12.7	105.9	119.0	312	1.8	36.1	7.4	589	2.39	24.4	2.6	115.8	6.6	60	2.3	5.6	6.3	40	0.66	0.076
STD DS8	Standard	12.7	107.4	121.0	308	1.7	36.0	7.4	593	2.36	24.2	2.7	106.4	6.9	66	2.3	5.6	6.5	40	0.66	0.077
STD DS8	Standard	15.1	119.6	127.8	326	1.8	43.6	8.6	645	2.56	24.0	2.9	109.8	7.4	64	2.3	5.6	6.6	46	0.73	0.084
STD DS8	Standard	12.6	98.1	117.5	292	1.7	35.9	7.1	581	2.37	23.3	2.5	110.5	6.7	63	2.3	5.0	6.4	40	0.66	0.073
STD DS8	Standard	13.4	111.7	123.6	301	1.8	38.4	7.7	594	2.37	24.7	2.6	111.7	6.6	66	2.2	4.8	6.4	42	0.68	0.076
STD DS8	Standard	13.6	112.8	124.5	308	1.9	38.5	7.5	609	2.42	25.3	2.8	123.5	6.9	69	2.1	5.6	6.9	44	0.68	0.079
STD DS8	Standard	13.9	118.2	130.8	324	1.8	43.7	8.5	675	2.71	26.1	2.9	126.5	7.3	67	2.5	5.7	7.1	47	0.75	0.087
STD DS8	Standard	14.6	113.0	130.3	341	1.9	38.5	8.8	672	2.71	26.6	2.9	121.3	6.8	74	2.4	5.9	7.0	48	0.76	0.083
STD DS8	Standard	14.3	118.8	132.8	325	1.9	41.0	7.6	602	2.48	26.4	2.8	119.0	6.7	64	2.6	5.0	5.9	41	0.69	0.078
STD DS8	Standard	12.4	112.8	117.2	283	1.6	38.3	7.6	546	2.23	23.1	2.9	97.9	6.5	54	2.1	4.9	6.1	46	0.63	0.070
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

WHI11000964.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1077773	Soil	10	95	1.22	229	0.121	<1	2.35	0.019	0.45	<0.1	0.03	6.5	0.2	0.06	8	<0.5	<0.2
REP 1077773	QC	9	94	1.21	238	0.118	1	2.31	0.019	0.44	<0.1	0.04	6.4	0.2	0.07	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	113	0.59	279	0.105	2	0.88	0.086	0.40	3.1	0.19	2.0	5.5	0.14	4	5.6	4.9
STD DS8	Standard	15	111	0.58	272	0.121	2	0.86	0.082	0.39	2.9	0.19	2.0	5.3	0.16	4	4.6	4.7
STD DS8	Standard	16	133	0.61	290	0.132	4	0.97	0.093	0.41	3.2	0.20	2.3	5.5	0.23	5	5.3	5.0
STD DS8	Standard	15	112	0.58	279	0.101	1	0.90	0.107	0.44	2.8	0.20	2.3	5.2	0.14	5	5.0	4.6
STD DS8	Standard	15	114	0.59	275	0.122	1	0.88	0.094	0.41	2.7	0.20	2.3	5.3	0.18	4	4.9	5.2
STD DS8	Standard	16	118	0.61	278	0.126	3	0.93	0.087	0.40	2.8	0.20	2.2	5.4	0.19	5	4.9	4.9
STD DS8	Standard	15	130	0.64	287	0.129	2	0.96	0.085	0.41	3.0	0.20	2.3	5.5	0.18	5	5.6	5.1
STD DS8	Standard	17	132	0.64	298	0.123	2	0.99	0.103	0.46	3.1	0.20	2.4	5.6	0.23	5	5.7	5.7
STD DS8	Standard	14	120	0.57	284	0.114	2	0.88	0.086	0.43	3.0	0.21	2.0	5.6	0.12	4	4.4	4.6
STD DS8	Standard	12	118	0.54	243	0.109	3	0.83	0.072	0.35	2.8	0.20	1.8	5.1	0.26	4	4.3	4.4
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2