TSX-V:CZX
CANADA ZINC
METALS CORP.

NI 43-101 Technical Report on the Mount Alcock Property

Omineca Mining Division,

Northeast British Columbia

NTS 94F 11

Latitude 57° 40’ N, Longitude 125° 22’ W

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31 May 2012

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1.0 Summary

The Mount Alcock (Mt Alcock) project is an exploration property 100% owned by Canada Zinc Metals Corp., subject to a 1% Net Smelter Return (NSR) royalty. The property is located in northeastern British Columbia (BC), Canada, and has seen intermittent exploration since the 1970's, focused on the potential of the property to host sedimentary exhalative (SEDEX) lead-zinc-silver mineralization. Exploration in the region has focused on the Gunsteel Formation; at the base of the Upper Devonian to Mississippian Earn Group. Gunsteel Formation traverses the property as two thrust-bound panels; with a strike length of at least 2.5 kilometres over the Main barite showing, and a second panel with a strike length of at least 7 kilometres over the Nod and Seep grids.

Cyprus Anvil Mining Corp. completed the earliest known exploration around the property, whilst exploring the nearby Cirque deposit in 1977; grab samples of the barite kill zone on the Main barite showing reportedly returned 14.8 % combined lead-zinc and 0.6 ounces per ton silver. The Mt Alcock property was originally staked by Triumph Resources Ltd. when the BC Government opened the Kwadacha Recreation Area to mineral exploration in 1989. Canada Zinc Metals Corp. ('Canada Zinc Metals') obtained 100 % ownership of the Mt Alcock property in 2008. The property currently consists of 21 claim units, and lies partially within the Nuhseha (Fox) Resource Management Zone (formerly the Kwadacha Recreation Area); allowing for resource development in a Provincial recreation area. The property is located in the Kwadacha and Warneford Rivers catchment areas, 290 kilometres northwest of the town of Mackenzie, BC.

The claims, which are the subject of this report, form part of the company's contiguous Kechika Regional and Akie properties; extending 140 kilometres in a NW-SE direction. The Kechika Regional project area covers the entire Kechika Trough; a southerly extension to the Selwyn Basin, known to host sedimentary exhalative (SEDEX) style base metal deposits including Akie (Cardiac Creek), Cirque and Driftpile. The Cirque deposit lies along strike 18 kilometres to the southeast. Canada Zinc Metals holds the Cardiac Creek deposit, located 40 kilometres southeast on its Akie claims, with an indicated resource of 12.7 million tonnes at grades of 8.38 % zinc, 1.68 % lead and 13.7 g/t silver, and an inferred resource of 16.3 million tons at 7.38 % Zn, 1.34 % Pb and 11.6 g/t Ag (Sim 2012). The Mt Alcock property is similarly prospective for base metals; SEDEX style mineralization found on the property is hosted by the same carbonaceous Gunsteel Formation shale units of the Devonian to Mississippian Earn Group, surrounded by Ordovician to Devonian Road River Group siltstones. Barite within the Gunsteel Formation is generally peripheral to base metal massive sulphides.

Exploration work completed on the Mt Alcock property to date since 1989 includes historical diamond drilling on the Main barite showing (Plate 1) in addition to geological mapping, geophysics, and surface geochemistry work on the Main, Nod and Seep grids. Triumph completed mapping and prospecting, rock (grabs, hand trenching) sampling, silt, and soil geochemistry surveys over the Main grid, followed by two phases of drilling in 1989 and 1990, funded by Teck Resources. A total of 17 diamond drill holes were drilled for 2264.1 metres to test a white coloured 'kill zone' situated on a prominent saddle, devoid of vegetation. The kill zone has a surface extent up to 500 metres long by an average 90 metres wide; with true width in the order of 10-20 metres. Soil geochemistry has defined a zinc-lead anomaly over a

length of 2.4 kilometres and a width of 300 metres. Anomalous zinc values in soils ranging from 500 to 10,000 ppm (parts per million), are coincident with anomalous lead values ranging from 100 to 30,000 ppm. Grab samples of stratiform barite hosted zinc-lead sulphides in outcrop over a 300 metre strike length returned up to 14 % combined zinc-lead and 1.0 ounce per ton silver.

In 1989, Triumph drilled the Main barite kill zone; intersecting zinc-lead-silver mineralization overlying a pale grey laminated to massive barite facies. Diamond drilling totalled 1,111.6 metres in 9 holes on 5 sections. The best intercept recorded was 8.8 metres grading 9.3 % combined zinc-lead, and 1.2 ounces per ton silver, in drill hole 89-3. Drill hole 89-9 returned the widest intercept, with 10.5 metres grading 6.8 % combined zinc-lead and 0.7 ounces per ton silver. In 1990, approximately 1,000 metres of Triumph's proposed 1,500 metre drill program was completed, to test IP chargeability anomalies, and drill down dip and along strike of the 1989 drill holes. The 1990 drilling results were not published in any public assessment report; however a subsequent report by Teck, and a set of hand-drawn cross sections, suggests that the results were disappointing. No resource estimation calculation exists for the property.

In 1992, Teck Resources completed mapping, rock, soil and silt sampling at the Nod and Seep grids, a limited gravity survey over an area of nodular barite at the Nod showing, and regional moss mat sampling. Teck's recommendations to drill test a gravity anomaly were never carried out. Mineralization at the Nod showing is interpreted as offset by faulting at depth. Prospective geochemistry anomalies were discovered at the Seep showing. The results of the moss mat sampling were inconclusive.

No exploration work was undertaken on the claims between 1992 and 2008; at this time Mantle Resources Inc. extended the Nod soil sampling grid, completed prospecting and rock sampling at the Nod and Main barite showings, and reviewed historical core.

Canada Zinc Metals completed prospecting, infill soil sampling and reviewed historical drill core in 2008. Exploration work during 2011 focused on field work at the Nod and Seep areas, and considerable effort was dedicated to the compilation of historical data, and to the preservation of the remaining reference core material. Field work comprised prospecting, mapping and geochemical sampling of the Nod-Seep Gunsteel Formation shale panel. A total of six rock samples, 259 soil samples and 26 silt samples were collected and assayed. No drilling was undertaken. Historical data compilation included digitization of all available surface geochemistry samples and geology mapping completed prior to 2011.

The Mt Alcock exploration project warrants further exploration. Follow-up work recommended for the 2012 field season includes:

- 1,400 metres of drilling to test targets on the Main barite, Nod and Seep grids (Phase I),
- A 449 line kilometre VTEM geophysical survey to be flown at 200 metre spacing over the entire Mt Alcock property,
- Check sampling of historical core as warranted.

The estimated cost of the 2012 exploration program is $1,096,343. The cost estimate assumes the Mt Alcock will run concurrently with Canada Zinc Metals' Akie exploration program, in order to achieve cost-savings for helicopter, geophysical and drilling crew mobilization costs, and for use of shared core processing facilities. A stand-alone exploration camp would be constructed for the drilling and reconnaissance phases of the program.

Contingent of positive results from the 2012 program, a further work program (Phase II) is recommended, including:

- at least 2,000 metres drill testing on the Main barite grid, at Nod showing, and at any high-priority targets identified by the VTEM survey,
- Prospecting, mapping, soil geochemistry and detailed geophysical ground surveys are recommended on any anomalies generated by the 2012 VTEM surveys. Targets to be generated in conjunction with development of mineralization fingerprinting using VTEM survey results over the nearby Pie and Akie properties,
- Follow-up airborne VTEM survey infill lines may be warranted in 2013 for detail over any areas identified by the 2012 exploration program as having significant potential for sulphides,
- Extension of current soil geochemistry grids between Nod-Main barite and Seep-Main barite, with concurrent prospecting and mapping programs in these areas,
- Concurrent stream water testing for barium sulphate.

2.0 Introduction

This report documents exploration work carried out by Canada Zinc Metals Corp. ('Canada Zinc Metals') on its Mt Alcock property during 2011. Historical work by other operators prior to 2011 is summarized herein. The Mt Alcock mineral project is a portion of the Canada Zinc Metals' much larger Kechika Trough claim holdings.

The author supervised field work during 2011 under contract to Canada Zinc Metals, supported by an able field crew from Canada Zinc Metals and geological contractor, Coast Mountain Geological. Compilation of historical exploration data, initiated in 2008, is now largely complete. Field work on the Mt Alcock claims during 2011 focused on reconnaissance geological mapping and prospecting, rock, soil, and silt sampling, and re-boxing of the remaining historical core; for preservation purposes.

Field data was recorded in Universal Transverse Mercator (UTM) projection using North American Datum (NAD 83), located within Zone 10. All measurements in this report are in metric units.

3.0 Reliance on Other Experts

This report was prepared by Tanya Strate, P.Geol; an independent qualified person for the purposes of NI 43-101. The information, conclusions and opinions contained herein are based on the qualified person's field observations, direct conversations with Canada Zinc Metals personnel and from data, reports and other information supplied by Canada Zinc Metals. It is believed by the author that this information is essentially complete and correct and that no information has been intentionally withheld that would affect the conclusions made herein. The author has independently checked the legal status and ownership of all Mt Alcock mineral claims using BC mineral tenures online records at www.mtonline.gov.bc.ca

Historical work compiled in this report is derived from the work of previous technical reports on the property by other authors listed in the reference section of this report. Following critical review of historically reported data during preparation of this report, the author has no reason to believe that the information is false or intentionally misleading, although this necessitates relying to some extent on the accuracy and integrity of the previous data.

Key data sources follow:

- Published assessment reports and unpublished property reports by Triumph Resources in 1990
- Published assessment report by Teck Corporation in 1993,
- Unpublished assessment report by Dadson (2008) and discussions with Peter Dadson for work by Mantle Resources and Canada Zinc Metals Corp. between 2007 and 2008,
- Unpublished technical report by Dadson (2009) for Canada Zinc Metals Corp. in 2009,
- Nick Johnson, Exploration Manager - Canada Zinc Metals Corp., for the period 2009-2010,
- Acme Analytical Laboratories Ltd. (Acme) in Vancouver, BC: Canada Zinc Metals' sample analytical work is carried out and reported by Acme, including in-house standards and duplicates in every sample batch. Acme has held ISO 9001 accreditation since 1996, and ISO/IEC 17025:2005 (gold only) since 2011. Acme participates in CANMET and Geostats round robin proficiency testing and in the CALA Proficiency Testing Program.

4.0 Property Description and Location

Canada Zinc Metals Corp. holds 100% of the Mt Alcock property, comprising 21 contiguous mineral claims, which cover a total 91.72 square kilometres (9,172 hectares). The claims are located in the western ranges of the Northern Rocky Mountains in the Province of British Columbia (Figure 1). The Mt Alcock claims are all in good standing until 2021 (Figure 2, Table 1). The Mt Alcock property claims adjoin Canada Zinc Metals' Yuen claim block to the south and their Kwad claim block to the north; part the contiguous Kechika Trough block of claims with over 140 kilometres total strike length.

A Net Smelter Return (NSR) of 1% is payable on any production according to the terms of an agreement between Canada Zinc Metals Corp. (formerly Mantle Resources Inc.) and John Bot, dated October 3, 2006. The NSR agreement originally applied to claims Dacha 1-5, Kwad 1, and Kwadac (Table 1); approximately 53% of the Mt Alcock claims area; including most areas under active exploration. Proceeds from further claims incorporated into the project since are subject to negotiation. The NSR may be eliminated by the payment of $1,000,000 to John Bot.

The nearest town is Mackenzie BC, located approximately 300 kilometres southeast of the Mt Alcock property (Figure 1). The Mt Alcock property lies within topographic map unit 94F 11, with the geographic centre located at approximately latitude 57^{o} 40' N and longitude 125^{o} 22' W. Mt Alcock is listed under BC's Minfile as property number 094F015.

The writer is not aware of any environmental liabilities associated with the Mt Alcock property. There are no historical workings on the property. Indications of previous exploration activity are limited to core storage areas and old drill sites cut into timbered slopes.

Plate 1: Mt Alcock claims, looking east across the Main barite showing kill zone

Figure 1: Location of the Mt Alcock Property

Table 1: Canada Zinc Metals Corp. Mt Alcock Claims

Claim name	Tenure No.	Owner	Expiry Date	Hectares
DACHA 1	552394	Canada Zinc Metals Corp.	08-Dec-21	432.68
DACHA 2	552395	Canada Zinc Metals Corp.	08-Dec-21	640.31
DACHA 3	552396	Canada Zinc Metals Corp.	08-Dec-21	346.07
DACHA 4	552397	Canada Zinc Metals Corp.	08-Dec-21	415.69
DACHA 5	552398	Canada Zinc Metals Corp.	08-Dec-21	795.56
KWAD 1	534339	Canada Zinc Metals Corp.	08-Dec-21	311.30
KWADAC	555810	Canada Zinc Metals Corp.	08-Dec-21	1955.97
POLESTAR	553071	Canada Zinc Metals Corp.	08-Dec-21	363.93
SASSY	543021	Canada Zinc Metals Corp.	08-Dec-21	103.85
SASSY 10	543031	Canada Zinc Metals Corp.	08-Dec-21	103.89
SASSY 11	543032	Canada Zinc Metals Corp.	08-Dec-21	155.90
SASSY 12	543033	Canada Zinc Metals Corp.	08-Dec-21	225.21
SASSY 2	543022	Canada Zinc Metals Corp.	08-Dec-21	415.44
SASSY 3	543024	Canada Zinc Metals Corp.	08-Dec-21	415.59
SASSY 4	543025	Canada Zinc Metals Corp.	08-Dec-21	415.70
SASSY 5	543026	Canada Zinc Metals Corp.	08-Dec-21	415.05
SASSY 6	543027	Canada Zinc Metals Corp.	08-Dec-21	414.76
SASSY 7	543028	Canada Zinc Metals Corp.	08-Dec-21	414.97
SASSY 8	543029	Canada Zinc Metals Corp.	08-Dec-21	259.30
SASSY 9	543030	Canada Zinc Metals Corp.	08-Dec-21	138.38
SILVER LINK	552297	Canada Zinc Metals Corp.	08-Dec-21	433.11
Total	**21 claims**		**Hectares:**	**9172.66**

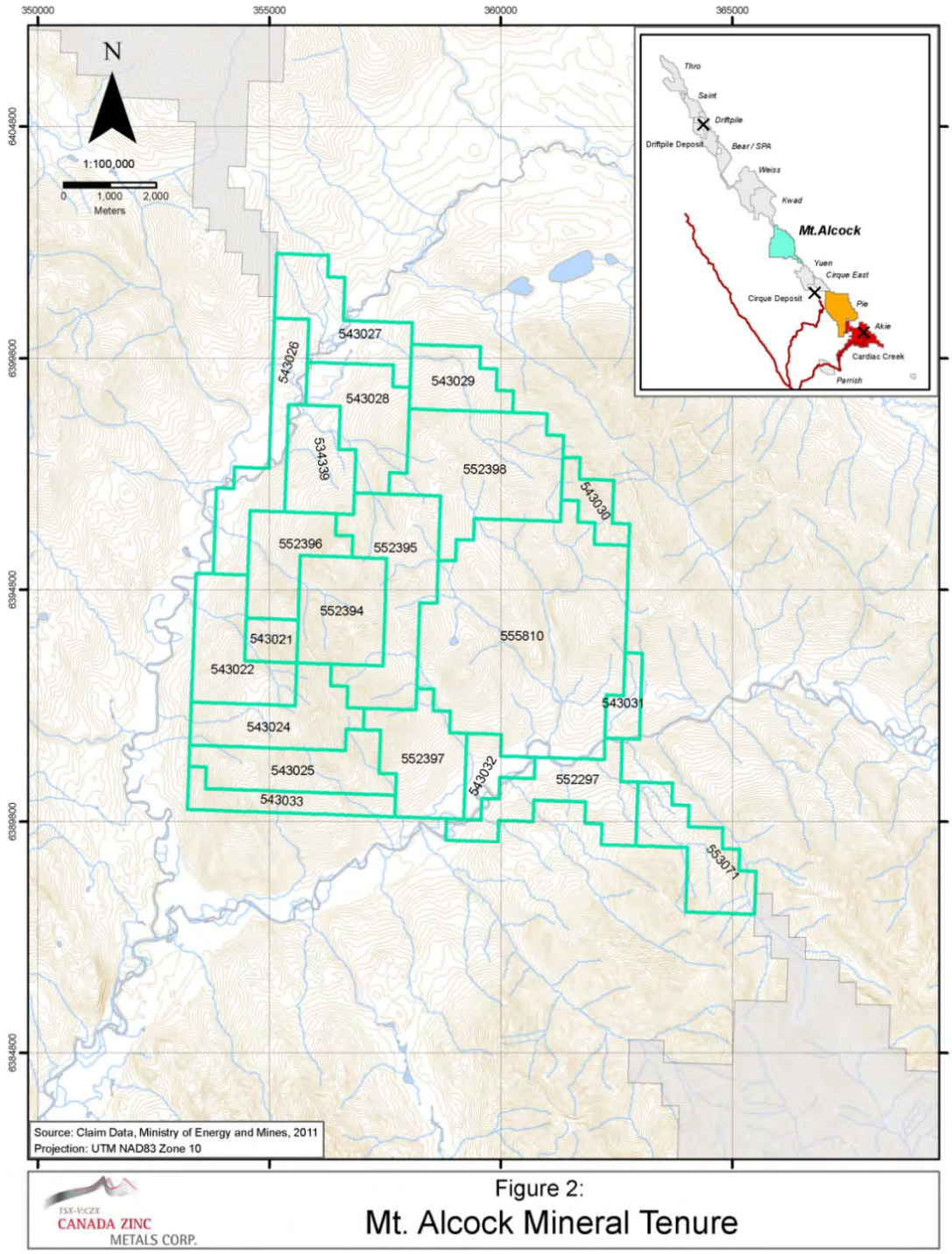


Figure 2: Mt Alcock Mineral Tenure

5.0 Accessibility, Climate, Local Resources, Infrastructure and Physiography

Access to the property is via helicopter from Canada Zinc Metals' Akie exploration camp, located 45 kilometres southeast of the Mt Alcock claims. There are no roads in the claims area. Northern Thunderbird Air (NT Air) currently provides air transport services on a scheduled five days a week to gravel airstrips at the villages of Tsay Keh and Kwadacha (formerly Fort Ware), BC. Tsay Keh is located at the northern end of Williston Lake; approximately 89 kilometres south of the Mt Alcock property.

Prince George ('PG'), located 450 kilometres to the south, is the major population and supply centre; PG is a major hub for transportation, communications, and commerce. Some supplies are derived locally in Tsay Keh or from Mackenzie; the latter is located at the southern end of Williston Lake; 300 kilometres southeast of the property (Figure 1). A gravel road connects Tsay Keh with Mackenzie. All of these communities have an active forestry industry, as well as growing mining and exploration industry nearby - including a new mining operation at Mt Milligan - providing a growing local skilled labour force to draw on.

The nearest electric transmission power source is the W.A.C. Bennett dam, capable of generating up to 2,730 megawatts of electricity, located on the Peace River approximately 270 kilometres southeast of the property (Figure 1). The privately owned Kemess power line runs north from BC Hydro's Kennedy substation, near Mackenzie, to the idled Kemess South mine located southwest of the Mt Alcock property. The straight line distance from the Kemess South mine to Mt Alcock is approximately 105 kilometres.

The property and adjacent areas are in an area of abrupt topographic relief with steep mountain terrain, ranging between about 820 metres to 2,000 metres above sea level. Parts of the area are above the tree line; covered by alpine meadow with mosses, lichen, and alpine flowers in summer, and with sparsely vegetated scree on steep slopes. Lower hillsides are forested with mature stands of black spruce, pine, aspen, and birch. The river valleys are densely vegetated with willow and alder.

Northwest trending ridges predominate, following the dominant strike direction, transected by the Warneford and Kwadacha Rivers.

The climate is influenced by both the Pacific Coast and the Rocky Mountains, resulting in highly variable, localized conditions for rainfall or snowfall, temperature and the number of sunshine hours. During the summer months, temperatures range between +5 to +30 degrees Celsius with moderate rainfall and/or snowfall at higher altitudes. During winter, temperatures can drop to minus 40 degrees Celsius, and can be accompanied by moderate accumulations of snow. The optimal season for field work is from May or June; when valleys become free of snow, through to late September; when winter weather generally returns.

6.0 History

Exploration history of the Mt Alcock property between 1977 to the present is summarized in Table 2, below.

Table 2: Exploration History

Year	Operator	Exploration Work
1977	Cyprus Anvil Mining Corp.	Discovery of Mt. Alcock: sulphides in a barite kill zone. Grabs 14.8% Pb+Zn, 0.6oz/t Ag
1989	Triumph Resources	Drilled 9 core holes for 1111.6 m on the Main (barite) showing, soils, rocks, 7 km IP on the Main showing grid
1990	Triumph Resources	Drilled 6 core holes for 1211.6 m, rock and soil sampling at Main showing
1990	Ecstall Mining Corp.	Soil and silt sampling on the NW side of Warneford River; adjacent to the Mt Alcock claim group
1992	Teck Corporation	Mapping, rock, soil, silt sampling at Nod and Seep grids. Gravity survey at Nod grid. Moss mat sampling
2008	Mantle Resources Inc. / Canada Zinc Metals Corp	Prospecting, rock and soil samping at NOD grid, prospecting and rock sampling at Main showing. Review of historical core. Initiated digitization of historical exploration data.

7.0 Geological Setting and Mineralization

7.1 Regional Geology

The Mt Alcock property is located within the Rocky Mountain fold and thrust belt of northeastern British Columbia. The area lies at the margin of ancestral North America and was a depositional environment for clastic and carbonate sedimentary rocks of Late Cambrian to Late Triassic age (MacIntyre 2005).

The property is situated in the Gataga district - within the Kechika Trough; a southeastern extension of the Selwyn Basin. The Kechika Trough comprises a 1,200 kilometres long belt of sediments which formed off the western edge of ancestral North America. The Selwyn Basin is bounded to the west and east by carbonates and shallow water clastic rocks of the Cassiar and MacDonald Platforms, respectively (Taylor and MacKenzie 1970 *in* MacIntyre 2005). Cambrian to Devonian rocks of the Selwyn Basin host world-renowned sedimentary exhalative (SEDEX) base metal deposits, including the Howards Pass, Anvil and MacMillan Pass districts (Abbott and Turner 1991).

The Kechika Trough was an area of deposition for a thick succession of basinal facies clastic and subordinate carbonate rocks along 180 kilometres of Palaeozoic and Early Mesozoic age sediments, and was subsequently thrust up into a series of southwest dipping fault slices or 'panels' (Figure 3). A generalised stratigraphic column for the Kechika Trough is presented in Figure 4. As noted on this figure, at least three stratigraphic levels within the basinal succession are prospective for sedimentary exhalative (SEDEX) type zinc-lead-silver (Zn-Pb-Ag) mineralization. Two of the prospective horizons are within the Gunsteel Formation - a carbonaceous shale unit, the third prospective unit is in the

underlying Road River Group. The basinal facies rocks occur in a number of southwest-dipping, north easterly-vergent thrust fault panels which repeat the stratigraphy.

The description of the geological setting and regional geology above was largely derived from a report written for Mantle Resources Inc. by D.G. MacIntyre (2005), with only minor modifications. A description of the regional stratigraphic units and structure present in the Mt Alcock property area follows, from work by MacIntyre and others, as synthesized by MacIntyre (1998, 2005). A more detailed review of the geological history is available by the individual authors cited by MacIntyre.

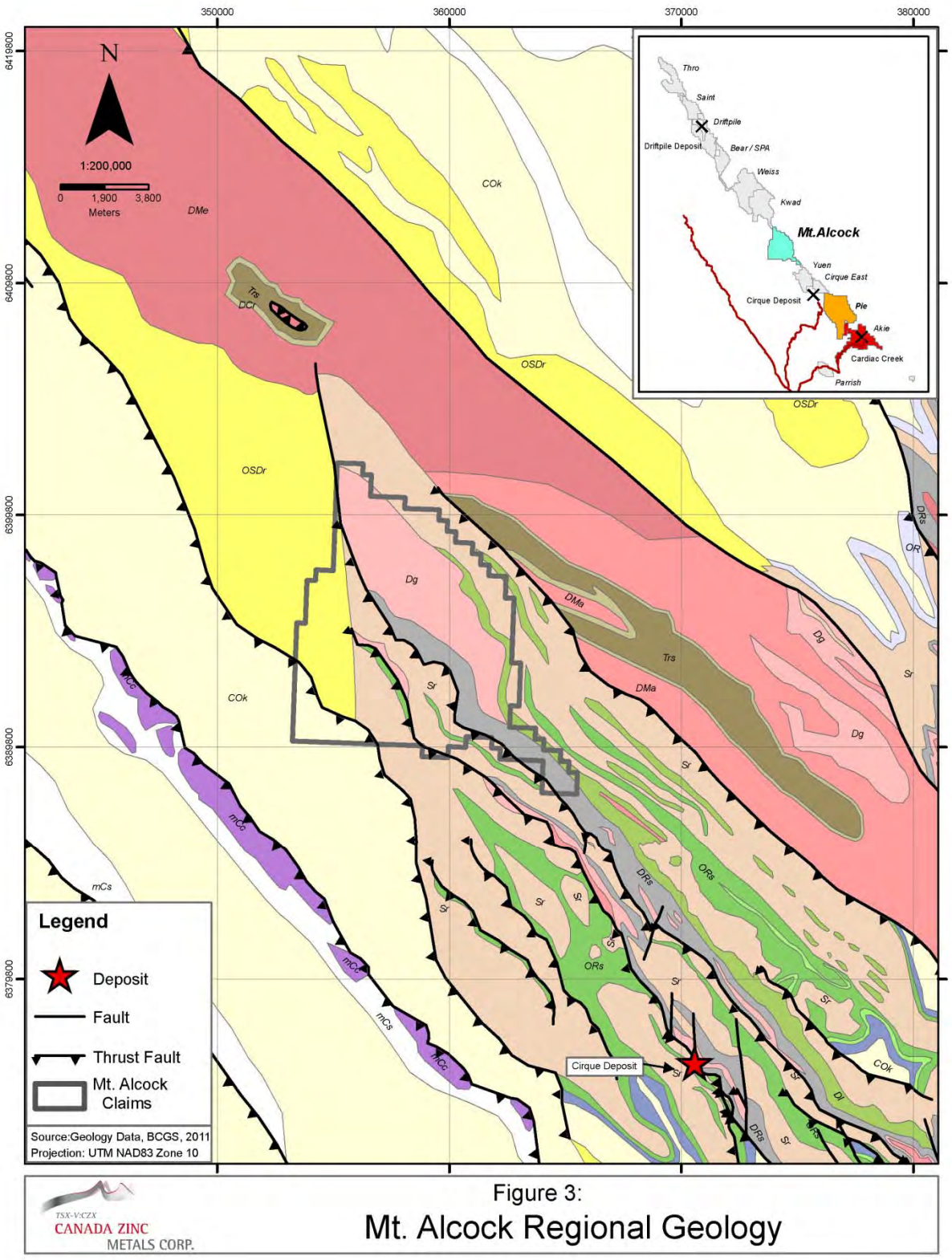
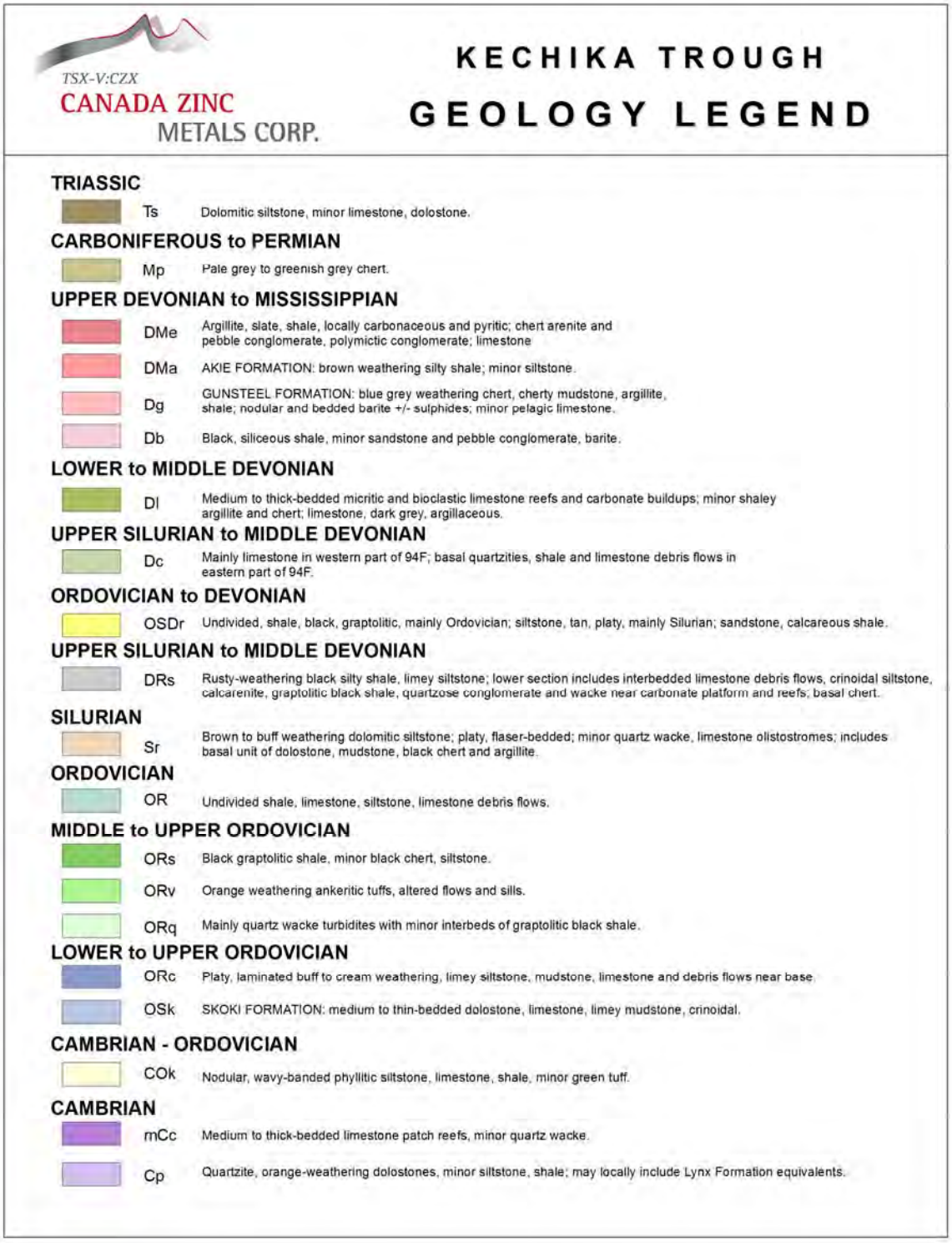


Figure 3: Regional Geology



Legend for Figure 3 Regional Geology (after BCGS 2011)

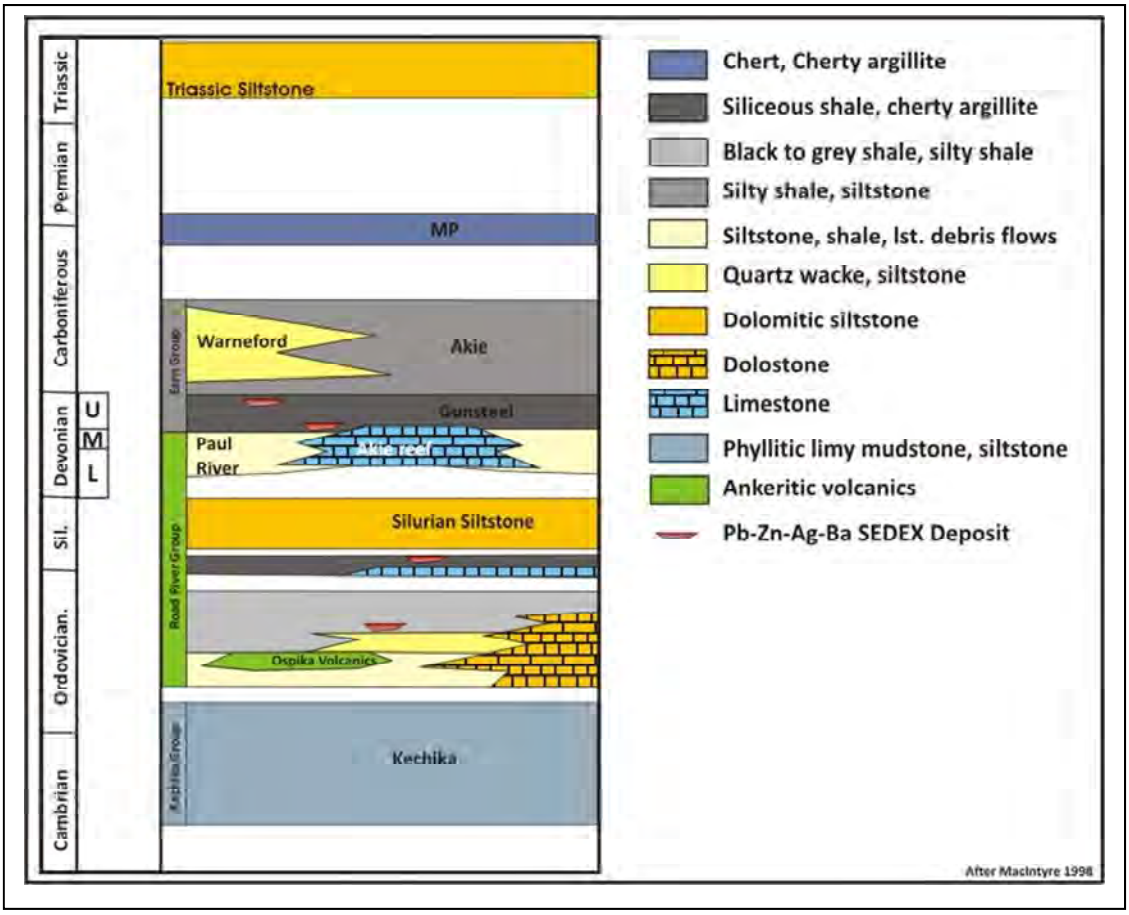


Figure 4: Stratigraphic Assemblages of the Kechika Trough after MacIntyre (1998, 2005)

7.2 Stratigraphic units

7.2.1 Kechika Group

The oldest rocks exposed on the Mt Alcock property are assigned to the Kechika Group (Figure 4). This stratigraphic unit comprises mainly calcareous argillites and argillites of Late Cambrian to Early Ordovician age (Ferri *et al*. 1999). The Kechika Group also includes limestone and rare tuffaceous strata. The unit is distinguishable in the field by the ubiquitous presence of boudins (*Pers. obs*.). Distribution of Kechika Group units is limited to the southwestern corner of the Mt Alcock claims.

7.2.2 Road River Group (Ordovician to latest Middle Devonian)

The Kechika Group is overlain unconformably by the Road River Group. This stratigraphic unit comprises a succession of calcareous siltstones, shales, limestones and minor volcanic rocks. This report uses the revised description from Road River Formation to Road River Group, recommended by MacIntyre (1998, 2005).

7.2.2.1 Lower Road River Group

The lower (Ordovician) part of the Road River Group includes a lower unit of thinly bedded cream, beige and reddish brown-weathering, laminated calcareous siltstone and shale with intercalated limestone turbidites and debris flows (Cecile and Norford 1979). The calcareous siltstones grade up section into a distinctive black shale unit with abundant Middle to Late Ordovician graptolites.

7.2.2.2 Ospika Volcanics (Late Ordovician)

Late (?) Ordovician volcanic rocks occur as discontinuous lenses, beds of green mafic flows or microdioritic sills, and as orange-weathering ankeritic crystal and lapilli tuffs (MacIntyre, 2005).

These rocks depart from the stratigraphic relationship indicated in Figure 4; they are listed in the BC government database (Massey *et al*. 2005) with an age range from Middle Ordovician to Middle Devonian in age. However, MacIntyre (2005) notes that in some areas, such as the Akie River area, the volcanic rocks are interbedded only with the late Early to early Middle Ordovician black shale facies and time-equivalent platformal rocks, within an areal extent parallel to the central axis of the Kechika Trough. Their composition and linear distribution suggest they were erupted along trough-bounding rifts.

7.2.2.3 Silurian Siltstone Unit

The Ordovician graptolitic black shales of the Road River rocks are overlain unconformably by basal Silurian thin-bedded to cross-laminated limestone and dolostone beds. A second unconformity (Cecile and Norford 1979) separates the basal Silurian calcareous beds from the overlying tan to orange-brown weathering dolomitic siltstone interbedded with varying proportions of orange-weathering limestone and dolostone.

7.2.2.4 Upper Road River Group

Thick carbonate buildups of the Akie, Kwadacha and Pesika Reefs, which range in age from late Early to late Middle Devonian (Gabrielse 1975), disconformably overlie the Silurian siltstone unit. Early Devonian limestone turbidites and shales are absent below the thickest parts of the reefs, suggesting that these areas were topographic highs where the Early Devonian strata were either eroded away or never deposited. Beneath the reefs, the upper part of the Silurian section is often red to pink-weathering, suggesting possible exposure and oxidation prior to the main episode of marine transgression and carbonate deposition (MacIntyre, 1998).

The Akie and Kwadacha Reefs are up to 200 metres thick along their western margins and appear to thin gradually to the north and east. The reefs are mainly composed of micritic and bioclastic limestone with occasional thin bedded shaley and argillaceous intervals. Locally, the reefs are very fossiliferous with crinoid, coral and stromatoporoid-rich zones. The presence of crinoid ossicles with twin axial canals, typically occurring near the tops of the reefs, indicates a probable late Early to early Middle Devonian age (MacIntyre, 1998).

7.2.3 Earn Group (Late Devonian to Mississippian)

The contact between the top of the Road River Group and base of the conformably or para-conformably overlying Earn Group is probably diachronous. Until shown otherwise, the contact is inferred to lie at the transition from Givetian to Frasnian.

MacIntyre (1992) and other workers informally divided the Earn Group into three formations. From oldest to youngest, these are the Gunsteel, Akie, and Warneford Formations. Rocks of the Gunsteel and the Akie Formations occur throughout the belt. The Akie Formation should not be confused with the Akie Reef; the latter is a facies of the Road River Group.

7.2.3.1 Gunsteel Formation

The Gunsteel formation is a thick, fairly homogeneous sequence of black, graphitic, generally massive, featureless shale, with a distinctive Gunsteel-blue coloured weathering. These shales are locally weakly siliceous, with cherty, carbonaceous and silty beds. Angular to sub-rounded, somewhat flattened and often weakly calcareous clasts occur throughout the unit but appear to increase down-section. MacIntyre (1998) suggests these clasts are derived from the crinoidal interbasinal reefs. Small, millimetre scale barite and calcite nodules often define bedding in otherwise featureless shale.

At or near the base of the unit, the shales are richer in silt, more siliceous and, as noted above, contain greater amounts of reef-derived clasts and barite nodules, which decrease up-section. The silty shales are thickly to thinly laminated. Pyritic banding with zinc-lead-silver mineralization decreases up-section from the base of the Formation. MacIntyre (2005) suggested that the pyritic bands are situated closer to the top of the Gunsteel formation. Sulphide bands also occur near the base of the Gunsteel Formation; these were intersected southeast along strike on the Main Pie showing, in historical drilling by Ecstall Mining Corporation (Morrison 2006). Barite beds with sulphide mineralization (pyrite, sphalerite and galena) are situated near the base of the Gunsteel Formation. These beds are locally deformed and vary from massive to laminar. The barite beds are interbedded with black shale layers up to 5 metres thick.

7.2.3.2 Akie Formation

Gunsteel Formation rocks are conformably overlain by the Akie Formation; the latter are recessive, thick-bedded, and non-siliceous, with rusty brown to tan weathering, medium grey aluminous shales of probable Late Devonian to Mississippian age. These rocks were deposited during a major, eastward advancing, marine transgression that occurred in Late Devonian to Mississippian time. The Akie Formation shales are difficult to distinguish from older shale members in the district. However, in general they have a phyllitic sheen on cleavage surfaces and show faint colour banding, which is less common in other shale members. Orange weathering calcarenite beds, although rare, are also locally present. The basal part of the Akie Formation typically weathers to a rusty brown and in places contains pyrite laminae and barite nodules.

7.2.3.3 Warneford 'Formation'

The Warneford 'Formation' informally comprises quartzose turbidites, characterized by grey, weathering-resistant beds of chert pebble conglomerate, quartz wacke and siltstone. These rocks

interfinger with Late Devonian to Mississippian black shales of the Akie Formation in the Warneford River area. The Warneford Formation is thin, intermittent, or absent in many parts of the Mt Alcock area. Thin quartzose siltstone and wacke beds that occur in the Gunsteel section that hosts the Cirque deposit may be distal equivalents of the Warneford formation.

7.2.4 Mississippian to Triassic

The youngest rocks in the Gataga District are dolomitic siltstones and limestones that outcrop in the core of a large, northwest-trending synclinorium located northeast of the Mt Alcock claim boundary; in the headwaters of the Kwadacha River. These rocks are distinguishable from the lithologically similar Silurian siltstone unit by the presence of Triassic brachiopods (Gabrielse 1977).

7.3 Regional structure

The geology of the Kechika Trough is typical of the thin-skinned tectonic style of the Rocky Mountain Fold and Thrust Belt (MacIntyre 1998, 2005). Northeast-vergent compression caused detachment of Palaeozoic strata from the rigid crystalline basement, partially stacking and also folding the relatively incompetent plates (composed of basinal facies rocks) along a series of imbricate thrust faults.

The structural style changes across the map area from west to east. In the west, imbricate, southwest dipping reverse faults bound asymmetric northeast vergent overturned folds; in the east, outwardly dipping reverse faults bound major synclinoria and truncate folds within overriding anticlinoria. These eastern synclinoria are characterised by large-scale upright folds and preserve the Devonian strata MacIntyre (1998, 2005). MacIntyre also infers that high-angle growth faults bounding the Devonian-Mississippian depositional troughs were reactivated to form major thrust faults during Tertiary compression. He cites the proximity of Palaeozoic rift-style volcanism, fracture-channelled mineralizing fluids, clastic fans and reef margins to the present thrust faults as evidence that these faults were active in Palaeozoic time.

Pigage (1986) recognized two coaxial phases of deformation at the Cirque deposit, the largest known lead-zinc-silver deposit within the Kechika Trough. The earlier ubiquitous (D1) phase includes northeast-vergent tight asymmetric folds with gently dipping southwest limbs and steep to overturned northeast limbs; the latter are often offset by high angle reverse faults, juxtaposing Ordovician and Silurian strata against Devonian Gunsteel Formation shales. The shales typically have a penetrative slatey cleavage that is axial planar to the S1 folds. At the Cirque deposit, a second (D2) phase of deformation folded the early slaty cleavage and developed a penetrative crenulation cleavage, axial planar to these late, open to upright, northeast vergent folds.

High-angle listric normal and reverse faults, with displacements of up to several hundred metres documented at the Cirque deposit, generally trend parallel or at slight angles to the major high angle thrust faults. These faults are probably related to brittle failure of thrust plates during detachment and thrusting. (Pigage, 1986).

North to northeast trending high angle faults, some with a strike-slip component, are interpreted as synthetic shears related to an oblique compressional stress regime of inferred Tertiary age (MacIntyre 2005).

7.4 Property Geology

The Mt Alcock property is underlain by northwest-southeast trending rocks of the Kechika Group, Road River Group, and the Earn Group; the latter including the Gunsteel Formation, the known host to mineralization.

Showings with sulphide-bearing mineralization including Mt Alcock, Cirque, Fluke, and Elf, are restricted to a belt of Gunsteel Formation rocks bounded by the Akie reef to the east and uplifted Ordovician and Silurian rocks to the west (MacIntyre 2008). Mineralization at West Pie and the GPS bedded barite showing is hosted by the same rocks (*pers. Obs.*). The Gunsteel Formation shales and siltstones overlying the limestone are locally folded into tight synclines, some of which are slightly overturned. The Silurian siltstones are in thrust fault contact with the Devonian shales.

The similarity of many of the geologic units presents a major challenge in geologically mapping the Kechika Trough area (*Pers. obs*). Complicating this, the Rocky Mountain fold and thrust belt has caused structural complexities such as older-over younger stratigraphy due to folding and thrust faulting.

The Mt Alcock property is underlain by two main northwesterly trending structural zones, or 'panels', of Upper Devonian Gunsteel Formation sediments. The southwestern-most panel of prospective units has a mapped strike length of 5 kilometres; traceable northwest from the Kwadacha River. The panel includes the Main barite showing; a barite-zinc-lead occurrence typical of the assemblages that host the stratiform SEDEX base metal mineralization in the district. The panel comprises recessive, steel grey to black weathering upper Devonian to Mississippian shales and siltstones of the Gunsteel Formation unconformably thrust over a package of grey-weathering, calcareous Ordovician graptolitic shale, overlain by Silurian limestone and orange-weathering dolomitic Silurian siltstones. The Silurian limestone tends to form prominent ridges of grey weathered grey to beige, bedded, locally silty units. The Main barite showing comprises a prominent curvilinear body of pale grey barite atop a ridge saddle on the north side of Mount Alcock. Talus, sub crop and outcrop of massive to laminated white to grey barite rubble with grains of pyrite, galena, and sphalerite are exposed in the associated kill zone.

A thrust fault with a northwest-southeast strike is interpreted to separate the southwestern and northeastern panels of Gunsteel Formation. This fault lies in an area of poor exposure.

The second, northeastern panel; covering the entire northern half of the Mt Alcock claims, comprises prospective Gunsteel Formation mapped across surface widths of 2.2 kilometres to over 4 kilometres. This panel includes the Nod and Seep grids. The Gunsteel Formation units mapped on this panel comprises a thick accumulation of soft, silty, grey to black shales with minor resistant to hard siliceous units. A nodular barite zone at Nod occurs as two sub crops separated by 300 metres of strike slip faulting. The sub crops are approximately 5 metres wide, and 350 metres and 250 metres long respectively. The Nod grid area appears to be complexly faulted and folded (Dadson 2008). The Nod barite kill zone is less extensive and less well developed than the zone on the Main barite showing. Underlying units mapped to the northeast of the Gunsteel Formation include Road River Group units comprising Lower to Middle Devonian limestone and Ordovician black shales and graptolitic siltstones.

Historical work (Murrell and Roberts 1990, Jensen 1993) describes five mappable Gunsteel Formation sub-units at Mt Alcock, as follows:

- 'chert' (or porcellanite): grey to black, strongly to pervasively siliceous, competent, typically phyllitic unit, may possess a cleavage and show megascopic folding. Commonly ribbon-banded with 3-5 centimetre chert bands between 5 millimetre black shale partings and laminations. The chert or porcellanite is commonly interbedded with poker chip shale.
- pregnant shale: the favourable host unit for barite-sulphide mineralization in the district, this sub-unit is moderately to strongly siliceous black shale; carbonaceous, non-calcareous, silvery blue-grey weathering, and thickly bedded with beds ranging from 2 to 8 centimetres wide. Locally with weakly laminated and disseminated pyrite. A fine stockwork of quartz veining is often present. Pregnant shale is distinguishable from other black shales by its thick bedding and moderately to strongly siliceous nature.
- laminated shale: this sub-unit is distinctly laminated, grey to black, somewhat silty, non-siliceous and only locally weakly calcareous. The laminated shale is often interbedded with poker chip shale, and in places hosts nodular to massive barite; likely representing a distal turbidite.
- poker chip shale: occurs as strongly cleaved, often phyllitic and locally graphitic dark grey to black shale. The poker chip shale is soft to weakly siliceous, and has a silvery grey weathered surface, is carbonaceous, often folded and contorted, locally silty and non-calcareous, often rusty and locally contains laminated and disseminated pyrite. The sub-unit may be interbedded with the distinctly laminated shales and can host nodular to massive barite.
- nodular to locally massive barite: laterally equivalent to the poker chip shale and distinctly laminated shale. The circular to deformed ellipsoid spherulitic barite nodules ranging from 0.1 to 5 millimetres in diameter, and constituting 15-40 % of the rock mass, may represent the distal equivalent to the stratiform barite-sulphide deposits. Massive barite beds may be up to 3 metres thick locally. Nodular barite may represent the distal equivalent to stratiform barite-sulphide deposits.

Approximately half the Mt Alcock claims area has been mapped at reconnaissance scale (Figure 5), predominantly by Triumph Resources and Teck Corp. All the available historical mapping to date on the property has been geo-registered and digitized. Work is in progress to incorporate and standardize all the available geological mapping on Canada Zinc Metals' Kechika Trough claims into one cohesive interpretation. The distribution of Gunsteel Formation host outcrops mapped to date, and the footwall Road River Group, are shown on Figure 5. Historical drill hole locations are shown as an inset map.

7.5 Mineralization

Mineralization on the Mt Alcock property comprises sedimentary exhalative (SEDEX) stratiform zinc, lead and silver sulphide mineralization which overlies variably laminated to massive to nodular barite. The host is siliceous, carbonaceous black shale units of the Gunsteel Formation, in close proximity to the Road River contact. Sulphide mineralogy comprises pyrite, sphalerite and galena in barite-sulphides. The mineralized strata dip 70 to 85 degrees to the southwest, along a northwest-southeast strike trend.

Two barite occurrences, the Main barite and the Nod showings, crop out on the Mt Alcock property. They are located on the southwestern and northeastern Gunsteel Formation shale panels respectively. The Main barite showing outcrop comprises pale grey laminated barite mapped over 300 metres of strike length and up to 200 to 500 metres wide (average 200 metres), forming a distinctive vegetation-free 'kill zone' on a prominent saddle. Barite is fine to coarse-grained, granular in character and can be laminated to bedded and locally massive in form. A northwest trending fault with an estimated displacement of 60 metres of right lateral movement cross-cuts and offsets the mineralized stratigraphy (Murrell and Roberts 1990). To the north of the fault, dips vary between 35 and 50 degrees to the southwest. In contrast, to the south of the fault, dips are sub-vertical (Murrell and Roberts 1990).

Drilling at the Main barite showing intersected two distinct zinc-lead mineralized stratigraphic horizons within a package of Gunsteel Formation with approximate dimensions 10 metres true width, 230 metres of strike length and at least 160 metres of dip extent (130 vertical metres). The barite contains several horizons of galena and sphalerite mineralization (Murrell and Roberts 1990). Fine grained disseminated galena is common throughout the entire exposed barite kill zone. A white, vuggy porous siliceous unit in the immediate hanging wall of the exposed barite appears to represent a siliceous exhalative. The size and shape of the open spaces suggests the vugs were once filled with sulphides. Both the immediate hanging wall and footwall of the exposed barite consists of black porcellanite.

Historical rock sampling across the Main barite showing by Cyprus Anvil Mining Company returned up to 14.8 % combined zinc and lead in grab samples, and up to 3.6 % lead, 1.5 % zinc and 0.5 ounces per ton silver from chip samples across the kill zone talus and sub-crop (Jensen 1993).

At the Nod showing, spherulitic barite nodules range between 0.1 and 0.5 millimetres in diameter with a 19 millimetre modal size. Nodular barite may represent pulled apart laminae of barite. The nodules are circular to ellipsoid, and are commonly concentrated in discontinuous wavy bands up to 5 millimetres wide along bedding (Jensen 1993). The black shale host is not significantly altered (Jensen 1993).

Whole rock geochemistry suggests that the Gunsteel Formation host is silica-rich, with average 75 to 85 % SiO, carbon-rich, iron-poor and enriched in barium; averaging 500-1,000 ppm Ba (Jensen 1993).

The exploration target at Mt Alcock is for Cardiac Creek- and Cirque-style mineralization. A description of this style of mineralization follows, modified from MacIntyre (2005).

"In 1994, massive sulphide mineralization was discovered in gossanous outcrops in Cardiac Creek. The stratigraphic position of this mineralization corresponds to the base of the Gunsteel Formation [defined to date by drilling over a strike length of 1500m and tested to depths of 800m below surface]. *Mineralization occurs as centimeter scale layers of finely laminated, fine grained pyrite, sphalerite and galena interbedded with barren black shales and cherty argillites of the Gunsteel Formation".*

Age-dating of conodonts from fragments of deposit footwall sedimentary breccias defines these units as being Famennian or younger in age (Paradis *et al.* 1998). The age of mineralization of the Mt Alcock showings most likely correlates with the age of the Cirque deposit, since the Mt Alcock units are located along strike from the same panel of Gunsteel Formation shale (N. Johnson *pers. comm.*).

8.0 Deposit Types

8.1 Regional Deposit Types

The discovery of the Tom zinc-lead-silver deposit in 1951 and the Faro and Jason deposits in 1965 and 1975 respectively, demonstrated potential for large tonnage, sediment-hosted stratiform massive sulphide and barite deposits in the Paleozoic rocks of the Selwyn Basin. The discovery of these sedimentary-exhalative massive sulfide (SEDEX) deposits in the Yukon prompted subsequent regional geological and geochemical exploration programs during the 1960s and 1970s. As a result of these exploration activities, a number of SEDEX mineral occurrences with pyrite, sphalerite and galena were discovered within the southeastern extension of this basin into BC; known as the Kechika Trough.

Exploration activity in the Kechika Trough has, to date, targeted zinc-lead +/- silver mineralization associated with stratiform bedded barite, which occurs associated with exhalative pyrite beds near the base of the Late Devonian Gunsteel Formation. Deposits in the area include Cirque, Cardiac Creek (Akie), and Driftpile (Figure 1). Several other showings, drill tested since the 1970s, include Pie, Fluke, and Elf; all of which exhibit similar SEDEX-style mineralization hosted by Gunsteel Formation shale.

The Cirque deposit, the most significant discovery in the Kechika Trough, was discovered near Paul River in 1977 by the Cyprus Anvil-Hudson's Bay Oil and Gas Ltd. joint venture. The undeveloped deposit is held under joint venture by Teck Resources Ltd and Korea Zinc Company. The most recently published resource estimate available for Cirque is 38.5 million tonnes at 8.0 % zinc, 2.2 % lead, and 47.2 g/t silver (Goodfellow and Lydon 2007).

The Cardiac Creek deposit, part of the Akie claims held by Canada Zinc Metals Corp., has an indicated resource of 12.7 million tonnes at grades of 8.38 % zinc, 1.68 % lead and 13.7 g/t silver, and an inferred resource of 16.3 million tonnes at 7.38 % zinc, 1.34 % lead and 11.6 g/t silver (Sim 2012). The deposit was discovered in 1994 by Metall Mining Corporation (later Inmet Mining Corporation) during a geological mapping and geochemical sampling program on ground optioned from Ecstall Mining Corp. The resource estimate was upgraded in early 2012.

Canada Zinc Metals intersected semi-massive nickel mineralization in drill hole A-10-72, during step-out drilling along the Cardiac Creek deposit in 2010 (N. Johnson *pers. comm*.). This style of polymetallic nickel-sulfide mineralization in sediments is similar to the Nick deposit, located in the Selwyn Basin, Yukon Territory (Hulbert *et. al* 1992). Stratiform nickel, zinc and platinum group element mineralization is hosted by Devonian black shales (Lefebure and Coveney 1995). Similar-style deposits of nickel-molybdenum mineralization are currently being mined from thin, centimetre-scale, high-grade lenses at Tianeshan and Zunyi in China (Hulbert *et. al* 1992).

Driftpile Creek, held by Teck and discovered in 1972 in the central part of the Kechika Trough, has a small but high-grade historical resource of 2.44 million tonnes grading 11.9 % zinc and 3.1 % lead, at 8 % zinc cut-off (not 43-101 compliant) (Nelson *et. al* 1994).

The Kechika Regional claims package held by Canada Zinc Metals encompasses the Cardiac Creek deposit on the Akie claims, and the claims surrounding Teck's Driftpile deposit, in addition to advanced

prospects Pie and Mt Alcock, and the GPS bedded barite showing. The Elf showing, located nearby to the southeast, is held by others.

8.2 Deposit Model

Zinc, lead and silver mineralization discovered on the Mt Alcock property is SEDEX style, deposited within basinal facies rocks of the Gunsteel Formation (MacIntyre, 1995, 1998). Sedimentary exhalative (SEDEX) deposits formed by the precipitation of sulphide and sulphate minerals from metalliferous (zinc, lead and silver-rich) brines exhaled along submarine faults into marine sediments. These hydrothermal fluids were most likely derived from the sedimentary pile during basin subsidence or by seawater convection processes (MacIntyre (2005). Metalliferous fluids were vented on the seafloor and in sub-seafloor vents, then bound in sphalerite and galena to form tabular ore bodies, interbedded with iron sulphides (Goodfellow and Lydon 2007). Bedding-parallel bands of barite nodules and laminated pyrite are common near the deposits, suggesting distal and proximal mineralization respectively (N. Johnson *pers*. *comm*.). Figure 6 shows a schematic diagram of a SEDEX deposit in cross-sectional view, in the context of the Kechika Trough.

Footwall units comprising siltstones, shales, limestones and other sedimentary units are typically rhythmically bedded and variably silicified. The high silica, high carbon and low clastic content of these footwall rocks suggest that they were deposited in a restricted marine basin with low sedimentation rates (MacIntyre 2005).

Host rocks are generally not well exposed on Mt Alcock and the surrounding properties; and baritic 'kill zones' and iron seeps are often the only surface indicators of mineralization. Both barren barite and mixed barite-sulphide deposit types occur in the district. The mineralogy of these deposits is simple, consisting of pyrite with varying proportions of sphalerite and galena, sometimes in a barite host. Copper content is generally very low.

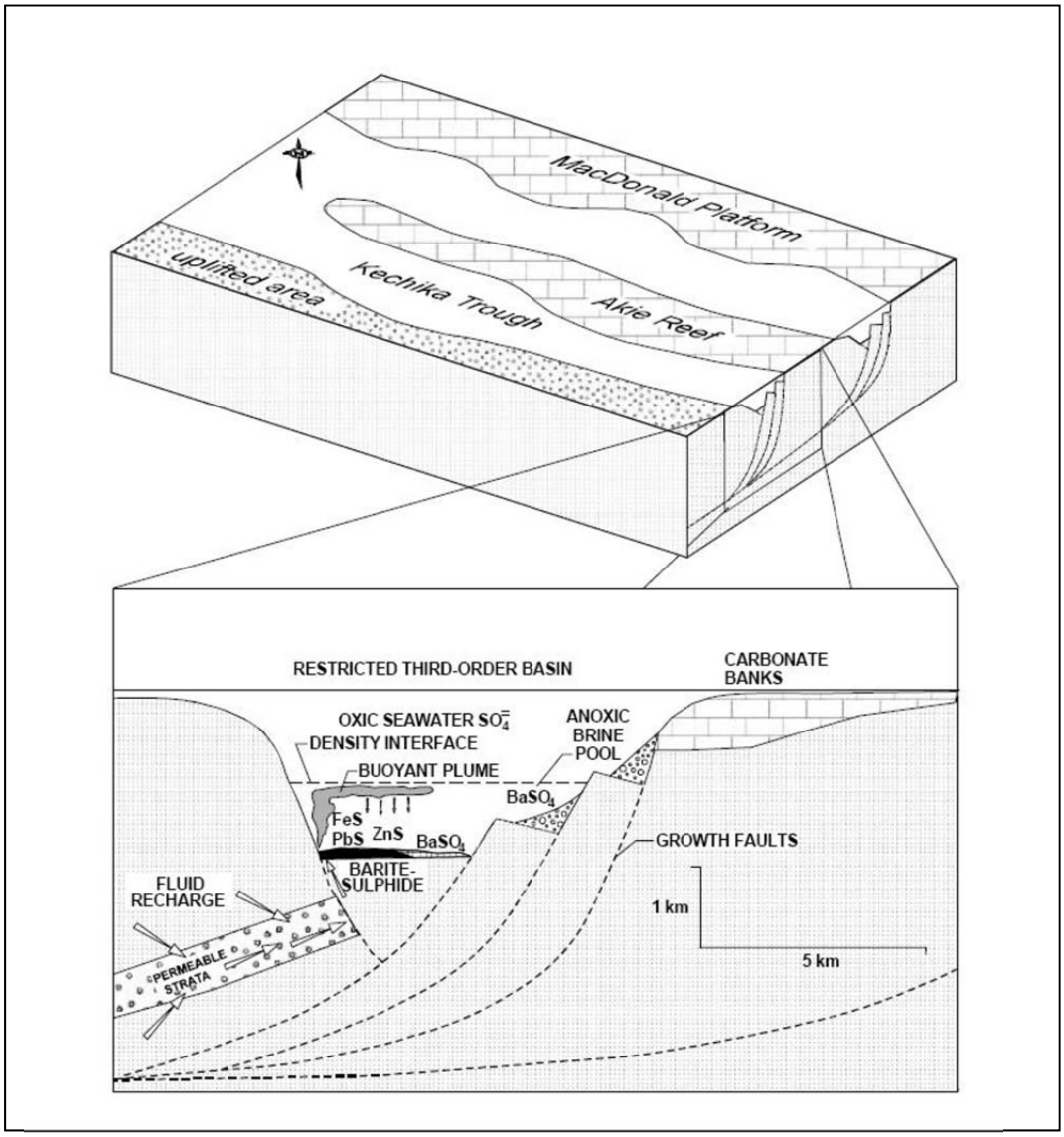


Figure 6: Genetic model for formation of SEDEX deposits in the Kechika Trough (after MacIntyre 1998)

9.0 Exploration

Exploration work on the Mt Alcock property to date includes comprises diamond drilling, geological mapping, surface geochemistry (hand-trenching, rock grabs, soils, silts), and geophysical surveys (IP, gravity). Historical work focused on barite outcrops with sparse galena discovered at the Main barite and Nod showings, and on an iron seep at the Seep showing (Figure 5). The Nod and Seep showings, located on a separate panel of Gunsteel Formation shale north of the Main barite showing, remain undrilled to date. The location of the grid areas is shown on Figure 7.

A total of 291 geochemistry samples were collected on the Mt Alcock property in 2011, including 6 rock samples, 259 soil samples, and 26 silt samples. The 2011 Mt Alcock exploration program focused on:

- Completion of a major soil sampling program, total 259 soil samples over 12.5 line kilometres; comprising extension of the Nod and Seep grids (essentially joining the two grids), in order to evaluation historical open ended zinc-silver +/-lead anomalous soil geochemistry,
- Geological mapping and prospecting were undertaken in conjunction with the soil sampling program, including collection of 6 rock grab samples,
- The historical drill core was re-boxed and re-labelled in order to preserve what remains of the reference material. A perfunctory review of the core was completed at the same time,
- locating and recording the Global Positioning System (GPS) locations of historical drill-holes and trenches,
- Completion of the compilation and digitization of historical data: all outcrops of Gunsteel Formation and footwall Road River Group units mapped to date were compiled, as shown on Figure 5,
- Completion of a program of infill silt sampling, providing coverage over all claim areas with interpreted Gunsteel Formation shale.

Details of surface geochemistry sampling follow below, divided into sections by sample type. Historical and 2011 geochemistry sample locations and assays ranges are shown together on Figures 6-8. The 2011 geochemistry sample details and assays are shown in Appendix 2. A comparison of the highest historical zinc assays with results returned in the 2011 program is shown in Table 3 below, divided into sample type (rock, silt, soil).

A comparison of barium values between the historical and the 2011 geochemistry values has not been attempted here, as historical samples were assayed for barium by ICP only. Barium typically does not go completely into solution during ICP analysis, leading to under-reporting of Ba values, whereas total fusion methods, including the X Ray Fluorescence technique used in 2011, provide a more reliable assay value.

Table 3: Summary of highest Zinc assays - by sample type

Location	Sample Type	2011 Max value Zn ppm	2011 Sample No.	Historic Max value Zn ppm	Historical Sample No.
Mt Alcock	Silts	3002	1195117	12,967	45234
Mt Alcock	Soils	3454	1194893	6,888	47-4350
Mt Alcock	Rocks	1591	1194268	> 10,000	639980
Main barite	Trench Rx	NA	NA	18,700	18661
Main barite	DDH	NA	NA	21.70%	16066

Main barite showing

Historical drill testing of the Main barite showing, on the Main grid, intersected nodular to semi massive barite and laminated pyrite characteristic of SEDEX deposits in several drill holes, with associated mineralization. Drilling intercepts include 8.8 metres @ 9.3 % combined lead-zinc and 41.6 ppm silver in drill hole 89-3 (see Figure 10, Table 11 under section 10.0 Drilling,). Results suggest further potential along strike, and down-dip – albeit with fault offsets. Chip samples across the talus returned up to 3.6 % lead, 1.5 % zinc and 0.5 ounces per ton silver over 6.0 metres. Grab samples of sulphide rich mineralization returned up to 14.8 % combined zinc + lead (Jensen 1993).

A coincident zinc-lead soil anomaly runs parallel to the underlying northwest-southeast trending along the entire length of the Main barite grid; albeit with discontinuities. The greater than 400 ppm zinc and greater than 100 ppm lead anomaly is over 4 kilometres long, and is open at both ends; narrowing to the southeast. Triumph did not assay soil samples on the Main barite grid for silver. Historical soil sampling completed over part of the Nod and Seep grids delineated coincident anomalous zinc-lead soil geochemistry immediately to the south of the nodular barite outcrop at the Nod showing. The anomaly south of Nod is open-ended over a strike length of at least 1.4 kilometres and a width of at least 650 metres, however mapping indicates that the area is complexly folded and faulted, resulting in dispersed base metal anomalism in soils. The Nod soil sampling grid was extended by Mantle Resources/ Canada Zinc Metals in 2008, and includes assay data for silver, and for barium by XRF technique.

Nod showing

At the Nod showing, historical chip sampling across a kill zone over nodular barite outcrop returned no significant lead, zinc or silver values. Whole rock analysis returned up to 29.7% barite in Teck's sample 45206 (Jensen 1993). Two NW-SE elongate zinc soil geochemistry anomalies are offset by interpreted NE-SW faults. The zinc anomaly immediately south of the nodular barite showing has an associated coincident lead anomaly. A pronounced gravity anomaly was defined at the nodular barite showing in 1992; the barite horizon, and any associated sulphide mineralization, is interpreted to be offset and/or terminated by faulting at depth (Jensen 1993).

Seep showing

An iron seep discovered in a deeply incised creek (informally named Bowerheney Creek), has associated high tenor base metal geochemistry in silt, soil, and rock samples. The Seep geochemistry anomaly extends southeast along strike.

9.1 Silt sampling

Silt samples collected from areas draining Gunsteel Formation shale on the property typically returned anomalous zinc values, coincident in some areas with anomalous lead, and/or silver, and or barium, and/or other base metal SEDEX indicators including Mn, Ni, and Cd. The historical silt sample database comprising approximately 200 samples taken over the property was compiled together with the results of the 26 samples taken during the 2011 program (Figure 6a).

In 2011, 25 out of a total of 26 silt samples were collected on the northern panel of the Mt Alcock property. The remaining sample (number 1194281) was taken northwest along strike of the Main barite grid. Sample sites were selected on the basis of infilling poor historical coverage, and to follow up historical soil sample geochemistry anomalism.

Details of the 2011 silt sample program including sample locations and descriptions, and selected assays are shown in Tables 4-5 respectively, in Appendix 2, and on Figures 6a-6d at the end of the report. The best zinc assay returned was 3002 ppm Zn in sample number 1195117, located in the area between the Main barite showing and the 2011 Seep soil grid lines. One silt sample in the 2011 program, sample number 1195105, returned anomalous lead and other base metal values: 416 ppm Pb, 1,969 ppm Zn, 1,118 ppb Ag, and elevated Ba, Mn, and Ni. The sample, located on the southeasternmost soil line on the Seep grid, is coincident with an area of anomalous zinc-in-rocks and zinc-in-soils at least 350 metres wide, and represents the strongest coincident silt geochemistry on the property to date. Prospective subunits of Gunsteel Formation shale were mapped in this area; drill testing is recommended, as discussed in section 26.0 below.

Historical silt sample locations and assay ranges for zinc, lead and silver are shown alongside the 2011 silt samples in Figures 6b-6d respectively. Historical silt samples were assayed only for lead and zinc until 2008; thereafter samples were assayed for silver and SEDEX indicator elements. Anomalous (greater than 1,500 ppm) zinc values-in-silt-samples are widespread across much of the northern half of the property; this is the area draining the extensive surface expression of the Gunsteel shale host panel. Similarly, anomalous zinc-in-silt values coincide reasonably well with drainages of the southern Gunsteel shale host panel including the Main barite showing (Figure 6b). Over one third of the historical silts returned moderately anomalous values of greater than 1,000 ppm zinc.

Significant silt geochemistry results include:

- an unexplained anomalous silt with 2170 ppm Zn (historical sample 1989-84), is located 2.1 kilometres of the Main barite kill zone, in an area with no mapped outcrop,
- The highest zinc result from historical samples was 12,967 ppm Zn, with anomalous Fe, Mn, Co, and Ni values (sample number 45234), collected from a stream with iron seep at the northwestern end of the Seep grid. A greater than 400 ppm zinc soil geochemistry anomaly is

located upstream of the silt sample, with dimensions of 600+ metres wide by at least 1.8 kilometres long (open ended),

- Sample 45234 (above) is located approximately 1.7 kilometres northwest along strike from the strongest coincident zinc-lead-silver-in-silt sample on the property (sample 1195105: 416 ppm Pb, 1,969 ppm Zn, 1,118 ppb Ag, elevated SEDEX indicators),
- Anomalous lead-in-silt values in historical samples are less dispersed than zinc values; coincident lead-zinc anomalism greater than 250 ppm lead is restricted to the silts taken in the Main barite kill zone, and to sample 1195101 taken on the Seep grid in 2011 (described above). Scattered silt samples from within the Nod grid area returned weakly anomalous lead values up to 100 ppm Pb,
- anomalous silver-in-silt values data (Figure 6d), albeit limited to 2008 onwards, shows:
    - widespread moderate silver anomalism downstream of the Seep grid area,
    - high to moderately anomalous silver values northwest (downstream) of the Nod and Main barite grids,
    - a cluster of high to moderately anomalous silver values located 1.6 to 1.9 kilometres southwest of the nodular barite showing (sample 858838: 4,143 ppb Ag), and
    - a high silver-zinc value silt (1195106: 1,240 ppb Ag, 2,518ppm Zn) located on the southeastern limit of the Nod grid.

9.2 Soil sampling

Historically, a total of 1,389 soil samples were collected on the Mt Alcock property between 1989 and 2008. Soil geochemistry programs focused on the Main barite, Nod and Seep grids. The programs delineated two significant areas of zinc geochemistry anomalism on the Mt Alcock property associated with Gunsteel Formation shale:

- the Main barite showing kill zone, and
- the area underlying the Nod and Seep grids.

The Main barite showing zinc-lead anomaly has a continuous strike length of over 1.5 kilometres; part of a 4 kilometre long semi-continuous anomaly. The anomaly is open but narrows to the southeast, with a number of interpreted fault offsets. The Nod-Seep zinc-lead soil geochemistry anomaly has an associated coincident - albeit discontinuous - silver anomaly, where silver data is available.

The historical Nod and Seep soil geochemistry grids were extended in 2011. A total of 259 soil samples were collected over 13 line kilometres. Soil samples were collected at 50 metre intervals along lines spaced 400 metres apart, along two lines at Seep and eight lines at Nod. In addition to the grid extensions, the area between the grids was to be infilled. Due to time constraints, proposed infill soil sample lines proposed for the area northwest along strike of the Seep grid were not completed in 2011; leaving a 900 metre gap in coverage between the Seep and Nod grid soil geochemistry lines. The combined Nod-Seep soils grid area currently extends over 6.0 kilometres of strike length over prospective Gunsteel Formation units; covering the majority of the exposed portion of this panel. The Main barite grid, with a zinc-lead soil geochemistry anomaly which remains open along strike, was not extended in 2011, as work was focused on the review and preservation of the historical drill core.

Sample locations and descriptions, and selected assays are shown in Tables 6-7 in Appendix 2. Historical soil sample data was compiled digitally together with the 2011 data, in order to generate new exploration targets. An index map, divided into three grid areas, is shown on Figure 7. Sample details including locations, sample number and assay values samples on the Nod, Seep and Main grids respectively are shown on Figures 7a-7c. Soil sample assay ranges for zinc, lead and silver are shown on Figures 7d-7f.

Contouring of the 2011 results outlined two parallel, semi-continuous zinc-silver+/-lead anomalies, greater than 400 ppm zinc. The anomalies are located along the 6.0 kilometres strike length of mapped Gunsteel Formation shale panel covered by the Nod and Seep grid extents (Figure 7d). The highest zinc soil assay returned in this area was 3,454 ppm Zn from sample number 1194893. The 400 ppm zinc anomaly envelopes range in width from tens of metres up to 800 metres in the northeastern grid area (Figure 7d). Both anomalies remain open along strike at both ends of the grid. Northeast-southwest offsets in the interpreted 400 ppm anomaly envelope suggest the existence of several strike-slip faults (Figure 5). A number of discrete discontinuous lead anomalies, greater than 100 ppm, were defined on the southwestern Nod and on the Seep grids. Lead anomalism, where present, is coincident with the more widespread zinc anomalism (Figure 7e). A lead-zinc anomaly, located immediately south of the nodular barite occurrence, has strong continuity over 1 kilometre in strike length. Silver assay data is limited and should be treated with caution for interpretation; the available silver assays (post-2008) delineated narrow discontinuous zones with anomalous values greater than 2,000 ppb on the Nod and Seep grids, including open-ended anomalism along strike on both grids.

9.3 Rock sampling

Rock sampling undertaken concurrently with prospecting and mapping during the 2011 exploration program focused on the Nod and Seep grid areas. A summary of historical rock sampling on the Main barite showing is included below.

Rock and trench sample details for the entire claims area, including locations, sample number and assay values, are shown on Figure 8a. The locations of samples taken in 2011 are highlighted in red. Rock sample assay ranges for zinc, lead and silver are shown on Figures 8b-8d respectively, with larger location markers for samples taken in 2011. Historical trench sample assay ranges for zinc, lead and silver are shown on Figures 8b-8d respectively.

Main barite showing:

Cyprus Anvil Mining Company discovered the Mt Alcock Main barite showing in 1977, and reportedly collected a grab sample with 14.8 % combined lead-zinc and 0.6 ounces per ton silver, taken from a 2-3 metre thick mineralized zone within the barite kill zone (Jensen 1993).

Triumph hand-dug and sampled eleven shallow trenches over the Main barite showing kill zone (Plates 2 to 4 below). A total of 32 samples collected across 46 metres were assayed for lead, zinc and silver. Results were not published, however hand-drawn maps show anomalous base metal intercepts in all trenches (Figure 8a). The highest intercept was returned by a sample in Trench G, located in the southeastern part of the kill zone: 1.87 % Zn and 3.5 % Pb. The adjacent interval returned the highest

lead value 6.25 % Pb (combined 7.36 % Pb+Zn). Trench E, located up-dip of drill hole 89-8, at the northwestern end of the barite kill zone, returned the highest trench sample silver value: 35.2 ppm Ag.

Nod and Seep showings:

Rock sampling of the barite at the nodular barite showing discovery by Teck in 1992 returned sub-economic zinc-lead values, coincident with weakly anomalous zinc- lead soil geochemistry anomalism, and with associated SEDEX indicator elements cadmium, manganese, and vanadium (Jensen 1993). Teck collected a total of 56 rock samples over the property on the Nod and Seep claims, including 1 metre wide chip samples across several lines over the nodular barite outcrops at Nod.

Mantle Resources and Canada Zinc Metals collected a total of 20 rock grab samples in 2008, predominantly in the area southeast of the Nod kill zone. Sample number 639980, collected on the northern edge of the Main barite kill zone apron returned 1 % zinc, with elevated manganese and thallium levels.

Follow up rock sampling in 2011 on the Nod and Seep grids comprised a total of 6 rock samples; the locations and assay results are shown together with historical rock sample details on Figure 8a. Five of the samples taken in 2011 were collected within a 170 square metre area at the south east end of the Seep grid; in an area of 'rusty' siliceous, graphitic Gunsteel Formation shale outcrop, with millimetre-scale pyrite seams. The westernmost sample in this group returned the best result: 1,591 ppm zinc, 299 ppm lead, and 3,315 ppb silver in sample number 1194268. This sample is located 75 metres south of a historical sample anomalous in zinc and lead (sample 45275: 2,028 ppm Zn, 1,787 ppm Pb). The rusty zone of interest, coincident with anomalous zinc soil geochemistry at the southeasternmost line of the Seep grid, warrants drill testing. One sample taken 400 metres north of the Nod barite showing returned very weakly anomalous silver (sample 1194346: 152 ppb Ag).

Plate 2: Field helper Anthony Moore at Trench A, Main barite showing

Plate 3: view of barite 'kill zone' at the Main barite showing, looking north

Plate 4: view of barite 'kill zone' at the Main barite showing, looking east

9.4 Geophysics

Conventional induced polarization (IP), electromagnetic (EM), and radiometric methods have proven to be largely ineffective for exploration for SEDEX deposits in the Kechika Trough to date, largely due to a lack of contrast between the conductive base metal mineralization targets with a similarly highly conductive carbonaceous shale host (eg. McConnell 1991).

Induced polarization (IP) and gravity geophysical ground surveys were completed on the Mt Alcock property between 1989 and 1992 (Murrell and Roberts 1990, Jensen 1993).

Triumph completed a 7 kilometre IP survey on 9 lines over the Main barite showing in 1989 (Murrell and Roberts 1990). The results appeared to successfully outline the area of mineralization around the area of the barite kill zone, as well as identifying a number of additional chargeability and conductor targets (Figure 9). However, follow up drilling in 1990, down dip and along strike, failed to return any significant results. A combination of fault offsets, and the high conductivity of both the target and the host, suggests limited scope in using this technique for drill targeting on the Main showing.

Teck completed a three line gravity survey over part of the Nod grid in 1992 (Jensen 1993). Two of the lines returned weak gravity anomalies attributed to density contrasts between siliceous and non-siliceous black shales. On the third line, a 0.2 milligal anomaly centred on the edge of the Nod barite outcrop has a density contrast over an area 25 x 100 x 100 metres; suggesting potential for a larger down dip extension of the surface occurrence. Geological mapping interprets the mineralized zone is offset down dip by faulting. Drill testing proposed by Teck was never completed.

Recent advances in the collection and processing of airborne EM survey data suggests a new EM survey may be a suitable exploration tool on the Mt Alcock property. The 'ZTEM' (Z-axis Tipper electromagnetic) and 'VTEM' (Vertical time domain electromagnetic) methods have been used successfully for mapping conductive SEDEX mineralization elsewhere in Canada (Legault *et al.* 2009), to depths of over one kilometre (Holtham and Oldenburg 2010). Canada Zinc Metals recently reviewed historical airborne DIGHEM survey data flown in 1991 over their Pie claims to the southeast, in order to assess the feasibility of using ZTEM and/or VTEM survey methods for targeting SEDEX base metal mineralization in Gunsteel Formation shale.

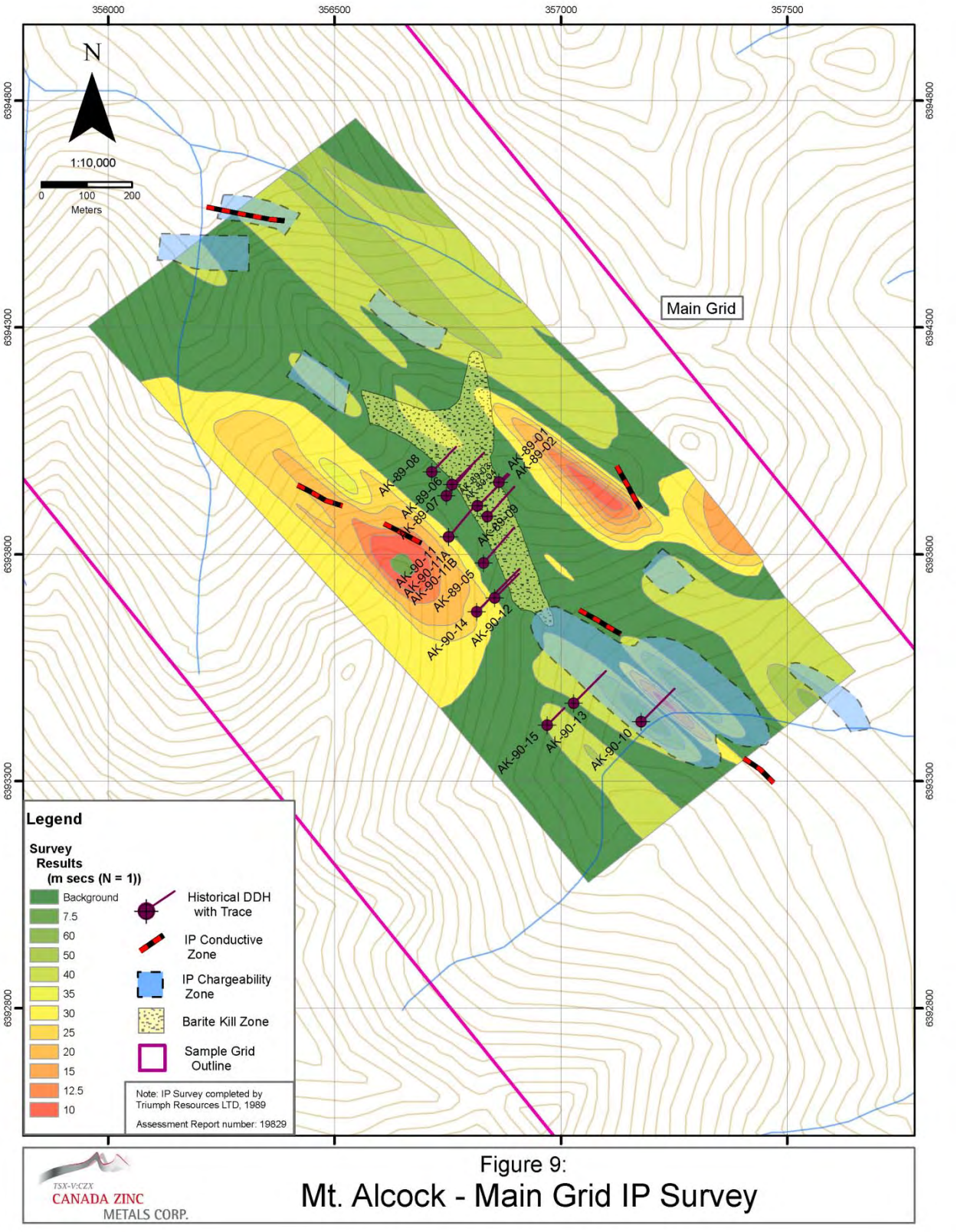


Figure 9: Main Grid IP Survey

10.0 Drilling

No drilling was undertaken on the Mt Alcock property in 2011.

Historical drilling on the Mt Alcock property totals 17 diamond drill holes for 2264.1 metres. Drilling tested the Main barite showing during the period between 1989 and 1990, as follows:

- Nine diamond holes for 1,111.6 metres, drilled in 1989 by Triumph Resources (funded by Teck) on 5 sections,
- Eight diamond drill hole for 1,152.5 metres, drilled by Triumph Resources (funded by Teck).

The 1989 drill program was successful in tracing the Mt. Alcock barite-zinc-lead horizon over a strike length of 230 meters and to a vertical depth of 130 meters, returning significant zinc-lead-silver mineralized intersections similar to certain sections at the Cardiac Creek deposit. A follow up drill program in 1990 was unsuccessful in matching the results of the previous program.

Drilling intersected significant widths of high tenor zinc-lead grades associated with barite. Mineralized zones intersected were variable in grade, and offset by faults down-dip. The best intercept in historical drilling at Mt Alcock was reported from drill hole 89-3 with 9.30 % combined zinc-lead and 1.20 ounces per ton silver over 8.8 metres, in massive sulphide mineralization overlying the barite facies. True width is approximately 8 metres. Drill hole 83-6 intersected barite-hosted mineralization that returned 4.72 % combined zinc-lead and 0.79 ounces per ton silver over 7.3 metres. Drill hole 83-9 tested 120 metres down-dip of surface and intersected 6.8% zinc-lead and 0.70 ounces per ton silver over 10.5 metres (Figure 10). Mineralization comprises barite facies with laminae of galena and sphalerite.

Drill hole collar locations and traces are shown on Figure 5 and the collar details are summarized below in Table 10. Significant intercepts greater than 1% zinc+ lead are shown in Table 11. Details of the drilling program are discussed below. Stacked core reference material is shown in Plate 5 below.

Plate 5: Mt Alcock historical core; re-boxed and labelled

Table 10: Summary of Historical Mt Alcock Drilling – Collar Details

HOLE ID	UTM E (m)	UTM N (m)	ELEVATION (M)	LENGTH (M)	AZIMUTH (True)	DIP	SECTION	LOGGED BY	CONTRACTOR	DATE STARTED	DATE COMPLETED	CORE SIZE	CASING	CAPPED	TYPE	REFERENCE
AK-89-01	356863	6393959	1647	27.4	45	-45	99+60N	MM	J.T. Thomas	17-Sep-89	18-Sep-89	BDBGM	N	N	Abandoned	AR 19829A
AK-89-02	356863	6393959	1647	42.7	45	-45	99+60N	MM	J.T. Thomas	19-Sep-89	20-Sep-89	BDBGM	N	N	Abandoned	AR 19829A
AK-89-03	356816	6393907	1624	138.7	45	-45	99+60N	MM	J.T. Thomas	21-Sep-89	22-Sep-89	BQ	N	N	Exploration	AR 19829A
AK-89-04	356816	6393907	1624	198.7	45	-78	99+60N	MM	J.T. Thomas	22-Sep-89	25-Sep-89	BQ	N	N	Exploration	AR 19829A
AK-89-05	356829	6393781	1602	146.3	41	-45	98+65N	MM	J.T. Thomas	25-Sep-89	27-Sep-89	BQ BDBGM	N	N	Exploration	AR 19829A
AK-89-06	356760	6393954	1626	140.2	45	-45	100+26N	MM	J.T. Thomas	29-Sep-89	01-Oct-89	BDBGM	N	N	Exploration	AR 19829A
AK-89-07	356747	6393929	1631	185.9	40	-62	100+26N	MM	J.T. Thomas	01-Oct-89	04-Oct-89	BDBGM	N	N	Exploration	AR 19829A
AK-89-08	356715	6393982	1603	108.2	47	-45	100+82N	MM	J.T. Thomas	04-Oct-89	06-Oct-89	BDBGM	N	N	Exploration	AR 19829A
AK-89-09	356838	6393884	1619	123.5	45	-45	99+30N	MM	J.T. Thomas	06-Oct-89	08-Oct-89	BDBGM	N	N	Exploration	AR 19829A
AK-90-10	357177	6393431	1430	147.2	45	-45	94+00N	MM?	unknown	1990	1990	NQ	unknown	unknown	Exploration	X-section
AK-90-11	356752	6393839	1640	293.2	40	-70	99+60N	MM?	unknown	1990	1990	NQ	unknown	unknown	Exploration	X-section
AK-90-11A	356752	6393839	1640	41.8	40	-87	99+60N	MM?	unknown	1990	1990	NQ	unknown	unknown	Abandoned	X-section
AK-90-11B	356752	6393839	1640	38.7	40	-75	99+60N	MM?	unknown	1990	1990	NQ	unknown	unknown	Abandoned	X-section
AK-90-12	356854	6393704	1590	150.9	45	-55	98+00N	MM?	unknown	1990	1990	NQ	unknown	unknown	Exploration	X-section
AK-90-13	357028	6393472	1496	142	45	-45	96+00N	MM?	unknown	1990	1990	NQ	unknown	unknown	Exploration	X-section
AK-90-14	356814	6393674	1609	232.9	45	-60	98+00N	MM?	unknown	1990	1990	NQ	unknown	unknown	Exploration	X-section
AK-90-15	356970	6393424	1520	105.8	45	-60	96+00N	MM?	unknown	1990	1990	NQ	unknown	unknown	Exploration	X-section
		Total:	**17 DDH**	**2264.1**	**metres**											

The locations of the drill holes completed by Triumph Resources in 1990 remain unverified on the ground, with the exception of drill hole 90-11. Triumph reported the first phase of its two year drilling program at the Main barite showing (Murrell and Roberts 1990). Data regarding the location, assay and geology data for the 1990 drill program rely on unpublished and unverified drilling cross-sections. The verified collar location for the 90-11 drill collar matches the location shown on the cross-section. The remaining 1990 drill collars were rehabilitated; no signs of drilling remain.

Triumph drilled a total of 17 diamond drill holes for 2264.1 metres, comprising 9 BQ for 1111.6 metres drilled in 1989, and a further 8 NQ holes for 1152.5 metres drilled in 1990. The 1989 drill program, comprising drill holes 89-1 to 89-9, tested under mineralization in grab samples and hand-dug trench samples (see Section 9.3). The 1990 follow-up drill program tested for extensions down-dip and along strike from the 1989 mineralized drill intercepts, and additionally tested IP chargeability anomalies around the barite kill zone (Figure 9).

The 1989 drilling program intersected high grade zinc-lead-silver mineralization under the barite kill zone, hosted by Devonian Gunsteel shale. Drill holes 89-3, 89-6, and 89-9 returned 7-10 metre wide mineralized intercepts. The best intercept was returned from drill hole 89-3, with 8.8 metres (approximately 8 metres true thickness) at 9.26 % combined lead-zinc and 41.6 ppm silver, including 1.3 metres at 21.7 % zinc, 6.98 % lead from 71.6 metres in 89-3 (Figure 10, Table 11). Drill holes 89-4 and 90-11 tested down dip of this intercept, and failed to intersect the same zone; interpreted to be offset by faulting. Drill hole 89-1 was abandoned. 89-2 was abandoned in mineralization.

The 1990 program returned generally negative results (Jensen 1993). Drill holes 90-10, 90-13 and 90-15 tested an IP chargeability anomaly with associated conductors, intersecting weak zinc-lead mineralization up to 0.69 % zinc from a 9 metre composite sample in 90-15, up to 40 % pyrite in 90-13 (not sampled), and no significant results in 90-10. Drill holes 90-12 and 90-14 tested the southeastern end of the barite kill zone. Drill hole 90-12 intersected anomalous zinc values between 33 to 60 metres down-hole depth including a best result of 0.69 % zinc from 55 metres, in a 5 metre composite sample. Results for 90-14, drilled down-dip of 90-12, were lower in tenor. Drill hole 90-11 intersected lower tenor mineralization down dip of the zone intersected in drill holes 89-2 and 89-3; interpreted as offset by faulting. 90-11A and 90-11B were abandoned.

Canada Zinc Metals' Exploration Manager Nick Johnson incorporated the drilling data from the 1990 cross-sections into a 3D modelling program, and provided a preliminary re-interpretation of the mineralization outline, shown on Plate 6, below.

Table 11: Significant intercepts in historical drilling

HOLE ID	FROM	TO	LENGTH	Pb %	Zn %	Ag ppm	Pb+Zn%
AK-89-01	abandoned						
AK-89-02	16.5	18	1.5	2.27	0.01	0	2.28
	26	27	1	4.7	0.02	0	4.72
	39.5	40.5	1	2.38	0.01	0	2.39
	40.5	41.5	1	1.81	0.01	0	1.82
	41.5	42.7	1.2	0.49	0.02	0	0.51
AK-89-03	54.3	55.3	1	0.09	0.92	0	1.01
	55.3	56.3	1	0.04	0.89	0	0.93
	56.3	57.3	1	0.06	0.94	0	1
AK-89-03	71.6	72.9	1.3	6.98	21.7	0	28.68
	72.9	74.2	1.3	3.62	3.1	0	6.72
	74.2	75.2	1	2.44	2.67	0	5.11
	75.2	76.2	1	2.67	1.88	0	4.55
	76.2	77.2	1	3.1	2.12	0	5.22
	77.2	78.2	1	3.53	3	0	6.53
	78.2	79.2	1	3.62	3.08	0	6.7
	79.2	80.4	1.2	3.91	2.22	0	6.13
AK-89-04	76	78	2	0.0925	0.925	0	1.0175
AK-89-05	no significant results						
AK-89-06	61.1	62.1	1	3.73	2.6	0	6.33
AK-89-06	62.1	63.1	1	3.71	1.97	0	5.68
AK-89-06	63.1	64.1	1	4.35	1.45	0	5.8
AK-89-06	64.1	65.1	1	2.84	1.29	0	4.13
AK-89-06	65.1	66.1	1	3.32	1.76	0	5.08
AK-89-06	66.1	67.1	1	2.47	0.42	0	2.89
AK-89-06	67.1	68.4	1.3	1.99	1.5	0	3.49
AK-89-07	85	87	2	0.0435	1.35	0	1.3935
AK-89-07	87	87.4	0.4	0.033	0.657	0	0.69
AK-89-07	87.4	88.4	1	0.0643	0.497	1.2	0.5613
AK-89-07	88.4	88.6	0.2	0.0667	0.472	2	0.5387
AK-89-07	88.6	90.6	2	0.09	1.18	0	1.27
AK-89-07	90.6	92.6	2	0.02	0.89	0	0.91
AK-89-08	no significant results						
AK-89-09	76.2	77.2	1	3.23	4.22	0	7.45
AK-89-09	77.2	78.2	1	2.92	3.46	0	6.38
AK-89-09	78.2	79.2	1	3.75	3.61	0	7.36
AK-89-09	79.2	80.2	1	3.51	3	0	6.51
AK-89-09	80.2	81.2	1	3.4	3.49	0	6.89
AK-89-09	81.2	82.2	1	2.89	3.68	0	6.57
AK-89-09	82.2	83.2	1	2.71	3.8	0	6.51
AK-89-09	83.2	84.2	1	3.56	3.1	0	6.66
AK-89-09	84.2	85.2	1	2.7	4.92	0	7.62
AK-89-09	85.2	86.2	1	3.28	3.88	0	7.16
AK-89-09	86.2	86.7	0.5	2.97	3.78	0	6.75
AK-90-10	no significant results						
AK-90-11	no significant results						
AK-90-12	no significant results						
AK-90-13	no significant results						
AK-90-14	no significant results						
AK-90-15	no significant results						

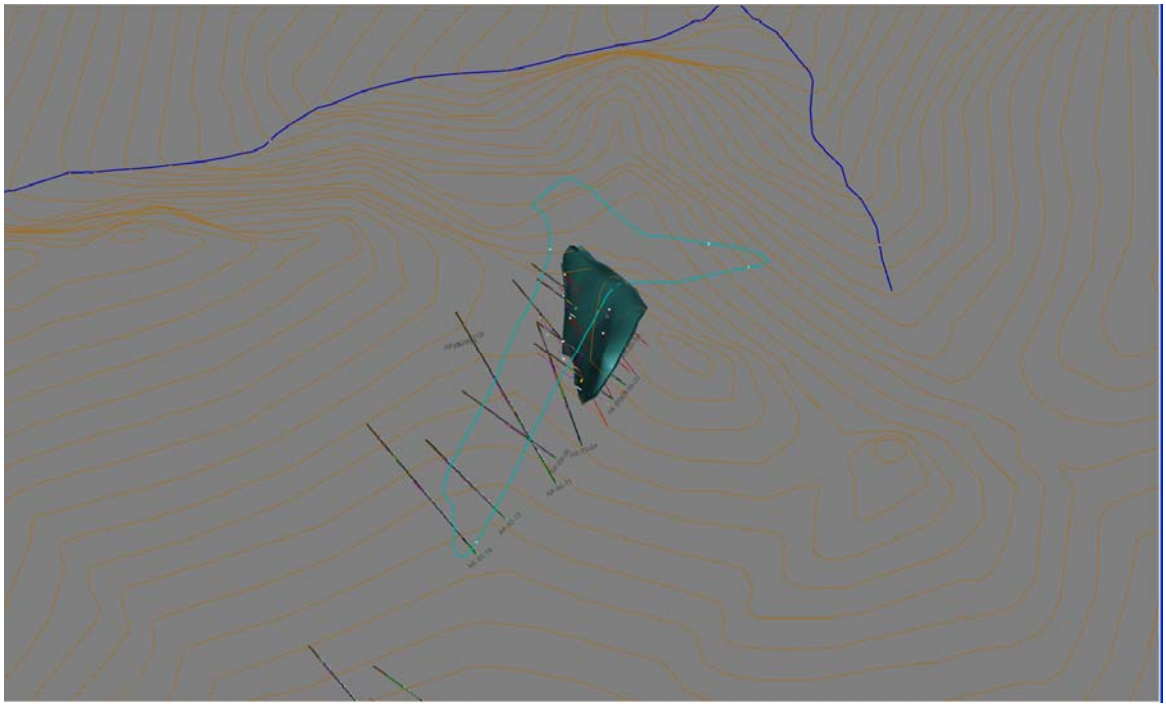


Plate 6: Main barite showing (turquoise), drill holes, and interpreted mineralization (teal), looking west

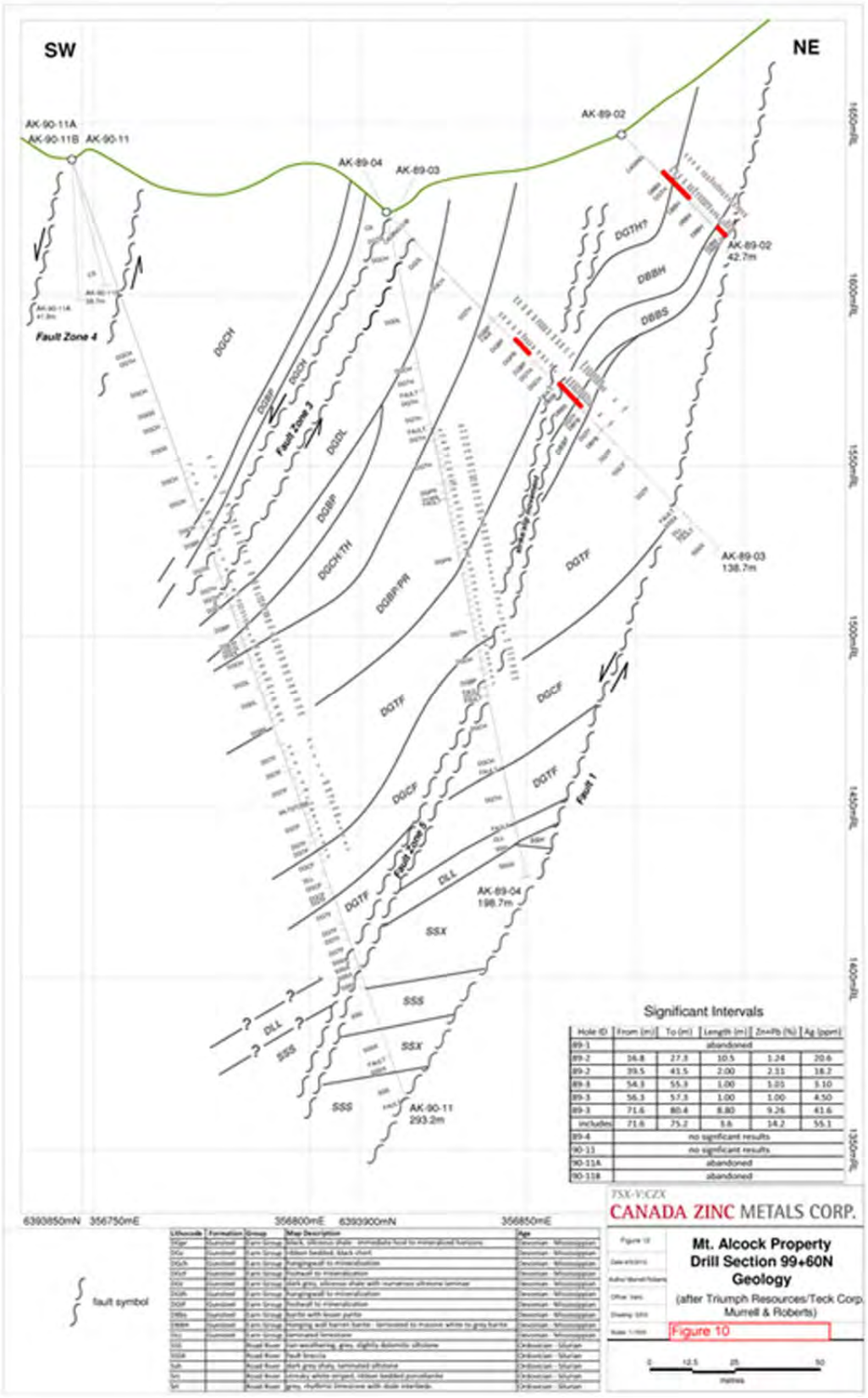


Figure 10: Drill Section 9960N

11.0 Sample Preparation, Analysis and Security

11.1 2011 Surface Samples– Silts, Soils, Rocks, Stream water

11.1.1 2011 Silt samples

Sites for silt sampling were selected to follow up of historical stream geochemistry anomalism, and in some areas to test areas of geological interest with poor geochemistry coverage.

Silt samples were marked in the field with a fluorescent flag tied nearby. Each sample was GPS located, described, and placed into a marked cloth bag together with a numbered paper tag inside the bag. Bags were then tied off and wrapped in plastic, for transportation to camp. Once in camp, silt sample bags were hung to dry.

11.1.2 2011 Soil samples

Regularly spaced soil samples were taken across features of interest at 50 metre intervals along lines spaced 400 metres apart. A 500 gram sample was taken from the B soil horizon after removal of humus and other overburden, and placed into a paper Kraft bag.

Soil samples were marked in the field with a fluorescent flag tied nearby. Each sample was GPS-located, described, and placed into the marked Kraft bag. Bags were then sealed and wrapped in plastic, for transportation to camp. Once in camp, soil sample bags were hung to dry.

11.1.3 2011 Rock samples

Two types of rock samples were collected in 2011; grabs and chips. Grabs were collected as single point or composite samples at points of interest. Chip samples were collected across the strike of any prospective zone of substantial width (usually greater than 1.0 metre).

Rock samples were marked in the field with a metal tag engraved with the sample number, as well as a numbered fluorescent flag tied nearby. Each rock sample was GPS located, described and photographed. Chip sample lengths were measured and recorded. Samples were placed in marked (numbered) plastic bags together with the corresponding number paper tag inside each bag, and then sealed with a zip tie, before transportation to camp.

Once dry, geochemistry sample bags (rocks, soils, silts) were laid out in order and placed into numbered rice bags. After drying, soil and silt samples were placed into clean plastic bags and sealed, to prevent damage to the Kraft bags and/or contamination during transport to the lab. The plastic bags containing rock, soil or silt samples were then placed into large rice bags. Contact details for the laboratory and expeditor, the sequence of sample numbers, and the rice bag number were recorded on the outside of each rice bag, together with the label “From: Canada Zinc Metals”. The rice bags were each sealed with a plastic zip tie or “zap strap”. The contents and weight of each rice bag were recorded on a digital laboratory submittal form together with instructions for sample preparation and analysis technique(s). A copy of the lab submittal form was placed in the first rice bag in the sequence. Details of the contents of each rice bag were also recorded on a separate spreadsheet for in-house tracking purposes. Sample shipments were backhauled out of Akie camp via Gautier Ventures Inc. transport trucks to the project’s

expeditor Vicki Podgorenko of VEP Communications in Mackenzie. Prior to departure from camp the delivery truck driver signed off each shipment. Upon arrival in Mackenzie the expeditor signed off receipt of the samples, reconciled dispatched with received samples, placed the samples on wooden pallets, and shrink-wrapped each pallet. Samples were held under the supervision of Vickie Podgorenko in Mackenzie until shipped via truck to ACME laboratory in Vancouver using transport contractor Van-Kam until July 2011 and by Canadian Freightways after this date. Canada Zinc Metals' site personnel tracked each shipment via a tracking number, and were notified by ACME upon delivery.

2011 surface geochemistry samples were analyzed by Acme Analytical Laboratories Ltd. in Vancouver, BC. Acme is an independent, ISO 9001 registered assay laboratory. Prior to assay analysis:

- rock samples were crushed and a 250 gram split was pulverized to 200 mesh size,
- soil samples were dried, and 100 grams sieved through -80 mesh for assay, and
- silt samples were dried, and 100 grams sieved through -80 mesh for assay.

A suite of 53 elements was determined for each surface sample by aqua regia digestion with inductively coupled plasma by mass spectrometry (ICP-MS) finish. Barium was determined from a 0.2 gram subsample, analyzed by ICP emission spectrometry (ICP-ES) following a lithium metaborate/tetraborate fusion and digestion with dilute nitric acid. Over-limit base metal values (>10,000 ppm) were re-assayed. External quality control samples were not inserted in surface sample batches. Acme routinely performs in-house checks on each sample batch as well round robin checks.

11.2 Drill (core) samples

No drilling was completed on the Mt Alcock property in 2011. One batch of laboratory pulps from core samples collected by Canada Zinc Metals in 2008 was re-assayed for over-limit base metal and barite values, by ACME Laboratory in Vancouver, BC.

11.2.1 Triumph Resources Ltd 1989, 1990 drilling

In 1989, Triumph drilled 9 holes for 1,111.6 metres at the Main barite showing: 89-1 to 89-9. Drill holes 89-1 and 89-2 were both abandoned prior to reaching target depth. Intervals were selected for sampling on the basis of notable sulphide and/or barite content, and cut by manual splitter at the Triumph camp on the Kwadacha River. At least 400 core samples from the Main barite showing. All assaying was undertaken by Minen Laboratories in North Vancouver, BC. Descriptions of any quality controls, or of any security measures taken, were not reported by Murrell and Roberts (1989).

Core drilled in 1989 was generally sampled in 1.0 metre intervals, or less (minimum 0.1 metres), cut to geological boundaries. According to drill logs, in places where drilling failed to intersect barite anticipated from geological interpretation, two metre intervals were assayed. Thirty one out of 281 intervals assayed were 2.1 to 5.0 metres wide.

Core samples were fire assayed for zinc and lead, in %. Parts of the immediate hangingwall and footwall assemblages were reportedly split and "analyzed by rock geochemical methods for both lead and zinc [in ppm] in order to aid in developing a geochemical signature" (Murrell and Roberts 1990). Drill logs also

record silver values for selected intervals, variably reported in units of ounces per ton, and in parts per million.

In 1990, Triumph drilled a further 8 holes for 1152.5 metres, including 2 abandoned holes, at the Main barite showing. No report was published for the 1990 drilling; however it is likely that the same sampling and assay methods were used as in 1989. A series of unpublished, hand-drawn cross sections show the 1990 drilling, including a total of 119 assayed sample intervals. Sample intervals are predominantly 1.0-3.0 metres wide, with minimum 0.5 metre sample width. Ten samples have a width greater than 5 metres; the widest is a composite interval of 18.5 metres in drill hole 90-14.

The remaining historical core was subsequently resampled by Triumph and/or Teck, and by Mantle Resources/ Canada Zinc Metals; leaving scant remaining reference material. Examination of the core by the author suggests that the 1990 core sampling, and the later resampling, was extremely poorly executed.

12.0 Data Verification

Acme Laboratories have a strict quality control program; analytical blanks, duplicates and standard reference materials are inserted in the sequences of samples provide a measure of background noise, accuracy and precision. QA/QC protocol incorporates a sample-preparation blank of granite or quartz carried through all stages of preparation and analysis as the first sample in the job. Typically an analytical batch will be comprised of 34-36 samples, a pulp duplicate to monitor analytical precision, a -10 mesh reject duplicate to monitor sub-sampling variation (rock and drill core), a reagent blank to measure background and an aliquot of Certified Reference Material (CRM) or In-house Reference Material to monitor accuracy. In the absence of suitable CRMs In-house Reference Materials are prepared and certified against internationally certified reference materials such as CANMET and USGS standards where possible and will be externally verified at a minimum of 3 other commercial laboratories. Using these inserted quality control samples each analytical batch and complete job is rigorously reviewed and validated prior to release. On-line tracking of sample batches was available to Canada Zinc Metals' site personnel; aiding tracking of the arrival and progress of samples through preparation and assay processes. Assay results, including QA-QC analyses, were emailed in spreadsheet form.

The locations of historical drill holes and trenches were successfully verified by the author as follows: drill holes 89-1 to 89-4, 89-6, 89-8, 90-11 (Plate 7). Historical drill holes 89-5, 89-7 and 89-9 were verified by other workers with Canada Zinc Metals, in 2008 (Dadson 2009). The GPS readings verify Triumph's reported coordinates. For example, the 2011 collar reading taken for drill hole 89-8 GPS was 356719E 6393985N, show good correlation with Triumph's reported coordinates 356715E 6393982N (Plate 7). Drill sites from the 1990 program were rehabilitated, and not able to be verified.

Plate 7: Drill collar 89-8 at the Main barite showing

The author located Trenches A, A1, B, G, D, E (and/or E1); GPS readings suggest Triumph's trench location plans have an error in the order of 20 metres, and should be used with caution. Trenches C, F, F1, F2 were not located due to time constraints. The hand-dug trenches are difficult to identify, as discussed in section 9.3 and shown on Plate 2.

All 2011 assay results for the Mt Alcock property were checked by the author before and after loading into the database. Historical data was plotted for comparison with 2011 results. The available historical core was reviewed by geologist Arlando Arenas in 2008 (Dadson 2008), including re-assaying of selected core intervals. The historical core was reviewed again by the author and by geologist Tobias Schoettler in 2011, and found to be in poor condition. All remaining core was re-boxed, labelled and stacked, and a number of the core boxes were photographed. Attempts in 2008 and in 2011 to find the location of historical collars resulted in verification of all 1989 drill hole locations, as well as GPS location of a number of hand-dug trenches on the Main showing. Only the first drill hole collar location from the year 1990 was verified (90-1); the remaining 1990 drill sites were rehabilitated by Triumph Resources.

Examination of selected drill core from the 1989 program shows reasonable correlation between concentration of visible sulphides and/or barite in the reference core, and published assay results. An attempt by the author to reconcile high grade intervals resampled in 2008, with the original sample assays, returned mixed results. Arlando Arenas resampled portions of drill holes 89-3 and 89-6 in 2008;

the intervals sampled by Arenas do not match Triumph's sample intervals, and many resamples returned over-limit assay values. Re-assaying of these pulps in 2011 to determine the over-limit values (Table 12 below) suggest a good reproducibility for 89-3 drill hole assay intervals. However, the 2008 samples are significantly higher than the original. It is possible (but cannot be verified) that a 10 metre error in the down-hole depths recorded for Arenas' 2008 sample intervals explain this error.

Table 12: Comparison of Core Sample Re-assays

Triumph assays 1989:								**2011 Pulp re-assays of 2008 core resampling:**							
Hole ID	From	To	Length	Pb %	Zn %	Pb+Zn%	Ag ppm	Hole ID	From	To	Length	Pb %	Zn %	Pb+Zn%	Ag ppm
AK89-3	71.6	72.9	1.3	6.98	21.7	28.7									
AK89-3	72.9	74.2	1.3	3.62	3.10	6.72									
AK89-3	74.2	75.2	1.0	2.44	2.67	5.11									
AK89-3	75.2	76.2	1.0	2.67	1.88	4.55									
AK89-3	76.2	77.2	1.0	**3.10**	**2.12**	**5.22**		AK89-3	76.00	77.00	1.00	**3.00**	**1.72**	**4.72**	30.0
AK89-3	77.2	78.2	1.0	**3.53**	**3.00**	**6.53**		AK89-3	77.00	78.00	1.00	**3.57**	**3.57**	**7.14**	36.0
AK89-3	78.2	79.2	1.0	**3.62**	**3.08**	**6.70**		AK89-3	78.00	79.00	1.00	**2.88**	**3.58**	**6.46**	31.0
AK89-3	79.2	80.4	1.2	**3.91**	**2.22**	**6.13**		AK89-3	79.00	80.00	1.00	**3.41**	**2.23**	**5.64**	28.0
AK89-6	60.0	61.1	1.1	**0.26**	**0.41**	**0.67**	1.87	AK89-6	60.50	61.50	1.00	**2.48**	**2.06**	**4.54**	21.0
AK89-6	61.1	62.1	1.0	3.73	2.60	6.33	25.82								
AK89-6	62.1	63.1	1.0	3.71	1.97	5.68	28.93								
AK89-6	63.1	64.1	1.0	4.35	1.45	5.8	25.50								
AK89-6	64.1	65.1	1.0	2.84	1.29	4.13	25.19								
AK89-6	65.1	66.1	1.0	3.32	1.76	5.08	19.28								
AK89-6	66.1	67.1	1.0	2.47	0.42	2.89	32.66								
AK89-6	67.1	68.4	1.3	1.99	1.50	3.49	16.17								
AK89-6	68.4	69.6	1.2	0.03	0.20	0.23	1.87								
AK89-6	69.6	70.6	1.0	0.02	0.18	0.2	1.24								
AK89-6	70.6	71.6	1.0	**0.02**	**0.19**	**0.21**	1.56	AK89-6	71.00	72.00	1.00	**3.97**	**2.14**	**6.11**	31.0
AK89-6	71.6	72.6	1.0	**0.02**	**0.20**	**0.22**	1.24	AK89-6	72.00	73.00	1.00	**2.98**	**2.07**	**5.05**	29.0
AK89-6	72.6	73.6	1.0	**0.02**	**0.11**	**0.13**	1.56	AK89-6	73.00	74.00	1.00	**4.75**	**1.17**	**5.92**	25.0
AK89-6	73.6	74.9	1.3	**0.01**	**0.03**	**0.04**	0.93	AK89-6	74.00	75.00	1.00	**2.69**	**3.04**	**5.73**	21.0

Examination of selected drill core from the 1990 program suggests poor sample quality control; including some samples that are not representative. In places, core samples were split unevenly; intervals of whole (unsampled) core alternate with intervals of missing (100 % sampled) core.

13.0 Mineral Processing and Metallurgical Testing

No mineral processing or metallurgical testing has been completed on the Mt Alcock property to date.

14.0 Mineral Resource Estimates

There are currently no Mineral Resources on the Mt Alcock property.

23.0 Adjacent Properties

Canada Zinc Metals Corp. holds the Kwad and Yuen exploration properties, adjacent to the Mt Alcock property. Historical exploration data was in the process of digital compilation at the time of writing this report.

Nearby properties include two major undeveloped SEDEX deposits; Cardiac Creek and the Cirque. The Cardiac Creek deposit, part of the Akie claims held by Canada Zinc Metals Corp., has a current NI 43-101

compliant mineral resource estimate as follows: indicated resource of 12.7 million tonnes at grades of 8.38 % zinc, 1.68 % lead and 13.7 g/t silver, and an inferred resource of 16.3 million tons at 7.38 % Zn, 1.34 % Pb and 11.6 g/t Ag, both at 5% Zn cut-off (Sim 2012). Cardiac Creek is located 40 kilometres southeast of the Main showing on Mt Alcock.

The Cirque deposit is located 18 kilometres southeast of the Main showing on Mt Alcock; approximately midway between the Mt Alcock property and Canada Zinc Metals' Cardiac Creek deposit. The site has been inactive since the late 1990s, and is held as a joint venture between Teck Resources (50%) and Korea Zinc Company (50%). Historical resource estimates for the undeveloped deposit are not 43-101 compliant; published variations include:

- 38.5 million tonnes at 8.0 % zinc, 2.2 % lead, and 47.2 g/t silver for Cirque (Goodfellow and Lydon 2007), and
- 54 million tonnes grading 7.7 % zinc, 2.0 % lead, 42.8 g/t silver, and 47.5 % barite for Cirque and nearby South Cirque (MacIntyre 1983).

The author has examined drill core from the Cardiac Creek deposit only, and has not personally verified the information for the Cardiac Creek and Cirque resource estimates. Data for these deposits is therefore not necessarily indicative of the mineralization on the Mt Alcock property.

24.0 Other Relevant Data and Information

The Mt Alcock claims now lie partly within the Nuhseha (Fox) Special Resource Management Zone (RMZ). In 1987, the area was designated a Recreation Area adjacent to the western boundary of the Kwadacha Wilderness Provincial Park. The Recreation Area was later rezoned as an RMZ and opened to staking in 1989, in recognition that the area's resource development potential outweighs the contribution towards park values. Any future resource development within the Nuhseha RMZ will need to be sensitive to the intended objective of the adjacent protected Kwadacha Wilderness area.

As of the date of this report, the author knows of no other data or information which is relevant or material to the Mt Alcock property, beyond the cited References.

25.0 Interpretation and Conclusions

The Mt Alcock property encompasses two large panels of Gunsteel Formation shale hosting zinc-lead-silver mineralization similar in style to other SEDEX deposits and showings in the district, including Teck's Cirque deposit, and Canada Zinc Metals' GPS bedded barite showing; both located along strike to the southeast.

Intercepts of Zinc-lead-silver mineralization at the Main barite showing, including 8.8 at 9.3 % zinc + lead, are comparable to widths and grades intersected at the Cardiac Creek deposit (eg. Sim 2012). Mineralization at the Main barite showing dips steeply to the southwest, and has been intersected to a vertical depth of 130 metres, along 230 metres of strike length; part of a 500 metre long by 90 metre wide barite kill zone with associated 4 kilometre long, discontinuous Zn-Pb soil anomalism. The location and sample data for the 1990 drilling program remains unverified and problematic. Furthermore, the

geology intersected in drilling suggests a lack of continuity down dip and along strike; interpreted as the result of complex faulting. The structural controls remain poorly understood at this time; this is of concern, since extensions to mineralization may be offset and/or terminated by faulting. Nonetheless potential remains for the discovery for further mineralization at the Main barite showing, and at a number of other poorly tested SEDEX targets identified on the property.

The larger of the two Gunsteel Formation shale panels, including the Nod and Seep grids, remains untested by drilling. Anomalous zinc-lead+/-silver and SEDEX indicator geochemistry appears to be continuous, albeit folded and offset by faulting, along the entire 6 kilometre long panel strike length sampled to date. Anomalism is open along strike to the southeast of the Seep grid, and along strike to the northwest of the Nod grid - into the adjacent Kwad property, held by Canada Zinc Metals.

The project warrants additional drill testing, geological mapping, surface geochemistry and geophysical programs in order to:

- locate extensions to mineralization, and improve geological understanding of the Main barite showing, by additional drill testing,

- identify new sulphide targets, and to search for extensions to mineralization along strike and down-dip of existing showings,

- generate new targets on the northern panel of Gunsteel shale; in the 3 square kilometre triangular area bounded by the Main barite, Nod and Seep showings.

26.0 Recommendations

Phase I:

Diamond drilling of high priority targets on the Main barite, Nod, and Seep showings is recommended for a total of nine holes for 1,400 metres. Of this total, seven holes for 800 metres is recommended to test down-dip and along strike of mineralization intersected in historical drilling at the Main barite showing. One drill hole for 300 metres is recommended to drill test soil geochemistry anomalism immediately overlying the nodular barite at the Nod showing. One drill hole for 300 metres is recommended to drill test a soil geochemistry anomaly on the Seep grid. A second phase of drilling follow up is recommended at the three showings, contingent on intersecting mineralization with SEDEX characteristics in the first phase. The second phase also includes drill testing of targets generated by the proposed VTEM survey. Proposed drill hole locations are shown on Figure 11, Table 13 below. Further verification of historical drilling data verification is recommended, including – where possible - assay and lithology checks on selected historical Mt Alcock core, and the option of twinning one of the historical drill holes. A total of 700 core samples for Phase I drilling and historical core re-assaying is proposed. The establishment of a digital photographic record of all new and remaining historical core is recommended.

An airborne EM geophysical survey, totalling 449 line kilometres to be flown at 200 metre line spacing, is recommended. The 'VTEM' (Vertical axis electromagnetic) survey is suggested since it has the potential ability to map sulphide mineralization separately from the conductive black shale host, including in areas of tree cover, and overburden. Survey coverage of the entire Mt Alcock claim area is proposed, with

VTEM results to be tied in with survey data along strike; on Canada Zinc Metals' nearby Pie and Akie claim areas. Preliminary reinterpretation of the 1991 DIGHEM airborne survey data from the nearby central Pie claims suggests that VTEM has potential to discern sulphide mineralization from the enclosing conductive Gunsteel Formation host. VTEM survey data over the Cardiac Creek deposit may provide a signature, or target model of exploration for comparable style mineralization on the Mt Alcock claims. Discussions with the service supplier are in progress and details regarding the scope, together with a cost estimate, were pending at the time of writing.

Phase II:

Contingent on the results of the Phase I diamond drilling, two lines of infill soil sample geochemistry are recommended between the Nod and Seep grids. Extension of the Seep grid to the southeast is recommended, in order to close off an existing soil anomaly and test an area with anomalous rock and silt samples. This work should be completed prior to drilling the proposed hole at the southeast end of the Seep grid. Extension of the Main barite soil geochemistry grid is recommended, contingent on positive results from proposed diamond drilling. Collection of a total 200 soil samples is proposed.

Contingent on the results of the Phase I diamond drilling, stream water sampling is recommended whilst mapping and prospecting over previously untested areas. Further prospecting and mapping is recommended in the prospective, sparsely prospected area between the established Main-Nod-Seep grids, the area to the southeast of the Seep grid, and on any targets generated by the VTEM survey. Increasing understanding of the distribution and orientation of faults is a high priority, in improving geological modelling and evaluating the likelihood of fault terminations and/or offsets. Collection of stream water samples is recommended during the course of prospecting and mapping work. A baseline stream water sampling survey, completed on the Pie and Akie claims in 2011, suggests testing stream waters for anomalous levels of barium sulphate (Caron 2007) holds promise for targeting barite-associated base metals mineralization (Sim 2012, Strate 2012). Lithogeochemistry studies are recommended on selected rock samples, for comparison with the trace element signature of Gunsteel Formation on Canada Zinc Metals' other Kechika properties. Collection of a total of 40 rock and stream or water samples is proposed.

Table 13: Proposed Drill holes

Hole ID	UTM X	UTM Y	UTM Z	Azimuth	Dip	Length (m)	Showing
M-12-A	356745	6394012	1608	50	-67	125	Main
M-12-B	356775	6393984	1625	50	-70	135	Main
M-12-C	356879	6393966	1647	50	-50	75	Main
M-12-D	356875	6393936	1629	50	-70	130	Main
M-12-E	356904	6393935	1646	50	-60	75	Main
M-12-F	356867	6393904	1628	50	-70	135	Main
M-12-G	356864	6393850	1609	50	-65	125	Main
M-12-H	358603	6397042	1530	40	-60	300	Nod
M-12-I	361298	6393927	1130	60	-60	300	Seep
Total	9 DDH					1400	

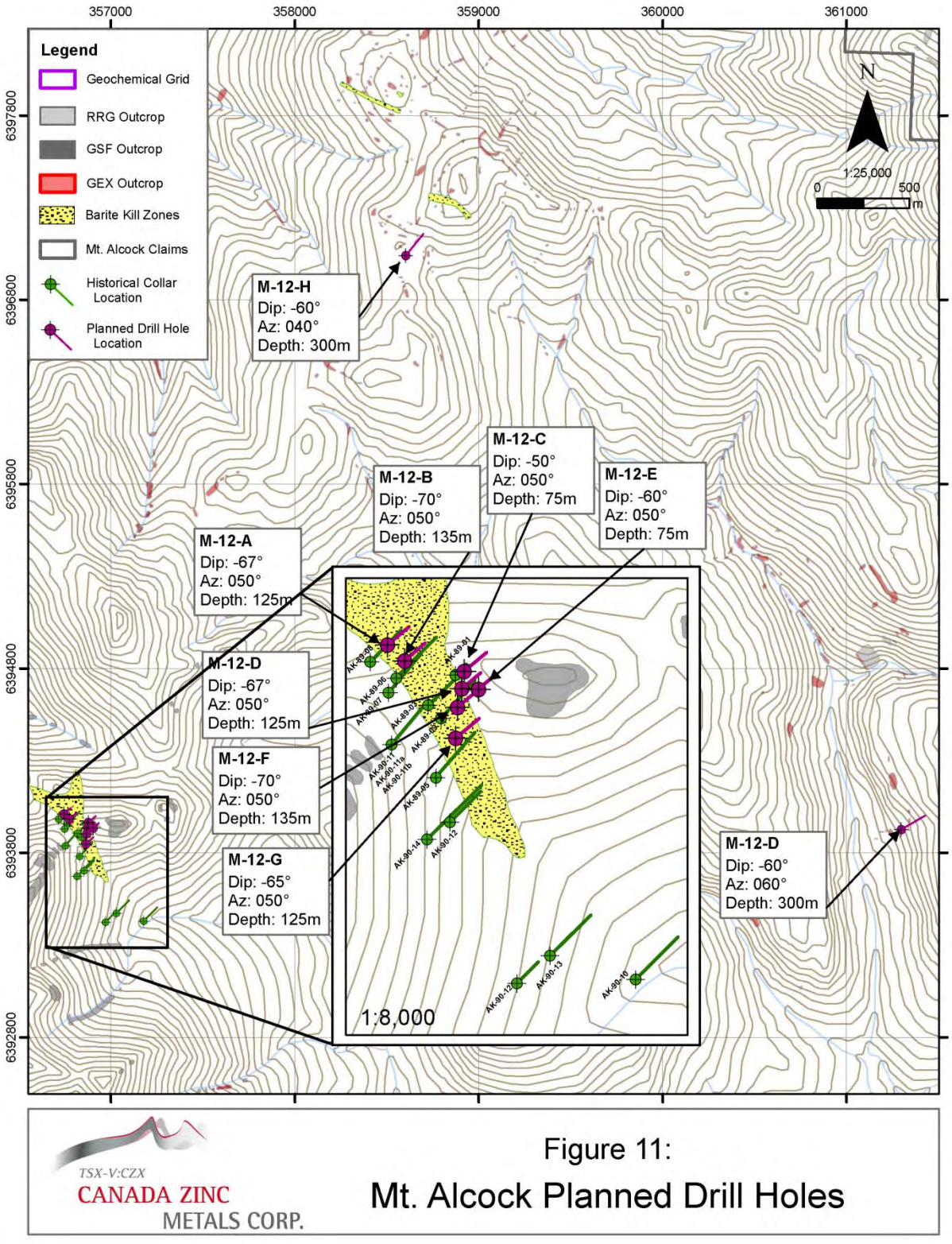


Figure 11: Mt Alcock Proposed Drill Hole Locations

Recommended Budget:

The estimated total cost of the recommended helicopter-supported exploration program at Mt Alcock for 2012 is $1,096,343, as shown in Table 14 below. Contingent on the results of Phase I, a second phase is recommended, including 2,000 metres diamond drilling of targets generated by Phase I, at a further estimated cost of $1.284 million.

The budget assumes economies are to be achieved by operating the field program concurrently with drilling programs at Canada Zinc Metal's Akie camp. Costs for any stand-alone program would be considerably higher, including the cost of separate core processing facilities and other support services, and payment of full (instead of shared) mobilization/demobilization costs for drill, helicopter and geophysical equipment and crews.

Table 14: Recommended exploration budget for 2012

Phase I:

Stage I	Cost
409 line km VTEM @ $200+/line km all inclusive	$86,000
1,400 diamond drilling	$290,500
500 geochem samples, 700 core samples, racks	$59,000
Personnel	$170,000
Accommodation, travel	$12,100
Field supplies, support	$124,000
Helicopter support	$140,000
Fuel	$33,075
Camp	$82,000
Sub-total	$996,675
Contingency 10%	$99,668
Total	**$1,096,343**

Phase II:

Stage II	Cost
Follow up ground IP/VTEM	$30,000
2,000 diamond drilling @ $486/m all inclusive	$972,000
200 soil samples @ $45 each	$9,000
40 rock samples @ $45 each	$1,800
Personnel	$80,000
Field supplies, accommodation $200/manday	$50,000
Helicopter -geochem sampling prog	$25,000
Sub-total	$1,167,800
Contingency 10%	$116,780
Total	**$1,284,580**

Figures 5-8g follow at the end of this report.

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Appendix 1: Certificates and Consents of Qualified Person

CERTIFICATES AND CONSENTS OF QUALIFIED PERSON

I, Tanya Strate, of 1878 Sandy Point Rd RR2, Shelburne, Nova Scotia hereby certify that:

1) I am a consulting exploration geologist with 23 years' experience as an exploration and mining geologist in the minerals industry,

2) I graduated with a Bachelor of Science in 1989 and Honours in Geology in 1991 from the University Of Sydney, Australia, and since then have practiced my profession continuously in Canada, Australia, Chile, Mexico, and Finland. I graduated with a Master of Applied Science (Tropical Ecology) from James Cook University, Australia in 2007,

3) I am a member in good standing with the following Professional associations: the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG), member number X89565, and the Australian Institute of Geoscientists, MAIG number 3742.

4) I personally worked on the Mt Alcock property during the periods 10 June to 13 July 2011 and 27 July to 29 August 2011; as field manager for the 2011 regional exploration work. This experience forms the basis for the 2011 work summarized in this report, as well as for reviews of referenced prior work. Prior to 2011, I had no prior involvement with this property,

5) I am responsible for the report titled *NI 43-101 Technical Report on the Mt Alcock Property for Canada Zinc Metals Corp.* dated 31 May 2012, fulfilling the requirements of a Qualified Person,

6) I am an independent consultant to the report Issuer Canada Zinc Metals Corp.,

7) I have read NI 43-101 and Form 43-101 F1 version 30 June 2011, and this technical report has been filed in compliance with that Instrument and Form,

8) The contents of this Technical Report fairly and accurately represents the available scientific and technical information on work done on the property, required to be disclosed such that the report is not misleading,

9) I consent to the filing of this Technical Report in electronic or other form, including extracts or summaries from the report, in the company files and websites accessible to the public.

T. Strate

Tanya Strate BSc (Hons) MAppSci P.Geol MAIG

Dated in Shelburne, Nova Scotia this 31st day of May 2012.

Appendix 2: Surface Geochemistry Samples

Appendix 2: Surface Geochemistry Samples

Table 4: 2011 Silt Samples – Descriptions

SAMPLE NO	UTM E	UTM N	DATE	SAMPLER	STREAM	CLAY %	SILT %	ORG %	SAND %	ROCK %	ROCK DESCRIPTION	COLOUR	CERTIFICATE
1194276	361116	6393528	7-Sep-11								silt, sand bearing, weakly gravel bearing, weakly organics bearing	Dark grey - dark brown	VAN11005160
1194277	361098	6393613	7-Sep-11								silt, weakly sand bearing, very weakly gravel bearing, organics bearing and some life roots	Dark brown	VAN11005160
1194281	354179	6395911	8-Sep-11								silt, fine sand bearing, weakly medium sand bearing, very weakly gravel bearing, minor organics bearing.	Dark brown grey	VAN11005160
1194282	362833	6392446	8-Sep-11								strongly silt bearing, strongly sand bearing, gravel bearing, moderately organics bearing	Grey - brown grey	VAN11005160
1194283	362794	6392293	8-Sep-11								strongly silt bearing, sand bearing, very weakly fine gravel bearing, moderately organics bearing.	Grey - brown grey	VAN11005160
1194284	362352	6391830	8-Sep-11								silt, strongly sand bearing, fine gravel bearing, very weakly medium gravel bearing, +/- weak - +/- moderately organics bearing.	Medium grey - brownish	VAN11005160
1195101	356475	6398155	26-Aug-11	SP	20L/min	0	75		25	0	Fragments of pregnant shale (siliceous black mudstone that breaks conchoidally), black carbonaceous siltstone and well rounded boulders of quartzite.	dark grey	VAN11004018
1195102	356381	6398097	26-Aug-11	SP	5L/min	0	75	5	20	0	Black carbonaceous siltstone, one solitary semi angular ferricrete fragment in creek and well rounded boulders of quartzite.	dark brown grey	VAN11005160
1195103	357744	6400060	26-Aug-11	SP	100L/min	0	75	5	20	0	sub-rounded siliceous black mudstone and large round boulders unknown. Qtz-carb veins as rounded rocks.	dark black brown grey	VAN11005160
1195104	355590	6401409	26-Aug-11	SP	50L/min	0	75	5	20	0	Black pregnant mudstone and black carbonaceous fissile mudstone displaying a platy cleavage vfg. Weakly rusty.	brown grey	VAN11005160
1195105	361451	6393985	27-Aug-11	SP	20L/min	0	60	10	30	0		dark brown grey	VAN11005160
1195106	360062	6396692	06-Sep-11	AM	20 l/m		35	40	15	20		dark grey brown	VAN11005160
1195108	361556	6395790	07-Sep-11	AM	40 l/m			80	15		limestone, white beige tuffa	dark grey	VAN11005160
1195109	361469	6395727	07-Sep-11	AM	40 l/m		75	15	10		medium dark grey calcareous siltstone/limestone ??	dark grey	VAN11005160
1195110	361756	6395187	07-Sep-11	AM	60 l/m		15	70	15		black carbonatous siliceous mudstone with quartz veining	dark grey	VAN11005160
1195111	361786	6395121	07-Sep-11	AM	60 l/m		15	75	10		dark grey, plate like siltstone (Road River) and black carbonatous mudstone	dark grey	VAN11005160
1195112	361101	6394784	07-Sep-11	AM	60 l/m		5	80	15		medium dark grey lime stone and black carbonaceous siliceous mudstone	dark brown	VAN11005160
1195113	360906	6394245	07-Sep-11	AM	40 l/m		20	75	5		debris flow with limestone fragments, black carbonaceous mudstone that is both siliceous and non siliceous	dark grey black	VAN11005160
1195114	360921	6394510	07-Sep-11	AM	80 l/m		20	70	10		small seep 3 metres west of silt sample, but not taken	dark grey red	VAN11005160
1195115	359265	6394463	08-Sep-11	AM	40 l/m		40	55	5			grey brown	VAN11005160
1195116	360021	6393844	08-Sep-11	AM	40 l/m		30	65	5			light grey	VAN11005160
1195117	360023	6393710	08-Sep-11	AM	40 l/m		15	80	5			dark grey black	VAN11005160
1195118	360791	6392850	08-Sep-11	AM	60 l/m		15	80	5			dark grey	VAN11005160
1195119	361116	6392783	08-Sep-11	AM	50 l/m		20	50	20			dark grey	VAN11005160
1195120	361403	6392378	08-Sep-11	AM	15 l/m		35	35	15			dark brown	VAN11005160
1195121	360736	6391931	08-Sep-11	AM	15 l/m		10	70	20			grey brown	VAN11005160

Table 5: 2011 Silt Samples – Assay Results

SAMPLE NO	GC Zn ppm	GC Pb ppm	GC Ag ppb	XRF Ba ppm	GC Cu ppm	GC Ni ppm	GC Tl ppm	GC As ppm	GC La ppm	GC Mo ppm
1194276	1365.0	25.92	508	4905	47.65	161.9	1.37	18.4	10.3	34.72
1194277	1505.6	25.88	573	3356	48.28	180.8	1.44	17.6	10.7	34.08
1194281	454.5	22.95	508	3484	33.24	53.8	0.46	9.8	9.0	13.94
1194282	1949.4	11.41	364	1033	57.66	464.0	1.57	6.0	6.6	16.33
1194283	1968.1	13.08	440	1097	33.69	276.5	1.54	6.6	7.2	15.00
1194284	770.8	11.09	349	1691	15.63	71.2	0.45	5.4	10.6	4.91
1195101	892.4	35.70	532	7913	46.16	82.1	0.87	15.7	6.1	23.40
1195102	609.9	21.47	1071	3626	59.25	149.3	0.60	11.8	8.8	15.34
1195103	900.1	14.67	708	1584	41.13	124.6	1.10	15.0	12.1	25.56
1195104	817.7	45.32	872	10518	46.04	86.6	0.73	14.4	5.3	10.46
1195105	1969.3	416.73	1118	1585	64.40	349.2	1.40	15.3	7.0	29.22
1195106	2518.7	29.55	1240	1469	91.01	392.8	4.03	38.9	8.2	37.20
1195108	826.1	13.76	692	1205	37.04	144.1	1.13	10.3	14.7	18.25
1195109	730.6	11.36	530	958	33.47	137.6	1.29	10.0	15.3	19.08
1195110	568.0	11.66	444	1394	30.14	75.4	0.84	9.4	14.1	17.43
1195111	970.0	13.63	620	988	34.11	145.4	1.29	11.0	13.5	23.07
1195112	935.6	12.73	562	1099	44.94	168.9	1.59	18.0	11.5	35.82
1195113	1742.4	33.90	636	4311	60.20	212.0	1.46	21.6	5.5	41.38
1195114	1777.3	24.03	619	2240	49.75	293.5	1.41	18.5	7.4	38.38
1195115	2378.4	22.33	588	3298	44.22	234.4	1.10	15.8	9.6	25.29
1195116	2017.1	24.38	681	3795	49.88	212.9	1.08	16.5	9.1	26.10
1195117	3002.0	19.28	784	4683	78.51	294.8	2.49	37.6	20.0	44.49
1195118	1802.4	27.50	625	6077	55.17	177.5	1.06	18.9	9.9	32.19
1195119	1292.1	26.36	688	2245	46.50	176.6	1.28	16.3	10.8	30.97
1195120	981.3	19.30	450	2528	33.69	135.9	0.75	9.0	7.3	11.24
1195121	1208.7	17.84	541	2860	32.07	157.1	0.71	6.5	11.2	8.66

Table 6: 2011 Soil Samples – Descriptions Page 1

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194723	358544	6398282	L10+0	19-Aug-11	DM		5	10	25		60	B,C		VAN11004714
1194724	358573	6398326	L10+50	19-Aug-11	DM		5	15	30		50	B,C		VAN11004714
1194725	358601	6398362	L10+100	19-Aug-11	DM		10	20	20		50	B,C		VAN11004714
1194726	358629	6398506	L10+150	19-Aug-11	DM		10	10	20		60	B,C		VAN11004714
1194727	358660	6398445	L10+200	19-Aug-11	DM		10	25	50		15	B,C		VAN11004714
1194728	358687	6398486	L10+250	19-Aug-11	DM		15	15	30		40	B,C		VAN11004714
1194729	358715	6398526	L10+300	19-Aug-11	DM		10	15	25		50	B		VAN11004714
1194730	358746	6398569	L10+350	19-Aug-11	DM		10	15	30		45	B,C		VAN11004714
1194731	358774	6398608	L10+400	19-Aug-11	DM		10		30		60	C		VAN11004714
1194732	358803	6398655	L10+450	19-Aug-11	DM		5	5	20		70	C		VAN11004714
1194733	358828	6398695	L10+500	19-Aug-11	DM		10	10	30		50	B,C		VAN11004714
1194734	358861	6398733	L10+550	19-Aug-11	DM		10	10	30		50	B,C		VAN11004714
1194735	358885	6398771	L10+600	19-Aug-11	DM		5	15	40		40	B		VAN11004714
1194736	358916	6398814	L10+650	19-Aug-11	DM		10	10	30		50	B,C		VAN11004714
1194737	358947	6398854	L10+700	19-Aug-11	DM		15	15	30		40	B,C		VAN11004714
1194738	358976	6398896	L10+750	19-Aug-11	DM		10	25	45		20	B,C		VAN11004714
1194739	359002	6398936	L10+800	19-Aug-11	DM		5	30	50		15	B		VAN11004714
1194740	359032	6398979	L10+850	19-Aug-11	DM		10	20	30		40	B,C		VAN11004714
1194741	359058	6399018	L10+900	19-Aug-11	DM		10	25	45		20	B		VAN11004714
1194742	359086	6399059	L10+950	19-Aug-11	DM		10	20	55		15	B		VAN11004714
1194743	359118	6399101	L10+1000	19-Aug-11	DM		10	30	50		10	B		VAN11004714
1194744	358859	6399461	L11+1200	19-Aug-11	DM		5	10	50		35	B,C		VAN11004714
1194745	358835	6399426	L11+1150	19-Aug-11	DM		10	20	50		20	B,C		VAN11004714
1194746	358805	6399382	L11+1100	19-Aug-11	DM		10	20	45		25	B,C		VAN11004714
1194747	358778	6399339	L11+1050	19-Aug-11	DM		10	40	40		10	B		VAN11004714
1194748	358751	6399306	L11+1000	19-Aug-11	DM		15	30	30		25	B,C		VAN11004714
1194749	358720	6399257	L11+950	19-Aug-11	DM		15	40	60		5	B		VAN11004714
1194750	358692	6399224	L11+900	19-Aug-11	DM		10	30	45		15	B		VAN11004714
1194751	358666	6399177	L11+850	19-Aug-11	DM		10	20	55		15	B		VAN11004714

Table 6: 2011 Soil Samples – Descriptions Page 2

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194752	358633	6399137	L11+800	19-Aug-11	DM		20	20	55		5	B		VAN11004714
1194753	358606	6399090	L11+750	19-Aug-11	DM		10	10	40		40	B,C		VAN11004714
1194754	358578	6399052	L11+700	19-Aug-11	DM		10	15	35		4	B,C		VAN11004714
1194755	358542	6399015	L11+650	19-Aug-11	DM		15	15	60		10	B		VAN11004714
1194756	358519	6398969	L11+600	19-Aug-11	DM		5	5	60		30	B,C		VAN11004714
1194757	358490	6398930	L11+550	19-Aug-11	DM		5	5	50		40	B,C		VAN11004714
1194758	358461	6398889	L11+500	19-Aug-11	DM		5		25		70	C		VAN11004714
1194759	358436	6398852	L11+450	19-Aug-11	DM		10	20	35		35	C		VAN11004714
1194760	358403	6398813	L11+400	19-Aug-11	DM		10	40	30		20	B,C		VAN11004714
1194761	358377	6398769	L11+350	19-Aug-11	DM		5		15		80	C		VAN11004714
1194762	358348	6398729	L11+300	19-Aug-11	DM		10	10	30		50	B,C		VAN11004714
1194763	358318	6398685	L11+250	19-Aug-11	DM		10	20	30		40	B,C		VAN11004714
1194764	358288	6398647	L11+200	20-Aug-11	DM		10	10	45		35	B.C		VAN11004714
1194765	358261	6398601	L11+150	20-Aug-11	DM		15	10	60		15	B		VAN11004714
1194766	358231	6398563	L11+100	20-Aug-11	DM		15	0	25		60	B,C		VAN11004714
1194767	358205	6398525	L11+50	20-Aug-11	DM		25	0	15		60	B,C		VAN11004714
1194768	358177	6398483	L11+0	20-Aug-11	DM		20	0	30		50	B,C		VAN11004714
1194769	359583	6396724	L6+350	24-Aug-11	SP	MOIST	10	70	20	0	0	B	10CM	VAN11004919
1194770	359552	6396686	L6+300	24-Aug-11	SP	MOIST	5	50	30	0	15	B	10CM	VAN11004919
1194771	359522	6396648	L6+250	24-Aug-11	SP	MOIST	5	50	30	0	15	B	15CM	VAN11004919
1194772	359492	6396603	L6+200	24-Aug-11	SP	MOIST	5	45	40	10	10	B	10CM	VAN11004919
1194773	359464	6396569	L6+150	24-Aug-11	SP	MOIST	10	25	40	5	20	B/C	10CM	VAN11004919
1194774	359430	6396526	L6+100	24-Aug-11	SP	MOIST	5	35	30	10	20	B	15CM	VAN11004919
1194775	359404	6396482	L6+50	24-Aug-11	SP	MOIST	10	35	40	0	15	B	15CM	VAN11004919
1194776	359373	6396443	L6+0	24-Aug-11	SP	MOIST	5	35	40	0	25	B	15CM	VAN11004919
1194777	361921	6394218	L1-850	06-Sep-11	AM		5	50	30		15	B	17	VAN11004919
1194778	361921	6394244	L1-900	06-Sep-11	AM		5	35	40		15	B	17	VAN11004919
1194779	359538	6395969	L5-0	06-Sep-11	AM		5	30	35		30	B	10	VAN11004919
1194780	359566	6396013	L5-50	06-Sep-11	AM		5	30	35	20	10	B	7	VAN11004919
1194781	639594	6396046	L5-100	06-Sep-11	AM		5	45	40		10	B	7	VAN11004919

Table 6: 2011 Soil Samples – Descriptions Page 3

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194782	359619	6396087	L5-150	06-Sep-11	AM		5	30	30		35	B	12	VAN11004919
1194783	359653	6396132	L5-200	06-Sep-11	AM		5	45	40		10	B	8	VAN11004919
1194784	359680	6396176	L5-250	06-Sep-11	AM		10	10	10		70	B/C	7	VAN11004919
1194785	359710	6396216	L5-300	06-Sep-11	AM		5	40	40		5	B	17	VAN11004919
1194786	359740	6396250	L5-350	06-Sep-11	AM		5	40	30		25	B/C	9	VAN11004919
1194787	359762	6396284	L5-400	06-Sep-11	AM		5	45	45		5	B	17	VAN11004919
1194788	359795	6396337	L5-450	06-Sep-11	AM		5	40	35		20	B	12	VAN11004919
1194789	359822	6396382	L5-500	06-Sep-11	AM		5	30	40	0	25	B	9	VAN11004919
1194790	359854	6396420	L5-550	06-Sep-11	AM		5	30	30	10	25	B/C	12	VAN11004919
1194791	359886	6396460	L5-600	06-Sep-11	AM		5	40	35	0	20	B	4	VAN11004919
1194792	359911	6396499	L5-650	06-Sep-11	AM		5		35	40	20	B/C	4	VAN11004919
1194793	359944	6396542	L5-700	06-Sep-11	AM		5	40	30		25	B/C	9	VAN11004919
1194794	359968	6396583	L5-750	06-Sep-11	AM		5	25	30		40	B/C	4	VAN11004919
1194795	359994	6396623	L5-800	06-Sep-11	AM		5	35	40		25	B	10	VAN11004919
1194796	360028	6396064	L5-850	06-Sep-11	AM		5	35	30		30	B/C	20	VAN11004919
1194797	360055	6396706	L5-900	06-Sep-11	AM		5	40	35		20	B	4	VAN11004919
1194798	360086	6396752	L5-950	06-Sep-11	AM		5	30	40		25	B	8	VAN11004919
1194799	360111	6396788	L5-1000	06-Sep-11	AM		10	20	20		50	B	7	VAN11004919
1194800	360140	6396827	L5-1050	06-Sep-11	AM		5	40	35		20	B	4	VAN11004919
1194801	359715	6397853	L9-0	19-Aug-11	AM		10	40	20		30	B		VAN11004714
1194802	358745	6397892	L9-50	19-Aug-11	AM		20	50	10		20	B		VAN11004714
1194803	358774	6397834	L9-100	19-Aug-11	AM		15	50	10		25	B		VAN11004714
1194804	358802	6397973	L9-150	19-Aug-11	AM		15	25	25		35	B		VAN11004714
1194805	358833	6398016	L9-200	19-Aug-11	AM		10	40	10		40	B		VAN11004714
1194806	358861	6398053	L9-250	19-Aug-11	AM		15	45	20		20	B/C		VAN11004714
1194807	358890	6398097	L9-300	19-Aug-11	AM		10	40	20		30	B/C		VAN11004714
1194808	358921	6398133	L9-350	19-Aug-11	AM		10	20	20		50	B/C		VAN11004714
1194809	358942	6398174	L9-400	19-Aug-11	AM		10	50	10		20	B		VAN11004714
1194810	358966	6398219	L9-450	19-Aug-11	AM		20	20	40		30	B/C		VAN11004714
1194811	359004	6398258	L9-500	19-Aug-11	AM		10	40	30		20	B		VAN11004714

Table 6: 2011 Soil Samples – Descriptions Page 4

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194812	359030	6398301	L9-550	19-Aug-11	AM		20	50	10		20	B		VAN11004714
1194813	359061	6398341	L9-600	19-Aug-11	AM		20	40	10		30	B		VAN11004714
1194814	359093	6398386	L9-650	19-Aug-11	AM		5	30	30		35	B		VAN11004714
1194815	359116	6398423	L9-700	19-Aug-11	AM		10	20	40		30	B/C		VAN11004714
1194816	359146	6398465	L9-750	19-Aug-11	AM		10	40	30		20	B/C		VAN11004714
1194817	359501	6398501	L9-800	19-Aug-11	AM		20	50	10		20	B		VAN11004714
1194818	359209	6398553	L9-850	19-Aug-11	AM		20	60	20		0	A/B		VAN11004714
1194819	359234	6398581	L9-900	19-Aug-11	AM		10	10	40		40	B		VAN11004714
1194820	359261	6398631	L9-950	19-Aug-11	AM		20	40	20		20	B		VAN11004714
1194821	359292	6398668	L9-1000	19-Aug-11	AM		10	10	50		30	B		VAN11004714
1194822	359617	6398449	L8-1000	19-Aug-11	AM		10	50	20		20	B		VAN11004714
1194823	359585	6398413	L8-950	19-Aug-11	AM		10	50	20		20	B		VAN11004714
1194824	359553	6398369	L8-900	19-Aug-11	AM		20	40	30		10	B		VAN11004714
1194825	359525	6398328	L8-850	19-Aug-11	AM		10	30	50		10	B		VAN11004714
1194826	359501	6398285	L8-800	19-Aug-11	AM		10	20	30		40	B		VAN11004714
1194827	359476	6398246	L8-750	19-Aug-11	AM		30	10	40		20	B/C		VAN11004714
1194828	359445	6398206	L8-700	19-Aug-11	AM		10	40	40		10	B		VAN11004714
1194829	359415	6398164	L8-650	19-Aug-11	AM		30	10	40		20	A/B		VAN11004714
1194830	359390	6398122	L8-600	19-Aug-11	AM		20	40	30		10	B		VAN11004714
1194831	359360	6398082	L8-550	19-Aug-11	AM		10	10	40		40	B/C		VAN11004714
1194832	359341	6398041	L8-500	19-Aug-11	AM		10	20	40		30	B/C		VAN11004714
1194833	359300	6397999	L8-450	19-Aug-11	AM		10	40	20		30	B/C		VAN11004714
1194834	359279	6397966	L8-400	19-Aug-11	AM		20	35	10		35	B		VAN11004714
1194835	359253	6397918	L8-350	19-Aug-11	AM		30	30	30		10	B		VAN11004714
1194836	359298	6397873	L8-300	19-Aug-11	AM		20	30	30		20	B		VAN11004714
1194837	359118	6397934	L8-250	19-Aug-11	AM		10	30	20		40	B/C		VAN11004714
1194838	359169	6397788	L8-200	19-Aug-11	AM		10	20	20		50	B		VAN11004714
1194839	359145	6397736	L8-150	19-Aug-11	AM		10	40	20		30	B		VAN11004714
1194840	359108	6397705	L8-100	19-Aug-11	AM		10	30	30		30	B		VAN11004714
1194841	359074	6397673	L8-L8-50	19-Aug-11	AM		20	10	40		40	B		VAN11004714

Table 6: 2011 Soil Samples – Descriptions Page 5

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194842	360154	6397549	L6-1350	20-Aug-11	AM		5	30	50		5	B		VAN11004714
1194843	360119	6397516	L6-1300	20-Aug-11	AM		0	45	43		2	B		VAN11004714
1194844	360096	6397465	L6-1250	20-Aug-11	AM		5	40	40		15	B		VAN11004714
1194845	360066.1	6397424	L6-1200	20-Aug-11	AM		5	40	35		20	B		VAN11004714
1194846	360037.4	6397393	L6-1150	20-Aug-11	AM		5	35	40	10	10	B		VAN11004714
1194847	360008.7	6397345	L6-1100	20-Aug-11	AM		0	30	35		40	B/C		VAN11004714
1194848	359980	6397312	L6-1050	20-Aug-11	AM		5	35	35	10	20	B		VAN11004714
1194849	359951.4	6397261	L6-1000	20-Aug-11	AM		5	20	40	10	15	B/C		VAN11004714
1194850	359923	6397222	L6-950	20-Aug-11	AM		5	30	40	10	15	B		VAN11004714
1194851	359893	6397179	L6+900	24-Aug-11	SP	MOIST	5	30	45	0	20	B/C	5CM	VAN11004919
1194852	359864	6397140	L6+850	24-Aug-11	SP	MOIST	20	20	35	0	25	B/C	10CM	VAN11004919
1194853	359837	6397096	L6+800	24-Aug-11	SP	MOIST	15	30	30	0	30	B/C	10CM	VAN11004919
1194854	359806	6397056	L6+750	24-Aug-11	SP	MOIST	15	20	25	0	40	B/C	15CM	VAN11004919
1194855	359777	6397017	L6+700	24-Aug-11	SP	MOIST	5	40	40	0	15	B/C	5CM	VAN11004919
1194856	359749	6396974	L6+650	24-Aug-11	SP	MOIST	5	40	40	0	15	B/C	5CM	VAN11004919
1194857	359718	6396930	L6+600	24-Aug-11	SP	MOIST	5	45	35	0	15	B/C	5CM	VAN11004919
1194858	359696	6396894	L6+550	24-Aug-11	SP	MOIST	5	45	35	0	15	B/C	15CM	VAN11004919
1194859	359659	6396850	L6+500	24-Aug-11	SP	MOIST	5	35	60	0	0	B/C	10CM	VAN11004919
1194860	359637	6396822	L6+450	24-Aug-11	SP	MOIST	5	40	40	0	15	B	20CM	VAN11004919
1194861	359601	6396771	L6+400	24-Aug-11	SP	MOIST	5	40	40	0	15	B/C	15CM	VAN11004919
1194862	359764	6397856	L7-0	20-Aug-11	AM		5	40	30		25	B		VAN11004714
1194863	359751	6397894	L7-50	20-Aug-11	AM		5	35	35		25	B		VAN11004714
1194864	359786	6397943	L7-100	20-Aug-11	AM		2	35	35		25	B/C		VAN11004714
1194865	359809	6397981	L7-150	20-Aug-11	AM		2	35	35		5	B		VAN11004714
1194866	359836	6398017	L7-200	20-Aug-11	AM		5	50	40		5	B		VAN11004714
1194867	359871	6398060	L7-250	20-Aug-11	AM		5	60	30		5	B		VAN11004714
1194868	359892	6398092	L7-300	20-Aug-11	AM		5	45	45		10	B		VAN11004714
1194869	359922	6398140	L7-350	20-Aug-11	AM		5	43	42		10	B		VAN11004714
1194870	359950	6398180	L7-400	20-Aug-11	AM		5	40	45		10	B		VAN11004714
1194871	359981	6398229	L7-450	20-Aug-11	AM		5	45	40		5	B		VAN11004714

Table 6: 2011 Soil Samples – Descriptions Page 6

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194872	360011	6398269	L7-500	20-Aug-11	AM		5	50	40		5	B		VAN11004714
1194873	639408	6397910	L6-1800	20-Aug-11	AM		5	40	50		15	B		VAN11004714
1194874	360377	6397874	L6-1750	20-Aug-11	AM		5	30	50		15	B		VAN11004714
1194875	630347	6397831	L6-1700	20-Aug-11	AM		5	40	50		5	B		VAN11004714
1194876	360322	6397794	L6-1650	20-Aug-11	AM		5	30	60		5	B		VAN11004714
1194877	360286	6397757	L6-1600	20-Aug-11	AM		10	53	45		2	B		VAN11004714
1194878	360268	6397712	L6-1550	20-Aug-11	AM		2	70	28		5	B		VAN11004714
1194879	360232	6397668	L6-1500	20-Aug-11	AM		2	70	26		2	B		VAN11004714
1194880	360209.5	6397629	L6-1450	20-Aug-11	AM		5	20	45		15	B	15	VAN11004714
1194881	360178	6397592	L6-1400	20-Aug-11	AM		5	35	40		10	B		VAN11004714
1194882	360685	6397610	L5+2000	24-Aug-11	SP	MOIST	5	40	40	0	15	B	15CM	VAN11004714
1194883	360657	6397566	L5+1950	24-Aug-11	SP	MOIST	5	50	25	0	20	B	15CM	VAN11004714
1194884	360624	6397528	L5+1900	24-Aug-11	SP	MOIST	10	60	15	0	15	A/B	20CM	VAN11004714
1194885	360595	6397483	L5+1850	24-Aug-11	SP	MOIST	5	50	30	0	15	B	25CM	VAN11004919
1194886	360570	6397443	L5+1800	24-Aug-11	SP	MOIST	5	35	35	0	25	B/C	30CM	VAN11004919
1194887	360544	6397401	L5+1750	24-Aug-11	SP	MOIST	5	50	30	0	15	B	10CM	VAN11004919
1194888	360514	6397362	L5+1700	24-Aug-11	SP	MOIST	10	35	45	0	15	B	20CM	VAN11004919
1194889	360481	6397320	L5+1650	24-Aug-11	SP	MOIST	5	5	65	0	25	B/C	20CM	VAN11004919
1194890	360456	6397280	L5+1600	24-Aug-11	SP	MOIST	5	30	50	0	15	B	15CM	VAN11004919
1194891	360427	6397237	L5+1550	24-Aug-11	SP	MOIST	5	25	35	0	25	B/C	20CM	VAN11004919
1194892	360401	6397202	L5+1500	24-Aug-11	SP	MOIST	5	20	50	5	20	B/C	20CM	VAN11004919
1194893	360371	6397159	L5+1450	24-Aug-11	SP	MOIST	5	20	60	0	15	B/C	20CM	VAN11004919
1194894	360342	6397118	L5+1400	24-Aug-11	SP	MOIST	5	20	60	0	15	B	10CM	VAN11004919
1194895	360314	6397070	L5+1350	24-Aug-11	SP	MOIST	5	25	50	0	15	B	30CM	VAN11004919
1194896	360285	6397033	L5+1300	24-Aug-11	SP	MOIST	5	40	40	0	15	B	30CM	VAN11004919
1194897	360257	6396995	L5+1250	24-Aug-11	SP	MOIST	5	30	50	0	15	B	30CM	VAN11004919
1194898	360225	6396948	L5+1200	24-Aug-11	SP	MOIST	5	35	40	0	20	B/C	20CM	VAN11004919
1194899	360198	6396907	L5+1150	24-Aug-11	SP	MOIST	5	40	45	0	10	B	15CM	VAN11004919
1194900	360171	6396866	L5+1100	24-Aug-11	SP	MOIST	5	30	30	0	35	B/C	10CM	VAN11004919
1194901	361533	6393988	L1-400	06-Sep-11	AM		0	25	50		25	B	0	VAN11004919

Table 6: 2011 Soil Samples – Descriptions Page 7

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194902	361579	6394018	L1-450	06-Sep-11	AM		5	45	40		10	B	6	VAN11004919
1194903	361621	6394037	L1-500	06-Sep-11	AM		5	30	40		15	B	10	VAN11004919
1194904	361660	6394068	L1-550	06-Sep-11	AM		5	40	40		15	B	12	VAN11004919
1194905	361707	6394094	L1-600	06-Sep-11	AM		5	35	40		20	B	12	VAN11004919
1194906	361752	6394119	L1-650	06-Sep-11	AM		3	50	42		5	B/C	6	VAN11004919
1194907	361796	6394140	L1-700	06-Sep-11	AM		5	45	40		10	A/B	21	VAN11004919
1194908	361836	6394167	L1-750	06-Sep-11	AM		5	50	30		15	B	12	VAN11004919
1194909	361879	6394191	L1-800	06-Sep-11	AM		5	45	40		10	B	12	VAN11004919
1194910	361188.7	6393790	L1+0	27-Aug-11	SP	MOIST	10	40	30	0	20	B	20CM	VAN11004919
1194911	361232	6393815	L1+50	27-Aug-11	SP	MOIST	5	60	30	0	5	B	20CM	VAN11004919
1194912	361275.3	6393840	L1+100	27-Aug-11	SP	MOIST	5	50	30	0	15	B	20CM	VAN11004919
1194913	361318.6	6393865	L1+150	27-Aug-11	SP	MOIST	5	50	30	0	15	B	20CM	VAN11004919
1194914	361361.9	6393890	L1+200	27-Aug-11	SP	MOIST	10	50	30	0	10	B	30CM	VAN11004919
1194915	361405.2	6393915	L1+250	27-Aug-11	SP	MOIST	5	50	30	0	15	B	30CM	VAN11004919
1194916	361448.5	6393940	L1+300	27-Aug-11	SP	MOIST	5	0	50	10	35	B	30CM	VAN11004919
1194917	361491.8	6393965	L1+350	27-Aug-11	SP	MOIST	5	10	55	0	30	B/C	20CM	VAN11004919
1194982	361861	6394649	L2-1000	07-Sep-11	AM		5	30	20		40	B/C	12	VAN11004919
1194983	361810	6394623	L2-950	07-Sep-11	AM		5	50	35		10	B/C	14	VAN11004919
1194984	361772	6394598	L2-900	07-Sep-11	AM		5	50	35		10	B	12	VAN11004919
1194985	361733	6394572	L2-850	07-Sep-11	AM		5	45	35		15	B	11	VAN11004919
1194986	361689	6394545	L2-800	07-Sep-11	AM		10	50	30		10	B	21	VAN11004919
1194987	361645	6394518	L2-750	07-Sep-11	AM		5	45	40		10	B	12	VAN11004919
1194988	361603	6394494	L2-700	07-Sep-11	AM		5	35	35		25	B	9	VAN11004919
1194989	361554	6394774	L2-650	07-Sep-11	AM		5	40	30		25	B	12	VAN11004919
1194990	361508	6394443	L2-600	07-Sep-11	AM		5	52	40		3	B	17	VAN11004919
1194991	361474	6394472	L2-550	07-Sep-11	AM		5	40	40		15	B	12	VAN11004919
1194992	361433	6394413	L2-500	07-Sep-11	AM		5	50	30		15	B	10	VAN11004919
1194993	361384	6394379	L2-450	07-Sep-11	AM		5	30	40		15	B	9	VAN11004919
1194994	361342	6394342	L2-400	07-Sep-11	AM		5	35	30		40	B	7	VAN11004919
1194995	361296	6394321	L2-350	07-Sep-11	AM		5	45	40		20	B	12	VAN11004919

Table 6: 2011 Soil Samples – Descriptions Page 8

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1194996	361254	6394303	L2-300	07-Sep-11	AM		5	40	30		25	B	14	VAN11004919
1194997	361214	6394273	L2-250	07-Sep-11	AM		5	40	40		15	B	17	VAN11004919
1194998	361171	6394253	L2-200	07-Sep-11	AM		5	45	40		10	A/B	32	VAN11004919
1194999	361126	6394227	L2-150	07-Sep-11	AM		5	45	35		15	B	8	VAN11004919
1195000	361081	6394200	L2-100	07-Sep-11	AM		5	30	35		30	B	7	VAN11004919
1195001	361038	6394173	L2-50	07-Sep-11	AM		5	35	30		30	B	7	VAN11004919
1195002	360996	6394147	L2-0	07-Sep-11	AM		15	25	30	10	20	B	12	VAN11004919
1195057	357383	6398053	L12+0	7-Sep-11	DM		5	0	25		70	C		VAN11004919
1195058	357412	6398097	L12+50	7-Sep-11	DM		15	5	60		25	B,C		VAN11004919
1195059	357439	6398139	L12+100	7-Sep-11	DM		10	20	40		30	B,C		VAN11004919
1195060	357467	6398177	L12+150	7-Sep-11	DM		10	10	20		60	C		VAN11004919
1195061	357494	6398223	L12+200	7-Sep-11	DM		5	10	60		25	B		VAN11004919
1195062	357523	6398254	L12+250	7-Sep-11	DM		10	5	45		30	B,C		VAN11004919
1195063	357552	6398305	L12+300	7-Sep-11	DM		10	5	35		50	B,C		VAN11004919
1195064	357582	6398342	L12+350	7-Sep-11	DM		20	20	30		30	B		VAN11004919
1195065	357609	6398382	L12+400	7-Sep-11	DM		20	5	25		50	B,C		VAN11004919
1195066	357639	6398428	L12+450	7-Sep-11	DM		5	30	60		5	B		VAN11004919
1195067	357674	6398469	L12+500	7-Sep-11	DM		5	15	78		2	B		VAN11004919
1195068	357696	6398510	L12+550	7-Sep-11	DM		10	10	40		40	B,C		VAN11004919
1195069	357723	6398533	L12+600	7-Sep-11	DM		10	25	40		25	B		VAN11004919
1195070	357758	6398591	L12+650	7-Sep-11	DM		5	30	40		25	B,C		VAN11004919
1195071	357780	6398633	L12+700	7-Sep-11	DM		10	10	50		30	B		VAN11004919
1195072	357809	6398667	L12+750	7-Sep-11	DM		10	5	65		20	B		VAN11004919
1195073	357845	6398706	L12+800	7-Sep-11	DM		5	30	60		5	B		VAN11004919
1195074	357871	6398752	L12+850	7-Sep-11	DM		10	5	25		60	B,C		VAN11004919
1195075	357899	6398789	L12+900	7-Sep-11	DM		5	25	65		5	B		VAN11004919
1195076	357926	6398832	L12+950	7-Sep-11	DM		10	15	60		5	B		VAN11004919
1195077	357956	6398875	L12+1000	7-Sep-11	DM		15	10	60		15	B		VAN11004919
1195078	357987	6398916	L12+1050	7-Sep-11	DM		10	10	50		30	B,C		VAN11004919
1195079	362006	6394268	L1-950	06-Sep-11	AM		5	40	40		15	B	14	VAN11004919

Table 6: 2011 Soil Samples – Descriptions Page 9

SAMPLE NO	UTM E	UTM N	STATION	DATE	SAMPLER	WATER	ORGANICS %	CLAY %	SILT %	SAND %	ROCK %	HORIZON	DEPTH cm	CERTIFICATE
1195080	362049	6394292	L1-1000	06-Sep-11	AM		5	30	55		10	B	17	VAN11004919
1195982	358013	6398953	L12+1100	23-Aug-11	DM		5	25	55		15	B		VAN11004919
1195983	358039	6398993	L12+1150	23-Aug-11	DM		10	5	75		10	B,C		VAN11004919
1195984	358069	6399038	L12+1200	23-Aug-11	DM		10	20	30		40	B,C		VAN11004919
1195985	358094	6399091	L12+1250	23-Aug-11	DM		10	25	50		15	B		VAN11004919
1195986	358125	6399117	L12+1300	23-Aug-11	DM		10	20	50		20	B,C		VAN11004919
1195987	358155	6399162	L12+1350	23-Aug-11	DM		10	20	40		30	B,C		VAN11004919
1195988	358183	6399202	L12+1400	23-Aug-11	DM		5	20	60		15	B		VAN11004919
1195989	358216	6399245	L12+1450	23-Aug-11	DM		10	20	50		20	B,C		VAN11004919
1195990	358241	6399284	L12+1500	23-Aug-11	DM		10	25	40		25	B,C		VAN11004919
1195991	358273	6399328	L12+1550	23-Aug-11	DM		10	40	35		15	B		VAN11004919
1195992	358293	6399368	L12+1600	23-Aug-11	DM		15	20	40		25	B,C		VAN11004919
1195993	358325	6399408	L12+1650	23-Aug-11	DM		10	10	55		25	B,C		VAN11004919
1195994	358357	6399450	L12+1700	23-Aug-11	DM		15	15	60		10	B		VAN11004919
1195995	358386	6399489	L12+1750	23-Aug-11	DM		25	25	30		20	B,C		VAN11004919
1195996	358413	6399533	L12+1800	23-Aug-11	DM		5	5	60		30	B,C		VAN11004919
1195997	358435	6399575	L12+1850	23-Aug-11	DM		10	10	50		30	B		VAN11004919
1195998	358466	6399612	L12+1900	23-Aug-11	DM		5	10	70		15	B		VAN11004919
1195999	358495	6399657	L12+1950	23-Aug-11	DM		5	30	45		20	B,C		VAN11004919
1196000	358527	6399708	L12+2000	23-Aug-11	DM		15	15	55		15	B		VAN11004919

Table 7: 2011 Soil Samples - Selected Assay Results Page 1

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm		SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194723	358544	6398282	232.7	44.53	471	1591		1194752	358633	6399137	301.6	8.08	2111	2931
1194724	358573	6398326	161.0	24.72	607	1058		1194753	358606	6399090	47.0	8.08	157	681
1194725	358601	6398362	147.6	16.34	699	1516		1194754	358578	6399052	131.9	9.50	486	825
1194726	358629	6398506	57.6	24.82	1699	866		1194755	358542	6399015	134.9	11.68	470	1671
1194727	358660	6398445	75.2	10.62	1139	1173		1194756	358519	6398969	24.3	11.07	245	1047
1194728	358687	6398486	16.5	16.85	330	992		1194757	358490	6398930	19.0	19.67	488	831
1194729	358715	6398526	203.2	26.48	868	8154		1194758	358461	6398889	1041.6	31.67	1867	1045
1194730	358746	6398569	150.3	33.63	1626	1639		1194759	358436	6398852	143.2	10.70	105	799
1194731	358774	6398608	57.4	20.92	877	776		1194760	358403	6398813	330.3	15.31	266	1374
1194732	358803	6398655	51.3	42.17	1943	1416		1194761	358377	6398769	297.7	47.90	5573	2566
1194733	358828	6398695	86.5	5.64	291	733		1194762	358348	6398729	35.3	6.24	590	703
1194734	358861	6398733	61.2	8.52	410	670		1194763	358318	6398685	37.5	9.57	247	601
1194735	358885	6398771	66.3	9.61	675	675		1194764	358288	6398647	48.1	4.84	224	617
1194736	358916	6398814	29.9	6.31	951	1000		1194765	358261	6398601	401.6	21.16	619	3154
1194737	358947	6398854	71.7	23.70	557	1272		1194766	358231	6398563	67.3	7.66	434	974
1194738	358976	6398896	331.2	19.82	436	1200		1194767	358205	6398525	77.6	11.90	2115	874
1194739	359002	6398936	219.3	31.57	390	1113		1194768	358177	6398483	272.9	14.08	486	958
1194740	359032	6398979	65.2	10.01	161	807		1194769	359583	6396724	196.0	32.79	1743	3346
1194741	359058	6399018	36.2	4.17	108	719		1194770	359552	6396686	176.0	19.04	443	1317
1194742	359086	6399059	282.1	14.72	133	901		1194771	359522	6396648	93.9	14.68	337	774
1194743	359118	6399101	324.8	20.76	1043	1030		1194772	359492	6396603	145.3	21.72	363	1421
1194744	358859	6399461	405.2	25.94	1055	927		1194773	359464	6396569	236.3	26.57	617	1716
1194745	358835	6399426	193.0	11.31	96	1220		1194774	359430	6396526	256.7	42.44	247	3211
1194746	358805	6399382	124.2	9.73	134	844		1194775	359404	6396482	363.9	44.56	697	4300
1194747	358778	6399339	422.8	15.06	793	1716		1194776	359373	6396443	469.8	48.81	1082	5712
1194748	358751	6399306	49.1	8.21	411	729		1194777	361921	6394218	431.5	21.02	285	848
1194749	358720	6399257	107.7	9.92	469	1480		1194778	361921	6394244	397.5	14.36	143	580
1194750	358692	6399224	48.0	11.22	177	1231		1194779	359538	6395969	158.4	19.70	364	2087
1194751	358666	6399177	65.1	8.21	155	1458		1194780	359566	6396013	253.2	31.11	233	2697

Table 7: 2011 Soil Samples - Selected Assay Results Page 2

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm		SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194781	639594	6396046	145.5	11.47	157	1285		1194810	358966	6398219	243.3	18.66	386	1096
1194782	359619	6396087	271.2	37.57	481	21085		1194811	359004	6398258	65.5	12.36	108	614
1194783	359653	6396132	97.8	15.97	198	1219		1194812	359030	6398301	260.0	15.86	834	1056
1194784	359680	6396176	71.4	10.33	222	992		1194813	359061	6398341	200.2	16.05	685	936
1194785	359710	6396216	153.9	29.25	1089	8151		1194814	359093	6398386	44.1	3.96	128	579
1194786	359740	6396250	149.8	30.35	448	1679		1194815	359116	6398423	43.7	2.69	114	480
1194787	359762	6396284	296.5	12.78	1418	1803		1194816	359146	6398465	63.9	4.98	91	623
1194788	359795	6396337	99.7	16.68	725	1489		1194817	359501	6398501	90.3	7.70	66	688
1194789	359822	6396382	115.2	14.16	476	831		1194818	359209	6398553	350.1	10.05	1752	884
1194790	359854	6396420	152.4	16.15	213	768		1194819	359234	6398581	1862.8	19.33	678	964
1194791	359886	6396460	120.0	18.56	434	755		1194820	359261	6398631	351.9	12.25	993	1209
1194792	359911	6396499	138.6	16.91	233	1046		1194821	359292	6398668	1184.9	10.22	656	1337
1194793	359944	6396542	135.6	14.63	184	928		1194822	359617	6398449	61.0	5.39	140	719
1194794	359968	6396583	365.6	31.61	566	1302		1194823	359585	6398413	85.8	6.35	182	1372
1194795	359994	6396623	199.7	22.34	512	1242		1194824	359553	6398369	89.5	5.48	172	820
1194796	360028	6396064	252.0	26.83	649	1063		1194825	359525	6398328	28.8	3.02	22	697
1194797	360055	6396706	215.9	21.81	623	1276		1194826	359501	6398285	600.9	25.00	344	879
1194798	360086	6396752	148.8	33.06	848	1783		1194827	359476	6398246	877.2	26.94	1139	952
1194799	360111	6396788	174.9	37.97	1874	1483		1194828	359445	6398206	84.2	7.73	125	852
1194800	360140	6396827	119.9	14.02	485	771		1194829	359415	6398164	641.5	9.22	589	1407
1194801	359715	6397853	63.5	13.25	550	1204		1194830	359390	6398122	1234.9	6.70	599	938
1194802	358745	6397892	68.3	11.28	277	2174		1194831	359360	6398082	303.8	9.57	76	647
1194803	358774	6397834	161.6	11.03	344	1613		1194832	359341	6398041	757.8	8.46	3028	540
1194804	358802	6397973	136.8	30.71	624	1460		1194833	359300	6397999	331.0	22.85	649	674
1194805	358833	6398016	763.0	56.61	1713	1538		1194834	359279	6397966	192.8	26.93	1558	646
1194806	358861	6398053	117.1	23.69	609	27189		1194835	359253	6397918	151.7	20.06	2116	1188
1194807	358890	6398097	124.6	15.27	210	577		1194836	359298	6397873	147.6	7.12	362	554
1194808	358921	6398133	32.8	62.97	1102	1585		1194837	359118	6397934	113.5	15.61	424	1661
1194809	358942	6398174	228.2	22.11	388	854		1194838	359169	6397788	182.7	22.31	520	3264

Table 7: 2011 Soil Samples - Selected Assay Results Page 3

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194839	359145	6397736	122.7	17.91	992	1199
1194840	359108	6397705	205.1	26.71	238	1082
1194841	359074	6397673	107.8	25.39	1306	1233
1194842	360154	6397549	605.3	23.19	839	931
1194843	360119	6397516	540.0	17.07	1718	1744
1194844	360096	6397465	188.3	12.90	185	823
1194845	360066.1	6397424	320.2	33.28	684	1147
1194846	360037.4	6397393	729.9	18.67	1801	1032
1194847	360008.7	6397345	431.0	21.61	380	807
1194848	359980	6397312	2063.4	42.18	2084	1045
1194849	359951.4	6397261	1595.0	95.72	965	1498
1194850	359923	6397222	741.4	47.11	307	726
1194851	359893	6397179	132.0	27.09	1112	764
1194852	359864	6397140	76.4	10.83	227	771
1194853	359837	6397096	140.5	11.96	858	809
1194854	359806	6397056	112.5	6.91	478	617
1194855	359777	6397017	63.2	10.13	607	824
1194856	359749	6396974	123.5	18.16	321	713
1194857	359718	6396930	111.6	22.25	600	999
1194858	359696	6396894	145.5	13.89	440	854
1194859	359659	6396850	84.6	47.51	2549	3566
1194860	359637	6396822	162.9	19.54	498	1452
1194861	359601	6396771	174.4	20.54	337	1208
1194862	359764	6397856	94.4	13.95	544	646
1194863	359751	6397894	2567.3	75.05	2484	1277
1194864	359786	6397943	848.2	19.72	1333	1049
1194865	359809	6397981	1254.0	63.65	885	1283
1194866	359836	6398017	346.0	13.72	84	979
1194867	359871	6398060	224.4	7.85	124	977

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194868	359892	6398092	147.4	9.58	284	953
1194869	359922	6398140	89.6	8.32	143	918
1194870	359950	6398180	254.5	10.07	137	963
1194871	359981	6398229	176.5	5.23	355	803
1194872	360011	6398269	86.5	14.16	195	811
1194873	639408	6397910	1005.5	9.84	1717	872
1194874	360377	6397874	1415.4	10.62	2771	1140
1194875	630347	6397831	1080.3	15.63	6132	970
1194876	360322	6397794	492.6	6.52	602	848
1194877	360286	6397757	211.7	16.13	456	585
1194878	360268	6397712	73.3	7.12	28	580
1194879	360232	6397668	390.1	13.38	166	669
1194880	360209.5	6397629	807.5	25.05	2978	654
1194881	360178	6397592	478.8	17.81	905	873
1194882	360685	6397610	586.6	9.01	1324	1119
1194883	360657	6397566	407.2	23.87	207	751
1194884	360624	6397528	1623.9	22.81	2379	1217
1194885	360595	6397483	367.6	8.69	1414	1065
1194886	360570	6397443	318	8.57	367	942
1194887	360544	6397401	343.8	20.28	808	1177
1194888	360514	6397362	178	28.2	551	938
1194889	360481	6397320	436.5	25.01	780	853
1194890	360456	6397280	485.8	15.43	278	990
1194891	360427	6397237	404	15.45	427	1079
1194892	360401	6397202	275.1	13.92	288	711
1194893	360371	6397159	3454.6	41.24	6445	782
1194894	360342	6397118	796.3	29.5	302	1044
1194895	360314	6397070	1119.7	43.94	2446	875
1194896	360285	6397033	537.2	22.97	944	692

Table 7: 2011 Soil Samples - Selected Assay Results Page 4

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194897	360257	6396995	1128.3	27.12	3649	846
1194898	360225	6396948	284.5	15.5	131	590
1194899	360198	6396907	303	13.18	419	550
1194900	360171	6396866	253.8	56.71	689	901
1194901	361533	6393988	428.3	34.09	1018	2555
1194902	361579	6394018	165.4	11.24	224	1050
1194903	361621	6394037	321.9	30.35	400	1012
1194904	361660	6394068	178.5	23.26	229	1100
1194905	361707	6394094	183.9	25.54	298	973
1194906	361752	6394119	79.2	8.62	107	686
1194907	361796	6394140	485.6	21.79	727	1361
1194908	361836	6394167	438.2	20.41	424	1052
1194909	361879	6394191	640.7	18.98	960	1156
1194910	361188.7	6393790	132.2	22	222	1179
1194911	361232	6393815	209.6	14.86	153	968
1194912	361275.3	6393840	236.6	20.45	337	1159
1194913	361318.6	6393865	378.5	31.93	624	1453
1194914	361361.9	6393890	270.4	31.19	272	1038
1194915	361405.2	6393915	245.6	24.3	248	776
1194916	361448.5	6393940	255.8	26.46	296	1540
1194917	361491.8	6393965	311.1	28.14	797	1371
1194982	361861	6394649	317	24.98	257	742
1194983	361810	6394623	496.3	15.52	608	1026
1194984	361772	6394598	270.4	21.23	97	846
1194985	361733	6394572	468.6	14	559	1112
1194986	361689	6394545	280.4	24.93	618	1059
1194987	361645	6394518	226.4	29.15	331	970
1194988	361603	6394494	497.5	38.06	207	717
1194989	361554	6394774	100	11.86	231	625

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194990	361508	6394443	73.4	5.37	108	562
1194991	361474	6394472	213.8	17.98	168	776
1194992	361433	6394413	98.8	8.93	91	713
1194993	361384	6394379	134.4	11.91	65	722
1194994	361342	6394342	186.4	16.51	354	841
1194995	361296	6394321	162.3	17.98	234	892
1194996	361254	6394303	128.1	19.9	161	839
1194997	361214	6394273	491.8	40.98	179	878
1194998	361171	6394253	2671.4	198.89	1348	878
1194999	361126	6394227	2046.3	246.97	603	1283
1195000	361081	6394200	614.4	52.45	515	1343
1195001	361038	6394173	189.3	15.73	410	1108
1195002	360996	6394147	655.7	18.58	1866	1238
1195057	357383	6398053	70.2	12.28	142	1318
1195058	357412	6398097	109.9	11.7	209	1964
1195059	357439	6398139	116.2	13.31	138	878
1195060	357467	6398177	131.2	17.75	529	1026
1195061	357494	6398223	112.2	12.23	308	1572
1195062	357523	6398254	1203.6	20.07	1017	2595
1195063	357552	6398305	341.7	16.4	1088	943
1195064	357582	6398342	71.1	10.48	171	1285
1195065	357609	6398382	115.1	11.72	538	836
1195066	357639	6398428	183.3	16.84	834	1974
1195067	357674	6398469	426.9	16.6	655	1463
1195068	357696	6398510	214.1	15.28	216	1375
1195069	357723	6398533	281.5	30.36	1410	2086
1195070	357758	6398591	276.3	17.88	198	5804
1195071	357780	6398633	90.3	11.49	148	907
1195072	357809	6398667	711.9	20	1037	2924

Table 7: 2011 Soil Samples - Selected Assay Results Page 5

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1195073	357845	6398706	456.8	18.8	1132	1632
1195074	357871	6398752	136.6	18.38	145	1196
1195075	357899	6398789	413.6	17.47	2008	3188
1195076	357926	6398832	348.3	11.87	1318	8249
1195077	357956	6398875	387.8	21.88	910	3208
1195078	357987	6398916	28.5	3.95	41	1053
1195079	362006	6394268	294.8	9.9	83	580
1195080	362049	6394292	249.6	7.25	217	496
1195982	358013	6398953	1776.6	18.69	1973	4384
1195983	358039	6398993	3317.2	15.52	1713	1818
1195984	358069	6399038	210	19.92	1061	741
1195985	358094	6399091	1483.1	17.33	1263	2813
1195986	358125	6399117	30.9	3.84	114	770
1195987	358155	6399162	239.7	16.49	276	894
1195988	358183	6399202	880.3	14.76	1899	2366
1195989	358216	6399245	251	12.37	727	1636
1195990	358241	6399284	87.6	7.64	111	708
1195991	358273	6399328	131	20.35	246	958
1195992	358293	6399368	50.1	12.52	88	792
1195993	358325	6399408	44.2	7.04	92	872
1195994	358357	6399450	215.1	12.85	1280	1879
1195995	358386	6399489	199.8	10.49	1076	1887
1195996	358413	6399533	135.1	8.25	545	1307
1195997	358435	6399575	161.9	11.86	284	1454
1195998	358466	6399612	225	12.64	637	1514
1195999	358495	6399657	325	15.7	761	1498
1196000	358527	6399708	1371.5	15.71	2402	1451

Table 8: 2011 Rock Samples – Descriptions

SAMPLE NO	UTM E	UTM N	SUBTYPE	SAMPLER	DATE	LITHOLOGY	MINERALISATION	ROCK DESCRIPTION	STATION	CERTIFICATE NO
1194268	361313	6393947	GRAB	TFS	27-Aug-11	Gunsteel?		Weathered, medium - dark grey, locally prominent pale yellowish - orange - rusty weathering, locally trace calcite bearing, minor graphite bearing, +/- silicified, +/- moderately fissile, knotty - uneven/ rough/ irregular fracture planes bearing, strongly weathered mudstone is overlain (to E) by weathered dirty dark grey, highly calcareous, fossil bearing and prominently fragmental (angular - subround < cm scale fragments), clastic material.	270802	VAN11004918
1194269	361333	6393960	GRAB	TFS	27-Aug-11	Gunsteel?	<mm scale pyrite seams, pyrite coating of fracture planes (indicating sulphide bearing veinlets)	Highly siliceous, +/- prominently rusty weathering, dark grey - black, highly irregularly fracturing, possibly graphite bearing? mudstone. Cut surface reveals a shattered appearing texture (possibly indicating tectonic brecciation?) Locally thin pyrite seams/ coatings on fracture planes indicating sulphide bearing veinlets? OC abandoned because of Simon having an accident.	270803	VAN11004918
1194278	361361	6393941	GRAB	TFS	7-Sep-11	Gunsteel?		Weak - moderate rusty weathering/ rusty coating on fracture plane; weakly -moderately siliceous. Silky grey luster; interpreted as indication of high graphite content.	70905	VAN11004918
1194279	361477	6393947	GRAB	TFS	7-Sep-11	Gunsteel?		Dark grey - black, very weak rusty weathering (locally), weakly silt bearing, graphite bearing, fissile mudstone. Weakly silicified. Interpreted as GSF	70907	VAN11004918
1194280	361575	6399000	GRAB	TFS	7-Sep-11	Gunsteel?		Small OC?, SC? N side of creek (drains approx 10l/s to the SW). Dark grey - predom black, greyish - very weak beige weathering, graphite bearing fissile (foliation/ fissility ori @ 240/65?) feature poor mudstone:part of GSF?	70909	VAN11004918
1194346	358336	6398384	GRAB	SP	19-Aug-11			Black non calcareous mudstone		VAN11004715

Table 9: 2011 Rock Samples – Assay Results

SAMPLE NO	UTM E	UTM N	Zn ppm	Pb ppm	Ag ppb	XRF Ba ppm
1194268	361313	6393947	1591.0	298.56	3315	1393
1194269	361333	6393960	503.6	65.14	577	805
1194278	361361	6393941	50.9	21.73	417	1083
1194279	361477	6393947	37.1	5.01	161	1086
1194280	361575	6399000	54.2	6.78	120	1183
1194346	358336	6398384	27.2	7.3	152	797

Appendix 3: Assay Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Canada Zinc Metals Corp.**
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: August 17, 2011
Report Date: September 30, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11004018.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 9

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	9	Dry at 60C			VAN
SS80	9	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	9	Saving all or part of Soil Reject			VAN
1F04	9	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
4A01	9	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3
Canada

CC: Ken MacDonald
Tanya Strate

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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.
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PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: September 30, 2011

CERTIFICATE OF ANALYSIS VAN11004018.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194261	Silt	31.79	35.89	35.68	128.8	555	62.2	8.2	365	1.87	11.5	3.4	<0.2	3.9	67.7	1.16	3.11	0.14	24	6.05	0.060
1194345	Silt	5.46	19.17	15.40	106.8	143	35.0	10.6	321	1.61	6.3	1.8	<0.2	6.7	81.4	1.07	0.89	0.12	19	3.83	0.182
1194344	Silt	4.04	35.16	15.59	336.8	1031	51.8	6.4	155	1.88	5.2	1.4	0.6	2.4	45.3	2.22	1.84	0.15	28	2.40	0.215
860971	Silt	5.92	38.00	14.82	573.8	494	142.4	11.2	178	2.11	6.8	1.1	0.7	2.0	67.6	8.09	1.79	0.13	37	3.95	0.140
860972	Silt	7.82	31.25	48.37	250.6	1615	97.3	5.4	208	1.40	9.9	1.5	0.5	0.8	103.0	2.92	3.47	0.23	54	11.13	0.112
860973	Silt	6.54	21.87	21.65	328.8	502	76.3	4.6	131	1.26	6.8	1.1	0.4	1.1	81.9	3.61	2.03	0.15	57	9.70	0.120
860974	Silt	6.66	26.91	24.48	309.3	674	95.9	5.4	166	1.44	7.2	1.2	0.4	1.0	70.4	3.47	2.09	0.16	54	6.65	0.133
860975	Silt	25.55	53.95	21.28	556.5	4674	121.2	7.7	188	2.50	23.4	5.4	0.9	3.7	102.1	6.13	5.21	0.20	67	0.89	0.160
860992	Silt	15.28	35.68	18.53	505.3	1022	120.6	11.5	276	2.27	16.3	2.5	1.0	2.8	43.5	5.93	3.33	0.16	60	0.82	0.136

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Project: AKIE
Report Date: September 30, 2011

CERTIFICATE OF ANALYSIS VAN11004018.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194261	Silt	10.3	4.1	2.13	98.2	0.001	<20	0.11	0.002	0.07	<0.1	2.8	0.43	0.06	97	1.1	0.04	0.3	0.50	<0.1	0.05
1194345	Silt	17.7	7.5	0.78	153.3	0.002	<20	0.62	<0.001	0.10	<0.1	1.8	0.20	0.10	35	0.4	0.02	1.4	0.72	<0.1	0.03
1194344	Silt	18.1	9.1	0.93	283.6	0.003	<20	0.37	0.003	0.15	<0.1	3.0	0.20	0.05	160	1.8	0.04	1.0	1.42	<0.1	0.03
860971	Silt	13.5	17.6	0.88	434.4	0.003	<20	0.89	0.004	0.18	<0.1	2.5	0.78	0.09	210	2.1	0.03	2.2	1.31	<0.1	0.06
860972	Silt	6.2	9.8	0.28	278.0	<0.001	<20	0.21	0.004	0.10	<0.1	1.3	1.26	0.11	185	3.1	0.06	0.6	1.41	<0.1	0.07
860973	Silt	6.5	10.4	1.02	242.1	0.002	<20	0.22	0.004	0.08	<0.1	1.5	0.70	0.08	132	1.9	0.05	0.5	0.87	<0.1	0.03
860974	Silt	8.0	11.0	1.04	248.5	0.002	<20	0.26	0.003	0.09	<0.1	1.6	0.65	0.08	217	2.5	0.05	0.6	0.82	<0.1	0.04
860975	Silt	12.5	18.4	0.38	612.3	0.004	<20	0.80	0.002	0.11	<0.1	2.2	0.95	0.10	170	5.0	0.13	1.8	1.83	<0.1	0.02
860992	Silt	16.7	13.5	0.22	489.8	0.002	<20	0.54	<0.001	0.11	<0.1	2.5	0.62	0.06	125	2.5	0.06	1.3	0.93	<0.1	<0.02

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Client: **Canada Zinc Metals Corp.**
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: September 30, 2011

CERTIFICATE OF ANALYSIS VAN11004018.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194261	Silt	0.04	2.4	0.2	<0.05	5.5	13.44	15.9	<0.02	9	0.4	1.3	<10	<2	787
1194345	Silt	<0.02	4.3	<0.1	<0.05	2.0	11.02	32.8	<0.02	4	0.4	10.7	<10	<2	1085
1194344	Silt	0.07	8.9	0.3	<0.05	1.5	16.91	28.3	0.02	6	0.5	4.6	<10	<2	1846
860971	Silt	0.30	11.3	0.3	<0.05	1.7	13.19	23.0	<0.02	2	0.6	12.8	<10	<2	1521
860972	Silt	0.04	4.2	0.2	<0.05	1.4	15.28	9.0	0.02	<1	0.4	2.7	<10	<2	1046
860973	Silt	0.07	4.9	0.1	<0.05	1.1	8.26	10.7	<0.02	5	0.3	2.8	<10	<2	844
860974	Silt	0.09	5.8	0.2	<0.05	1.1	9.47	13.2	0.02	3	0.3	3.4	<10	<2	974
860975	Silt	0.38	8.8	0.2	<0.05	0.9	15.00	22.2	0.04	8	0.7	17.3	<10	<2	3613
860992	Silt	0.15	7.8	0.2	<0.05	0.8	11.69	28.6	0.04	8	0.7	9.7	<10	<2	1924

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Client: **Canada Zinc Metals Corp.**
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Project: AKIE
Report Date: September 30, 2011

QUALITY CONTROL REPORT VAN11004018.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
860972	Silt	7.82	31.25	48.37	250.6	1615	97.3	5.4	208	1.40	9.9	1.5	0.5	0.8	103.0	2.92	3.47	0.23	54	11.13	0.112
REP 860972	QC	7.82	30.29	49.02	255.9	1631	92.0	5.3	200	1.40	9.4	1.5	0.4	0.7	105.0	2.85	3.32	0.16	54	10.82	0.106
860992	Silt	15.28	35.68	18.53	505.3	1022	120.6	11.5	276	2.27	16.3	2.5	1.0	2.8	43.5	5.93	3.33	0.16	60	0.82	0.136
REP 860992	QC																				
Reference Materials																					
STD DS8	Standard	14.99	122.2	139.0	322.2	1895	39.9	7.5	612	2.51	26.8	3.3	113.3	8.0	74.3	2.63	4.83	6.75	42	0.73	0.079
STD OREAS45CA	Standard	0.79	541.5	22.65	62.3	259	263.7	90.6	941	16.31	3.6	1.4	42.0	8.1	15.9	0.08	0.05	0.20	212	0.41	0.040
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18 Expected																					
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08
STD OREAS45CA Expected		1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Project: AKIE
Report Date: September 30, 2011

QUALITY CONTROL REPORT VAN11004018.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																						
860972	Silt		6.2	9.8	0.28	278.0	<0.001	<20	0.21	0.004	0.10	<0.1	1.3	1.26	0.11	185	3.1	0.06	0.6	1.41	<0.1	0.07
REP 860972	QC		6.1	9.7	0.27	299.8	<0.001	<20	0.21	0.003	0.10	<0.1	1.2	1.29	0.11	201	3.0	0.07	0.6	1.41	<0.1	0.05
860992	Silt		16.7	13.5	0.22	489.8	0.002	<20	0.54	<0.001	0.11	<0.1	2.5	0.62	0.06	125	2.5	0.06	1.3	0.93	<0.1	<0.02
REP 860992	QC																					
Reference Materials																						
STD DS8	Standard		18.3	122.4	0.62	301.1	0.115	<20	0.94	0.092	0.42	2.6	2.2	5.66	0.17	187	5.3	5.00	4.7	2.49	<0.1	0.06
STD OREAS45CA	Standard		17.9	734.4	0.16	170.8	0.139	<20	3.90	0.007	0.07	<0.1	40.0	0.12	0.03	28	0.4	0.04	18.5	1.18	<0.1	0.46
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18 Expected																						
STD DS8 Expected			14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD OREAS45CA Expected			15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5
BLK	Blank																					
BLK	Blank																					
BLK	Blank		<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: September 30, 2011

QUALITY CONTROL REPORT VAN11004018.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
Pulp Duplicates																
860972	Silt		0.04	4.2	0.2	<0.05	1.4	15.28	9.0	0.02	<1	0.4	2.7	<10	<2	1046
REP 860972	QC		0.04	4.4	0.1	<0.05	1.5	15.27	8.8	<0.02	4	0.3	2.7	<10	5	
860992	Silt		0.15	7.8	0.2	<0.05	0.8	11.69	28.6	0.04	8	0.7	9.7	<10	<2	1924
REP 860992	QC															1962
Reference Materials																
STD DS8	Standard		0.75	38.9	7.1	<0.05	1.5	6.08	28.5	2.40	64	5.1	27.3	114	358	
STD OREAS45CA	Standard		0.11	8.8	2.0	<0.05	17.5	7.98	34.9	0.11	<1	0.5	8.2	46	63	
STD SO-18	Standard															504
STD SO-18	Standard															493
STD SO-18	Standard															492
STD SO-18	Standard															491
STD SO-18 Expected																515
STD DS8 Expected			1.1	39	6.7	0.003	2.1	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS45CA Expected			0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61	
BLK	Blank															<10
BLK	Blank															<10
BLK	Blank		<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	

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Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: August 30, 2011
Report Date: September 22, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11004343.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	10	Sorting of samples on arrival and labeling			VAN
4A01	10	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN
7AR1	10	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN
7AR.1	1	1:1:1 Aqua Regia Digestion ICP-ES Finish	0.1	Completed	VAN

ADDITIONAL COMMENTS

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: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
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Canada

CC: Ken MacDonald
Tanya Strate

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PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: September 22, 2011

CERTIFICATE OF ANALYSIS VAN11004343.1

	Method	4A	7AR	7AR	7AR	7AR	7AR.1
	Analyte	Ba	Pb	Zn	Ag	Cd	Pb
	Unit	ppm	%	%	gm/t	%	%
	MDL	10	0.01	0.01	2	0.001	0.01
639967	Rock Pulp	169412	2.48	2.06	21	0.190	
639968	Rock Pulp	155492	3.97	2.14	31	0.069	
639969	Rock Pulp	153582	2.98	2.07	29	0.086	
639970	Rock Pulp	152620	>4	1.17	25	0.070	4.75
639971	Rock Pulp	161721	2.69	3.04	21	0.094	
639973	Rock Pulp	198377	2.72	1.11	21	0.103	
639974	Rock Pulp	269199	3.00	1.72	30	0.148	
639975	Rock Pulp	222351	3.57	3.57	36	0.093	
639976	Rock Pulp	216531	2.88	3.58	31	0.063	
639977	Rock Pulp	176911	3.41	2.23	28	0.083	

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Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: September 22, 2011

QUALITY CONTROL REPORT VAN11004343.1

	Method	4A	7AR	7AR	7AR	7AR	7AR.1
	Analyte	Ba	Pb	Zn	Ag	Cd	Pb
	Unit	ppm	%	%	gm/t	%	%
	MDL	10	0.01	0.01	2	0.001	0.01
Reference Materials							
STD CCU-1C	Standard						0.35
STD CZN-3	Standard						0.12
STD GBM997-6	Standard						23.33
STD OREAS153AR	Standard		<0.01	<0.01	<2	<0.001	
STD OREAS131B-A	Standard		1.68	3.07	33	0.008	
STD OREAS153AR	Standard		<0.01	<0.01	<2	<0.001	
STD OREAS131B-A	Standard		1.69	2.97	32	0.008	
STD PTC-1A	Standard						0.05
STD R4A	Standard		1.45	3.26	85	0.018	
STD R4A	Standard		1.45	3.26	85	0.018	
STD SO-18	Standard	871					
STD SO-18	Standard	537					
STD R4A Expected			1.54	3.31	86	0.018	
STD OREAS153AR				0.0051			
STD OREAS131B-A			1.86	3.03	32.1	0.0089	
STD CZN-3 Expected							0.113
STD CCU-1C Expected							0.34
STD GBM997-6 Expected							23.75
STD SO-18 Expected		515					
BLK	Blank		<0.01	<0.01	<2	<0.001	
BLK	Blank		<0.01	<0.01	<2	<0.001	
BLK	Blank						<0.01
BLK	Blank	<10					

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Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: August 31, 2011
Report Date: October 23, 2011
Page: 1 of 5

CERTIFICATE OF ANALYSIS VAN11004714.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 116

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	116	Dry at 60C			VAN
SS80	116	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	116	Saving all or part of Soil Reject			VAN
1F04	116	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
4A01	116	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3
Canada

CC: Ken MacDonald
Tanya Strate

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: AKIE
Report Date: October 23, 2011

CERTIFICATE OF ANALYSIS VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194723	Soil		9.46	32.87	44.53	232.7	471	51.9	5.9	24	2.48	13.7	0.7	2.2	1.8	89.9	0.33	1.37	0.30	77	0.03	0.059
1194724	Soil		5.78	24.21	24.72	161.0	607	27.8	4.1	41	1.73	6.7	0.5	1.4	0.6	37.3	0.24	0.81	0.19	67	0.02	0.052
1194725	Soil		5.55	17.40	16.34	147.6	699	24.9	3.5	28	1.18	7.0	0.3	0.9	0.7	13.9	0.10	0.68	0.17	87	0.01	0.030
1194726	Soil		20.18	9.90	24.82	57.6	1699	10.2	1.4	13	1.07	3.2	0.6	0.7	0.4	20.9	0.20	0.91	0.20	77	0.02	0.035
1194727	Soil		16.56	16.54	10.62	75.2	1139	10.8	1.5	19	1.12	7.1	0.8	0.5	0.2	2.7	0.40	1.03	0.19	139	0.02	0.042
1194728	Soil		12.39	12.59	16.85	16.5	330	7.1	0.8	10	1.13	7.4	1.2	1.1	0.9	13.1	0.07	1.33	0.27	118	<0.01	0.024
1194729	Soil		22.28	25.65	26.48	203.2	868	37.0	5.3	47	2.79	26.9	1.4	1.2	2.3	44.0	0.42	4.56	0.27	143	0.02	0.056
1194730	Soil		64.09	95.40	33.63	150.3	1626	90.3	11.9	238	8.76	85.0	2.4	6.9	2.2	43.8	0.74	2.66	0.47	405	0.02	0.170
1194731	Soil		14.00	11.10	20.92	57.4	877	11.3	1.3	15	0.65	5.1	1.3	0.6	1.0	13.5	0.23	2.88	0.20	108	<0.01	0.021
1194732	Soil		71.64	16.73	42.17	51.3	1943	9.2	1.3	18	3.58	14.8	1.8	1.0	1.1	64.3	0.37	2.66	0.66	140	0.02	0.058
1194733	Soil		13.22	9.53	5.64	86.5	291	13.0	1.3	11	0.56	4.1	0.6	0.8	0.9	6.1	0.45	1.29	0.07	91	<0.01	0.014
1194734	Soil		10.80	8.78	8.52	61.2	410	11.8	1.2	10	0.50	3.4	0.7	0.4	0.6	7.4	0.22	0.94	0.09	85	<0.01	0.013
1194735	Soil		10.41	9.48	9.61	66.3	675	12.6	1.4	13	0.59	4.1	0.7	<0.2	0.7	8.3	0.24	0.55	0.13	93	<0.01	0.013
1194736	Soil		11.77	6.71	6.31	29.9	951	5.7	1.3	27	0.96	4.9	0.4	1.0	1.1	3.5	0.14	0.48	0.16	122	0.02	0.016
1194737	Soil		30.74	28.01	23.70	71.7	557	15.8	2.3	59	3.10	23.2	1.7	0.7	3.0	67.5	0.90	2.03	0.33	211	0.04	0.065
1194738	Soil		53.34	58.12	19.82	331.2	436	76.3	7.3	187	3.69	42.5	4.5	2.1	4.7	35.8	1.46	4.28	0.30	614	0.10	0.055
1194739	Soil		154.4	48.08	31.57	219.3	390	49.5	3.0	25	7.45	66.1	1.4	0.8	2.5	43.8	0.46	4.96	0.28	289	0.02	0.172
1194740	Soil		11.91	7.00	10.01	65.2	161	11.8	0.8	11	0.54	6.7	1.3	0.6	1.9	8.0	0.43	1.22	0.13	129	0.02	0.032
1194741	Soil		4.62	4.52	4.17	36.2	108	5.0	0.3	6	0.23	2.0	0.8	1.2	0.7	5.7	0.45	0.40	0.06	84	0.11	0.011
1194742	Soil		22.15	15.10	14.72	282.1	133	45.4	2.6	50	1.45	14.3	1.6	0.3	3.0	15.3	0.65	2.13	0.13	245	0.08	0.094
1194743	Soil		41.38	28.70	20.76	324.8	1043	68.2	4.5	73	2.68	23.0	2.6	1.9	4.3	23.6	1.27	1.80	0.21	282	0.04	0.103
1194744	Soil		26.72	23.31	25.94	405.2	1055	46.1	2.4	44	1.55	31.7	3.6	0.7	2.6	15.5	2.19	5.07	0.20	588	0.13	0.141
1194745	Soil		18.89	17.90	11.31	193.0	96	33.9	2.5	33	1.24	11.8	1.6	0.6	0.9	7.9	2.37	1.90	0.17	138	0.06	0.059
1194746	Soil		25.08	17.16	9.73	124.2	134	40.3	1.1	11	0.55	6.6	1.7	0.3	0.6	6.2	0.91	1.24	0.13	187	0.02	0.017
1194747	Soil		16.49	43.32	15.06	422.8	793	57.0	4.7	124	1.53	13.7	6.0	1.4	1.3	42.8	5.74	1.84	0.20	137	0.62	0.066
1194748	Soil		9.45	7.36	8.21	49.1	411	11.4	1.7	16	0.56	4.0	0.5	0.4	0.7	7.8	0.54	0.60	0.11	58	0.01	0.013
1194749	Soil		11.97	26.80	9.92	107.7	469	23.4	2.1	98	0.92	8.8	3.3	1.0	0.6	26.9	2.23	1.23	0.18	137	0.27	0.031
1194750	Soil		10.74	12.90	11.22	48.0	177	9.0	0.6	12	0.62	6.8	1.3	0.7	0.7	15.6	0.67	0.92	0.13	70	0.07	0.029
1194751	Soil		5.96	13.96	8.21	65.1	155	8.7	0.8	12	0.56	4.6	1.3	1.0	0.6	10.2	2.12	0.45	0.11	71	0.10	0.040
1194752	Soil		10.88	32.75	8.08	301.6	2111	50.6	3.0	83	1.28	8.8	6.3	4.3	0.9	44.3	3.77	1.78	0.16	195	0.71	0.085

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Project: AKIE
Report Date: October 23, 2011

CERTIFICATE OF ANALYSIS VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194723	Soil		2.8	8.3	0.04	335.7	0.001	<20	0.60	0.015	0.16	<0.1	1.4	0.74	0.26	26	1.5	0.08	3.0	1.87	<0.1	<0.02
1194724	Soil		4.2	9.9	0.04	181.0	0.002	<20	0.64	0.011	0.12	<0.1	0.9	0.60	0.19	23	0.8	0.05	3.6	2.30	<0.1	<0.02
1194725	Soil		4.5	9.7	0.03	148.2	0.002	<20	0.69	0.001	0.06	<0.1	0.9	0.39	0.03	14	0.6	0.06	4.2	1.50	<0.1	<0.02
1194726	Soil		2.5	9.9	0.02	244.8	0.002	<20	0.44	0.004	0.15	<0.1	0.5	0.82	0.26	21	1.7	0.05	3.2	0.90	<0.1	<0.02
1194727	Soil		3.5	12.7	0.02	98.1	0.002	<20	0.55	0.001	0.05	<0.1	0.3	0.18	<0.02	22	0.6	0.13	3.8	0.69	<0.1	<0.02
1194728	Soil		0.8	5.4	0.02	250.1	0.001	<20	0.35	0.006	0.21	<0.1	0.7	0.79	0.34	16	1.5	0.05	1.8	1.32	<0.1	<0.02
1194729	Soil		2.7	8.8	0.04	250.9	<0.001	<20	0.59	0.011	0.22	<0.1	1.6	1.37	0.36	31	7.0	0.12	3.2	2.30	<0.1	<0.02
1194730	Soil		3.9	31.6	0.05	552.2	0.005	<20	0.98	0.008	0.09	0.1	2.9	3.09	0.16	145	4.1	0.30	6.4	1.15	<0.1	<0.02
1194731	Soil		4.6	10.8	0.02	143.3	0.003	<20	0.36	0.001	0.08	<0.1	0.7	0.69	0.08	19	1.2	0.11	3.8	0.87	<0.1	<0.02
1194732	Soil		3.3	17.6	0.02	103.4	0.007	<20	0.39	0.016	0.51	0.1	0.9	6.47	1.24	35	4.6	0.12	3.9	0.78	<0.1	<0.02
1194733	Soil		3.6	7.4	0.02	67.3	0.001	<20	0.39	0.002	0.06	<0.1	0.6	0.49	0.02	<5	1.2	0.06	4.2	1.14	<0.1	<0.02
1194734	Soil		4.0	6.7	0.03	75.9	0.002	<20	0.39	<0.001	0.06	<0.1	0.5	0.55	0.04	9	0.9	0.04	3.9	1.01	<0.1	<0.02
1194735	Soil		3.6	7.5	0.02	90.7	0.001	<20	0.38	0.001	0.06	<0.1	0.6	0.58	0.05	9	0.8	0.04	3.8	0.77	<0.1	<0.02
1194736	Soil		6.1	10.4	0.04	107.5	0.002	<20	0.65	0.003	0.09	<0.1	0.7	0.45	<0.02	15	0.6	0.03	4.1	2.70	<0.1	<0.02
1194737	Soil		4.3	12.6	0.05	298.9	0.003	<20	0.70	0.016	0.28	<0.1	1.4	1.87	0.67	13	2.6	0.08	3.8	1.28	<0.1	<0.02
1194738	Soil		9.0	25.3	0.19	348.5	0.004	<20	0.88	0.005	0.14	<0.1	2.9	1.13	0.12	108	4.8	0.20	3.2	0.85	<0.1	<0.02
1194739	Soil		4.6	14.7	0.04	399.4	0.004	<20	0.62	0.013	0.25	<0.1	1.5	1.60	0.42	26	6.4	0.19	4.2	1.72	<0.1	<0.02
1194740	Soil		9.6	9.7	0.05	88.6	0.002	<20	0.48	0.002	0.07	<0.1	0.6	0.70	0.02	23	0.7	0.06	2.2	0.76	<0.1	<0.02
1194741	Soil		11.4	6.8	0.03	111.8	0.002	<20	0.40	<0.001	0.05	<0.1	0.4	0.49	<0.02	8	0.3	<0.02	2.4	0.48	<0.1	<0.02
1194742	Soil		8.8	17.1	0.08	147.1	0.001	<20	0.71	0.001	0.08	<0.1	1.1	0.65	0.03	23	2.0	0.06	2.2	0.64	<0.1	<0.02
1194743	Soil		8.3	26.3	0.15	184.2	0.002	<20	1.17	0.005	0.11	<0.1	1.8	0.98	0.08	50	4.0	0.10	3.0	0.84	<0.1	<0.02
1194744	Soil		9.8	31.0	0.09	172.0	0.002	<20	0.67	0.003	0.13	<0.1	1.2	0.93	0.06	31	3.7	0.13	2.7	0.74	<0.1	<0.02
1194745	Soil		8.4	13.7	0.06	171.9	<0.001	<20	0.55	0.001	0.09	<0.1	0.8	0.49	0.03	19	1.6	0.05	2.1	0.58	<0.1	<0.02
1194746	Soil		9.2	12.7	0.04	107.3	0.002	<20	0.62	0.002	0.06	<0.1	0.5	0.78	0.03	17	1.0	0.06	3.4	0.65	<0.1	<0.02
1194747	Soil		6.3	15.3	0.09	618.9	<0.001	<20	0.65	0.003	0.12	<0.1	1.7	0.83	0.05	116	1.9	0.10	2.1	0.78	<0.1	<0.02
1194748	Soil		7.7	6.2	0.02	96.5	0.003	<20	0.27	0.001	0.05	<0.1	0.4	0.61	0.04	5	0.5	0.05	3.1	0.59	<0.1	<0.02
1194749	Soil		5.9	12.0	0.09	395.2	0.002	<20	0.51	0.001	0.10	<0.1	1.0	0.80	<0.02	46	1.0	0.06	1.9	0.65	<0.1	<0.02
1194750	Soil		3.8	6.3	0.03	270.7	<0.001	<20	0.28	0.002	0.08	<0.1	0.5	0.62	0.08	23	0.7	0.05	1.3	0.34	<0.1	<0.02
1194751	Soil		7.0	8.8	0.05	524.5	0.001	<20	0.49	0.003	0.08	<0.1	0.6	0.46	0.03	22	0.7	0.02	1.9	0.49	<0.1	<0.02
1194752	Soil		8.7	22.2	0.16	1420	<0.001	<20	0.93	0.004	0.19	<0.1	2.3	1.05	0.06	348	2.3	0.07	2.6	0.97	<0.1	0.03

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CERTIFICATE OF ANALYSIS VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194723	Soil		0.12	14.2	0.6	<0.05	<0.1	4.04	7.1	0.06	2	0.4	1.4	<10	<2	1591
1194724	Soil		0.20	10.3	0.8	<0.05	0.2	1.96	8.7	0.04	<1	0.2	1.1	<10	14	1058
1194725	Soil		0.20	7.6	0.9	<0.05	0.1	1.31	8.4	<0.02	<1	0.1	1.0	<10	<2	1516
1194726	Soil		0.12	7.8	0.9	<0.05	<0.1	1.79	4.5	0.04	2	0.1	1.1	<10	<2	866
1194727	Soil		0.19	4.8	1.0	<0.05	<0.1	1.75	6.9	<0.02	2	0.2	0.7	<10	<2	1173
1194728	Soil		0.14	11.4	0.4	<0.05	0.2	2.06	1.2	<0.02	2	0.2	1.2	<10	12	992
1194729	Soil		0.10	15.2	0.6	<0.05	0.2	3.15	5.8	0.04	4	0.2	1.6	<10	<2	8154
1194730	Soil		0.42	10.3	0.7	<0.05	0.8	14.82	11.3	0.04	5	0.7	4.1	<10	<2	1639
1194731	Soil		0.17	5.4	0.9	<0.05	<0.1	2.97	10.5	<0.02	2	0.1	0.9	<10	<2	776
1194732	Soil		0.28	25.8	1.8	<0.05	<0.1	2.96	7.4	0.07	4	0.1	1.8	<10	<2	1416
1194733	Soil		0.10	6.0	0.6	<0.05	0.2	1.95	6.2	<0.02	3	<0.1	1.0	<10	12	733
1194734	Soil		0.10	5.6	0.7	<0.05	<0.1	1.77	7.4	<0.02	4	<0.1	1.1	<10	<2	670
1194735	Soil		0.09	5.1	0.6	<0.05	<0.1	1.96	6.6	<0.02	2	<0.1	1.0	<10	<2	675
1194736	Soil		0.35	11.7	0.8	<0.05	0.5	1.82	11.8	<0.02	7	0.1	1.2	<10	<2	1000
1194737	Soil		0.29	22.3	0.7	<0.05	0.5	2.38	8.9	0.03	<1	0.3	2.7	<10	<2	1272
1194738	Soil		0.29	9.8	0.6	<0.05	1.3	6.05	17.2	0.05	7	0.6	7.3	<10	<2	1200
1194739	Soil		0.38	13.2	0.6	<0.05	0.7	2.38	8.2	0.04	5	0.3	1.9	<10	<2	1113
1194740	Soil		0.29	9.2	0.4	<0.05	0.3	2.37	18.0	<0.02	2	0.2	2.6	<10	<2	807
1194741	Soil		0.14	3.6	0.3	<0.05	<0.1	1.47	20.3	<0.02	<1	<0.1	1.6	<10	<2	719
1194742	Soil		0.20	7.7	0.4	<0.05	0.9	3.95	17.2	<0.02	1	0.3	7.1	<10	<2	901
1194743	Soil		0.14	9.6	0.5	<0.05	1.4	4.53	16.1	0.03	<1	0.5	8.4	<10	<2	1030
1194744	Soil		0.13	10.6	0.5	<0.05	0.5	6.79	16.9	0.02	6	0.5	6.6	<10	<2	927
1194745	Soil		0.09	7.5	0.4	<0.05	<0.1	3.33	15.8	<0.02	3	0.3	3.7	<10	<2	1220
1194746	Soil		0.21	4.8	0.8	<0.05	<0.1	2.16	16.3	<0.02	5	0.2	2.2	<10	<2	844
1194747	Soil		0.20	11.1	0.4	<0.05	0.7	8.20	12.2	0.03	8	0.7	5.5	<10	<2	1716
1194748	Soil		0.15	4.0	0.6	<0.05	<0.1	1.66	15.0	<0.02	<1	<0.1	0.9	<10	<2	729
1194749	Soil		0.29	9.2	0.4	<0.05	<0.1	4.26	10.8	<0.02	4	0.4	3.3	<10	<2	1480
1194750	Soil		0.08	5.8	0.2	<0.05	<0.1	2.27	7.1	<0.02	6	0.2	1.8	<10	<2	1231
1194751	Soil		0.10	5.6	0.3	<0.05	<0.1	3.24	12.4	<0.02	2	0.2	2.2	<10	15	1458
1194752	Soil		0.22	13.6	0.5	<0.05	0.9	10.79	15.9	0.03	24	0.7	6.7	<10	<2	2931

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	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194753	Soil	9.24	6.24	8.08	47.0	157	9.8	0.9	8	0.47	3.7	0.7	0.2	0.7	4.7	0.42	0.47	0.09	86	0.01	0.009
1194754	Soil	25.07	12.82	9.50	131.9	486	32.3	1.9	15	0.76	7.3	1.1	0.4	0.7	4.9	0.36	0.77	0.10	165	<0.01	0.022
1194755	Soil	8.32	20.94	11.68	134.9	470	27.1	1.5	13	0.75	6.3	2.8	0.9	1.2	25.4	2.61	0.77	0.13	131	0.25	0.037
1194756	Soil	10.40	10.19	11.07	24.3	245	7.6	0.4	4	0.69	7.3	1.0	0.4	0.6	6.0	0.21	0.75	0.17	69	0.03	0.015
1194757	Soil	20.46	5.40	19.67	19.0	488	3.5	0.4	4	0.74	6.8	1.0	0.4	0.9	14.0	0.23	0.48	0.28	76	<0.01	0.018
1194758	Soil	355.4	102.8	31.67	1042	1867	408.7	5.6	26	3.59	110.8	15.8	1.2	6.5	20.7	2.61	37.92	0.21	1871	0.03	0.132
1194759	Soil	22.88	16.80	10.70	143.2	105	28.1	1.8	16	1.10	8.2	1.1	0.7	1.4	8.0	0.41	2.28	0.11	150	<0.01	0.024
1194760	Soil	31.10	25.18	15.31	330.3	266	64.1	3.8	59	2.14	17.8	1.7	2.6	1.6	18.8	2.32	3.28	0.18	257	0.09	0.064
1194761	Soil	41.15	59.30	47.90	297.7	5573	48.6	6.6	93	5.34	31.3	8.4	7.1	8.5	268.1	13.16	10.27	0.41	155	0.13	0.411
1194762	Soil	4.68	5.61	6.24	35.3	590	5.5	0.9	8	0.59	1.9	0.3	1.0	0.8	7.9	0.08	0.74	0.09	70	0.01	0.013
1194763	Soil	6.06	6.43	9.57	37.5	247	6.5	1.0	12	0.66	2.2	0.4	1.9	0.9	5.4	0.23	0.57	0.12	80	0.01	0.009
1194764	Soil	7.17	6.40	4.84	48.1	224	8.0	1.1	9	0.60	3.1	0.4	1.4	0.5	3.5	0.15	0.82	0.06	80	<0.01	0.011
1194765	Soil	20.66	98.97	21.16	401.6	619	132.1	21.0	1433	6.82	16.6	8.1	2.7	3.2	50.4	14.34	1.44	0.23	108	0.27	0.136
1194766	Soil	9.65	11.02	7.66	67.3	434	11.7	1.8	24	0.76	2.9	0.7	1.1	0.3	6.8	1.09	0.97	0.13	92	0.05	0.023
1194767	Soil	23.42	22.17	11.90	77.6	2115	19.4	1.3	16	0.99	5.3	2.0	0.7	0.2	8.3	1.14	3.31	0.19	124	0.13	0.039
1194768	Soil	21.30	36.48	14.08	272.9	486	63.0	11.9	79	3.71	18.3	1.1	1.1	1.1	34.2	0.52	7.11	0.22	108	0.01	0.070
1194801	Soil	16.85	13.13	13.25	63.5	550	11.3	1.9	23	1.43	11.8	0.8	0.7	<0.1	18.7	0.15	1.90	0.14	81	0.02	0.040
1194802	Soil	17.77	26.30	11.28	68.3	277	14.2	1.8	20	1.00	9.0	3.3	1.0	<0.1	22.1	0.73	1.07	0.14	53	0.20	0.054
1194803	Soil	21.23	25.07	11.03	161.6	344	29.2	3.5	29	1.29	7.8	1.2	0.6	0.1	20.0	0.62	1.45	0.13	74	0.16	0.053
1194804	Soil	9.79	20.77	30.71	136.8	624	33.2	5.0	24	1.77	10.1	0.4	<0.2	1.1	37.0	0.11	1.13	0.17	119	<0.01	0.034
1194805	Soil	26.96	60.77	56.61	763.0	1713	85.5	7.3	120	8.76	30.0	1.5	1.6	4.3	58.1	0.61	3.34	0.26	184	0.01	0.206
1194806	Soil	17.38	16.17	23.69	117.1	609	17.3	1.7	14	2.01	9.6	0.4	<0.2	1.5	37.4	0.12	1.56	0.15	157	<0.01	0.034
1194807	Soil	24.20	24.38	15.27	124.6	210	16.3	1.8	14	1.80	10.8	0.5	0.3	0.6	34.6	0.18	2.05	0.16	183	<0.01	0.041
1194808	Soil	51.07	16.17	62.97	32.8	1102	10.1	0.7	9	2.82	16.2	1.4	1.9	1.6	18.3	0.13	1.35	0.44	145	0.01	0.037
1194809	Soil	31.75	16.62	22.11	228.2	388	43.2	2.9	24	1.52	10.3	1.0	0.3	0.4	29.8	0.72	2.84	0.15	185	0.03	0.046
1194810	Soil	34.29	34.82	18.66	243.3	386	48.4	3.5	60	1.70	14.7	3.5	0.8	0.6	39.8	1.87	4.56	0.16	194	0.04	0.082
1194811	Soil	11.58	8.10	12.36	65.5	108	10.5	0.7	6	0.56	4.1	0.7	0.3	0.6	20.1	0.35	1.49	0.10	95	0.01	0.017
1194812	Soil	15.35	32.03	15.86	260.0	834	29.4	2.0	60	0.98	5.2	2.6	<0.2	0.5	32.0	7.77	2.14	0.14	162	0.19	0.041
1194813	Soil	24.44	19.41	16.05	200.2	685	30.4	2.5	57	1.50	13.4	1.7	0.9	0.4	26.2	1.25	3.15	0.17	187	0.03	0.050
1194814	Soil	9.33	6.09	3.96	44.1	128	8.2	0.7	7	0.47	2.7	0.4	<0.2	0.6	5.6	0.27	0.96	0.05	72	<0.01	0.011

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Project: AKIE
Report Date: October 23, 2011

CERTIFICATE OF ANALYSIS VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194753	Soil		4.3	6.2	0.02	85.2	0.001	<20	0.31	0.001	0.06	<0.1	0.4	0.74	0.05	10	0.7	0.05	2.9	0.45	<0.1	<0.02
1194754	Soil		9.5	10.2	0.03	91.3	<0.001	<20	0.43	0.003	0.07	<0.1	0.5	0.87	0.04	12	1.8	0.07	3.3	0.76	<0.1	<0.02
1194755	Soil		6.3	13.4	0.07	684.4	0.001	<20	0.66	0.003	0.10	<0.1	1.3	0.71	0.05	45	1.3	0.05	2.7	0.81	<0.1	0.02
1194756	Soil		1.3	5.0	0.01	199.2	0.001	<20	0.17	0.004	0.13	<0.1	0.5	1.05	0.23	20	1.6	0.03	1.1	0.44	<0.1	<0.02
1194757	Soil		1.8	4.7	0.02	253.3	0.002	<20	0.38	0.004	0.13	<0.1	0.5	1.72	0.23	10	1.7	0.03	2.1	0.43	<0.1	<0.02
1194758	Soil		21.7	55.1	0.06	194.5	0.004	<20	0.75	0.003	0.15	0.2	2.1	4.61	0.07	111	28.6	0.52	5.1	1.24	<0.1	<0.02
1194759	Soil		7.9	5.6	0.02	77.1	<0.001	<20	0.31	0.002	0.06	<0.1	0.5	0.54	0.06	5	1.6	0.06	1.8	0.49	<0.1	<0.02
1194760	Soil		9.5	14.5	0.07	299.7	<0.001	<20	0.68	0.003	0.15	<0.1	1.4	1.19	0.13	35	2.6	0.10	1.8	0.48	<0.1	<0.02
1194761	Soil		15.8	26.5	0.05	70.7	0.002	<20	1.00	0.018	0.70	<0.1	9.0	4.71	1.30	177	43.2	0.25	3.1	2.74	0.2	0.02
1194762	Soil		3.6	4.7	0.02	63.7	0.001	<20	0.36	0.002	0.07	<0.1	0.5	0.32	0.06	15	0.4	0.02	3.3	1.13	<0.1	<0.02
1194763	Soil		4.6	5.7	0.02	58.7	0.002	<20	0.37	0.002	0.04	<0.1	0.4	0.46	0.02	5	0.3	0.03	3.1	0.73	<0.1	<0.02
1194764	Soil		3.9	4.3	0.02	43.3	0.001	<20	0.27	<0.001	0.05	<0.1	0.4	0.32	<0.02	7	0.5	<0.02	3.1	0.86	<0.1	<0.02
1194765	Soil		7.4	20.9	0.10	2065	0.002	<20	1.83	0.005	0.11	<0.1	7.3	0.66	0.16	276	2.0	0.11	2.0	0.81	<0.1	0.06
1194766	Soil		4.0	11.8	0.03	106.4	0.002	<20	0.37	0.002	0.06	<0.1	0.4	0.28	0.03	14	0.4	0.06	2.8	0.48	<0.1	<0.02
1194767	Soil		4.6	20.7	0.02	187.7	0.002	<20	0.30	0.003	0.05	<0.1	0.4	0.20	0.03	35	1.3	0.16	2.0	0.50	<0.1	<0.02
1194768	Soil		2.7	7.9	0.03	141.0	0.001	<20	0.42	0.003	0.14	<0.1	1.6	0.39	0.12	38	3.5	0.08	2.6	1.65	<0.1	<0.02
1194801	Soil		4.9	8.5	0.03	287.4	0.002	<20	0.49	0.007	0.11	<0.1	0.2	0.84	0.15	16	1.2	0.05	3.6	1.07	<0.1	<0.02
1194802	Soil		5.5	11.8	0.04	1249	<0.001	<20	0.59	0.004	0.06	<0.1	0.2	0.42	0.07	42	1.1	0.06	2.8	1.20	<0.1	<0.02
1194803	Soil		4.3	9.6	0.05	751.3	0.002	<20	0.59	0.004	0.08	<0.1	0.5	0.30	0.06	18	0.9	0.07	3.7	1.83	<0.1	<0.02
1194804	Soil		1.7	6.4	0.03	308.8	<0.001	<20	0.70	0.008	0.12	<0.1	1.0	0.82	0.16	16	1.3	0.04	3.3	1.56	<0.1	<0.02
1194805	Soil		2.4	10.0	0.03	328.9	0.002	<20	0.61	0.007	0.13	<0.1	3.6	0.83	0.17	39	13.2	0.13	3.4	2.01	<0.1	<0.02
1194806	Soil		2.8	6.1	0.02	889.1	0.002	<20	0.34	0.006	0.14	<0.1	0.7	0.86	0.24	11	1.7	0.06	4.4	0.91	<0.1	<0.02
1194807	Soil		3.6	6.7	0.02	117.8	0.002	<20	0.46	0.002	0.07	<0.1	1.0	0.47	0.06	12	2.0	0.06	4.4	0.84	<0.1	<0.02
1194808	Soil		2.0	11.7	0.03	247.5	0.002	<20	0.50	0.007	0.42	<0.1	1.0	3.91	0.90	36	3.5	0.12	3.2	1.61	<0.1	<0.02
1194809	Soil		4.5	7.5	0.03	203.8	<0.001	<20	0.44	0.001	0.09	<0.1	0.5	0.81	0.11	8	3.3	0.08	2.6	0.63	<0.1	<0.02
1194810	Soil		4.9	10.8	0.03	334.6	<0.001	<20	0.50	0.002	0.13	<0.1	0.9	0.94	0.14	13	4.4	0.08	1.7	0.76	<0.1	<0.02
1194811	Soil		5.3	4.1	0.02	67.9	0.002	<20	0.28	0.002	0.05	<0.1	0.4	0.56	0.04	9	1.2	0.04	2.1	0.69	<0.1	<0.02
1194812	Soil		7.0	13.5	0.05	334.3	0.002	<20	0.55	<0.001	0.08	<0.1	0.9	0.95	0.04	25	1.5	0.08	2.3	0.76	<0.1	<0.02
1194813	Soil		7.9	11.8	0.07	185.1	0.004	<20	0.57	0.004	0.10	<0.1	0.8	1.23	0.08	20	2.2	0.12	2.5	0.86	<0.1	<0.02
1194814	Soil		7.2	4.0	0.01	51.1	0.002	<20	0.22	0.001	0.04	<0.1	0.3	0.31	<0.02	<5	0.4	0.05	2.1	0.57	<0.1	<0.02

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CERTIFICATE OF ANALYSIS VAN11004714.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194753	Soil	0.07	4.6	0.4	<0.05	<0.1	1.44	7.7	<0.02	3	<0.1	1.0	<10	<2	681
1194754	Soil	0.12	8.2	0.5	<0.05	<0.1	1.95	15.2	<0.02	2	0.1	1.7	<10	<2	825
1194755	Soil	0.41	8.6	0.4	<0.05	0.7	3.80	11.2	<0.02	11	0.4	3.1	<10	<2	1671
1194756	Soil	0.07	5.0	0.3	<0.05	<0.1	1.43	2.4	<0.02	4	0.1	1.2	<10	<2	1047
1194757	Soil	0.08	3.7	0.4	<0.05	0.3	2.36	4.2	<0.02	2	0.1	0.9	<10	<2	831
1194758	Soil	1.86	14.6	1.1	<0.05	2.2	12.73	28.9	0.03	37	0.8	3.9	<10	4	1045
1194759	Soil	0.09	5.0	0.3	<0.05	0.2	1.87	14.1	<0.02	2	0.1	1.3	<10	<2	799
1194760	Soil	0.16	6.7	0.4	<0.05	0.4	6.08	16.9	0.02	5	0.6	5.4	<10	<2	1374
1194761	Soil	0.11	29.3	1.8	<0.05	1.6	20.97	44.9	0.14	5	1.3	8.1	<10	<2	2566
1194762	Soil	0.09	6.1	0.5	<0.05	<0.1	1.15	7.6	<0.02	2	<0.1	0.9	<10	<2	703
1194763	Soil	0.15	4.2	0.5	<0.05	<0.1	1.12	8.9	<0.02	<1	<0.1	0.6	<10	<2	601
1194764	Soil	0.07	4.6	0.4	<0.05	<0.1	1.34	7.4	<0.02	2	<0.1	0.6	<10	<2	617
1194765	Soil	0.15	8.3	0.3	<0.05	2.5	46.95	18.3	0.05	2	3.6	5.7	<10	<2	3154
1194766	Soil	0.16	3.5	0.9	<0.05	<0.1	1.26	7.6	<0.02	<1	0.1	0.6	<10	<2	974
1194767	Soil	0.12	2.9	0.8	<0.05	0.1	1.81	9.1	<0.02	<1	0.2	0.4	<10	<2	874
1194768	Soil	0.10	10.1	0.5	<0.05	<0.1	4.59	5.9	0.03	7	0.3	1.3	<10	<2	958
1194801	Soil	0.07	6.5	0.6	<0.05	<0.1	1.49	8.5	<0.02	2	0.1	0.9	<10	12	1204
1194802	Soil	0.12	5.5	0.5	<0.05	<0.1	2.83	11.1	0.03	<1	0.4	0.7	<10	<2	2174
1194803	Soil	0.17	7.1	0.8	<0.05	<0.1	3.14	8.8	0.02	2	0.3	1.0	<10	<2	1613
1194804	Soil	0.08	10.4	0.5	<0.05	<0.1	2.21	4.1	0.02	2	0.2	1.3	<10	<2	1460
1194805	Soil	0.16	11.5	0.6	<0.05	0.2	9.48	5.9	0.05	3	0.5	1.2	<10	<2	1538
1194806	Soil	0.17	6.6	0.7	<0.05	<0.1	1.96	5.9	<0.02	<1	<0.1	0.8	<10	<2	27189
1194807	Soil	0.17	4.4	0.7	<0.05	<0.1	2.12	7.1	<0.02	<1	0.1	0.7	<10	<2	577
1194808	Soil	0.17	23.8	1.0	<0.05	0.2	2.66	3.8	0.04	6	0.2	1.6	<10	<2	1585
1194809	Soil	0.08	6.5	0.5	<0.05	<0.1	2.46	8.1	<0.02	3	0.2	1.3	<10	<2	854
1194810	Soil	0.14	9.1	0.3	<0.05	0.2	5.15	8.8	0.03	<1	0.5	2.1	<10	<2	1096
1194811	Soil	0.08	5.0	0.3	<0.05	<0.1	1.78	10.5	<0.02	2	<0.1	0.9	<10	<2	614
1194812	Soil	0.25	8.0	0.4	<0.05	0.1	4.12	13.4	<0.02	1	0.3	3.0	<10	<2	1056
1194813	Soil	0.22	8.7	0.4	<0.05	<0.1	3.56	13.9	0.03	2	0.3	3.5	<10	<2	936
1194814	Soil	0.07	2.9	0.4	<0.05	<0.1	1.33	14.1	<0.02	1	<0.1	0.6	<10	<2	579

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	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194815	Soil	7.49	4.17	2.69	43.7	114	6.5	0.6	9	0.39	2.2	0.3	<0.2	0.8	1.9	0.15	0.80	0.04	60	0.01	0.009
1194816	Soil	10.90	6.23	4.98	63.9	91	12.7	1.0	9	0.52	3.2	0.4	0.2	0.8	5.7	0.45	1.18	0.05	103	0.02	0.010
1194817	Soil	13.51	8.88	7.70	90.3	66	17.0	1.2	13	0.67	5.1	0.6	0.3	0.5	9.2	0.34	1.71	0.06	100	0.01	0.018
1194818	Soil	14.89	55.00	10.05	350.1	1752	125.1	5.7	572	0.79	4.1	20.0	2.3	0.4	75.7	11.08	4.31	0.10	94	2.19	0.107
1194819	Soil	54.86	53.26	19.33	1863	678	287.6	4.6	77	1.35	14.5	6.1	0.8	0.4	34.8	18.89	9.62	0.12	252	0.77	0.057
1194820	Soil	13.01	33.43	12.25	351.9	993	91.9	4.7	194	0.90	6.0	6.9	1.4	0.6	46.9	9.31	2.69	0.13	134	1.55	0.083
1194821	Soil	35.21	30.84	10.22	1185	656	141.8	5.1	140	1.46	13.4	4.2	2.0	1.4	22.3	5.78	3.92	0.11	236	0.53	0.074
1194822	Soil	4.83	5.85	5.39	61.0	140	11.3	1.4	14	0.61	2.5	0.4	<0.2	0.5	6.3	0.29	0.67	0.08	38	0.14	0.017
1194823	Soil	5.98	8.56	6.35	85.8	182	15.0	2.2	72	1.05	4.6	0.9	<0.2	0.5	5.8	0.42	1.09	0.09	53	0.22	0.036
1194824	Soil	7.28	8.88	5.48	89.5	172	16.0	2.0	24	0.79	3.4	0.7	0.2	0.4	5.0	1.02	0.95	0.07	48	0.15	0.032
1194825	Soil	2.89	2.72	3.02	28.8	22	4.9	0.5	6	0.19	1.2	0.3	0.4	0.6	2.0	0.33	0.34	0.04	40	0.02	0.020
1194826	Soil	102.3	64.61	25.00	600.9	344	179.6	3.8	90	1.18	27.7	5.6	0.4	1.5	13.6	9.05	21.01	0.11	816	0.27	0.041
1194827	Soil	72.38	100.6	26.94	877.2	1139	177.2	3.4	64	1.29	27.4	10.3	1.7	0.6	33.2	19.58	17.83	0.23	1162	0.76	0.291
1194828	Soil	7.31	14.50	7.73	84.2	125	16.0	0.8	11	0.38	2.5	1.8	0.6	<0.1	10.1	2.22	0.83	0.12	93	0.24	0.050
1194829	Soil	17.83	31.89	9.22	641.5	589	86.7	6.6	407	0.81	5.9	5.5	3.3	0.9	67.3	17.15	3.92	0.18	121	1.76	0.112
1194830	Soil	16.86	32.31	6.70	1235	599	288.4	4.0	189	0.87	5.8	7.1	3.2	0.4	74.1	32.52	3.82	0.13	134	2.60	0.113
1194831	Soil	69.38	29.79	9.57	303.8	76	107.3	3.5	20	1.07	14.3	2.4	1.4	0.2	3.8	0.95	4.23	0.13	205	0.02	0.037
1194832	Soil	62.37	43.65	8.46	757.8	3028	107.9	8.9	47	2.90	15.4	2.0	0.5	<0.1	3.1	1.92	11.58	0.13	302	0.05	0.051
1194833	Soil	46.64	35.18	22.85	331.0	649	59.3	6.3	50	2.49	19.2	1.1	0.7	1.0	30.6	0.45	3.54	0.23	201	0.01	0.053
1194834	Soil	36.49	23.56	26.93	192.8	1558	26.4	2.5	20	1.85	19.4	0.8	<0.2	0.1	37.5	0.76	2.92	0.47	172	0.02	0.062
1194835	Soil	23.86	20.86	20.06	151.7	2116	24.1	1.9	13	2.14	10.3	0.9	0.9	0.1	46.6	1.14	2.08	0.27	91	0.07	0.059
1194836	Soil	13.97	13.35	7.12	147.6	362	25.8	1.9	13	0.75	4.7	0.6	0.6	0.2	8.5	0.61	2.10	0.13	107	0.02	0.031
1194837	Soil	17.20	18.43	15.61	113.5	424	28.3	3.2	23	1.39	10.3	0.9	0.5	0.2	22.8	0.21	1.97	0.20	143	0.02	0.047
1194838	Soil	15.59	30.90	22.31	182.7	520	38.5	3.8	47	2.37	15.7	2.1	2.6	2.1	59.3	0.34	3.01	0.21	105	0.03	0.099
1194839	Soil	5.16	16.93	17.91	122.7	992	21.8	2.9	24	1.36	7.0	0.5	0.9	0.2	11.1	0.15	0.64	0.18	99	0.01	0.045
1194840	Soil	6.69	33.09	26.71	205.1	238	43.5	4.1	25	1.71	9.4	0.7	0.8	0.6	22.6	3.78	1.29	0.20	82	0.03	0.060
1194841	Soil	4.64	23.09	25.39	107.8	1306	20.2	2.1	20	1.38	8.4	0.6	1.0	<0.1	15.0	0.70	1.10	0.27	72	0.02	0.070
1194842	Soil	19.62	51.39	23.19	605.3	839	91.0	3.8	46	1.42	14.3	5.4	1.5	1.9	26.4	5.80	4.70	0.12	332	0.87	0.396
1194843	Soil	17.39	33.63	17.07	540.0	1718	61.4	5.8	441	1.80	16.7	5.5	0.9	0.3	43.2	5.75	2.66	0.19	426	0.58	0.166
1194844	Soil	14.60	15.46	12.90	188.3	185	28.4	1.7	14	0.80	5.9	1.3	0.5	0.5	14.1	0.67	1.81	0.10	137	0.06	0.046

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Project: AKIE
Report Date: October 23, 2011

CERTIFICATE OF ANALYSIS VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194815	Soil		9.4	3.4	0.02	32.9	0.002	<20	0.23	<0.001	0.03	<0.1	0.2	0.40	<0.02	6	0.4	0.03	2.8	0.26	<0.1	<0.02
1194816	Soil		8.9	4.4	0.02	42.0	0.001	<20	0.28	<0.001	0.04	<0.1	0.4	0.35	<0.02	<5	0.5	0.03	2.2	0.64	<0.1	<0.02
1194817	Soil		7.2	4.7	0.02	57.0	0.001	<20	0.25	<0.001	0.04	<0.1	0.4	0.44	<0.02	8	0.9	0.05	2.0	0.48	<0.1	<0.02
1194818	Soil		5.7	7.7	0.13	455.0	0.002	<20	0.44	0.002	0.04	<0.1	1.3	1.06	0.11	259	5.9	0.04	0.8	0.57	<0.1	0.05
1194819	Soil		6.8	14.6	0.04	340.6	0.001	<20	0.44	0.002	0.06	0.2	0.9	2.08	0.03	86	5.5	0.20	2.0	0.66	<0.1	<0.02
1194820	Soil		10.6	9.9	0.07	483.4	0.002	<20	0.40	0.002	0.05	<0.1	1.3	0.48	0.06	195	3.0	0.07	1.2	0.49	<0.1	0.03
1194821	Soil		12.8	15.6	0.11	341.4	0.002	<20	0.50	0.001	0.06	0.1	2.0	0.87	0.02	159	2.4	0.13	1.6	0.46	<0.1	<0.02
1194822	Soil		7.6	4.5	0.04	66.5	0.002	<20	0.25	0.002	0.05	<0.1	0.3	0.14	<0.02	12	0.4	0.02	1.3	0.32	<0.1	<0.02
1194823	Soil		8.3	7.6	0.06	154.8	0.001	<20	0.33	<0.001	0.06	<0.1	0.5	0.23	<0.02	13	0.7	0.03	1.3	0.38	<0.1	<0.02
1194824	Soil		7.4	5.1	0.04	96.7	<0.001	<20	0.28	0.002	0.06	<0.1	0.4	0.17	<0.02	14	0.7	<0.02	1.1	0.30	<0.1	<0.02
1194825	Soil		8.4	4.8	0.02	36.9	<0.001	<20	0.26	<0.001	0.04	<0.1	0.2	0.18	<0.02	6	0.2	<0.02	1.6	0.38	<0.1	<0.02
1194826	Soil		29.0	29.4	0.04	244.9	0.002	<20	0.36	<0.001	0.07	0.2	1.2	2.07	0.02	194	5.9	0.22	2.4	0.46	<0.1	<0.02
1194827	Soil		25.3	66.3	0.09	336.2	0.005	<20	0.69	0.002	0.14	0.2	1.4	2.35	0.05	274	6.9	0.20	3.4	1.22	<0.1	0.02
1194828	Soil		8.2	13.4	0.07	183.6	0.001	<20	0.33	0.001	0.05	<0.1	0.3	0.47	<0.02	20	0.9	0.04	1.9	0.90	<0.1	<0.02
1194829	Soil		6.0	10.1	0.12	936.6	0.002	<20	0.32	0.003	0.05	<0.1	1.6	0.72	0.13	194	4.4	0.04	0.9	0.54	<0.1	0.05
1194830	Soil		5.9	15.5	0.16	572.8	0.001	<20	0.35	0.003	0.04	<0.1	0.9	1.86	0.16	349	5.5	0.06	0.8	0.47	<0.1	0.03
1194831	Soil		8.4	14.2	0.03	65.5	0.002	<20	0.45	<0.001	0.04	0.1	0.4	1.09	<0.02	38	3.0	0.25	3.0	0.89	<0.1	<0.02
1194832	Soil		9.7	18.4	0.02	98.4	0.003	<20	0.41	0.001	0.05	0.1	0.3	0.48	<0.02	33	5.5	0.16	3.4	0.65	<0.1	<0.02
1194833	Soil		6.0	10.5	0.03	151.6	0.003	<20	0.57	0.007	0.11	0.1	1.0	1.00	0.20	21	3.4	0.15	4.2	1.03	<0.1	<0.02
1194834	Soil		7.5	13.9	0.03	223.6	0.005	<20	0.59	0.005	0.11	0.1	0.4	1.40	0.18	23	6.4	0.18	6.4	0.57	<0.1	<0.02
1194835	Soil		2.9	13.0	0.05	520.0	0.001	<20	0.61	0.004	0.29	<0.1	0.4	1.43	0.55	35	3.0	0.10	3.8	1.21	<0.1	<0.02
1194836	Soil		4.0	13.3	0.03	135.9	0.002	<20	0.52	0.001	0.06	<0.1	0.5	0.35	<0.02	13	2.0	0.07	3.6	0.96	<0.1	<0.02
1194837	Soil		3.4	12.0	0.03	688.7	0.002	<20	0.61	0.002	0.10	<0.1	0.4	0.64	0.10	25	1.7	0.12	4.1	0.90	<0.1	<0.02
1194838	Soil		4.6	14.8	0.10	806.7	0.002	<20	0.65	0.007	0.13	<0.1	1.6	1.13	0.19	71	2.8	0.07	2.3	1.44	<0.1	<0.02
1194839	Soil		4.1	12.8	0.05	288.1	0.002	<20	0.91	0.003	0.10	<0.1	0.5	0.35	0.04	27	0.8	0.03	5.4	1.76	<0.1	<0.02
1194840	Soil		3.8	12.1	0.05	252.9	0.001	<20	0.79	0.004	0.09	<0.1	0.8	0.52	0.08	27	1.7	0.09	4.6	1.58	<0.1	<0.02
1194841	Soil		4.0	16.0	0.03	200.8	0.002	<20	0.79	0.002	0.09	<0.1	0.2	0.32	0.05	52	1.0	0.03	4.5	1.96	<0.1	<0.02
1194842	Soil		16.5	58.6	0.08	394.1	0.003	<20	0.85	0.002	0.09	<0.1	2.2	0.65	0.03	150	3.8	0.12	2.5	0.93	<0.1	<0.02
1194843	Soil		14.1	30.3	0.21	1045	0.003	<20	0.95	0.003	0.09	0.1	0.9	0.98	0.05	122	2.6	0.06	3.3	0.98	<0.1	<0.02
1194844	Soil		6.9	13.5	0.04	160.6	0.001	<20	0.50	0.001	0.07	<0.1	0.6	0.61	0.03	16	2.0	0.06	2.6	0.85	<0.1	<0.02

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194815	Soil		0.06	1.5	0.4	<0.05	<0.1	1.19	18.1	<0.02	<1	<0.1	0.6	<10	<2	480
1194816	Soil		0.07	3.3	0.3	<0.05	<0.1	1.25	15.9	<0.02	<1	<0.1	0.9	<10	<2	623
1194817	Soil		0.07	3.7	0.3	<0.05	<0.1	1.42	13.9	<0.02	<1	0.1	1.0	<10	<2	688
1194818	Soil		0.23	4.2	0.3	<0.05	1.6	23.21	11.0	<0.02	17	0.8	1.4	<10	<2	884
1194819	Soil		0.15	5.6	0.6	<0.05	0.2	12.91	11.6	0.03	3	0.5	2.1	<10	<2	964
1194820	Soil		0.22	5.3	0.3	<0.05	1.1	19.37	16.4	0.02	9	0.7	2.8	<10	<2	1209
1194821	Soil		0.37	5.6	0.3	<0.05	0.6	14.47	22.1	0.03	14	0.6	6.5	<10	<2	1337
1194822	Soil		0.14	5.2	0.3	<0.05	<0.1	1.55	15.8	<0.02	<1	0.1	1.6	<10	<2	719
1194823	Soil		0.08	5.8	0.3	<0.05	<0.1	2.58	16.9	<0.02	<1	0.2	2.3	<10	<2	1372
1194824	Soil		0.06	4.4	0.2	<0.05	<0.1	2.37	14.9	<0.02	<1	0.2	1.7	<10	12	820
1194825	Soil		0.03	3.3	0.2	<0.05	<0.1	0.97	16.3	<0.02	<1	<0.1	1.1	<10	<2	697
1194826	Soil		1.64	5.7	0.4	<0.05	0.2	15.08	41.1	<0.02	16	0.6	2.6	<10	5	879
1194827	Soil		0.75	13.3	0.7	<0.05	0.3	31.61	35.6	0.02	12	1.0	8.1	<10	<2	952
1194828	Soil		0.12	5.9	0.4	<0.05	0.8	4.12	14.2	<0.02	1	0.2	1.5	<10	<2	852
1194829	Soil		0.28	4.6	0.3	<0.05	2.5	12.07	10.3	<0.02	4	0.6	2.3	<10	<2	1407
1194830	Soil		0.30	5.8	0.2	<0.05	1.5	13.32	8.5	<0.02	14	0.5	3.3	<10	<2	938
1194831	Soil		0.18	5.5	0.7	<0.05	<0.1	3.78	15.2	<0.02	5	0.2	2.0	<10	<2	647
1194832	Soil		0.10	4.2	1.1	<0.05	<0.1	7.38	19.2	0.02	1	0.3	1.0	<10	<2	540
1194833	Soil		0.23	8.1	0.6	<0.05	<0.1	4.09	12.2	0.02	2	0.3	1.9	<10	<2	674
1194834	Soil		0.16	5.7	1.1	<0.05	<0.1	3.50	16.3	<0.02	<1	0.3	1.7	<10	<2	646
1194835	Soil		0.09	14.2	0.8	<0.05	<0.1	2.00	4.4	<0.02	<1	0.2	2.4	<10	<2	1188
1194836	Soil		0.09	5.0	0.7	<0.05	<0.1	1.78	8.0	<0.02	2	0.1	1.2	<10	<2	554
1194837	Soil		0.13	6.7	0.8	<0.05	0.4	2.31	6.9	<0.02	2	0.2	1.0	<10	<2	1661
1194838	Soil		0.24	12.7	0.3	<0.05	0.3	4.09	9.3	0.04	5	0.4	4.5	<10	<2	3264
1194839	Soil		0.13	11.7	0.9	<0.05	<0.1	2.38	8.1	<0.02	<1	0.3	1.4	<10	<2	1199
1194840	Soil		0.28	8.7	0.7	<0.05	0.2	3.06	7.9	<0.02	<1	0.5	1.9	<10	<2	1082
1194841	Soil		0.23	10.6	0.7	<0.05	0.3	1.90	10.2	<0.02	<1	0.4	0.9	<10	<2	1233
1194842	Soil		0.20	10.8	0.5	<0.05	0.8	24.65	26.0	<0.02	8	0.9	7.7	<10	<2	931
1194843	Soil		0.18	11.7	0.5	<0.05	0.5	14.96	26.1	0.03	2	0.7	10.3	<10	2	1744
1194844	Soil		0.08	7.9	0.3	<0.05	<0.1	3.52	12.3	<0.02	3	0.2	2.2	<10	<2	823

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194845	Soil		41.18	38.36	33.28	320.2	684	60.2	3.4	25	3.27	28.7	4.6	0.5	1.2	150.5	2.48	5.69	0.18	300	0.02	0.132
1194846	Soil		24.36	79.10	18.67	729.9	1801	114.8	4.7	139	1.23	18.7	6.1	1.7	1.3	37.0	10.49	8.18	0.16	382	0.94	0.196
1194847	Soil		26.89	56.37	21.61	431.0	380	84.4	4.6	66	1.33	14.5	4.4	1.2	0.9	28.7	3.91	6.66	0.17	315	0.35	0.083
1194848	Soil		112.3	101.0	42.18	2063	2084	373.2	5.7	158	2.10	41.4	14.9	2.5	0.9	52.6	17.69	17.12	0.16	917	1.19	0.164
1194849	Soil		152.5	95.13	95.72	1595	965	484.5	10.1	274	2.43	48.6	16.6	2.5	3.9	82.2	11.53	12.85	0.14	720	1.92	0.154
1194850	Soil		167.2	76.46	47.11	741.4	307	300.6	6.5	100	2.63	45.5	13.3	0.5	1.0	10.3	1.82	10.31	0.16	913	0.04	0.094
1194862	Soil		33.55	17.66	13.95	94.4	544	35.6	0.7	6	0.44	6.5	2.3	<0.2	0.7	6.4	0.78	2.52	0.08	369	0.04	0.015
1194863	Soil		190.5	105.6	75.05	2567	2484	560.0	6.1	191	1.69	94.5	14.9	3.7	3.3	107.3	17.47	40.44	0.14	1090	3.78	0.207
1194864	Soil		53.09	59.50	19.72	848.2	1333	185.7	5.2	126	1.36	24.5	7.3	1.5	2.9	55.9	9.43	9.89	0.10	474	3.00	0.210
1194865	Soil		157.5	66.21	63.65	1254	885	448.4	6.2	298	1.87	64.8	12.6	2.5	3.0	66.5	13.61	17.22	0.14	711	2.29	0.181
1194866	Soil		33.07	20.86	13.72	346.0	84	73.9	4.2	64	1.46	13.2	2.9	<0.2	1.2	9.0	2.60	1.94	0.12	267	0.09	0.083
1194867	Soil		14.73	14.67	7.85	224.4	124	42.5	3.5	123	1.20	5.5	3.2	0.4	0.6	12.2	3.11	1.45	0.11	93	0.59	0.051
1194868	Soil		21.26	24.21	9.58	147.4	284	62.3	5.6	207	1.61	9.1	3.2	0.8	2.4	20.6	1.96	1.28	0.11	91	2.13	0.070
1194869	Soil		15.93	17.84	8.32	89.6	143	55.6	5.2	199	1.46	6.3	1.6	0.2	2.3	19.4	1.35	1.12	0.10	74	2.17	0.056
1194870	Soil		26.24	25.46	10.07	254.5	137	73.2	6.6	133	1.84	10.9	2.5	0.4	2.5	17.3	1.55	2.31	0.12	119	0.59	0.092
1194871	Soil		11.51	11.07	5.23	176.5	355	27.5	1.9	32	0.62	6.1	2.0	<0.2	1.0	9.6	2.19	1.37	0.08	113	0.40	0.071
1194872	Soil		14.19	17.26	14.16	86.5	195	16.5	1.4	14	0.95	4.8	1.0	<0.2	0.3	34.0	0.69	1.21	0.14	75	0.34	0.044
1194873	Soil		22.20	39.12	9.84	1005	1717	82.6	3.4	67	1.25	15.7	4.0	1.1	0.9	21.3	13.61	7.46	0.15	409	1.02	0.132
1194874	Soil		33.51	75.16	10.62	1415	2771	159.1	5.0	146	1.29	25.3	5.3	3.2	1.2	46.8	20.17	12.41	0.13	478	2.43	0.208
1194875	Soil		52.75	127.1	15.63	1080	6132	138.1	5.2	451	1.39	54.0	10.3	2.5	3.2	86.5	26.98	47.20	0.19	1390	2.41	0.725
1194876	Soil		18.54	842.7	6.52	492.6	602	518.5	6.4	21	1.76	10.6	33.3	0.9	1.6	774.0	16.03	4.61	0.08	748	2.18	0.228
1194877	Soil		24.75	24.86	16.13	211.7	456	42.3	2.8	30	1.56	11.3	1.3	1.8	0.2	16.0	0.39	1.81	0.17	210	0.02	0.040
1194878	Soil		7.41	7.20	7.12	73.3	28	12.0	0.9	12	0.37	2.6	1.1	1.4	0.5	7.3	0.47	0.50	0.07	127	0.03	0.037
1194879	Soil		12.55	37.52	13.38	390.1	166	81.6	3.9	24	1.23	7.3	2.3	0.7	<0.1	11.7	3.23	1.08	0.17	123	0.38	0.116
1194880	Soil		29.59	64.27	25.05	807.5	2978	100.8	5.3	199	1.14	22.6	4.8	2.2	1.4	46.9	19.80	13.47	0.13	442	4.92	0.182
1194881	Soil		18.86	39.53	17.81	478.8	905	77.2	2.8	72	1.04	11.6	3.3	0.8	0.6	32.8	8.20	5.16	0.12	313	1.34	0.135

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Project: AKIE
Report Date: October 23, 2011

CERTIFICATE OF ANALYSIS VAN11004714.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194845	Soil	5.1	21.0	0.03	596.8	<0.001	<20	0.66	0.005	0.17	<0.1	1.8	1.46	0.28	52	6.2	0.16	2.9	1.16	<0.1	<0.02
1194846	Soil	11.5	38.1	0.09	299.3	0.003	<20	0.59	0.003	0.12	<0.1	2.5	0.87	0.06	333	5.6	0.09	2.3	1.15	<0.1	<0.02
1194847	Soil	12.1	34.7	0.05	205.3	0.002	<20	0.42	0.002	0.09	<0.1	1.9	0.73	0.06	122	5.9	0.10	2.0	1.11	<0.1	<0.02
1194848	Soil	12.4	38.5	0.12	514.8	0.002	<20	0.63	0.004	0.14	0.2	2.0	3.75	0.19	476	9.8	0.20	2.7	1.49	0.1	0.03
1194849	Soil	15.3	35.4	0.71	705.3	0.003	<20	0.61	0.007	0.16	0.2	4.1	4.41	0.13	570	9.0	0.20	2.2	1.79	<0.1	0.02
1194850	Soil	6.7	30.1	0.04	132.3	0.002	<20	0.69	0.002	0.10	0.2	1.5	2.11	0.04	114	5.3	0.19	3.2	1.75	<0.1	0.05
1194862	Soil	18.6	17.4	0.03	61.1	0.003	<20	0.36	0.001	0.05	<0.1	0.4	1.69	<0.02	35	1.7	0.09	3.0	1.08	<0.1	<0.02
1194863	Soil	32.3	48.7	1.58	433.3	0.004	<20	0.56	0.007	0.14	0.3	3.6	6.52	0.06	1664	18.9	0.30	3.1	1.39	0.1	<0.02
1194864	Soil	14.4	32.1	1.40	308.7	0.005	<20	0.54	0.006	0.15	0.2	3.1	1.60	0.05	334	5.3	0.13	1.8	1.24	<0.1	<0.02
1194865	Soil	22.8	39.0	0.85	418.1	0.004	<20	0.56	0.005	0.15	0.3	3.4	4.05	0.05	676	9.1	0.25	2.3	1.12	<0.1	0.02
1194866	Soil	10.3	19.0	0.08	158.4	0.001	<20	0.77	0.001	0.07	<0.1	1.1	0.75	<0.02	49	2.4	0.05	2.8	0.68	<0.1	<0.02
1194867	Soil	9.6	12.1	0.12	241.4	0.001	<20	0.55	0.002	0.09	<0.1	1.2	0.57	0.02	58	1.8	0.04	1.7	0.56	<0.1	<0.02
1194868	Soil	15.4	13.9	1.01	161.7	0.001	<20	0.46	0.004	0.08	<0.1	3.7	0.63	0.02	115	1.6	0.03	1.2	0.60	<0.1	<0.02
1194869	Soil	13.1	10.5	0.98	127.9	0.001	<20	0.41	0.004	0.08	<0.1	3.5	0.45	0.03	87	1.6	0.02	1.0	0.49	<0.1	<0.02
1194870	Soil	10.5	15.2	0.10	165.7	0.001	<20	0.58	0.002	0.11	<0.1	2.6	0.58	<0.02	69	2.6	0.05	1.7	0.47	<0.1	<0.02
1194871	Soil	8.4	11.6	0.08	149.9	0.002	<20	0.43	0.002	0.07	<0.1	0.7	0.50	<0.02	38	1.8	0.04	1.7	0.50	<0.1	<0.02
1194872	Soil	5.9	9.3	0.06	161.3	0.002	<20	0.44	0.003	0.10	<0.1	0.7	0.57	0.06	22	3.2	0.05	2.4	1.09	<0.1	<0.02
1194873	Soil	13.3	42.8	0.17	245.4	0.002	<20	0.74	0.002	0.09	<0.1	2.1	0.96	0.04	225	8.1	0.09	2.4	0.71	<0.1	<0.02
1194874	Soil	15.9	40.7	0.82	343.4	0.004	<20	0.62	0.004	0.13	<0.1	3.2	1.17	0.05	425	7.9	0.09	2.1	0.95	<0.1	0.03
1194875	Soil	17.3	105.3	0.24	335.4	0.013	28	0.99	0.005	0.28	0.3	3.5	1.13	0.06	561	13.4	0.28	3.7	2.12	<0.1	0.04
1194876	Soil	8.2	24.6	0.14	719.4	0.002	<20	1.27	0.001	0.04	0.1	6.0	<0.02	0.21	90	8.2	0.07	4.4	0.84	<0.1	<0.02
1194877	Soil	14.9	18.5	0.07	91.7	0.010	<20	1.04	<0.001	0.05	<0.1	0.6	0.53	0.02	35	3.1	0.12	6.6	0.72	<0.1	<0.02
1194878	Soil	9.7	15.1	0.05	54.5	0.003	<20	0.70	0.001	0.05	<0.1	0.5	0.52	<0.02	11	0.7	0.05	3.4	0.75	<0.1	<0.02
1194879	Soil	10.9	38.0	0.10	213.1	0.002	<20	0.81	0.001	0.05	<0.1	0.3	0.32	<0.02	47	3.6	0.10	2.8	0.45	<0.1	<0.02
1194880	Soil	9.6	39.6	2.53	222.2	0.003	<20	0.45	0.006	0.11	<0.1	3.3	0.69	0.06	375	8.3	0.12	1.6	0.84	<0.1	<0.02
1194881	Soil	12.8	30.2	0.38	350.7	0.003	<20	0.57	0.002	0.08	<0.1	1.5	0.70	0.05	130	4.7	0.09	2.1	0.77	<0.1	<0.02

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Project: AKIE
Report Date: October 23, 2011

CERTIFICATE OF ANALYSIS VAN11004714.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194845	Soil	0.08	10.5	0.5	<0.05	<0.1	5.94	10.7	0.04	4	0.6	2.4	<10	<2	1147
1194846	Soil	0.28	9.3	0.6	<0.05	0.8	21.44	19.3	0.02	8	0.9	6.3	<10	<2	1032
1194847	Soil	0.26	9.8	0.5	<0.05	0.4	16.78	19.2	0.02	5	0.5	3.1	<10	<2	807
1194848	Soil	0.53	10.6	0.6	<0.05	1.0	30.40	18.6	0.03	14	1.3	4.7	<10	<2	1045
1194849	Soil	0.67	9.6	0.6	<0.05	1.9	37.01	25.5	0.03	23	1.4	4.1	<10	<2	1498
1194850	Soil	0.15	12.4	0.6	<0.05	1.6	12.76	9.1	0.04	5	1.1	3.6	<10	<2	726
1194862	Soil	0.56	6.4	0.4	<0.05	<0.1	2.84	29.9	<0.02	6	0.1	2.3	<10	<2	646
1194863	Soil	1.84	9.9	0.7	<0.05	1.0	38.67	48.3	0.02	55	1.3	7.5	<10	3	1277
1194864	Soil	0.59	8.5	0.4	<0.05	1.2	25.72	23.8	<0.02	14	0.9	6.0	<10	<2	1049
1194865	Soil	1.11	9.7	0.6	<0.05	1.1	32.55	34.7	0.04	30	1.2	6.5	<10	<2	1283
1194866	Soil	0.18	7.3	0.4	<0.05	0.1	6.93	20.6	0.02	3	0.5	6.8	<10	<2	979
1194867	Soil	0.18	7.3	0.3	<0.05	0.3	9.61	19.0	<0.02	6	0.5	5.2	<10	<2	977
1194868	Soil	0.11	5.4	0.2	<0.05	0.7	23.86	29.5	0.02	<1	0.9	5.9	<10	<2	953
1194869	Soil	0.11	5.4	0.2	<0.05	0.7	18.46	25.2	<0.02	2	0.6	5.7	<10	<2	918
1194870	Soil	0.11	5.9	0.3	<0.05	0.3	11.25	24.3	0.04	5	0.7	8.2	<10	<2	963
1194871	Soil	0.14	6.4	0.3	<0.05	<0.1	6.36	17.1	<0.02	2	0.3	4.1	<10	<2	803
1194872	Soil	0.30	10.8	0.4	<0.05	<0.1	3.15	11.8	<0.02	2	0.3	2.1	<10	<2	811
1194873	Soil	0.35	7.7	0.6	<0.05	0.7	19.29	21.0	0.03	7	0.9	9.8	28	<2	872
1194874	Soil	0.36	9.6	0.6	<0.05	1.5	27.51	23.4	0.02	15	1.1	8.4	<10	2	1140
1194875	Soil	0.36	19.6	0.9	<0.05	2.1	33.47	24.1	0.02	39	1.5	11.8	<10	7	970
1194876	Soil	0.09	5.2	0.3	<0.05	0.9	61.42	23.0	0.29	85	4.9	3.5	<10	<2	848
1194877	Soil	0.25	4.7	1.0	<0.05	<0.1	3.43	28.6	<0.02	<1	0.1	2.9	<10	<2	585
1194878	Soil	0.09	4.4	0.5	<0.05	0.2	3.14	18.3	<0.02	<1	0.2	2.8	<10	<2	580
1194879	Soil	0.07	5.1	0.7	<0.05	0.1	13.35	18.0	0.02	<1	0.4	5.5	<10	<2	669
1194880	Soil	0.18	7.3	0.6	<0.05	1.4	21.54	15.7	<0.02	9	0.9	4.3	<10	4	654
1194881	Soil	0.33	8.2	0.5	<0.05	0.6	16.57	21.3	<0.02	7	0.6	6.0	<10	<2	873

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QUALITY CONTROL REPORT VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																						
1194726	Soil		20.18	9.90	24.82	57.6	1699	10.2	1.4	13	1.07	3.2	0.6	0.7	0.4	20.9	0.20	0.91	0.20	77	0.02	0.035
REP 1194726	QC		19.79	9.45	24.13	55.0	1608	10.0	1.4	12	1.01	3.0	0.6	0.4	0.4	20.0	0.19	0.91	0.19	71	0.02	0.032
1194737	Soil		30.74	28.01	23.70	71.7	557	15.8	2.3	59	3.10	23.2	1.7	0.7	3.0	67.5	0.90	2.03	0.33	211	0.04	0.065
REP 1194737	QC																					
1194817	Soil		13.51	8.88	7.70	90.3	66	17.0	1.2	13	0.67	5.1	0.6	0.3	0.5	9.2	0.34	1.71	0.06	100	0.01	0.018
REP 1194817	QC																					
1194823	Soil		5.98	8.56	6.35	85.8	182	15.0	2.2	72	1.05	4.6	0.9	<0.2	0.5	5.8	0.42	1.09	0.09	53	0.22	0.036
REP 1194823	QC		6.05	8.88	6.52	88.7	185	15.9	2.3	72	1.07	4.4	1.0	0.8	0.4	5.8	0.47	1.09	0.09	54	0.23	0.036
1194829	Soil		17.83	31.89	9.22	641.5	589	86.7	6.6	407	0.81	5.9	5.5	3.3	0.9	67.3	17.15	3.92	0.18	121	1.76	0.112
REP 1194829	QC		17.90	32.88	9.37	641.0	631	88.1	6.7	437	0.81	5.9	5.7	2.5	0.9	64.4	17.18	3.91	0.15	121	1.72	0.113
1194848	Soil		112.3	101.0	42.18	2063	2084	373.2	5.7	158	2.10	41.4	14.9	2.5	0.9	52.6	17.69	17.12	0.16	917	1.19	0.164
REP 1194848	QC																					
1194869	Soil		15.93	17.84	8.32	89.6	143	55.6	5.2	199	1.46	6.3	1.6	0.2	2.3	19.4	1.35	1.12	0.10	74	2.17	0.056
REP 1194869	QC																					
Reference Materials																						
STD DS8	Standard		14.22	104.6	122.4	314.2	1671	37.7	7.3	596	2.38	22.0	2.7	102.5	6.9	62.0	2.23	3.73	6.48	39	0.67	0.073
STD DS8	Standard		12.78	105.0	116.6	300.9	1615	34.9	7.0	563	2.37	20.5	2.8	93.3	5.9	54.6	2.01	4.15	5.84	40	0.65	0.072
STD DS8	Standard		13.39	114.2	131.6	339.6	1705	39.5	8.0	664	2.64	28.0	3.1	117.6	6.8	74.3	2.50	4.88	6.75	44	0.76	0.088
STD DS8	Standard		13.93	109.7	129.8	324.8	1824	37.1	7.3	625	2.53	24.0	2.8	173.1	6.1	63.7	2.25	4.49	5.70	41	0.70	0.078
STD OREAS45CA	Standard		0.80	498.3	19.68	57.3	245	252.1	89.8	881	15.09	3.5	1.2	39.3	6.9	13.9	0.09	0.09	0.18	203	0.39	0.035
STD OREAS45CA	Standard		0.80	463.8	19.59	54.5	252	214.6	81.6	835	13.84	3.2	1.1	38.9	6.5	12.7	0.08	0.14	0.16	185	0.38	0.033
STD OREAS45CA	Standard		0.81	548.3	21.00	64.7	282	253.6	92.8	978	15.74	4.0	1.2	47.1	7.5	16.7	0.11	0.07	0.19	203	0.44	0.040
STD OREAS45CA	Standard		0.89	486.1	18.78	56.0	221	234.9	85.2	891	14.68	3.4	1.1	44.1	6.3	13.7	0.09	0.09	0.15	199	0.40	0.034
STD SO-18	Standard																					
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QUALITY CONTROL REPORT VAN11004714.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																						
1194726	Soil		2.5	9.9	0.02	244.8	0.002	<20	0.44	0.004	0.15	<0.1	0.5	0.82	0.26	21	1.7	0.05	3.2	0.90	<0.1	<0.02
REP 1194726	QC		2.4	8.9	0.02	239.7	0.002	<20	0.40	0.004	0.15	<0.1	0.5	0.78	0.24	17	1.6	0.05	3.0	0.92	<0.1	<0.02
1194737	Soil		4.3	12.6	0.05	298.9	0.003	<20	0.70	0.016	0.28	<0.1	1.4	1.87	0.67	13	2.6	0.08	3.8	1.28	<0.1	<0.02
REP 1194737	QC																					
1194817	Soil		7.2	4.7	0.02	57.0	0.001	<20	0.25	<0.001	0.04	<0.1	0.4	0.44	<0.02	8	0.9	0.05	2.0	0.48	<0.1	<0.02
REP 1194817	QC																					
1194823	Soil		8.3	7.6	0.06	154.8	0.001	<20	0.33	<0.001	0.06	<0.1	0.5	0.23	<0.02	13	0.7	0.03	1.3	0.38	<0.1	<0.02
REP 1194823	QC		8.5	7.4	0.06	156.3	0.001	<20	0.34	0.001	0.06	<0.1	0.5	0.22	<0.02	<5	0.7	0.04	1.4	0.37	<0.1	<0.02
1194829	Soil		6.0	10.1	0.12	936.6	0.002	<20	0.32	0.003	0.05	<0.1	1.6	0.72	0.13	194	4.4	0.04	0.9	0.54	<0.1	0.05
REP 1194829	QC		6.2	10.7	0.12	918.9	0.002	<20	0.32	0.004	0.05	<0.1	1.6	0.74	0.12	208	4.4	0.06	0.9	0.57	<0.1	0.06
1194848	Soil		12.4	38.5	0.12	514.8	0.002	<20	0.63	0.004	0.14	0.2	2.0	3.75	0.19	476	9.8	0.20	2.7	1.49	0.1	0.03
REP 1194848	QC																					
1194869	Soil		13.1	10.5	0.98	127.9	0.001	<20	0.41	0.004	0.08	<0.1	3.5	0.45	0.03	87	1.6	0.02	1.0	0.49	<0.1	<0.02
REP 1194869	QC																					
Reference Materials																						
STD DS8	Standard		13.7	119.9	0.58	279.6	0.101	<20	0.88	0.086	0.40	1.9	2.1	5.42	0.16	183	4.9	4.95	4.6	2.34	<0.1	0.05
STD DS8	Standard		12.9	112.8	0.60	257.3	0.099	<20	0.86	0.086	0.40	2.5	1.9	5.51	0.15	187	5.0	4.65	4.4	2.40	<0.1	0.07
STD DS8	Standard		16.5	126.4	0.67	306.4	0.119	<20	1.00	0.102	0.44	2.5	2.3	5.87	0.17	224	5.7	4.91	5.4	2.62	<0.1	0.05
STD DS8	Standard		14.1	118.5	0.64	295.6	0.101	<20	0.94	0.098	0.43	2.5	2.1	5.60	0.17	202	5.2	5.08	4.8	2.44	<0.1	0.05
STD OREAS45CA	Standard		14.8	733.7	0.13	147.8	0.113	<20	3.64	0.015	0.07	<0.1	36.2	0.11	0.03	29	0.5	0.05	18.3	1.12	<0.1	0.37
STD OREAS45CA	Standard		14.6	684.2	0.13	142.5	0.101	<20	3.27	0.014	0.07	<0.1	32.5	0.11	0.02	32	0.3	0.05	17.8	0.96	<0.1	0.32
STD OREAS45CA	Standard		16.9	770.8	0.15	168.6	0.125	<20	4.02	0.015	0.08	<0.1	39.6	0.08	0.03	18	0.7	0.10	20.5	1.27	<0.1	0.34
STD OREAS45CA	Standard		14.8	747.3	0.14	153.5	0.114	<20	3.68	0.014	0.08	<0.1	33.9	0.10	0.02	29	0.7	0.06	18.3	1.16	0.1	0.27
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					

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Client: **Canada Zinc Metals Corp.**
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PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: October 23, 2011

QUALITY CONTROL REPORT VAN11004714.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
Pulp Duplicates															
1194726	Soil	0.12	7.8	0.9	<0.05	<0.1	1.79	4.5	0.04	2	0.1	1.1	<10	<2	866
REP 1194726	QC	0.12	7.5	0.8	<0.05	<0.1	1.79	4.3	0.04	2	0.1	1.0	<10	<2	
1194737	Soil	0.29	22.3	0.7	<0.05	0.5	2.38	8.9	0.03	<1	0.3	2.7	<10	<2	1272
REP 1194737	QC														1262
1194817	Soil	0.07	3.7	0.3	<0.05	<0.1	1.42	13.9	<0.02	<1	0.1	1.0	<10	<2	688
REP 1194817	QC														671
1194823	Soil	0.08	5.8	0.3	<0.05	<0.1	2.58	16.9	<0.02	<1	0.2	2.3	<10	<2	1372
REP 1194823	QC	0.08	5.5	0.2	<0.05	<0.1	2.71	16.9	<0.02	<1	0.2	2.5	<10	<2	
1194829	Soil	0.28	4.6	0.3	<0.05	2.5	12.07	10.3	<0.02	4	0.6	2.3	<10	<2	1407
REP 1194829	QC	0.27	4.8	0.3	<0.05	2.4	12.38	10.7	0.02	8	0.5	2.6	<10	<2	
1194848	Soil	0.53	10.6	0.6	<0.05	1.0	30.40	18.6	0.03	14	1.3	4.7	<10	<2	1045
REP 1194848	QC														1064
1194869	Soil	0.11	5.4	0.2	<0.05	0.7	18.46	25.2	<0.02	2	0.6	5.7	<10	<2	918
REP 1194869	QC														911
Reference Materials															
STD DS8	Standard	0.72	36.5	6.3	<0.05	1.4	5.41	25.3	2.11	54	4.8	24.7	123	345	
STD DS8	Standard	0.89	36.2	5.7	<0.05	1.4	5.10	24.4	2.22	42	5.0	25.0	111	342	
STD DS8	Standard	1.01	41.9	7.1	<0.05	1.5	6.49	30.3	2.44	62	5.9	29.4	109	344	
STD DS8	Standard	0.94	37.8	6.4	<0.05	1.4	5.49	26.1	2.21	58	5.3	26.9	131	364	
STD OREAS45CA	Standard	0.09	8.9	1.7	<0.05	16.3	7.57	33.2	0.09	<1	0.6	7.2	25	64	
STD OREAS45CA	Standard	0.10	7.8	1.6	<0.05	16.3	7.41	32.5	0.08	<1	0.6	6.1	21	74	
STD OREAS45CA	Standard	0.09	10.4	2.0	<0.05	16.1	8.65	38.0	0.10	<1	0.7	7.6	44	64	
STD OREAS45CA	Standard	0.10	8.5	1.8	<0.05	12.5	7.53	33.6	0.09	<1	0.7	6.8	31	53	
STD SO-18	Standard														480
STD SO-18	Standard														472
STD SO-18	Standard														483
STD SO-18	Standard														495
STD SO-18	Standard														473

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Project: AKIE

Report Date: October 23, 2011

QUALITY CONTROL REPORT VAN11004714.1

		1F Mo ppm 0.01	1F Cu ppm 0.01	1F Pb ppm 0.01	1F Zn ppm 0.1	1F Ag ppb 2	1F Ni ppm 0.1	1F Co ppm 0.1	1F Mn ppm 1	1F Fe % 0.01	1F As ppm 0.1	1F U ppm 0.1	1F Au ppb 0.2	1F Th ppm 0.1	1F Sr ppm 0.5	1F Cd ppm 0.01	1F Sb ppm 0.02	1F Bi ppm 0.02	1F V ppm 2	1F Ca % 0.01	1F P % 0.001
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08
STD OREAS45CA Expected		1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385
STD SO-18 Expected																					
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				

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Project: AKIE
Report Date: October 23, 2011

QUALITY CONTROL REPORT VAN11004714.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD OREAS45CA Expected		15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5
STD SO-18 Expected																					
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				

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Project: AKIE
Report Date: October 23, 2011

QUALITY CONTROL REPORT VAN11004714.1

		1F Nb ppm 0.02	1F Rb ppm 0.1	1F Sn ppm 0.1	1F Ta ppm 0.05	1F Zr ppm 0.1	1F Y ppm 0.01	1F Ce ppm 0.1	1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2	4A Ba ppm 10
STD SO-18	Standard														481
STD SO-18	Standard														486
STD SO-18	Standard														474
STD DS8 Expected		1.1	39	6.7	0.003	2.1	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS45CA Expected		0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61	
STD SO-18 Expected															515
BLK	Blank														<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.2	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank														<10
BLK	Blank														<10
BLK	Blank														<10

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Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: August 31, 2011
Report Date: October 15, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11004715.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 13

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	13	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1F04	13	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
4A01	13	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3
Canada

CC: Ken MacDonald
Tanya Strate

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: AKIE
Report Date: October 15, 2011

CERTIFICATE OF ANALYSIS VAN11004715.1

	Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1195201	Rock	0.56	21.11	23.59	21.29	238.2	474	32.1	6.5	515	1.42	5.5	3.5	<0.2	2.4	51.1	2.44	1.12	0.10	23	6.10
1195202	Rock	0.84	18.23	185.6	41.19	120.9	950	67.2	6.4	23	10.48	76.0	1.6	<0.2	2.4	5.1	1.23	14.62	0.19	13	0.03
1195203	Rock	0.80	12.61	115.3	31.45	125.7	551	59.8	12.0	30	5.37	7.7	3.3	<0.2	4.3	13.4	0.97	1.29	0.27	24	0.03
1195204	Rock	0.82	12.71	70.38	21.54	166.4	219	58.6	7.5	326	8.82	8.5	2.7	<0.2	5.1	6.5	0.41	0.56	0.23	96	0.02
1195205	Rock	1.08	10.20	101.9	31.70	178.8	260	88.5	14.7	84	8.44	70.6	11.4	0.2	6.6	32.8	2.26	2.37	0.27	21	0.05
1195206	Rock	0.80	47.32	143.3	18.82	213.1	1295	39.0	2.9	38	3.54	28.1	11.8	<0.2	3.0	22.9	1.76	6.54	0.11	64	0.18
1195207	Rock	0.92	5.92	49.33	13.66	330.2	593	64.4	17.5	109	2.61	8.5	5.3	<0.2	6.6	11.0	6.91	1.98	0.28	47	0.15
1195208	Rock	0.87	6.56	34.77	17.20	125.5	529	17.9	4.4	134	1.30	12.5	2.5	<0.2	4.7	95.7	1.00	0.89	0.24	31	0.14
1195209	Rock	0.92	5.89	56.12	13.08	139.2	530	32.7	3.7	55	2.21	12.4	2.4	<0.2	3.4	127.6	1.02	1.29	0.14	31	0.24
1194346	Rock	0.66	29.14	11.46	7.30	27.2	152	13.9	0.4	12	0.50	4.6	1.5	<0.2	1.3	8.9	0.04	0.96	0.13	49	0.01
1194347	Rock	0.91	31.28	54.70	8.13	314.6	565	58.5	16.7	232	1.97	7.7	6.4	<0.2	2.8	13.2	3.80	1.49	0.11	21	0.33
1194348	Rock	0.73	19.85	97.81	19.50	147.1	852	78.3	5.6	39	4.59	27.0	7.5	<0.2	4.7	34.7	1.03	2.63	0.14	25	0.06
1194349	Rock	1.23	4.18	41.54	29.52	112.7	790	52.7	8.2	87	5.29	33.5	1.9	<0.2	4.8	14.3	1.37	2.59	0.26	36	0.13

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Project: AKIE
Report Date: October 15, 2011

CERTIFICATE OF ANALYSIS VAN11004715.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1195201	Rock	0.036	4.5	7.5	1.90	65.8	0.002	<20	0.17	0.003	0.15	0.2	3.2	0.12	0.55	79	1.0	0.03	0.4	0.18	<0.1
1195202	Rock	0.007	1.7	4.7	0.09	4.3	0.001	<20	0.33	0.006	0.13	0.6	0.8	0.38	9.58	431	33.9	0.07	1.2	0.54	<0.1
1195203	Rock	0.018	3.0	8.5	0.22	9.8	0.001	<20	0.60	0.008	0.16	<0.1	1.1	0.16	4.90	128	28.1	0.08	1.4	0.75	<0.1
1195204	Rock	0.016	2.9	49.4	2.33	120.5	0.003	<20	3.84	0.003	0.08	<0.1	2.9	0.13	1.44	60	7.1	<0.02	9.7	0.46	<0.1
1195205	Rock	0.040	2.5	11.9	0.38	9.8	0.001	<20	0.90	0.008	0.15	<0.1	1.7	0.44	6.78	147	7.7	0.05	2.2	1.22	0.1
1195206	Rock	0.042	6.3	5.3	0.09	94.4	0.001	<20	0.24	0.002	0.13	0.1	1.0	0.09	1.85	184	24.3	0.11	0.7	0.52	<0.1
1195207	Rock	0.038	8.6	16.1	0.62	234.7	0.001	<20	1.10	0.006	0.19	<0.1	1.7	0.28	0.91	37	14.9	0.07	2.7	1.55	<0.1
1195208	Rock	0.092	14.2	8.2	0.04	968.1	0.002	<20	0.34	0.003	0.16	0.8	1.4	0.13	0.16	113	2.3	0.05	1.0	0.98	<0.1
1195209	Rock	0.117	6.2	9.6	0.06	94.6	0.002	<20	0.36	0.003	0.14	0.3	1.2	0.13	1.02	105	2.5	0.05	0.9	1.07	<0.1
1194346	Rock	0.005	0.7	4.7	0.03	232.9	0.001	<20	0.33	0.005	0.21	<0.1	1.2	0.09	0.11	54	2.0	0.07	0.9	1.08	<0.1
1194347	Rock	0.020	4.2	3.7	0.04	239.0	0.001	<20	0.20	0.003	0.10	0.3	0.8	0.06	0.69	63	6.2	0.03	0.6	0.54	<0.1
1194348	Rock	0.038	4.3	5.0	0.06	18.1	<0.001	<20	0.30	0.003	0.12	0.2	0.8	0.15	3.87	229	18.9	0.10	0.6	0.66	0.1
1194349	Rock	0.040	3.5	13.5	0.48	22.3	0.001	<20	0.89	0.006	0.17	<0.1	1.4	0.16	3.07	66	35.1	0.07	2.4	1.23	<0.1

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Project: AKIE
Report Date: October 15, 2011

CERTIFICATE OF ANALYSIS VAN11004715.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1195201	Rock	0.31	<0.02	4.3	0.5	<0.05	13.1	8.67	8.8	0.02	35	0.3	2.5	13	<2	567
1195202	Rock	0.30	0.03	6.0	0.2	<0.05	10.5	2.34	3.1	<0.02	35	0.2	4.5	<10	<2	3067
1195203	Rock	0.30	<0.02	7.0	0.2	<0.05	12.9	3.52	5.2	<0.02	27	0.3	9.6	<10	<2	3730
1195204	Rock	0.21	<0.02	3.7	0.2	<0.05	9.4	3.71	5.0	<0.02	28	<0.1	128.8	<10	<2	1505
1195205	Rock	0.35	<0.02	7.0	0.1	<0.05	14.4	11.19	4.5	<0.02	16	0.7	20.9	16	<2	4154
1195206	Rock	0.07	<0.02	5.1	0.1	<0.05	5.0	4.22	8.7	<0.02	22	0.2	0.8	<10	<2	2713
1195207	Rock	0.17	<0.02	9.1	0.2	<0.05	8.0	6.80	14.4	0.03	12	0.5	26.9	<10	<2	4644
1195208	Rock	0.10	<0.02	8.1	0.2	<0.05	5.8	7.30	22.7	<0.02	17	0.3	1.7	<10	<2	5691
1195209	Rock	0.16	<0.02	8.2	0.3	<0.05	7.6	9.90	10.7	<0.02	6	0.1	2.1	<10	<2	2970
1194346	Rock	0.04	0.04	10.8	0.2	<0.05	2.3	3.18	1.4	<0.02	18	<0.1	1.6	<10	<2	797
1194347	Rock	0.14	<0.02	4.5	0.1	<0.05	6.0	3.11	5.7	<0.02	28	<0.1	0.9	<10	<2	2589
1194348	Rock	0.20	0.03	5.3	0.1	<0.05	9.3	7.55	6.3	0.02	42	0.3	2.0	19	<2	2476
1194349	Rock	0.24	<0.02	7.8	0.1	<0.05	11.2	3.44	6.1	<0.02	8	0.2	22.2	<10	<2	5631

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Project: AKIE
Report Date: October 15, 2011

QUALITY CONTROL REPORT VAN11004715.1

	Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
1194346	Rock	0.66	29.14	11.46	7.30	27.2	152	13.9	0.4	12	0.50	4.6	1.5	<0.2	1.3	8.9	0.04	0.96	0.13	49	0.01
REP 1194346	QC		28.21	11.56	7.07	28.1	136	13.2	0.4	12	0.51	4.4	1.5	<0.2	1.3	8.7	0.03	0.85	0.13	44	0.01
Reference Materials																					
STD DS8	Standard		12.72	114.0	131.6	313.8	1792	38.2	7.3	571	2.47	24.5	2.9	107.2	7.2	64.2	2.28	3.96	6.75	40	0.68
STD OREAS45CA	Standard		0.77	471.1	22.13	57.5	272	211.2	82.3	851	14.00	2.8	1.3	33.2	7.9	14.7	0.11	0.08	0.18	188	0.40
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected			1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265
STD SO-18 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.15	2.86	4.08	48.5	22	2.7	4.2	587	2.08	0.5	2.1	0.8	7.2	62.6	0.02	<0.02	0.08	38	0.53
G1	Prep Blank	<0.01	0.18	2.67	4.33	52.0	33	2.7	4.5	576	2.09	0.4	2.0	<0.2	7.4	67.2	0.03	<0.02	0.10	39	0.55

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Project: AKIE
Report Date: October 15, 2011

QUALITY CONTROL REPORT VAN11004715.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
1194346	Rock	0.005	0.7	4.7	0.03	232.9	0.001	<20	0.33	0.005	0.21	<0.1	1.2	0.09	0.11	54	2.0	0.07	0.9	1.08	<0.1
REP 1194346	QC	0.004	0.7	4.1	0.02	228.4	0.001	<20	0.29	0.005	0.20	<0.1	1.2	0.08	0.11	54	1.8	0.05	0.8	0.94	<0.1
Reference Materials																					
STD DS8	Standard	0.072	14.9	117.3	0.62	275.3	0.116	<20	0.88	0.088	0.41	2.7	2.1	5.33	0.17	205	5.1	4.92	4.6	2.36	0.1
STD OREAS45CA	Standard	0.034	16.7	635.9	0.13	151.2	0.131	<20	3.15	0.012	0.07	<0.1	35.1	0.06	0.02	30	0.3	0.04	17.5	0.99	0.2
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11
STD SO-18 Expected																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	0.077	16.2	6.5	0.54	167.6	0.142	<20	1.01	0.107	0.51	12.5	2.2	0.34	<0.02	<5	<0.1	0.03	4.9	2.90	0.1
G1	Prep Blank	0.083	17.3	6.8	0.54	172.9	0.143	<20	1.02	0.110	0.51	6.2	2.2	0.32	<0.02	<5	<0.1	<0.02	5.0	2.91	0.2

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Project: AKIE
Report Date: October 15, 2011

QUALITY CONTROL REPORT VAN11004715.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
Pulp Duplicates																
1194346	Rock	0.04	0.04	10.8	0.2	<0.05	2.3	3.18	1.4	<0.02	18	<0.1	1.6	<10	<2	797
REP 1194346	QC	0.04	<0.02	9.7	0.2	<0.05	2.2	2.85	1.3	<0.02	18	0.2	1.7	<10	<2	
Reference Materials																
STD DS8	Standard	0.07	0.84	37.2	6.5	<0.05	1.9	5.55	25.3	2.19	59	4.9	24.4	106	359	
STD OREAS45CA	Standard	0.53	0.29	7.6	1.8	<0.05	21.1	8.18	33.7	0.09	<1	0.8	5.3	58	56	
STD SO-18	Standard															479
STD SO-18	Standard															467
STD DS8 Expected		0.08	1.1	39	6.7	0.003	2.1	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS45CA Expected		0.5	0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61	
STD SO-18 Expected																515
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank															<10
Prep Wash																
G1	Prep Blank	0.09	0.27	43.2	0.6	<0.05	1.4	6.17	27.7	0.02	<1	0.3	29.5	<10	<2	1021
G1	Prep Blank	0.10	0.27	44.6	0.6	<0.05	1.5	6.45	28.6	0.02	<1	0.3	28.8	<10	<2	1072

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Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: September 21, 2011
Report Date: November 24, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS VAN11004918.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

RTRN-PLP Return
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	72	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1F04	72	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
4A01	72	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3
Canada

CC: Ken MacDonald
Tanya Strate

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: AKIE
Report Date: November 24, 2011

CERTIFICATE OF ANALYSIS VAN11004918.1

	Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1194268	Rock	1.36	45.84	95.18	298.6	1591	3315	50.4	1.3	27	1.41	13.2	6.0	<0.2	1.5	10.5	8.17	9.73	0.12	196	0.15
1194269	Rock	1.51	27.68	53.43	65.14	503.6	577	33.1	3.6	53	1.25	5.1	4.7	<0.2	0.7	5.6	3.81	5.83	0.07	114	0.03
1194270	Rock	1.22	4.44	4.52	14.17	18.5	800	24.9	0.5	9	0.24	2.2	1.5	<0.2	2.5	15.6	0.37	1.38	0.16	57	0.11
1194271	Rock	1.91	86.57	94.50	8.12	1445	339	102.6	8.5	51	21.77	38.9	62.6	1.3	3.0	56.9	7.85	1.85	0.16	37	0.23
1194272	Rock	1.73	36.94	2.70	6.10	6.9	360	3.9	0.3	10	0.11	5.1	1.8	<0.2	1.1	3.4	0.05	1.96	0.13	52	<0.01
1194273	Rock	1.78	31.59	39.40	11.55	109.1	234	42.6	3.7	34	1.49	14.8	8.0	1.4	3.5	11.0	0.63	3.20	0.16	45	0.15
1194274	Rock	2.22	38.71	44.98	15.04	100.6	397	37.1	3.1	36	1.68	19.7	7.8	1.7	3.0	8.7	0.49	4.25	0.14	40	0.18
1194275	Rock	2.16	16.85	18.87	16.68	71.1	605	13.7	1.4	28	1.53	10.0	2.7	1.2	6.1	10.4	0.38	2.66	0.24	10	0.22
1194278	Rock	1.40	22.81	10.20	21.73	50.9	417	10.6	0.4	25	0.49	4.7	1.6	0.6	0.3	4.2	0.19	3.82	0.04	102	0.01
1194279	Rock	1.54	9.43	8.48	5.01	37.1	161	6.0	0.5	20	0.51	3.1	1.6	0.7	0.8	10.4	0.37	0.68	0.11	47	0.03
1194280	Rock	1.09	17.13	17.77	6.78	54.2	120	16.6	2.2	17	1.08	11.9	1.5	2.0	1.7	10.2	0.26	0.64	0.18	26	0.04
1194285	Rock	0.93	29.04	12.18	4.71	80.8	167	18.4	0.7	19	0.57	4.3	4.2	0.5	1.3	3.7	0.87	1.88	0.05	62	0.03
1194286	Rock	1.41	49.98	95.10	46.81	286.0	924	79.9	5.3	478	4.07	29.5	12.6	<0.2	3.1	183.2	2.50	4.11	0.14	53	15.89
1195188	Rock	2.39	11.46	39.29	13.11	276.1	674	42.9	9.5	261	1.81	6.5	3.3	0.3	3.9	124.5	5.43	2.48	0.17	35	6.10
1195189	Rock	4.08	15.19	73.07	23.23	182.9	985	46.9	9.4	133	3.10	12.1	3.7	0.2	6.2	24.0	3.01	3.76	0.38	28	0.76
1195190	Rock	3.50	42.64	39.12	28.90	117.9	1467	25.7	2.9	35	2.51	22.5	5.7	2.0	7.9	14.6	0.81	7.00	0.34	59	0.12
1195191	Rock	1.89	76.28	39.69	23.35	224.4	2477	49.6	1.9	41	2.13	44.8	11.7	1.7	5.0	93.8	2.66	16.46	0.19	378	1.12
1195192	Rock	3.37	23.43	75.70	19.23	791.1	1875	69.9	7.4	145	3.09	22.4	6.9	1.8	5.9	100.5	13.61	8.40	0.22	209	1.97
1195193	Rock	1.50	20.51	41.16	14.47	625.3	1262	39.9	3.1	51	2.06	14.1	4.5	1.0	5.5	29.2	7.33	5.59	0.23	54	0.41
1195194	Rock	1.74	15.44	26.94	12.25	430.1	1413	35.4	6.0	144	1.61	11.4	3.2	1.9	4.6	23.7	5.08	6.05	0.17	39	0.26
1195195	Rock	1.71	32.10	26.23	11.08	422.1	1124	50.7	8.2	259	1.52	15.1	4.9	0.8	4.1	23.1	4.30	6.27	0.17	76	0.26
1195196	Rock	2.74	32.51	107.0	10.45	1731	2379	69.7	2.7	135	0.78	41.9	14.3	0.6	3.0	420.1	52.71	16.86	0.09	1821	7.80
1195197	Rock	3.60	31.35	86.23	8.80	1444	1956	67.0	5.0	151	0.73	34.6	10.0	0.8	2.4	325.6	38.28	14.07	0.06	1348	5.92
1195198	Rock	5.41	74.54	84.09	10.65	1473	1784	91.2	6.7	260	0.87	43.1	12.5	1.2	3.5	234.7	27.78	13.40	0.08	1520	4.21
1195199	Rock	6.40	72.08	91.07	9.94	1375	1846	83.6	4.1	134	1.04	46.0	11.8	0.6	3.6	210.3	25.80	12.97	0.09	1243	3.35
1195200	Rock	2.96	28.64	31.02	10.36	256.5	283	42.8	6.9	251	1.43	14.7	5.9	0.5	2.9	15.2	1.69	3.17	0.13	83	0.52
1195301	Rock	3.17	35.64	40.85	10.66	247.1	247	57.8	11.8	375	1.34	15.9	8.2	0.8	2.9	8.2	1.85	2.81	0.14	97	0.14
1195302	Rock	1.94	30.00	38.53	13.86	144.2	221	41.4	3.4	31	1.52	10.4	7.9	<0.2	2.7	15.9	0.51	2.77	0.13	110	0.37
1195303	Rock	2.54	15.55	6.47	6.62	38.6	204	13.1	1.3	37	0.47	8.1	2.2	1.9	1.7	8.4	0.23	2.15	0.10	91	0.28
1195304	Rock	2.44	18.48	15.69	7.94	57.8	225	23.3	2.4	41	0.79	8.9	3.2	0.3	2.3	9.8	0.39	2.15	0.11	95	0.79

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Project: AKIE
Report Date: November 24, 2011

CERTIFICATE OF ANALYSIS VAN11004918.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1194268	Rock	0.025	0.9	11.0	0.04	576.9	0.001	<20	0.39	<0.001	0.13	0.1	2.2	0.52	0.13	743	9.3	0.13	2.2	0.91	<0.1
1194269	Rock	0.009	2.0	6.3	0.02	288.2	0.001	<20	0.20	<0.001	0.06	<0.1	0.9	0.23	0.06	34	4.9	0.04	0.6	0.41	<0.1
1194270	Rock	0.005	16.6	5.1	0.04	702.2	0.002	<20	0.24	0.001	0.21	<0.1	0.6	0.28	0.04	349	0.3	0.04	0.6	0.09	<0.1
1194271	Rock	0.111	7.4	7.6	0.18	451.2	0.002	<20	0.58	0.001	0.08	<0.1	1.4	0.30	0.11	43	3.4	0.07	1.1	0.58	<0.1
1194272	Rock	0.002	10.3	3.1	0.02	419.1	0.002	<20	0.18	<0.001	0.11	<0.1	0.4	0.08	<0.02	86	3.4	0.09	0.5	0.26	<0.1
1194273	Rock	0.050	5.4	3.5	0.13	345.3	<0.001	<20	0.58	<0.001	0.11	<0.1	0.9	0.23	0.21	83	6.7	0.08	0.6	0.56	<0.1
1194274	Rock	0.051	4.2	4.1	0.10	280.6	<0.001	<20	0.46	<0.001	0.12	<0.1	0.9	0.22	0.49	62	7.4	0.09	0.6	0.43	<0.1
1194275	Rock	0.026	17.3	3.7	0.14	319.8	<0.001	<20	0.39	0.004	0.19	<0.1	1.1	0.24	0.08	62	2.1	0.07	0.8	0.64	<0.1
1194278	Rock	0.011	<0.5	5.2	0.04	730.5	<0.001	<20	0.08	<0.001	0.04	0.1	0.5	0.22	0.09	218	3.5	0.06	0.5	0.25	<0.1
1194279	Rock	0.011	<0.5	4.6	0.02	279.9	<0.001	<20	0.25	0.003	0.14	<0.1	0.9	0.12	0.07	56	1.4	0.06	0.8	0.76	<0.1
1194280	Rock	0.017	0.7	6.9	0.06	200.1	0.001	<20	0.48	0.005	0.31	<0.1	2.7	0.31	0.09	60	3.3	0.07	1.7	1.40	<0.1
1194285	Rock	0.013	6.0	3.7	0.03	118.2	0.001	<20	0.15	<0.001	0.08	<0.1	0.4	0.17	0.03	66	4.9	0.06	0.4	0.14	<0.1
1194286	Rock	0.062	7.2	7.0	0.22	19.2	0.003	<20	0.28	<0.001	0.20	<0.1	2.0	0.37	3.90	206	7.0	0.05	0.8	0.60	<0.1
1195188	Rock	0.063	5.9	9.9	1.66	279.8	0.001	<20	0.73	0.004	0.16	<0.1	1.6	0.15	0.59	70	8.1	0.05	1.8	1.02	<0.1
1195189	Rock	0.044	5.4	14.6	0.79	252.2	<0.001	<20	1.21	0.004	0.18	<0.1	1.8	0.22	0.99	107	5.0	0.04	2.5	1.52	<0.1
1195190	Rock	0.080	11.3	10.9	0.24	323.4	<0.001	<20	0.68	0.003	0.19	<0.1	1.7	0.41	0.25	170	10.6	0.12	1.8	1.98	<0.1
1195191	Rock	0.414	12.8	27.2	0.36	506.7	0.003	<20	0.90	<0.001	0.31	<0.1	2.2	0.38	0.48	327	40.1	0.35	2.6	2.38	0.1
1195192	Rock	0.308	9.2	18.1	0.68	65.7	0.002	<20	0.72	0.004	0.25	<0.1	2.2	0.25	1.99	210	27.6	0.07	2.1	2.02	<0.1
1195193	Rock	0.140	14.2	10.0	0.30	453.5	0.001	<20	0.73	0.005	0.23	<0.1	1.6	0.15	0.12	104	15.4	0.12	1.8	1.49	<0.1
1195194	Rock	0.117	11.4	8.0	0.22	753.4	0.001	<20	0.48	0.004	0.18	<0.1	1.3	0.13	0.11	121	11.5	0.06	1.3	1.09	<0.1
1195195	Rock	0.098	12.8	9.6	0.24	421.0	0.001	<20	0.56	0.004	0.20	<0.1	1.2	0.16	0.13	134	10.6	0.11	1.5	1.21	<0.1
1195196	Rock	1.256	29.4	89.0	1.88	593.8	0.011	<20	0.94	<0.001	0.34	0.2	2.9	0.31	0.10	571	28.2	0.12	2.8	2.31	0.1
1195197	Rock	0.707	19.3	57.8	1.38	492.7	0.007	<20	0.70	<0.001	0.26	0.1	2.2	0.27	0.08	427	21.0	0.14	2.1	1.78	<0.1
1195198	Rock	0.370	19.6	48.3	0.95	494.5	0.007	<20	0.65	<0.001	0.26	0.2	2.5	0.44	0.10	540	24.7	0.16	2.0	1.93	<0.1
1195199	Rock	0.391	18.1	44.8	0.98	469.0	0.006	<20	0.68	<0.001	0.26	0.1	2.4	0.50	0.11	534	26.2	0.14	2.2	1.89	<0.1
1195200	Rock	0.051	9.1	5.6	0.27	370.5	<0.001	<20	0.33	0.001	0.13	<0.1	1.2	0.20	0.07	154	5.8	0.08	0.8	0.63	<0.1
1195301	Rock	0.041	10.2	5.7	0.11	354.1	0.001	<20	0.33	0.001	0.15	0.1	1.0	0.19	0.07	114	4.6	0.10	0.8	0.78	<0.1
1195302	Rock	0.089	10.5	7.3	0.08	297.7	0.001	<20	0.39	<0.001	0.16	<0.1	1.0	0.34	0.05	90	24.9	0.11	0.9	0.81	<0.1
1195303	Rock	0.009	10.4	7.0	0.09	274.6	<0.001	<20	0.26	0.001	0.16	<0.1	0.7	0.27	0.05	91	6.3	0.08	0.7	0.64	<0.1
1195304	Rock	0.018	10.8	6.2	0.09	275.8	<0.001	<20	0.30	0.001	0.17	<0.1	0.9	0.27	0.03	161	7.2	0.06	0.8	0.74	<0.1

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Project: AKIE
Report Date: November 24, 2011

CERTIFICATE OF ANALYSIS VAN11004918.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194268	Rock		0.06	0.05	6.2	0.5	<0.05	3.0	4.59	1.6	0.02	43	0.8	1.4	<10	<2	1393
1194269	Rock		<0.02	0.03	3.3	0.2	<0.05	1.3	13.05	3.1	<0.02	18	0.4	0.8	<10	<2	805
1194270	Rock		0.41	<0.02	4.9	0.1	<0.05	13.4	2.95	25.9	<0.02	28	0.1	1.7	15	3	4682
1194271	Rock		0.12	<0.02	4.7	0.1	<0.05	6.8	26.90	11.2	0.02	13	0.3	6.7	<10	3	4151
1194272	Rock		0.08	0.02	5.2	0.2	<0.05	3.8	1.57	15.1	<0.02	53	0.2	0.9	<10	<2	3213
1194273	Rock		0.18	<0.02	4.8	0.1	<0.05	9.0	4.86	9.2	<0.02	48	0.3	3.5	<10	4	3314
1194274	Rock		0.17	<0.02	4.9	0.2	<0.05	8.1	5.19	7.2	<0.02	57	0.2	2.3	<10	<2	3247
1194275	Rock		0.13	<0.02	7.3	0.2	<0.05	7.1	4.00	28.4	<0.02	26	0.3	2.7	<10	5	5372
1194278	Rock		<0.02	<0.02	2.0	0.2	<0.05	1.3	1.77	0.7	<0.02	18	<0.1	0.5	<10	<2	1083
1194279	Rock		0.03	<0.02	6.9	0.2	<0.05	1.6	2.11	0.7	<0.02	16	0.4	1.2	<10	4	1086
1194280	Rock		0.08	0.02	14.0	0.3	<0.05	3.3	4.22	1.3	0.02	25	0.4	2.3	<10	3	1183
1194285	Rock		0.04	<0.02	3.2	0.2	<0.05	2.4	3.14	8.0	<0.02	49	0.1	0.9	<10	<2	852
1194286	Rock		0.38	0.03	7.4	0.1	<0.05	21.9	20.74	10.0	0.05	111	0.3	3.0	<10	<2	1556
1195188	Rock		0.16	<0.02	8.1	0.2	<0.05	8.8	12.83	11.3	0.02	16	0.5	15.5	<10	2	2739
1195189	Rock		0.17	<0.02	9.0	0.2	<0.05	9.8	9.44	9.0	0.03	20	0.4	26.2	<10	<2	3841
1195190	Rock		0.12	0.03	9.4	0.4	<0.05	7.0	8.04	17.1	0.03	99	0.2	8.3	<10	3	4319
1195191	Rock		<0.02	<0.02	18.5	0.4	<0.05	1.5	20.06	17.5	0.04	150	0.6	8.5	<10	7	2921
1195192	Rock		<0.02	0.02	15.0	0.3	<0.05	3.5	19.99	14.1	0.04	68	0.4	8.9	<10	3	3233
1195193	Rock		0.05	0.05	11.3	0.3	<0.05	3.3	11.48	22.5	0.02	50	0.3	8.7	<10	<2	3722
1195194	Rock		0.03	<0.02	8.9	0.2	<0.05	2.8	8.58	18.4	0.03	21	0.3	5.8	<10	5	3572
1195195	Rock		0.04	0.04	9.1	0.3	<0.05	3.7	8.88	19.2	<0.02	42	0.4	6.3	<10	3	3289
1195196	Rock		<0.02	0.12	25.1	0.5	<0.05	0.8	49.35	29.9	<0.02	162	0.7	9.1	<10	10	1019
1195197	Rock		<0.02	0.08	18.3	0.4	<0.05	0.9	31.87	20.3	<0.02	143	0.7	7.1	<10	6	855
1195198	Rock		<0.02	0.10	18.4	0.4	<0.05	1.2	23.21	23.1	<0.02	211	0.6	6.4	<10	2	1148
1195199	Rock		<0.02	0.09	18.0	0.4	<0.05	0.9	23.26	21.8	<0.02	208	0.6	8.8	<10	3	1292
1195200	Rock		0.10	<0.02	6.5	0.2	<0.05	5.9	5.22	15.0	0.02	25	0.2	4.4	<10	3	2298
1195301	Rock		0.08	<0.02	7.1	0.2	<0.05	5.2	6.74	16.9	0.03	35	0.2	2.7	<10	3	2447
1195302	Rock		0.07	<0.02	8.0	0.3	<0.05	5.0	8.24	16.9	<0.02	70	0.2	1.6	<10	<2	2319
1195303	Rock		0.10	<0.02	6.8	0.2	<0.05	6.2	2.99	16.7	<0.02	28	0.2	1.4	<10	8	2428
1195304	Rock		0.10	<0.02	7.8	0.2	<0.05	5.6	3.39	17.7	<0.02	31	0.2	1.5	<10	4	2122

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	Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1195305	Rock	3.02	17.56	9.90	5.09	45.3	207	17.5	1.8	66	0.62	6.9	1.7	<0.2	1.6	14.7	0.24	2.47	0.10	70	1.26
1195307	Rock	6.89	12.16	13.89	5.01	59.7	172	10.5	1.3	21	0.59	7.2	2.1	0.4	1.9	5.5	0.75	2.12	0.09	78	0.07
1195308	Rock	6.39	10.70	7.21	19.07	28.2	310	6.9	0.8	13	0.65	7.1	1.2	<0.2	2.0	7.4	0.33	1.91	0.22	34	0.06
1195309	Rock	6.69	5.12	3.63	22.24	6.9	228	1.7	0.4	10	0.54	10.5	0.5	2.2	2.7	5.1	0.11	1.75	0.29	10	0.03
1195310	Rock	2.38	35.02	97.00	7.00	1861	2594	38.8	2.7	139	0.68	30.6	14.6	0.6	2.3	326.5	50.88	12.02	0.09	1562	6.49
1195311	Rock	2.68	52.94	84.12	7.26	2220	2264	64.3	10.9	432	0.74	27.9	15.1	1.2	2.1	233.3	51.86	11.53	0.06	1249	5.44
1195312	Rock	3.96	43.07	98.25	13.38	1062	1118	51.3	6.1	216	2.71	23.4	9.4	0.9	4.4	96.5	26.10	8.68	0.17	301	2.02
1195313	Rock	4.50	28.04	81.51	23.69	184.4	1884	55.8	8.6	55	3.62	16.7	6.3	0.5	8.1	31.8	1.82	8.08	0.36	52	0.40
1195314	Rock	4.64	19.90	90.28	24.31	211.1	1523	68.9	16.0	131	4.51	15.5	4.0	0.3	7.3	8.4	1.95	6.55	0.26	17	0.15
1195315	Rock	4.73	39.54	62.96	18.24	265.7	1461	99.0	15.4	178	5.66	27.3	6.4	0.7	5.3	7.4	2.78	7.41	0.24	62	0.19
1195316	Rock	3.57	4.72	39.99	12.84	468.5	710	63.6	16.6	251	2.74	4.1	3.7	1.1	6.6	17.0	6.68	3.51	0.25	46	0.28
1195317	Rock	2.46	3.71	42.68	13.10	405.9	685	58.8	12.2	219	2.93	5.6	3.6	0.8	6.7	18.3	6.59	3.06	0.26	50	0.21
1195318	Rock	1.78	3.55	37.35	12.58	390.7	627	57.3	10.9	135	2.74	4.5	4.1	0.2	6.6	18.0	6.93	3.03	0.26	50	0.24
1195319	Rock	2.34	40.93	20.62	17.69	163.9	623	31.8	1.4	26	1.40	15.0	3.3	0.3	4.7	7.9	0.38	11.51	0.19	38	0.32
1195320	Rock	2.10	28.05	25.46	14.41	213.9	679	33.7	2.6	32	1.88	13.0	3.2	0.6	5.4	6.9	0.79	10.78	0.20	32	0.17
1195321	Rock	3.25	17.58	37.41	10.71	212.7	667	28.6	4.7	81	1.14	5.8	5.1	<0.2	4.0	24.2	1.57	7.64	0.14	126	1.12
1195322	Rock	2.01	22.39	65.91	10.47	363.9	741	48.4	15.3	153	1.26	5.6	6.1	0.4	4.3	13.3	5.74	7.27	0.14	116	0.41
1195323	Rock	2.30	12.56	14.64	18.88	99.8	205	19.4	2.2	38	1.27	6.7	1.3	1.9	4.4	6.4	0.18	1.70	0.43	6	0.17
1195324	Rock	3.48	17.60	40.03	22.74	182.3	237	43.8	9.5	45	2.40	10.3	3.4	1.9	8.3	5.0	0.75	2.22	0.35	8	0.06
1195325	Rock	2.09	9.39	16.48	18.97	53.8	181	21.7	3.5	43	1.83	6.7	1.3	1.8	6.7	4.2	0.13	0.92	0.28	9	0.05
1195326	Rock	2.66	31.34	20.55	19.81	201.0	237	38.0	8.7	157	1.97	11.7	5.1	0.9	5.5	18.1	0.65	1.53	0.23	10	0.75
1195327	Rock	3.82	7.73	52.07	15.63	69.9	481	24.4	4.9	64	1.90	9.3	3.8	1.3	5.4	12.7	0.78	2.61	0.25	40	0.17
1195328	Rock	2.91	13.04	99.61	14.16	116.1	618	29.2	2.8	49	2.00	13.8	5.2	0.6	5.5	20.5	1.63	3.80	0.20	87	0.15
1195329	Rock	1.57	7.50	36.63	16.72	242.4	450	57.0	14.0	237	2.62	11.3	2.3	1.0	6.3	19.3	5.33	2.62	0.25	30	0.73
1195330	Rock	2.12	10.25	29.68	14.82	318.3	271	56.9	11.1	905	4.15	8.9	2.6	<0.2	4.6	173.2	4.28	2.85	0.20	47	5.51
1195331	Rock	4.47	5.98	72.59	13.11	100.2	262	39.6	7.0	130	3.10	5.4	4.9	0.8	6.4	18.3	1.22	1.56	0.21	30	0.13
1195332	Rock	4.85	6.98	59.84	19.98	83.9	271	36.3	6.3	119	3.36	11.5	6.8	1.2	6.8	20.4	0.84	2.33	0.28	36	0.13
1195333	Rock	2.40	4.92	42.33	14.34	139.4	202	37.3	5.5	119	3.09	11.0	5.8	0.9	7.1	17.5	1.53	2.09	0.24	28	0.10
1195334	Rock	5.39	5.29	35.49	18.13	65.3	218	20.6	3.0	87	3.34	10.8	2.4	1.4	6.4	19.8	0.66	1.94	0.27	24	0.06
1195335	Rock	2.40	6.20	57.21	19.20	72.2	237	23.9	4.8	88	4.21	13.5	3.9	0.4	7.4	23.1	0.67	2.19	0.28	26	0.07

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Project: AKIE
Report Date: November 24, 2011

CERTIFICATE OF ANALYSIS VAN11004918.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1195305	Rock	0.007	10.6	4.0	0.16	219.2	<0.001	<20	0.23	<0.001	0.13	<0.1	0.6	0.18	0.03	97	7.4	0.05	0.6	0.66	<0.1
1195307	Rock	0.009	10.5	4.8	0.05	363.6	<0.001	<20	0.27	0.001	0.14	<0.1	0.7	0.21	0.03	109	5.3	0.05	0.7	0.56	<0.1
1195308	Rock	0.007	12.8	5.0	0.05	789.7	<0.001	<20	0.37	0.002	0.22	<0.1	0.8	0.57	0.14	239	7.1	0.07	1.0	1.68	<0.1
1195309	Rock	0.005	10.7	3.9	0.05	635.6	<0.001	<20	0.37	0.002	0.25	<0.1	0.9	0.67	0.20	217	1.9	0.02	1.0	2.40	<0.1
1195310	Rock	0.808	20.4	63.1	1.99	530.6	0.008	<20	0.74	<0.001	0.29	<0.1	2.7	0.30	0.28	361	34.1	0.11	2.0	1.89	<0.1
1195311	Rock	0.332	11.7	41.5	2.29	442.9	0.006	<20	0.53	<0.001	0.22	0.1	2.5	0.35	0.29	376	29.2	0.11	1.5	1.59	0.1
1195312	Rock	0.186	8.3	15.0	1.04	399.2	0.002	<20	0.62	0.002	0.18	<0.1	2.5	0.27	0.46	174	21.5	0.15	1.3	1.72	<0.1
1195313	Rock	0.177	8.3	11.8	0.35	232.7	0.001	<20	0.89	0.004	0.19	<0.1	1.7	0.22	1.02	130	19.1	0.07	1.7	1.88	<0.1
1195314	Rock	0.025	5.0	13.5	0.91	45.3	<0.001	<20	1.22	0.004	0.16	<0.1	1.7	0.19	3.12	97	10.4	0.06	2.7	1.80	<0.1
1195315	Rock	0.024	4.0	12.6	0.49	26.7	<0.001	<20	1.01	0.004	0.17	<0.1	1.3	0.31	4.54	98	9.2	0.07	2.3	1.58	<0.1
1195316	Rock	0.048	9.2	19.2	0.75	377.5	0.001	<20	1.52	0.002	0.17	<0.1	1.6	0.14	0.29	63	8.3	0.04	3.1	1.72	<0.1
1195317	Rock	0.075	10.3	22.5	0.80	424.5	0.001	<20	1.58	0.003	0.18	<0.1	1.6	0.16	0.30	52	10.1	0.08	3.6	1.80	<0.1
1195318	Rock	0.065	9.6	19.2	0.74	380.0	0.001	<20	1.48	0.003	0.18	<0.1	1.6	0.15	0.30	63	9.4	0.05	3.2	1.94	<0.1
1195319	Rock	0.027	10.1	6.2	0.24	264.8	<0.001	<20	0.41	<0.001	0.17	<0.1	1.1	0.44	0.18	91	10.1	0.25	0.9	0.86	<0.1
1195320	Rock	0.046	10.3	6.3	0.24	290.3	<0.001	<20	0.43	<0.001	0.18	<0.1	1.3	0.28	0.28	220	13.7	0.18	0.8	1.00	<0.1
1195321	Rock	0.137	13.0	14.5	0.27	428.4	0.002	<20	0.47	<0.001	0.24	<0.1	1.6	0.14	0.24	172	16.0	0.31	1.1	1.19	<0.1
1195322	Rock	0.091	10.2	11.8	0.11	343.6	0.002	<20	0.45	<0.001	0.22	<0.1	1.5	0.15	0.49	113	16.8	0.31	1.0	1.19	<0.1
1195323	Rock	0.016	13.2	3.9	0.15	394.1	<0.001	<20	0.44	0.002	0.23	<0.1	1.0	0.26	0.33	94	1.7	0.06	0.8	1.67	<0.1
1195324	Rock	0.030	6.9	7.4	0.21	190.2	<0.001	<20	0.62	0.002	0.25	<0.1	1.4	0.53	1.46	93	2.5	0.08	1.3	3.12	<0.1
1195325	Rock	0.024	10.3	10.1	0.36	323.0	<0.001	<20	0.87	<0.001	0.23	<0.1	1.2	0.30	0.28	108	1.1	0.04	1.9	1.91	<0.1
1195326	Rock	0.046	6.7	7.6	0.39	333.9	<0.001	<20	0.66	0.002	0.21	<0.1	1.3	0.23	0.47	116	1.7	0.06	1.4	1.57	<0.1
1195327	Rock	0.062	10.7	13.7	0.42	459.3	0.001	<20	0.94	0.003	0.20	<0.1	1.4	0.39	0.30	82	5.8	0.08	2.1	1.48	<0.1
1195328	Rock	0.062	11.4	12.5	0.32	418.1	0.001	<20	0.84	0.003	0.18	<0.1	1.5	0.34	0.25	151	23.4	0.10	1.8	1.51	<0.1
1195329	Rock	0.070	7.3	16.3	0.69	342.5	0.001	<20	1.22	0.004	0.20	<0.1	1.9	0.31	0.75	74	4.3	0.06	2.6	1.90	<0.1
1195330	Rock	0.049	4.3	18.5	2.00	323.0	0.001	<20	1.70	0.001	0.14	<0.1	2.4	0.19	0.72	71	4.7	<0.02	3.6	1.31	<0.1
1195331	Rock	0.045	15.9	17.3	0.68	362.5	<0.001	<20	1.51	0.004	0.19	<0.1	1.7	0.24	0.11	47	3.3	0.06	2.8	1.39	<0.1
1195332	Rock	0.052	11.2	17.1	0.62	601.6	<0.001	<20	1.47	0.004	0.19	<0.1	1.8	0.36	0.36	78	4.9	0.07	3.0	1.49	<0.1
1195333	Rock	0.048	17.3	18.9	0.62	402.5	<0.001	<20	1.40	0.007	0.20	<0.1	1.8	0.29	0.09	61	1.5	0.04	3.2	1.59	<0.1
1195334	Rock	0.042	17.8	18.3	0.48	394.1	<0.001	<20	1.28	0.008	0.19	<0.1	1.5	0.32	0.10	75	1.6	0.04	2.9	1.66	<0.1
1195335	Rock	0.055	15.8	19.6	0.48	767.2	<0.001	<20	1.38	0.006	0.19	<0.1	1.7	0.39	0.11	85	2.5	0.07	3.0	1.81	<0.1

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CERTIFICATE OF ANALYSIS VAN11004918.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1195305	Rock	0.11	<0.02	6.0	0.2	<0.05	5.6	2.92	16.8	<0.02	27	0.1	1.2	<10	4	1815
1195307	Rock	0.06	<0.02	6.7	0.2	<0.05	4.2	2.55	17.2	<0.02	17	0.2	1.3	<10	4	1954
1195308	Rock	0.11	<0.02	11.0	0.3	<0.05	5.4	2.09	22.0	<0.02	25	0.2	1.4	<10	4	5273
1195309	Rock	0.10	<0.02	12.1	0.3	<0.05	4.9	1.60	18.1	<0.02	10	0.2	1.7	<10	<2	6727
1195310	Rock	<0.02	0.05	18.5	0.4	<0.05	0.8	37.99	18.4	<0.02	153	0.7	4.1	<10	2	1099
1195311	Rock	0.02	0.03	15.0	0.3	<0.05	1.5	21.22	12.4	<0.02	169	0.4	3.4	<10	<2	1129
1195312	Rock	0.03	<0.02	10.1	0.4	<0.05	2.4	15.15	11.8	0.04	124	0.3	5.6	<10	3	3233
1195313	Rock	0.03	<0.02	10.2	0.3	<0.05	3.3	12.77	12.9	0.03	39	0.6	11.1	<10	<2	4192
1195314	Rock	0.30	<0.02	8.5	0.2	<0.05	14.4	9.69	8.7	0.04	25	0.3	31.2	<10	<2	4389
1195315	Rock	0.33	<0.02	8.7	0.2	<0.05	15.1	7.12	6.8	0.03	48	0.3	21.2	<10	<2	3897
1195316	Rock	0.11	<0.02	9.1	0.2	<0.05	5.7	8.63	15.9	0.03	10	0.4	39.9	<10	<2	5964
1195317	Rock	0.10	<0.02	9.7	0.3	<0.05	5.0	8.63	18.5	0.03	17	0.2	46.0	<10	<2	5417
1195318	Rock	0.11	<0.02	9.9	0.2	<0.05	5.3	8.01	16.9	0.03	9	0.3	40.4	<10	<2	6144
1195319	Rock	0.16	<0.02	6.6	2.2	<0.05	7.8	4.15	15.0	<0.02	58	0.1	5.0	<10	4	4056
1195320	Rock	0.12	<0.02	6.9	0.1	<0.05	6.8	5.21	14.6	0.03	54	0.2	4.7	<10	2	3887
1195321	Rock	<0.02	<0.02	10.6	0.7	<0.05	1.5	12.75	18.1	0.04	28	0.2	2.5	<10	2	3103
1195322	Rock	0.03	<0.02	10.0	0.2	<0.05	3.4	12.61	14.5	0.05	34	0.4	2.4	<10	4	3214
1195323	Rock	0.07	<0.02	8.8	0.2	<0.05	3.9	2.87	22.5	<0.02	12	0.1	2.9	<10	4	6249
1195324	Rock	0.15	<0.02	11.8	0.2	<0.05	9.7	5.15	12.2	0.02	29	0.4	8.2	<10	3	5894
1195325	Rock	0.12	<0.02	9.5	0.2	<0.05	5.1	3.13	17.5	<0.02	9	0.2	15.8	<10	<2	6531
1195326	Rock	0.11	<0.02	9.1	0.2	<0.05	6.5	6.37	12.0	<0.02	14	0.2	10.2	<10	<2	4859
1195327	Rock	0.10	<0.02	9.3	0.3	<0.05	5.9	5.13	18.1	<0.02	24	0.2	20.4	<10	<2	6461
1195328	Rock	0.10	<0.02	8.6	0.2	<0.05	5.5	5.62	18.0	0.04	39	0.3	14.2	<10	3	5229
1195329	Rock	0.11	<0.02	9.7	0.3	<0.05	6.7	8.52	12.9	0.03	17	0.3	35.4	<10	<2	5653
1195330	Rock	0.13	<0.02	6.9	0.2	<0.05	6.5	9.91	7.5	0.04	15	0.3	39.7	<10	<2	3699
1195331	Rock	0.10	<0.02	8.7	0.2	<0.05	4.8	5.31	27.8	0.03	13	0.3	34.6	<10	<2	4689
1195332	Rock	0.17	<0.02	9.2	0.2	<0.05	5.9	4.68	19.5	0.03	12	0.2	34.9	<10	<2	4829
1195333	Rock	0.11	<0.02	9.5	0.2	<0.05	4.1	4.14	30.5	0.03	12	0.3	35.3	<10	<2	4637
1195334	Rock	0.10	<0.02	9.2	0.2	<0.05	3.6	2.88	31.5	0.02	6	0.2	29.8	<10	<2	4535
1195335	Rock	0.07	<0.02	9.3	0.2	<0.05	2.9	3.25	28.3	0.02	5	0.2	32.1	<10	<2	4533

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	Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1195336	Rock	2.47	4.85	62.29	17.93	73.1	240	35.1	6.3	130	2.98	8.2	4.8	0.2	7.5	16.4	0.65	1.14	0.28	38	0.11
1195337	Rock	3.43	4.94	42.36	16.94	75.6	200	32.8	6.1	137	2.98	8.5	3.7	0.7	6.7	20.1	0.77	1.10	0.25	44	0.21
1195338	Rock	1.48	4.56	43.92	18.78	83.9	204	36.1	4.2	168	3.69	12.4	4.0	1.0	7.7	18.9	0.63	1.54	0.28	52	0.14
1195339	Rock	2.57	5.40	40.76	20.18	87.2	195	31.8	3.7	146	3.56	11.6	5.2	0.7	8.0	23.7	0.58	1.57	0.27	50	0.11
1195340	Rock	3.07	5.76	139.9	15.06	241.1	917	40.5	8.4	184	2.50	5.6	6.8	0.7	5.3	13.6	7.62	4.07	0.21	87	0.16
1195341	Rock	2.99	5.99	82.24	19.10	121.4	840	37.9	7.1	123	4.36	10.8	2.7	<0.2	5.7	10.2	2.13	5.48	0.25	45	0.15
1195342	Rock	1.94	7.45	93.15	17.09	143.1	642	33.4	6.7	125	2.62	7.8	3.1	0.6	6.8	18.8	2.42	3.57	0.27	51	0.61
1195343	Rock	2.08	8.68	57.92	16.48	165.6	847	31.5	4.6	97	2.22	7.0	3.1	0.6	5.4	14.7	6.52	4.87	0.20	74	0.23
1195344	Rock	3.62	9.25	63.54	10.98	307.2	718	44.5	6.2	101	1.95	4.6	3.3	<0.2	3.9	6.7	12.17	4.95	0.18	111	0.08
1195345	Rock	2.77	13.79	116.9	8.42	241.2	943	59.4	9.0	63	2.84	16.1	8.3	<0.2	3.4	109.8	2.83	4.94	0.13	99	1.96
1195346	Rock	3.81	40.53	48.37	16.77	93.6	428	50.3	3.7	38	1.78	21.7	6.7	<0.2	3.0	10.8	0.63	4.75	0.13	58	0.27
1195347	Rock	4.91	33.39	50.10	12.71	107.3	259	52.4	4.3	48	1.54	15.8	6.6	<0.2	3.8	15.6	0.62	3.30	0.14	62	0.31

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1195336	Rock		0.045	14.7	18.3	0.64	293.2	<0.001	<20	1.42	0.002	0.19	<0.1	2.1	0.45	0.18	60	4.7	0.04	2.8	2.23	<0.1
1195337	Rock		0.046	15.5	19.3	0.66	390.9	<0.001	<20	1.43	0.002	0.20	<0.1	1.6	0.42	0.13	51	4.4	0.07	3.0	2.08	<0.1
1195338	Rock		0.058	18.9	21.9	0.85	325.4	<0.001	<20	1.69	0.003	0.20	<0.1	2.0	0.54	0.11	51	4.6	0.04	3.7	2.04	<0.1
1195339	Rock		0.063	19.4	21.7	0.77	555.7	<0.001	<20	1.66	0.003	0.21	<0.1	2.2	0.59	0.08	68	5.8	0.04	3.6	2.15	<0.1
1195340	Rock		0.042	12.4	17.2	0.76	409.7	<0.001	<20	1.51	0.002	0.20	<0.1	1.9	0.30	0.18	81	13.8	0.06	3.1	1.42	<0.1
1195341	Rock		0.033	5.3	18.3	0.62	68.7	<0.001	<20	1.40	0.003	0.22	<0.1	1.9	0.35	2.30	55	28.5	0.07	2.8	1.97	0.1
1195342	Rock		0.038	15.0	18.2	0.62	310.3	<0.001	<20	1.34	0.002	0.21	<0.1	1.8	0.46	0.15	63	7.9	0.04	2.9	1.95	<0.1
1195343	Rock		0.083	10.6	16.3	0.49	284.8	<0.001	<20	1.13	0.002	0.20	<0.1	1.6	0.34	0.30	59	15.4	0.07	2.4	1.65	<0.1
1195344	Rock		0.033	9.9	15.2	0.52	272.6	0.001	<20	1.10	0.003	0.18	<0.1	1.6	0.21	0.20	72	21.9	0.08	2.4	1.27	<0.1
1195345	Rock		0.648	8.3	23.0	0.31	176.5	0.006	<20	1.36	0.006	0.30	<0.1	2.3	0.17	1.27	76	12.7	0.10	1.9	1.44	<0.1
1195346	Rock		0.050	4.2	4.6	0.12	279.7	0.001	<20	0.53	<0.001	0.13	<0.1	1.0	0.32	0.70	74	8.1	0.10	0.8	0.54	<0.1
1195347	Rock		0.055	7.1	4.8	0.19	381.2	0.001	<20	0.64	0.002	0.14	<0.1	1.2	0.28	0.16	66	6.9	0.07	0.8	0.64	<0.1

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Project: AKIE
Report Date: November 24, 2011

CERTIFICATE OF ANALYSIS VAN11004918.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1195336	Rock	0.10	<0.02	10.3	0.2	<0.05	4.6	4.28	25.8	0.03	12	0.3	38.3	<10	<2	3963
1195337	Rock	0.09	<0.02	9.5	0.2	<0.05	4.0	4.41	27.3	0.03	9	0.3	39.8	<10	<2	4023
1195338	Rock	0.07	<0.02	10.3	0.2	<0.05	4.4	3.71	33.4	<0.02	8	0.3	48.0	<10	3	3808
1195339	Rock	0.07	<0.02	10.9	0.3	<0.05	3.8	4.16	33.7	0.03	6	0.3	44.6	<10	<2	4035
1195340	Rock	0.13	<0.02	9.7	0.2	<0.05	5.3	4.74	20.8	0.04	20	0.4	35.5	<10	<2	3686
1195341	Rock	0.20	<0.02	11.5	0.2	<0.05	9.7	3.89	8.7	0.03	14	0.3	34.1	<10	2	4263
1195342	Rock	0.13	<0.02	10.7	0.3	<0.05	6.4	5.20	26.1	0.03	27	0.3	33.6	<10	<2	4396
1195343	Rock	0.07	<0.02	10.4	0.2	<0.05	4.7	5.66	17.8	0.03	23	0.3	24.3	<10	<2	3745
1195344	Rock	0.09	<0.02	8.9	0.2	<0.05	4.5	4.66	16.7	0.03	22	0.3	22.5	<10	<2	2877
1195345	Rock	0.02	0.02	14.6	0.3	<0.05	1.3	19.34	11.3	0.03	34	0.6	4.9	<10	<2	3076
1195346	Rock	0.14	<0.02	6.1	0.1	<0.05	8.3	5.14	7.2	<0.02	47	0.3	2.7	<10	<2	3441
1195347	Rock	0.14	<0.02	6.0	0.2	<0.05	7.6	5.06	11.6	<0.02	42	0.3	3.8	<10	<2	3441

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QUALITY CONTROL REPORT VAN11004918.1

	Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
1194272	Rock	1.73	36.94	2.70	6.10	6.9	360	3.9	0.3	10	0.11	5.1	1.8	<0.2	1.1	3.4	0.05	1.96	0.13	52	<0.01
REP 1194272	QC		35.79	2.73	5.80	7.1	354	3.9	0.3	10	0.19	5.2	1.7	<0.2	1.1	3.5	0.06	1.91	0.10	50	<0.01
1194278	Rock	1.40	22.81	10.20	21.73	50.9	417	10.6	0.4	25	0.49	4.7	1.6	0.6	0.3	4.2	0.19	3.82	0.04	102	0.01
REP 1194278	QC																				
1195339	Rock	2.57	5.40	40.76	20.18	87.2	195	31.8	3.7	146	3.56	11.6	5.2	0.7	8.0	23.7	0.58	1.57	0.27	50	0.11
REP 1195339	QC		5.51	39.68	20.20	87.4	190	31.3	3.6	145	3.49	11.1	5.1	0.9	8.0	23.3	0.59	1.51	0.27	51	0.11
REP 1195340	QC																				
Core Reject Duplicates																					
1195304	Rock	2.44	18.48	15.69	7.94	57.8	225	23.3	2.4	41	0.79	8.9	3.2	0.3	2.3	9.8	0.39	2.15	0.11	95	0.79
DUP 1195304	QC		19.14	15.35	8.62	63.5	233	24.2	2.4	45	0.83	9.4	3.2	1.0	2.3	11.2	0.44	2.09	0.11	91	0.94
1195340	Rock	3.07	5.76	139.9	15.06	241.1	917	40.5	8.4	184	2.50	5.6	6.8	0.7	5.3	13.6	7.62	4.07	0.21	87	0.16
DUP 1195340	QC		5.68	141.5	15.04	235.0	920	39.9	8.4	167	2.49	4.8	5.8	0.8	4.9	12.6	7.08	4.19	0.22	88	0.13
Reference Materials																					
STD DS8	Standard		13.95	113.3	136.0	317.3	1750	37.6	7.5	607	2.54	25.8	3.2	114.8	7.6	68.7	2.44	4.60	6.65	42	0.71
STD DS8	Standard		14.10	113.0	134.1	319.4	1904	37.9	7.5	609	2.52	25.6	2.8	123.9	6.4	67.1	2.39	4.35	6.51	42	0.71
STD DS8	Standard		14.50	115.7	113.8	299.6	1754	38.3	7.8	598	2.50	23.3	2.4	96.2	5.8	61.1	2.24	3.54	6.19	42	0.71
STD OREAS45CA	Standard		0.89	520.6	22.38	61.2	259	256.1	88.8	956	15.99	3.1	1.4	41.0	8.1	16.1	0.11	0.09	0.22	220	0.43
STD OREAS45CA	Standard		0.67	511.4	21.02	65.8	273	256.3	88.5	929	15.82	3.3	1.2	36.3	7.2	15.5	0.09	0.08	0.19	219	0.41
STD OREAS45CA	Standard		0.86	494.6	18.55	58.8	260	241.9	89.8	889	15.47	3.5	1.0	42.8	6.1	14.8	0.10	0.09	0.16	202	0.40
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected			1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265
STD SO-18 Expected																					

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QUALITY CONTROL REPORT VAN11004918.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																						
1194272	Rock		0.002	10.3	3.1	0.02	419.1	0.002	<20	0.18	<0.001	0.11	<0.1	0.4	0.08	<0.02	86	3.4	0.09	0.5	0.26	<0.1
REP 1194272	QC		0.002	9.9	3.3	0.02	418.7	0.002	<20	0.17	<0.001	0.11	<0.1	0.3	0.06	<0.02	107	3.1	0.11	0.5	0.25	<0.1
1194278	Rock		0.011	<0.5	5.2	0.04	730.5	<0.001	<20	0.08	<0.001	0.04	0.1	0.5	0.22	0.09	218	3.5	0.06	0.5	0.25	<0.1
REP 1194278	QC																					
1195339	Rock		0.063	19.4	21.7	0.77	555.7	<0.001	<20	1.66	0.003	0.21	<0.1	2.2	0.59	0.08	68	5.8	0.04	3.6	2.15	<0.1
REP 1195339	QC		0.062	19.6	22.1	0.77	560.3	<0.001	<20	1.70	0.002	0.21	<0.1	2.2	0.58	0.08	56	5.7	0.04	3.6	2.10	<0.1
REP 1195340	QC																					
Core Reject Duplicates																						
1195304	Rock		0.018	10.8	6.2	0.09	275.8	<0.001	<20	0.30	0.001	0.17	<0.1	0.9	0.27	0.03	161	7.2	0.06	0.8	0.74	<0.1
DUP 1195304	QC		0.019	11.0	5.4	0.10	269.9	<0.001	<20	0.29	0.001	0.17	<0.1	0.8	0.27	0.03	158	7.6	0.09	0.8	0.69	<0.1
1195340	Rock		0.042	12.4	17.2	0.76	409.7	<0.001	<20	1.51	0.002	0.20	<0.1	1.9	0.30	0.18	81	13.8	0.06	3.1	1.42	<0.1
DUP 1195340	QC		0.035	12.0	17.1	0.75	407.3	<0.001	<20	1.51	0.002	0.20	<0.1	1.8	0.30	0.21	66	15.8	0.05	3.1	1.44	<0.1
Reference Materials																						
STD DS8	Standard		0.084	16.2	117.2	0.63	295.8	0.106	<20	0.98	0.094	0.43	2.9	2.2	5.69	0.17	189	5.2	4.81	4.7	2.49	<0.1
STD DS8	Standard		0.081	14.9	118.3	0.63	297.2	0.105	<20	0.95	0.092	0.44	2.8	2.1	5.83	0.17	184	5.4	5.12	4.8	2.57	<0.1
STD DS8	Standard		0.076	14.0	116.8	0.61	264.8	0.112	<20	0.93	0.092	0.41	2.0	2.1	5.17	0.17	194	4.9	4.87	4.4	2.32	<0.1
STD OREAS45CA	Standard		0.041	17.8	738.1	0.15	170.4	0.136	<20	3.85	0.004	0.07	<0.1	38.5	0.13	0.02	42	0.3	0.05	19.0	1.19	0.1
STD OREAS45CA	Standard		0.040	16.7	736.0	0.15	163.6	0.133	<20	3.71	0.004	0.07	<0.1	38.1	0.12	0.02	14	0.4	0.06	19.4	1.14	0.1
STD OREAS45CA	Standard		0.035	16.0	706.4	0.15	150.7	0.130	<20	3.60	0.008	0.07	<0.1	38.9	0.07	0.03	31	0.6	0.06	18.2	1.04	<0.1
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD DS8 Expected			0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13
STD OREAS45CA Expected			0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11
STD SO-18 Expected																						

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QUALITY CONTROL REPORT VAN11004918.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
Pulp Duplicates																
1194272	Rock	0.08	0.02	5.2	0.2	<0.05	3.8	1.57	15.1	<0.02	53	0.2	0.9	<10	<2	3213
REP 1194272	QC	0.08	<0.02	5.0	0.2	<0.05	3.8	1.55	14.5	<0.02	52	0.1	0.9	<10	<2	
1194278	Rock	<0.02	<0.02	2.0	0.2	<0.05	1.3	1.77	0.7	<0.02	18	<0.1	0.5	<10	<2	1083
REP 1194278	QC															1085
1195339	Rock	0.07	<0.02	10.9	0.3	<0.05	3.8	4.16	33.7	0.03	6	0.3	44.6	<10	<2	4035
REP 1195339	QC	0.06	<0.02	10.8	0.3	<0.05	3.7	4.12	34.4	0.02	9	0.4	45.7	<10	<2	
REP 1195340	QC															3614
Core Reject Duplicates																
1195304	Rock	0.10	<0.02	7.8	0.2	<0.05	5.6	3.39	17.7	<0.02	31	0.2	1.5	<10	4	2122
DUP 1195304	QC	0.09	<0.02	7.5	0.2	<0.05	5.2	3.51	17.5	<0.02	33	0.2	1.4	<10	7	2096
1195340	Rock	0.13	<0.02	9.7	0.2	<0.05	5.3	4.74	20.8	0.04	20	0.4	35.5	<10	<2	3686
DUP 1195340	QC	0.12	<0.02	10.0	0.2	<0.05	5.1	4.58	20.1	0.03	20	0.4	34.5	<10	<2	3624
Reference Materials																
STD DS8	Standard	0.07	0.90	39.8	7.3	<0.05	1.5	6.07	27.3	2.29	57	4.8	28.5	116	360	
STD DS8	Standard	0.06	0.87	41.0	6.9	<0.05	1.7	5.87	26.0	2.43	57	4.6	26.1	124	379	
STD DS8	Standard	0.04	0.52	37.4	6.2	<0.05	1.4	5.36	24.5	2.07	61	5.1	26.3	120	334	
STD OREAS45CA	Standard	0.53	0.13	9.7	2.0	<0.05	21.1	8.62	36.7	0.12	<1	0.6	7.7	39	60	
STD OREAS45CA	Standard	0.51	0.13	9.1	2.1	<0.05	20.1	8.28	35.2	0.10	<1	0.6	7.6	31	73	
STD OREAS45CA	Standard	0.32	0.11	8.8	1.7	<0.05	16.2	7.93	33.2	0.09	<1	0.5	7.3	17	56	
STD SO-18	Standard															491
STD SO-18	Standard															498
STD SO-18	Standard															491
STD SO-18	Standard															501
STD SO-18	Standard															537
STD SO-18	Standard															483
STD DS8 Expected		0.08	1.1	39	6.7	0.003	2.1	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS45CA Expected		0.5	0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61	
STD SO-18 Expected																515

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QUALITY CONTROL REPORT VAN11004918.1

		WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	<0.01	3.51	3.76	47.7	5	2.8	3.8	549	1.88	0.2	1.4	0.9	5.2	57.8	0.02	0.04	0.26	35	0.45
G1	Prep Blank	<0.01	<0.01	3.14	2.87	41.1	3	2.8	3.6	516	1.78	0.2	1.3	<0.2	4.2	50.7	0.02	0.02	0.14	34	0.41

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Canada Zinc Metals Corp.**
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PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: November 24, 2011

QUALITY CONTROL REPORT VAN11004918.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	0.079	13.8	4.2	0.52	165.7	0.114	<20	0.91	0.083	0.48	<0.1	1.8	0.34	<0.02	<5	<0.1	<0.02	4.3	2.85	<0.1
G1	Prep Blank	0.074	11.1	4.4	0.48	149.8	0.106	<20	0.86	0.077	0.46	<0.1	1.6	0.32	<0.02	<5	<0.1	<0.02	4.3	2.70	0.1

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QUALITY CONTROL REPORT VAN11004918.1

		1F Hf ppm 0.02	1F Nb ppm 0.02	1F Rb ppm 0.1	1F Sn ppm 0.1	1F Ta ppm 0.05	1F Zr ppm 0.1	1F Y ppm 0.01	1F Ce ppm 0.1	1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2	4A Ba ppm 10
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank															<10
BLK	Blank															<10
BLK	Blank															<10
Prep Wash																
G1	Prep Blank	0.07	0.29	41.0	0.5	<0.05	1.0	4.63	23.3	0.03	<1	0.3	29.7	<10	<2	1131
G1	Prep Blank	0.07	0.29	37.7	0.5	<0.05	0.8	4.27	18.7	<0.02	<1	0.2	27.6	<10	<2	1165

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Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: September 21, 2011
Report Date: November 24, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN11004919.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 143

SAMPLE DISPOSAL

RTRN-PLP Return
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	143	Dry at 60C			VAN
SS80	143	Dry at 60C sieve 100g to -80 mesh			VAN
1F04	143	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
4A01	143	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3
Canada

CC: Ken MacDonald
Tanya Strate

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: AKIE
Report Date: November 24, 2011

CERTIFICATE OF ANALYSIS VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194769	Soil		27.73	63.22	32.79	196.0	1743	50.6	2.7	21	2.16	14.1	6.8	6.0	<0.1	141.4	3.96	2.90	0.31	139	0.31	0.169
1194770	Soil		19.95	27.39	19.04	176.0	443	25.5	2.5	23	2.49	18.8	1.9	1.7	0.8	39.3	0.63	2.17	0.21	116	0.02	0.078
1194771	Soil		9.99	9.41	14.68	93.9	337	11.8	1.5	14	1.09	5.3	0.5	0.4	0.8	12.2	0.17	0.73	0.15	119	0.01	0.030
1194772	Soil		16.04	14.32	21.72	145.3	363	18.8	2.0	17	1.53	9.0	0.8	0.6	1.0	50.8	0.34	1.49	0.18	107	0.02	0.048
1194773	Soil		22.80	21.13	26.57	236.3	617	38.4	2.7	21	1.88	16.0	1.4	0.9	1.4	48.4	0.41	2.37	0.29	178	0.01	0.056
1194774	Soil		21.12	25.04	42.44	256.7	247	32.6	2.6	19	1.85	13.0	1.5	0.9	0.9	30.6	0.47	1.85	0.23	185	0.02	0.052
1194775	Soil		22.99	44.63	44.56	363.9	697	49.7	4.0	33	2.00	12.7	3.1	1.0	0.4	33.4	8.68	3.35	0.18	120	0.07	0.098
1194776	Soil		23.22	39.18	48.81	469.8	1082	54.7	3.0	36	1.61	9.1	2.2	1.4	0.1	52.5	7.22	3.92	0.20	165	0.55	0.088
1194777	Soil		66.01	28.36	21.02	431.5	285	127.2	2.7	23	1.29	21.2	2.9	0.3	0.1	13.6	4.34	7.28	0.13	376	0.31	0.025
1194778	Soil		42.67	17.35	14.36	397.5	143	72.0	2.4	19	1.22	10.6	1.2	0.4	0.1	3.6	1.35	4.16	0.12	303	0.06	0.026
1194779	Soil		14.02	14.47	19.70	158.4	364	24.2	2.3	20	1.13	6.8	0.5	0.3	0.2	22.8	1.38	1.18	0.13	125	0.06	0.041
1194780	Soil		21.53	19.54	31.11	253.2	233	37.6	2.6	21	1.55	14.8	1.5	<0.2	0.7	36.0	0.59	2.67	0.17	187	0.02	0.057
1194781	Soil		12.67	12.81	11.47	145.5	157	16.3	1.7	17	1.07	5.9	0.4	<0.2	0.3	11.0	1.43	1.01	0.11	149	0.02	0.036
1194782	Soil		24.12	31.72	37.57	271.2	481	42.8	4.0	39	2.10	16.0	2.5	0.8	1.0	51.5	0.81	3.01	0.18	129	0.08	0.068
1194783	Soil		10.68	9.83	15.97	97.8	198	12.5	1.4	13	1.03	4.4	0.5	<0.2	0.7	20.4	0.32	0.79	0.13	118	0.04	0.030
1194784	Soil		73.40	7.69	10.33	71.4	222	6.7	1.1	15	1.69	21.1	0.4	0.3	<0.1	5.3	0.20	1.21	0.18	117	0.02	0.043
1194785	Soil		16.58	37.80	29.25	153.9	1089	21.1	1.8	13	4.37	11.5	3.7	1.9	2.4	116.4	0.60	3.85	0.16	96	0.02	0.361
1194786	Soil		13.11	18.30	30.35	149.8	448	19.4	2.2	28	1.77	7.5	0.8	0.6	1.2	37.6	2.07	1.63	0.18	97	0.10	0.060
1194787	Soil		23.21	147.9	12.78	296.5	1418	126.7	14.2	232	3.93	25.6	6.0	2.1	3.2	5.8	2.56	1.16	0.17	109	0.02	0.032
1194788	Soil		10.29	14.67	16.68	99.7	725	12.4	1.3	16	0.97	4.7	0.7	<0.2	0.2	22.3	0.73	0.94	0.15	102	0.04	0.041
1194789	Soil		15.89	15.28	14.16	115.2	476	17.2	1.5	16	1.20	6.1	1.0	<0.2	0.4	24.1	0.79	1.17	0.17	146	0.02	0.048
1194790	Soil		15.71	16.72	16.15	152.4	213	21.9	2.2	16	1.43	9.6	0.8	<0.2	0.3	32.8	0.43	1.69	0.16	129	0.02	0.048
1194791	Soil		12.60	13.73	18.56	120.0	434	17.1	2.0	18	1.26	6.6	0.7	0.4	1.2	31.6	0.31	1.07	0.16	108	0.02	0.034
1194792	Soil		17.01	17.12	16.91	138.6	233	22.9	1.9	18	1.28	8.3	1.0	0.3	1.0	52.3	0.43	1.24	0.19	167	0.03	0.041
1194793	Soil		16.18	17.74	14.63	135.6	184	23.2	1.9	24	1.22	7.0	0.7	<0.2	0.2	19.1	0.26	1.25	0.16	166	0.02	0.036
1194794	Soil		44.06	45.68	31.61	365.6	566	41.3	3.7	25	4.80	30.2	3.9	1.1	1.0	73.4	0.98	5.24	0.34	224	0.07	0.133
1194795	Soil		30.61	40.88	22.34	199.7	512	33.5	2.6	22	2.22	18.8	2.7	1.4	0.8	78.4	1.81	3.70	0.24	165	0.04	0.080
1194796	Soil		34.36	48.37	26.83	252.0	649	45.9	3.1	49	2.90	26.4	4.9	0.4	0.2	51.9	2.35	4.41	0.24	306	0.10	0.170
1194797	Soil		29.06	36.45	21.81	215.9	623	41.2	2.2	57	1.50	15.1	3.7	0.9	0.1	63.6	2.97	3.82	0.20	177	0.10	0.089
1194798	Soil		44.70	45.16	33.06	148.8	848	27.2	1.9	21	2.73	22.1	2.1	0.6	0.3	151.6	2.50	2.47	0.38	157	0.07	0.090

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CERTIFICATE OF ANALYSIS VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194769	Soil		4.7	15.5	0.10	1936	<0.001	<20	1.21	0.002	0.23	<0.1	0.5	1.60	0.22	273	9.5	0.14	3.0	1.83	<0.1	<0.02
1194770	Soil		2.0	10.2	0.04	393.6	<0.001	<20	0.64	0.004	0.17	<0.1	1.2	1.06	0.22	39	3.5	0.09	2.1	0.59	<0.1	<0.02
1194771	Soil		3.0	7.8	0.04	200.5	0.002	<20	0.69	<0.001	0.09	<0.1	0.8	0.50	0.06	13	1.2	0.05	3.2	0.77	<0.1	<0.02
1194772	Soil		2.5	8.2	0.03	544.8	0.001	<20	0.55	0.001	0.13	<0.1	1.0	0.76	0.15	8	3.3	0.07	2.8	0.83	<0.1	<0.02
1194773	Soil		3.0	10.3	0.03	632.1	0.002	<20	0.56	<0.001	0.14	<0.1	1.2	0.89	0.17	24	4.3	0.08	2.5	0.70	<0.1	<0.02
1194774	Soil		2.3	11.0	0.04	1112	<0.001	<20	0.78	<0.001	0.12	<0.1	1.3	0.62	0.10	29	2.9	0.08	3.2	0.82	<0.1	<0.02
1194775	Soil		5.6	11.7	0.06	1730	0.001	<20	0.66	<0.001	0.09	<0.1	1.0	0.39	0.09	75	3.0	0.09	1.9	0.49	<0.1	<0.02
1194776	Soil		3.5	17.5	0.04	1702	0.002	<20	0.45	<0.001	0.11	0.1	0.8	0.70	0.11	119	3.3	0.07	2.6	1.30	<0.1	<0.02
1194777	Soil		7.9	21.0	0.04	199.9	0.003	<20	0.42	<0.001	0.06	0.1	0.4	1.39	<0.02	47	5.4	0.14	2.8	0.64	<0.1	<0.02
1194778	Soil		6.5	11.3	0.03	75.3	0.003	<20	0.39	<0.001	0.05	0.1	0.4	0.80	<0.02	20	4.6	0.11	3.0	0.48	<0.1	<0.02
1194779	Soil		4.4	11.0	0.04	804.1	0.002	<20	0.56	<0.001	0.08	<0.1	0.5	0.48	0.07	16	1.9	0.06	4.3	0.69	<0.1	<0.02
1194780	Soil		1.7	9.5	0.03	903.7	<0.001	<20	0.49	<0.001	0.11	<0.1	1.1	0.70	0.10	21	3.3	0.07	1.9	0.68	<0.1	<0.02
1194781	Soil		3.0	10.9	0.04	533.4	0.001	<20	0.72	<0.001	0.07	<0.1	0.7	0.45	0.03	20	1.8	0.06	4.8	0.98	<0.1	<0.02
1194782	Soil		2.8	9.7	0.04	1728	<0.001	<20	0.43	0.003	0.13	<0.1	1.5	0.77	0.14	55	3.6	0.09	1.8	0.70	<0.1	<0.02
1194783	Soil		3.7	9.2	0.04	571.3	0.002	<20	0.65	<0.001	0.09	<0.1	0.8	0.57	0.06	9	1.5	0.05	3.7	0.87	<0.1	<0.02
1194784	Soil		5.5	8.0	0.03	216.2	0.003	<20	0.44	<0.001	0.05	0.2	0.3	0.88	0.03	29	0.9	0.13	4.3	0.88	<0.1	<0.02
1194785	Soil		3.9	14.4	0.02	282.7	<0.001	<20	0.40	0.011	0.21	<0.1	3.0	0.69	0.38	160	15.3	0.06	2.0	1.13	<0.1	<0.02
1194786	Soil		4.4	9.8	0.04	718.6	0.004	<20	0.49	0.003	0.11	<0.1	1.2	0.55	0.13	27	2.5	0.05	2.8	0.49	<0.1	<0.02
1194787	Soil		4.0	28.0	0.07	582.3	0.001	<20	1.32	<0.001	0.05	<0.1	5.5	0.83	<0.02	473	3.0	0.13	1.9	0.54	<0.1	0.02
1194788	Soil		4.0	10.6	0.04	681.0	0.002	<20	0.64	<0.001	0.10	<0.1	0.4	0.41	0.06	24	1.2	0.05	3.7	1.03	<0.1	<0.02
1194789	Soil		2.9	12.5	0.04	266.6	0.002	<20	0.78	<0.001	0.11	<0.1	0.7	0.54	0.08	24	2.3	0.08	3.6	0.90	<0.1	<0.02
1194790	Soil		1.6	7.5	0.03	178.6	0.001	<20	0.41	0.001	0.11	<0.1	0.7	0.57	0.10	13	3.0	0.07	2.5	0.74	<0.1	<0.02
1194791	Soil		4.1	8.2	0.04	196.3	0.003	<20	0.62	0.002	0.11	<0.1	0.9	0.71	0.11	18	1.8	0.05	3.2	1.00	<0.1	<0.02
1194792	Soil		3.8	11.4	0.04	241.7	0.002	<20	0.66	<0.001	0.11	<0.1	1.0	0.78	0.09	14	2.7	0.09	3.6	0.99	<0.1	<0.02
1194793	Soil		5.3	11.7	0.04	271.9	0.003	<20	0.70	<0.001	0.08	<0.1	0.5	0.54	0.06	16	2.1	0.06	4.6	1.32	<0.1	<0.02
1194794	Soil		3.5	14.6	0.03	402.1	0.002	<20	0.63	0.007	0.23	0.1	1.2	1.69	0.41	70	5.6	0.19	2.4	1.44	<0.1	<0.02
1194795	Soil		2.9	13.5	0.03	483.6	0.001	<20	0.44	0.002	0.20	<0.1	1.2	1.24	0.30	68	7.7	0.13	2.2	1.02	<0.1	<0.02
1194796	Soil		4.0	22.4	0.03	421.6	0.002	<20	0.45	0.002	0.15	<0.1	0.4	1.02	0.20	52	5.7	0.14	2.6	1.15	<0.1	<0.02
1194797	Soil		5.0	15.5	0.03	482.9	0.001	<20	0.35	0.003	0.17	<0.1	0.4	1.28	0.22	43	5.5	0.10	1.7	0.75	<0.1	<0.02
1194798	Soil		3.9	19.0	0.03	249.3	0.002	<20	0.45	0.017	0.35	<0.1	0.7	3.14	0.62	40	6.9	0.20	3.0	0.67	<0.1	<0.02

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Project: AKIE
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CERTIFICATE OF ANALYSIS VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194769	Soil		0.23	16.7	0.8	<0.05	0.2	15.04	10.6	0.05	5	0.9	3.4	<10	2	3346
1194770	Soil		0.09	10.1	0.4	<0.05	0.2	3.24	4.4	0.03	5	0.4	2.1	<10	<2	1317
1194771	Soil		0.19	8.2	0.6	<0.05	0.1	1.59	5.9	<0.02	1	0.1	1.2	<10	<2	774
1194772	Soil		0.11	11.5	0.5	<0.05	<0.1	2.45	5.5	<0.02	2	0.2	1.5	<10	<2	1421
1194773	Soil		0.20	10.5	0.6	<0.05	0.1	2.90	6.3	0.02	1	0.2	1.9	<10	<2	1716
1194774	Soil		0.16	11.5	0.6	<0.05	0.3	2.83	4.6	0.03	4	0.3	1.5	<10	<2	3211
1194775	Soil		0.18	6.3	0.5	<0.05	0.4	11.33	11.1	0.03	4	0.7	2.1	<10	<2	4300
1194776	Soil		0.37	9.6	0.7	<0.05	<0.1	4.75	7.0	0.03	4	0.4	1.2	<10	<2	5712
1194777	Soil		0.40	6.2	0.7	<0.05	<0.1	6.12	15.6	<0.02	3	0.3	2.0	<10	<2	848
1194778	Soil		0.15	5.1	0.7	<0.05	<0.1	2.76	13.1	<0.02	5	0.2	1.2	<10	<2	580
1194779	Soil		0.10	7.2	0.7	<0.05	<0.1	1.98	8.8	<0.02	<1	0.1	1.0	<10	<2	2087
1194780	Soil		0.14	11.8	0.5	<0.05	<0.1	3.40	3.6	0.02	3	0.3	1.6	<10	<2	2697
1194781	Soil		0.13	6.3	0.8	<0.05	<0.1	1.89	6.1	<0.02	2	0.2	1.3	<10	<2	1285
1194782	Soil		0.15	8.4	0.5	<0.05	0.2	5.29	5.6	0.03	6	0.4	1.8	<10	<2	21085
1194783	Soil		0.20	9.0	0.6	<0.05	<0.1	1.54	7.2	<0.02	<1	0.2	1.1	<10	<2	1219
1194784	Soil		0.16	4.9	1.3	<0.05	<0.1	1.97	11.0	<0.02	<1	0.2	1.0	<10	<2	992
1194785	Soil		0.30	9.4	0.3	<0.05	0.8	6.78	8.3	0.05	7	0.2	0.9	<10	<2	8151
1194786	Soil		0.49	8.6	1.0	<0.05	0.1	2.26	9.0	0.02	2	0.3	1.3	<10	<2	1679
1194787	Soil		0.12	7.2	0.4	<0.05	2.0	26.76	10.0	0.03	2	2.1	9.8	<10	<2	1803
1194788	Soil		0.18	10.6	0.9	<0.05	<0.1	1.61	8.3	<0.02	2	0.2	1.1	<10	<2	1489
1194789	Soil		0.23	10.0	0.5	<0.05	0.1	2.25	5.9	0.02	3	0.2	1.3	<10	<2	831
1194790	Soil		0.07	8.1	0.7	<0.05	<0.1	2.34	3.6	<0.02	4	0.2	1.1	<10	<2	768
1194791	Soil		0.22	10.0	0.6	<0.05	<0.1	2.16	8.3	0.02	2	0.2	1.2	<10	<2	755
1194792	Soil		0.33	11.3	1.2	<0.05	0.1	2.62	8.0	0.02	<1	0.2	1.4	<10	<2	1046
1194793	Soil		0.20	8.7	0.8	<0.05	<0.1	2.08	11.3	<0.02	1	0.1	1.2	<10	<2	928
1194794	Soil		0.11	14.7	1.9	<0.05	<0.1	5.43	8.4	0.05	3	0.7	1.7	<10	<2	1302
1194795	Soil		0.11	13.3	0.4	<0.05	<0.1	5.14	6.5	0.04	5	0.5	1.5	<10	<2	1242
1194796	Soil		0.11	11.8	1.0	<0.05	0.1	3.60	7.9	0.03	3	0.5	1.7	<10	<2	1063
1194797	Soil		0.07	11.2	0.4	<0.05	0.1	4.76	9.1	0.03	6	0.5	1.6	<10	3	1276
1194798	Soil		0.14	16.8	1.8	<0.05	<0.1	3.27	8.5	0.04	2	0.5	1.8	<10	<2	1783

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194799	Soil		40.46	58.17	37.97	174.9	1874	37.0	2.9	31	3.67	23.1	4.5	0.5	0.2	199.0	3.87	3.90	0.30	197	0.17	0.190
1194800	Soil		14.96	21.61	14.02	119.9	485	23.9	1.1	17	0.70	5.5	1.2	<0.2	<0.1	12.6	0.96	1.90	0.14	110	0.10	0.041
1194851	Soil		75.86	51.71	27.09	132.0	1112	42.0	2.0	24	2.48	39.1	7.8	1.2	<0.1	20.8	0.70	7.01	0.20	322	0.02	0.120
1194852	Soil		15.35	15.57	10.83	76.4	227	12.2	1.9	39	0.97	8.9	0.7	<0.2	<0.1	7.9	0.21	0.38	0.17	110	0.06	0.045
1194853	Soil		19.63	33.49	11.96	140.5	858	30.5	3.4	32	1.40	10.2	1.3	<0.2	0.2	16.5	1.37	1.39	0.15	186	0.06	0.044
1194854	Soil		14.49	15.06	6.91	112.5	478	19.9	2.1	31	1.04	5.9	0.6	0.3	<0.1	5.2	0.39	1.33	0.12	133	0.06	0.030
1194855	Soil		9.17	9.37	10.13	63.2	607	11.1	1.4	33	0.74	3.2	0.6	0.9	<0.1	16.9	0.53	0.90	0.22	77	0.10	0.057
1194856	Soil		9.33	11.75	18.16	123.5	321	15.4	1.3	21	0.89	4.4	0.5	0.3	0.4	12.8	0.61	0.88	0.17	113	0.05	0.051
1194857	Soil		9.69	24.02	22.25	111.6	600	18.2	2.2	16	1.74	9.9	0.8	0.5	0.8	42.3	0.45	0.72	0.26	121	0.03	0.074
1194858	Soil		17.58	20.47	13.89	145.5	440	22.9	2.1	18	1.26	8.6	1.0	1.0	0.3	13.6	0.39	1.18	0.18	156	0.01	0.050
1194859	Soil		21.40	34.94	47.51	84.6	2549	24.5	1.7	64	1.60	11.2	6.6	14.7	0.2	114.6	3.18	1.81	0.53	196	0.17	0.147
1194860	Soil		14.55	17.74	19.54	162.9	498	23.1	2.2	18	1.50	9.7	0.9	0.4	0.5	25.9	1.44	1.33	0.20	141	0.03	0.066
1194861	Soil		19.91	20.46	20.54	174.4	337	24.9	2.4	24	1.84	12.9	0.9	<0.2	0.2	31.1	1.05	1.55	0.20	168	0.06	0.074
1194882	Soil		18.58	37.37	9.01	586.6	1324	73.7	3.9	187	1.22	16.7	5.0	0.6	1.0	21.1	7.70	3.98	0.16	312	0.80	0.134
1194883	Soil		29.20	27.24	23.87	407.2	207	53.4	3.3	27	1.92	16.6	1.4	<0.2	0.9	85.5	0.53	2.40	0.20	281	0.02	0.073
1194884	Soil		27.76	98.05	22.81	1624	2379	149.2	8.3	556	3.25	47.0	18.8	2.9	0.6	314.3	20.94	6.35	0.34	478	0.74	0.323
1194885	Soil		21.32	29.71	8.69	367.6	1414	52.6	3.0	78	1.34	14.3	3.7	1.1	0.3	34.1	2.26	3.20	0.14	215	0.48	0.136
1194886	Soil		26.59	26.23	8.57	318.0	367	48.5	2.2	50	0.99	10.4	2.8	0.5	0.4	20.9	1.85	2.93	0.12	218	0.15	0.061
1194887	Soil		42.46	45.40	20.28	343.8	808	65.6	4.0	43	2.74	31.6	4.8	24.9	0.7	141.7	3.41	9.85	0.20	253	0.04	0.163
1194888	Soil		32.96	29.94	28.20	178.0	551	29.4	1.8	23	1.62	13.8	2.5	0.2	0.6	59.1	1.46	2.00	0.21	158	0.07	0.082
1194889	Soil		44.76	38.34	25.01	436.5	780	78.2	4.3	163	3.21	29.2	3.1	1.6	1.1	41.6	1.91	5.08	0.37	399	0.03	0.120
1194890	Soil		33.58	41.34	15.43	485.8	278	85.7	4.2	78	1.72	21.1	4.6	1.0	0.9	39.7	2.68	4.17	0.20	341	0.31	0.156
1194891	Soil		38.79	36.96	15.45	404.0	427	77.3	4.8	121	1.57	19.7	3.1	0.5	0.2	49.0	3.13	6.03	0.20	297	0.24	0.073
1194892	Soil		36.35	25.66	13.92	275.1	288	53.4	2.6	22	1.35	14.5	1.9	<0.2	0.2	41.8	0.78	4.50	0.18	274	0.11	0.056
1194893	Soil		99.49	188.0	41.24	3455	6445	327.1	13.9	256	2.29	59.4	18.6	1.1	0.7	56.2	47.37	28.65	0.21	1172	1.20	0.395
1194894	Soil		64.31	62.54	29.50	796.3	302	146.6	8.3	988	1.66	24.8	8.4	0.3	0.5	37.0	10.29	7.67	0.18	558	0.49	0.199
1194895	Soil		191.8	122.2	43.94	1120	2446	359.2	5.1	46	2.16	52.0	16.9	0.9	1.0	29.7	12.21	24.60	0.20	942	0.47	0.299
1194896	Soil		42.46	60.67	22.97	537.2	944	83.3	3.1	78	1.58	29.5	6.6	0.4	0.6	6.3	2.71	12.30	0.21	536	0.16	0.143
1194897	Soil		30.33	84.03	27.12	1128	3649	156.6	6.1	181	1.35	18.0	7.2	1.1	0.5	40.0	15.85	11.01	0.17	378	1.90	0.397
1194898	Soil		9.63	33.12	15.50	284.5	131	40.7	1.4	20	1.05	9.4	4.7	<0.2	0.1	10.5	1.29	2.28	0.16	245	0.20	0.188

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194799	Soil		7.0	21.5	0.04	155.9	0.002	<20	0.70	0.023	0.43	<0.1	0.5	2.17	0.82	57	8.4	0.14	3.1	1.78	<0.1	<0.02
1194800	Soil		4.7	19.3	0.03	279.2	<0.001	<20	0.34	<0.001	0.06	<0.1	0.1	0.56	0.05	38	2.0	0.09	2.2	0.89	<0.1	<0.02
1194851	Soil		6.1	17.1	0.04	313.2	0.001	<20	1.09	<0.001	0.11	<0.1	0.2	3.14	0.20	182	4.3	0.19	3.6	1.88	<0.1	<0.02
1194852	Soil		4.5	17.0	0.06	161.6	0.001	<20	0.93	<0.001	0.10	<0.1	0.2	0.93	0.04	16	0.8	0.10	6.0	1.39	<0.1	<0.02
1194853	Soil		6.0	15.1	0.03	311.7	0.002	<20	0.49	<0.001	0.05	<0.1	0.2	0.48	0.04	36	1.6	0.11	3.7	0.77	<0.1	<0.02
1194854	Soil		7.1	12.8	0.04	105.1	0.004	<20	0.46	<0.001	0.05	<0.1	0.2	0.45	0.02	20	1.3	0.06	4.7	0.91	<0.1	<0.02
1194855	Soil		6.0	10.7	0.05	201.7	0.002	<20	0.60	0.001	0.13	<0.1	0.3	0.44	0.04	28	0.8	0.05	3.8	0.89	<0.1	<0.02
1194856	Soil		3.1	11.1	0.06	215.8	0.001	<20	0.84	0.002	0.12	<0.1	0.6	0.46	0.06	18	1.8	0.05	4.5	0.89	<0.1	<0.02
1194857	Soil		3.5	12.0	0.06	326.9	0.001	<20	0.99	0.006	0.19	<0.1	0.8	0.66	0.15	17	1.4	0.06	3.7	1.16	<0.1	<0.02
1194858	Soil		3.6	12.7	0.04	199.9	0.001	<20	0.77	0.002	0.09	<0.1	0.5	0.60	0.05	18	2.0	0.10	4.3	1.41	<0.1	<0.02
1194859	Soil		4.9	18.4	0.11	1959	<0.001	<20	1.47	<0.001	0.21	<0.1	0.6	1.74	0.11	695	12.5	0.12	3.4	1.70	<0.1	0.03
1194860	Soil		2.5	11.6	0.04	597.4	<0.001	<20	0.72	0.003	0.15	<0.1	0.6	0.66	0.12	9	1.8	0.06	3.1	0.90	<0.1	<0.02
1194861	Soil		3.9	13.1	0.05	547.4	0.002	<20	0.75	0.003	0.12	<0.1	0.6	0.77	0.13	20	2.6	0.08	4.3	1.10	<0.1	<0.02
1194882	Soil		13.3	24.8	0.15	308.5	0.003	<20	0.71	<0.001	0.08	<0.1	2.2	1.15	0.03	192	3.7	0.06	2.1	0.67	<0.1	0.03
1194883	Soil		7.0	17.0	0.07	153.2	0.002	<20	0.95	<0.001	0.07	<0.1	1.6	0.92	0.05	16	4.5	0.12	3.9	0.94	<0.1	<0.02
1194884	Soil		10.3	30.7	0.13	600.9	0.003	<20	1.34	<0.001	0.20	0.1	2.0	2.90	0.20	294	8.0	0.16	4.2	2.26	<0.1	0.04
1194885	Soil		12.6	20.0	0.18	218.4	0.004	<20	0.75	<0.001	0.09	<0.1	0.9	0.77	0.03	87	3.5	0.05	2.7	0.86	<0.1	<0.02
1194886	Soil		9.8	18.3	0.07	153.7	0.002	<20	0.56	0.002	0.08	<0.1	0.6	0.87	0.03	50	3.8	0.08	2.5	0.79	<0.1	<0.02
1194887	Soil		8.8	17.3	0.06	486.2	0.002	<20	0.76	0.006	0.16	0.1	1.3	1.42	0.19	42	8.3	0.12	2.5	1.13	<0.1	<0.02
1194888	Soil		5.4	13.9	0.05	293.9	0.001	<20	0.70	0.002	0.15	<0.1	1.0	1.08	0.15	31	3.5	0.10	2.6	1.85	<0.1	<0.02
1194889	Soil		7.5	20.3	0.06	266.0	0.002	<20	0.81	0.001	0.14	0.1	1.6	1.35	0.20	71	5.0	0.17	2.8	1.01	<0.1	<0.02
1194890	Soil		12.3	29.4	0.14	230.2	0.003	<20	0.85	<0.001	0.08	<0.1	1.3	0.87	0.04	75	4.7	0.14	2.8	1.01	<0.1	<0.02
1194891	Soil		9.1	19.4	0.08	357.7	0.003	<20	0.58	0.001	0.09	0.1	0.8	0.94	0.06	43	5.7	0.16	2.7	0.94	<0.1	<0.02
1194892	Soil		4.7	15.2	0.05	157.0	0.002	<20	0.55	<0.001	0.07	0.1	0.6	0.66	0.06	28	5.2	0.17	3.8	1.23	<0.1	<0.02
1194893	Soil		23.1	78.4	0.21	368.5	0.005	<20	1.14	<0.001	0.16	0.2	3.0	2.03	0.06	889	24.4	0.24	3.4	2.28	<0.1	0.03
1194894	Soil		14.3	32.3	0.12	381.1	0.003	<20	0.70	<0.001	0.12	0.2	1.2	1.75	0.10	109	8.6	0.14	2.5	1.07	<0.1	0.03
1194895	Soil		29.8	60.5	0.08	295.8	0.004	<20	0.82	<0.001	0.10	0.4	1.9	2.32	0.05	192	15.9	0.33	3.3	1.21	<0.1	<0.02
1194896	Soil		11.4	33.1	0.10	140.5	0.003	<20	0.68	<0.001	0.07	0.1	0.9	0.54	0.04	144	6.6	0.10	2.9	0.72	<0.1	<0.02
1194897	Soil		18.3	84.6	0.32	431.4	0.003	<20	0.64	0.001	0.11	0.2	2.0	0.58	0.05	315	7.8	0.15	2.4	1.01	<0.1	<0.02
1194898	Soil		12.3	49.5	0.05	184.3	0.001	<20	0.78	<0.001	0.05	<0.1	0.4	0.33	0.05	45	3.2	0.12	2.6	0.59	<0.1	<0.02

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Project: AKIE
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CERTIFICATE OF ANALYSIS VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194799	Soil		0.18	22.4	0.7	<0.05	<0.1	4.59	16.7	0.05	<1	0.5	1.5	<10	<2	1483
1194800	Soil		0.04	5.8	1.0	<0.05	<0.1	1.27	8.8	<0.02	2	0.2	1.1	<10	<2	771
1194851	Soil		0.23	11.7	0.6	<0.05	<0.1	4.89	11.9	0.03	8	0.3	1.7	<10	<2	764
1194852	Soil		0.11	8.3	1.1	<0.05	<0.1	1.90	9.1	<0.02	<1	0.2	1.8	<10	<2	771
1194853	Soil		0.10	5.2	0.7	<0.05	<0.1	3.30	11.8	<0.02	1	0.2	1.1	<10	<2	809
1194854	Soil		0.16	6.4	1.3	<0.05	<0.1	1.63	14.1	<0.02	<1	<0.1	1.1	<10	<2	617
1194855	Soil		0.11	13.8	0.8	<0.05	<0.1	1.39	10.9	0.02	<1	0.2	0.9	<10	<2	824
1194856	Soil		0.15	8.6	1.0	<0.05	0.1	1.22	5.8	0.02	1	0.3	1.3	<10	8	713
1194857	Soil		0.15	14.9	0.6	<0.05	0.2	1.81	6.9	0.03	2	0.3	1.7	<10	12	999
1194858	Soil		0.10	7.9	1.1	<0.05	0.1	2.22	6.5	0.02	<1	0.2	1.5	<10	7	854
1194859	Soil		0.16	17.3	0.7	<0.05	0.5	8.40	10.4	0.05	6	1.1	3.8	<10	11	3566
1194860	Soil		0.16	12.9	0.8	<0.05	0.2	2.02	4.6	0.02	1	0.3	1.6	<10	13	1452
1194861	Soil		0.19	9.8	0.9	<0.05	<0.1	2.27	7.0	<0.02	<1	0.3	1.8	<10	13	1208
1194882	Soil		0.37	9.0	0.5	<0.05	0.9	16.90	22.4	0.02	4	0.7	7.3	<10	12	1119
1194883	Soil		0.16	7.3	0.9	<0.05	0.3	3.89	12.3	0.03	2	0.4	3.8	<10	13	751
1194884	Soil		0.44	21.7	0.8	<0.05	1.1	20.63	21.3	0.06	3	1.5	9.9	<10	14	1217
1194885	Soil		0.23	8.2	0.5	<0.05	<0.1	10.46	22.8	0.02	7	0.4	9.2	<10	10	1065
1194886	Soil		0.23	8.1	0.5	<0.05	<0.1	6.21	16.6	<0.02	5	0.3	5.7	<10	11	942
1194887	Soil		0.11	9.6	0.6	<0.05	0.4	10.94	17.6	0.04	3	0.8	4.2	<10	12	1177
1194888	Soil		0.13	11.1	0.5	<0.05	0.1	4.90	8.6	0.02	4	0.6	3.2	<10	11	938
1194889	Soil		0.15	9.8	0.6	<0.05	0.4	9.16	13.1	0.03	5	0.6	4.1	<10	11	853
1194890	Soil		0.31	9.4	0.6	<0.05	0.3	12.82	20.4	0.03	7	0.6	8.6	<10	14	990
1194891	Soil		0.20	8.2	0.9	<0.05	<0.1	7.96	15.7	0.02	3	0.5	3.8	<10	13	1079
1194892	Soil		0.11	8.0	0.6	<0.05	<0.1	3.34	8.6	<0.02	6	0.3	2.4	<10	16	711
1194893	Soil		0.44	15.8	1.1	<0.05	0.7	47.08	31.3	0.05	12	2.5	12.0	<10	15	782
1194894	Soil		0.27	11.6	0.6	<0.05	0.6	21.82	24.8	0.03	7	0.8	7.0	<10	14	1044
1194895	Soil		0.64	12.4	1.1	<0.05	1.1	49.04	42.5	0.03	8	1.4	6.4	<10	13	875
1194896	Soil		0.15	7.2	0.8	<0.05	0.4	12.76	18.5	0.03	10	0.7	3.8	<10	15	692
1194897	Soil		0.15	8.9	0.9	<0.05	0.4	32.21	23.0	0.03	5	1.0	5.1	<10	13	846
1194898	Soil		0.12	6.3	0.6	<0.05	0.1	14.03	17.0	<0.02	2	0.4	4.0	<10	<2	590

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Project: AKIE
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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194899	Soil		47.55	91.84	13.18	303.0	419	83.6	1.1	32	1.18	37.2	23.3	<0.2	0.2	3.0	2.69	7.34	0.16	1219	0.03	0.090
1194900	Soil		74.04	39.95	56.71	253.8	689	55.4	3.2	23	2.43	15.7	1.7	<0.2	<0.1	37.7	0.99	3.18	0.42	261	0.05	0.087
1194901	Soil		94.51	71.90	34.09	428.3	1018	67.7	6.9	159	4.09	73.0	10.0	2.1	2.3	86.9	5.11	3.77	0.34	263	0.28	0.125
1194902	Soil		18.02	14.31	11.24	165.4	224	28.2	2.9	29	1.21	9.5	0.8	<0.2	1.4	13.1	1.02	2.00	0.10	88	0.14	0.022
1194903	Soil		34.09	20.77	30.35	321.9	400	47.1	2.6	20	1.55	16.1	1.6	<0.2	1.2	17.4	0.73	4.56	0.12	153	0.08	0.039
1194904	Soil		19.34	17.59	23.26	178.5	229	28.3	2.1	15	1.21	7.2	1.0	<0.2	0.8	32.8	0.61	1.59	0.12	75	0.08	0.044
1194905	Soil		25.04	15.52	25.54	183.9	298	30.3	2.0	19	1.18	8.7	1.0	<0.2	0.6	41.1	0.74	2.22	0.12	107	0.04	0.037
1194906	Soil		9.75	6.12	8.62	79.2	107	11.8	0.8	11	0.44	2.4	0.4	<0.2	0.4	5.9	0.38	0.78	0.06	80	0.03	0.016
1194907	Soil		27.08	45.14	21.79	485.6	727	87.9	4.7	151	1.49	12.1	2.7	1.0	0.8	37.6	3.80	3.79	0.15	173	1.01	0.081
1194908	Soil		30.79	29.23	20.41	438.2	424	61.5	2.6	82	1.25	13.8	3.3	0.3	0.4	24.4	3.95	3.09	0.13	240	0.45	0.091
1194909	Soil		25.61	30.05	18.98	640.7	960	96.5	3.7	169	1.20	10.0	4.6	<0.2	0.5	25.3	8.27	3.39	0.13	204	0.58	0.056
1194910	Soil		21.11	13.31	22.00	132.2	222	18.5	2.1	23	1.12	9.4	0.7	<0.2	1.0	19.7	0.80	1.26	0.12	75	0.04	0.037
1194911	Soil		13.51	10.76	14.86	209.6	153	31.9	2.8	36	1.12	5.6	0.8	1.1	1.9	7.7	2.90	1.53	0.10	82	0.13	0.040
1194912	Soil		23.00	24.71	20.45	236.6	337	31.8	2.8	29	1.42	8.6	1.4	1.1	1.2	16.5	5.25	2.06	0.14	109	0.14	0.041
1194913	Soil		22.74	26.70	31.93	378.5	624	49.4	4.8	78	1.67	13.2	1.5	1.7	1.8	15.3	4.62	2.36	0.13	140	0.14	0.055
1194914	Soil		21.73	15.55	31.19	270.4	272	33.5	2.6	32	1.32	10.6	0.9	<0.2	1.3	12.7	1.18	2.57	0.10	141	0.14	0.030
1194915	Soil		25.45	12.56	24.30	245.6	248	37.8	2.4	18	1.20	8.1	1.0	0.7	1.3	10.8	5.29	2.13	0.10	182	0.08	0.023
1194916	Soil		25.60	24.77	26.46	255.8	296	35.6	3.6	34	1.99	13.8	1.4	1.5	1.1	27.3	1.38	1.95	0.16	98	0.02	0.053
1194917	Soil		36.01	73.17	28.14	311.1	797	57.2	4.1	36	2.77	22.7	4.9	2.7	2.7	83.3	4.28	2.44	0.21	147	0.04	0.130
1194982	Soil		35.89	27.71	24.98	317.0	257	73.5	4.0	30	1.32	12.3	1.9	0.9	1.2	8.3	0.72	2.08	0.14	239	0.10	0.084
1194983	Soil		26.20	29.98	15.52	496.3	608	75.4	5.2	167	1.55	13.0	2.9	1.3	1.0	25.4	4.05	3.06	0.17	154	0.75	0.122
1194984	Soil		26.40	19.61	21.23	270.4	97	54.0	2.6	28	1.25	11.1	2.5	1.2	0.4	9.1	1.59	1.90	0.15	199	0.12	0.129
1194985	Soil		22.53	26.35	14.00	468.6	559	66.4	4.6	112	1.44	13.2	3.2	1.1	0.8	18.1	4.56	2.13	0.14	205	0.45	0.086
1194986	Soil		17.81	25.93	24.93	280.4	618	51.6	4.5	57	1.48	9.5	4.0	1.0	1.0	33.2	4.90	1.77	0.17	108	0.77	0.057
1194987	Soil		17.81	23.77	29.15	226.4	331	35.7	2.4	46	1.18	9.0	2.0	1.1	0.6	18.1	1.31	1.69	0.11	142	0.18	0.099
1194988	Soil		32.82	21.46	38.06	497.5	207	58.8	3.9	51	1.77	13.9	2.0	<0.2	1.7	10.3	0.83	2.06	0.13	255	0.05	0.082
1194989	Soil		12.44	7.47	11.86	100.0	231	18.7	1.3	18	0.57	4.5	0.7	<0.2	0.7	7.0	0.43	0.80	0.11	102	0.02	0.019
1194990	Soil		10.56	6.09	5.37	73.4	108	11.1	1.0	10	0.40	2.5	0.4	0.5	1.2	3.0	0.24	1.04	0.05	58	0.02	0.013
1194991	Soil		18.24	15.72	17.98	213.8	168	36.9	3.2	39	1.55	10.9	0.9	0.5	3.0	9.4	0.56	1.24	0.13	108	0.02	0.045
1194992	Soil		10.28	7.64	8.93	98.8	91	15.7	1.4	13	0.61	4.9	0.6	<0.2	2.0	5.9	0.35	1.09	0.06	61	0.02	0.015

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194899	Soil		14.4	41.3	0.04	172.9	0.002	<20	0.55	<0.001	0.09	0.3	0.4	2.55	0.06	94	1.6	0.23	2.5	0.97	<0.1	<0.02
1194900	Soil		4.0	20.5	0.03	308.2	0.001	<20	0.56	<0.001	0.17	0.1	0.3	1.33	0.28	19	4.0	0.17	3.4	1.60	<0.1	<0.02
1194901	Soil		5.3	17.6	0.11	1176	0.001	<20	0.97	<0.001	0.25	0.1	2.8	1.90	0.20	56	6.3	0.21	2.1	0.27	<0.1	<0.02
1194902	Soil		4.6	5.6	0.04	180.5	<0.001	<20	0.24	<0.001	0.10	<0.1	0.9	0.29	0.04	16	1.9	0.06	0.9	0.22	<0.1	<0.02
1194903	Soil		3.9	6.4	0.03	151.5	<0.001	<20	0.23	0.001	0.11	<0.1	1.1	0.61	0.09	11	4.0	0.09	1.0	0.22	<0.1	<0.02
1194904	Soil		3.2	7.5	0.03	205.1	0.001	<20	0.34	<0.001	0.11	<0.1	1.0	0.37	0.06	<5	2.1	0.11	1.5	0.50	<0.1	<0.02
1194905	Soil		6.3	7.1	0.03	150.3	0.002	<20	0.28	0.003	0.09	<0.1	0.8	0.51	0.07	<5	2.6	0.09	1.6	0.44	<0.1	<0.02
1194906	Soil		7.9	6.6	0.03	74.6	0.003	<20	0.39	0.002	0.04	<0.1	0.5	0.31	<0.02	<5	0.9	<0.02	2.3	0.49	<0.1	<0.02
1194907	Soil		5.8	14.2	0.09	508.6	0.002	<20	0.47	<0.001	0.13	<0.1	1.7	0.70	0.06	167	5.4	0.06	1.4	0.45	<0.1	0.02
1194908	Soil		6.7	15.4	0.07	250.5	0.002	<20	0.43	<0.001	0.10	0.1	1.1	0.70	0.03	83	3.3	0.08	1.5	0.42	<0.1	<0.02
1194909	Soil		8.1	15.2	0.07	306.3	0.002	<20	0.48	<0.001	0.09	<0.1	1.3	0.58	0.02	90	3.5	0.09	1.7	0.41	<0.1	<0.02
1194910	Soil		3.8	5.3	0.02	157.5	<0.001	<20	0.26	0.003	0.09	<0.1	0.8	0.45	0.08	<5	1.9	0.09	1.2	0.34	<0.1	<0.02
1194911	Soil		9.0	7.7	0.04	125.7	0.002	<20	0.25	<0.001	0.09	<0.1	0.7	0.24	<0.02	<5	1.3	<0.02	1.2	0.16	<0.1	<0.02
1194912	Soil		6.2	8.7	0.04	275.0	<0.001	<20	0.32	<0.001	0.10	<0.1	1.3	0.32	0.07	20	2.7	0.09	1.4	0.28	<0.1	<0.02
1194913	Soil		8.0	14.0	0.05	330.7	0.001	<20	0.46	0.001	0.11	<0.1	1.8	0.43	0.05	48	3.2	0.10	1.4	0.26	<0.1	<0.02
1194914	Soil		5.6	9.4	0.04	226.8	0.001	<20	0.32	<0.001	0.06	<0.1	0.9	0.34	0.04	17	3.0	0.08	1.4	0.21	<0.1	<0.02
1194915	Soil		5.2	9.1	0.03	171.5	0.001	<20	0.36	<0.001	0.06	<0.1	0.7	0.45	0.05	<5	2.5	0.06	1.6	0.34	<0.1	<0.02
1194916	Soil		3.5	8.0	0.03	344.7	<0.001	<20	0.41	0.003	0.12	<0.1	1.2	0.58	0.12	20	2.6	0.12	1.6	0.51	<0.1	<0.02
1194917	Soil		4.6	18.3	0.05	405.1	<0.001	<20	0.99	0.002	0.17	<0.1	2.7	0.90	0.21	115	4.5	0.15	2.2	0.75	<0.1	<0.02
1194982	Soil		6.0	20.9	0.04	94.1	0.002	<20	0.60	<0.001	0.07	<0.1	0.9	0.49	0.03	36	4.3	0.11	3.9	0.58	<0.1	<0.02
1194983	Soil		12.8	17.4	0.10	266.0	0.002	<20	0.52	<0.001	0.10	<0.1	1.7	0.52	0.04	131	3.0	0.08	1.6	0.47	<0.1	<0.02
1194984	Soil		7.7	17.7	0.05	138.6	0.002	<20	0.59	<0.001	0.06	<0.1	0.5	0.69	0.02	38	2.6	0.07	2.4	0.47	<0.1	<0.02
1194985	Soil		12.5	17.6	0.09	350.4	0.002	<20	0.57	<0.001	0.08	<0.1	1.3	0.64	0.03	91	2.8	0.04	1.7	0.42	<0.1	<0.02
1194986	Soil		7.7	15.8	0.07	407.0	0.001	<20	0.53	0.003	0.10	<0.1	1.5	0.59	0.07	112	2.1	0.08	1.6	0.36	<0.1	<0.02
1194987	Soil		8.8	14.1	0.05	193.7	0.002	<20	0.53	<0.001	0.10	<0.1	0.8	0.50	0.04	70	1.9	0.06	2.0	0.54	<0.1	<0.02
1194988	Soil		7.3	17.8	0.06	102.7	0.002	<20	0.73	<0.001	0.07	<0.1	1.3	0.67	0.03	25	3.0	0.08	3.4	0.66	<0.1	<0.02
1194989	Soil		9.7	10.3	0.04	55.9	0.005	<20	0.43	<0.001	0.04	<0.1	0.5	0.47	<0.02	13	1.1	0.03	4.6	0.53	<0.1	<0.02
1194990	Soil		11.1	6.5	0.02	48.6	0.003	<20	0.27	<0.001	0.04	<0.1	0.4	0.30	<0.02	<5	0.7	0.03	2.8	0.40	<0.1	<0.02
1194991	Soil		11.6	11.1	0.04	77.7	0.002	<20	0.49	<0.001	0.06	<0.1	1.1	0.35	0.03	13	2.0	0.05	2.3	0.55	<0.1	<0.02
1194992	Soil		9.5	6.9	0.02	60.5	0.002	<20	0.26	<0.001	0.06	<0.1	0.5	0.23	<0.02	<5	1.3	<0.02	1.5	0.35	<0.1	0.02

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Project: AKIE
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CERTIFICATE OF ANALYSIS VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194899	Soil		0.20	10.7	0.7	<0.05	0.2	9.21	19.5	<0.02	6	0.6	3.2	<10	15	550
1194900	Soil		0.05	11.3	0.7	<0.05	<0.1	2.33	6.8	0.04	<1	0.2	1.3	<10	<2	901
1194901	Soil		0.18	8.5	0.6	<0.05	0.8	18.09	10.6	0.04	4	1.0	4.3	<10	12	2555
1194902	Soil		0.14	5.3	0.2	<0.05	0.3	2.81	8.1	<0.02	3	0.2	1.2	<10	14	1050
1194903	Soil		0.12	6.3	0.4	<0.05	<0.1	3.66	6.6	<0.02	3	0.3	1.5	<10	13	1012
1194904	Soil		0.11	8.5	0.2	<0.05	0.1	3.10	5.5	<0.02	4	0.2	1.2	<10	<2	1100
1194905	Soil		0.14	8.1	0.5	<0.05	<0.1	3.01	11.0	<0.02	2	0.1	1.1	<10	13	973
1194906	Soil		0.09	3.4	0.4	<0.05	<0.1	1.43	14.6	<0.02	2	0.1	1.0	<10	11	686
1194907	Soil		0.36	8.2	0.6	<0.05	1.0	10.18	10.0	0.02	7	0.7	3.9	<10	<2	1361
1194908	Soil		0.19	6.4	0.3	<0.05	0.2	7.94	11.3	0.03	11	0.5	3.2	<10	11	1052
1194909	Soil		0.26	8.0	0.5	<0.05	0.3	9.94	14.1	<0.02	5	0.4	3.2	<10	10	1156
1194910	Soil		0.10	4.9	0.3	<0.05	0.1	2.29	6.4	<0.02	<1	0.2	1.0	<10	9	1179
1194911	Soil		0.18	5.5	0.6	<0.05	0.4	2.45	16.8	<0.02	1	<0.1	1.7	<10	<2	968
1194912	Soil		0.15	6.1	0.3	<0.05	<0.1	4.22	10.9	0.02	2	0.6	1.2	<10	<2	1159
1194913	Soil		0.22	6.4	0.4	<0.05	0.4	9.02	15.1	0.02	5	0.4	3.7	<10	<2	1453
1194914	Soil		0.28	5.4	0.3	<0.05	0.5	2.68	10.2	<0.02	1	<0.1	2.7	<10	<2	1038
1194915	Soil		0.28	5.3	0.5	<0.05	0.3	2.23	8.8	<0.02	3	0.2	0.9	<10	<2	776
1194916	Soil		0.09	8.5	0.3	<0.05	0.1	4.12	6.6	0.02	3	0.4	1.6	<10	<2	1540
1194917	Soil		0.19	10.9	3.4	<0.05	1.2	13.63	9.6	0.03	10	1.3	6.1	<10	<2	1371
1194982	Soil		0.35	8.0	0.7	<0.05	0.3	4.40	12.0	<0.02	2	0.2	2.2	<10	<2	742
1194983	Soil		0.21	7.5	0.4	<0.05	0.4	15.91	22.2	0.03	8	0.5	4.4	<10	<2	1026
1194984	Soil		0.27	5.9	0.5	<0.05	0.2	5.80	14.0	<0.02	4	0.4	3.2	<10	<2	846
1194985	Soil		0.26	8.1	0.5	<0.05	0.2	13.93	21.6	0.02	7	0.5	6.2	<10	<2	1112
1194986	Soil		0.25	7.2	0.3	<0.05	0.6	9.36	13.8	0.03	5	0.9	4.3	<10	<2	1059
1194987	Soil		0.21	7.8	0.5	<0.05	0.1	7.40	15.7	<0.02	2	0.4	3.0	<10	<2	970
1194988	Soil		0.33	9.1	0.5	<0.05	0.3	5.07	14.1	0.02	3	0.4	3.7	<10	<2	717
1194989	Soil		0.31	5.8	1.0	<0.05	0.1	1.75	18.4	<0.02	<1	0.2	1.8	<10	<2	625
1194990	Soil		0.14	3.7	0.4	<0.05	0.1	1.58	20.8	<0.02	1	<0.1	0.7	<10	<2	562
1194991	Soil		0.29	9.2	0.5	<0.05	1.2	3.01	22.8	<0.02	<1	0.2	2.9	<10	<2	776
1194992	Soil		0.19	7.5	0.3	<0.05	1.3	1.95	18.9	<0.02	<1	<0.1	1.1	<10	<2	713

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194993	Soil		12.10	8.81	11.91	134.4	65	18.4	1.8	14	0.75	4.9	0.6	0.4	1.9	6.7	0.80	1.23	0.06	54	0.04	0.019
1194994	Soil		23.79	22.63	16.51	186.4	354	30.4	2.8	24	1.27	10.3	0.9	0.7	0.9	8.1	0.65	1.35	0.11	119	0.02	0.050
1194995	Soil		20.37	15.35	17.98	162.3	234	25.3	2.8	24	1.18	9.7	1.0	<0.2	1.8	14.2	1.22	1.79	0.10	84	0.04	0.035
1194996	Soil		15.08	9.63	19.90	128.1	161	16.6	1.7	16	0.87	5.6	0.6	<0.2	1.6	13.7	0.35	1.14	0.07	69	0.02	0.023
1194997	Soil		31.74	11.20	40.98	491.8	179	41.6	2.8	47	1.85	12.0	0.9	<0.2	1.5	7.8	3.64	1.38	0.11	283	0.22	0.020
1194998	Soil		48.76	46.76	198.9	2671	1348	138.9	12.9	455	2.19	23.4	4.9	1.2	1.6	35.3	23.09	3.80	0.12	288	2.33	0.060
1194999	Soil		58.35	25.00	247.0	2046	603	98.5	11.2	411	2.49	26.9	3.1	0.7	2.4	11.1	13.91	1.75	0.15	480	0.51	0.021
1195000	Soil		24.41	17.48	52.45	614.4	515	44.9	4.7	127	1.57	9.4	1.8	<0.2	0.8	21.8	8.36	1.85	0.13	208	0.40	0.062
1195001	Soil		20.28	12.98	15.73	189.3	410	32.3	1.9	16	1.13	7.7	0.7	0.5	0.5	12.3	1.51	1.42	0.11	147	0.05	0.031
1195002	Soil		21.21	31.91	18.58	655.7	1866	97.7	8.1	209	1.41	12.0	4.0	1.5	0.9	42.2	8.41	2.96	0.10	144	1.75	0.212
1195079	Soil		39.93	15.02	9.90	294.8	83	64.8	2.4	19	1.04	10.2	1.0	0.4	0.6	3.4	0.58	2.55	0.09	291	0.03	0.021
1195080	Soil		40.18	10.82	7.25	249.6	217	75.4	1.6	6	0.81	8.4	1.6	<0.2	0.9	5.2	0.85	2.58	0.07	404	0.12	0.026
1195057	Soil		21.21	11.04	12.28	70.2	142	11.8	0.9	33	0.80	10.5	2.3	<0.2	0.6	14.2	0.46	0.90	0.13	64	0.05	0.025
1195058	Soil		14.95	16.81	11.70	109.9	209	19.0	1.6	21	1.05	10.2	1.1	1.5	0.9	21.7	1.25	1.58	0.13	96	0.03	0.041
1195059	Soil		16.79	13.64	13.31	116.2	138	18.2	1.9	18	1.12	11.3	0.9	<0.2	1.3	19.1	0.41	1.45	0.14	102	<0.01	0.029
1195060	Soil		31.08	20.84	17.75	131.2	529	20.0	2.4	29	2.26	19.3	1.3	1.2	0.8	29.2	2.38	1.80	0.19	101	0.05	0.047
1195061	Soil		17.44	26.17	12.23	112.2	308	21.2	1.6	15	1.17	12.0	2.3	1.0	1.1	29.3	0.82	1.30	0.13	100	0.03	0.038
1195062	Soil		24.04	135.3	20.07	1204	1017	253.3	43.5	3088	8.10	19.4	9.6	2.5	3.7	77.4	13.76	2.56	0.22	110	0.87	0.095
1195063	Soil		11.65	58.23	16.40	341.7	1088	47.4	5.1	53	2.21	8.2	3.0	1.6	0.9	31.2	3.57	2.86	0.22	113	0.19	0.078
1195064	Soil		18.90	12.88	10.48	71.1	171	13.9	1.1	13	0.71	7.5	1.5	0.9	0.9	23.1	0.74	1.32	0.15	82	0.08	0.015
1195065	Soil		9.06	18.50	11.72	115.1	538	17.4	1.7	15	1.07	6.2	0.9	0.4	0.4	14.0	3.78	2.39	0.14	104	0.13	0.045
1195066	Soil		15.31	30.88	16.84	183.3	834	71.6	3.1	100	1.40	10.7	5.2	3.3	0.6	85.8	2.72	1.50	0.23	110	0.66	0.074
1195067	Soil		14.65	48.93	16.60	426.9	655	87.7	8.1	241	2.61	12.9	8.1	1.6	1.3	88.7	4.50	1.61	0.20	139	0.69	0.077
1195068	Soil		19.93	30.93	15.28	214.1	216	45.1	3.8	18	2.70	13.5	1.5	0.4	1.3	57.3	1.85	1.91	0.22	120	0.29	0.055
1195069	Soil		30.43	48.31	30.36	281.5	1410	96.3	16.8	358	3.36	27.4	4.2	1.4	1.3	67.7	3.77	3.30	0.25	304	0.49	0.090
1195070	Soil		23.32	39.73	17.88	276.3	198	48.7	4.9	69	2.29	19.4	2.4	1.1	1.3	38.1	1.12	3.61	0.22	142	0.10	0.097
1195071	Soil		13.20	12.37	11.49	90.3	148	14.9	1.8	19	0.89	8.1	0.7	0.5	0.9	9.9	0.33	1.06	0.12	82	0.01	0.024
1195072	Soil		278.5	31.79	20.00	711.9	1037	98.6	31.9	953	13.83	47.2	6.2	1.1	2.3	23.0	2.35	2.68	0.18	188	0.04	0.322
1195073	Soil		85.75	38.67	18.80	456.8	1132	144.9	16.1	718	3.93	38.3	8.4	2.0	1.3	79.7	2.74	2.93	0.26	386	0.92	0.097
1195074	Soil		20.14	22.29	18.38	136.6	145	20.2	2.6	25	1.39	11.1	0.9	<0.2	0.9	25.1	0.51	1.32	0.16	98	0.02	0.035

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194993	Soil		8.9	5.3	0.02	58.8	0.001	<20	0.27	<0.001	0.05	<0.1	0.6	0.21	<0.02	8	1.3	0.04	1.5	0.31	<0.1	<0.02
1194994	Soil		5.2	10.4	0.04	199.5	0.001	<20	0.51	<0.001	0.07	<0.1	0.9	0.49	0.04	16	2.5	0.09	2.9	0.65	<0.1	<0.02
1194995	Soil		7.2	9.1	0.03	127.1	0.002	<20	0.33	0.001	0.07	<0.1	1.1	0.38	0.04	8	2.2	0.08	1.8	0.37	<0.1	<0.02
1194996	Soil		7.2	5.4	0.02	108.9	0.002	<20	0.26	0.001	0.07	<0.1	0.6	0.33	0.04	8	1.5	0.06	1.6	0.39	<0.1	<0.02
1194997	Soil		5.6	13.9	0.07	368.5	0.005	<20	0.62	<0.001	0.03	<0.1	0.9	0.46	<0.02	<5	1.9	0.12	3.7	0.35	<0.1	<0.02
1194998	Soil		10.8	20.1	0.09	493.2	0.001	<20	0.63	<0.001	0.06	0.1	3.0	0.77	0.06	100	4.5	0.25	3.0	0.30	<0.1	0.04
1194999	Soil		10.6	25.1	0.08	793.5	<0.001	<20	0.85	<0.001	0.10	0.1	3.2	1.05	<0.02	37	2.7	0.30	4.0	0.20	<0.1	0.03
1195000	Soil		4.2	13.7	0.06	593.4	0.001	<20	0.52	<0.001	0.13	<0.1	1.2	0.60	0.04	22	2.3	0.07	2.1	0.25	<0.1	<0.02
1195001	Soil		3.5	10.9	0.03	399.0	<0.001	<20	0.42	<0.001	0.09	<0.1	0.6	0.46	0.04	9	2.1	0.09	2.1	0.47	<0.1	<0.02
1195002	Soil		14.2	18.7	0.15	546.5	0.002	<20	0.59	<0.001	0.06	<0.1	2.1	0.44	0.06	219	3.5	0.05	1.3	0.32	<0.1	<0.02
1195079	Soil		7.0	12.1	0.03	67.6	0.003	<20	0.47	<0.001	0.05	<0.1	0.7	0.78	<0.02	17	3.5	0.09	3.1	0.46	<0.1	<0.02
1195080	Soil		2.8	17.3	0.04	116.7	0.002	<20	0.55	<0.001	0.06	<0.1	0.9	1.04	<0.02	18	2.3	0.11	3.3	0.62	<0.1	<0.02
1195057	Soil		1.3	6.5	0.03	244.9	<0.001	<20	0.30	0.003	0.12	<0.1	0.9	0.33	0.08	69	0.9	0.05	1.1	0.50	<0.1	<0.02
1195058	Soil		4.6	8.2	0.03	776.4	0.001	<20	0.39	0.004	0.10	<0.1	0.8	0.52	0.09	28	1.5	0.05	1.6	0.48	<0.1	<0.02
1195059	Soil		4.9	7.0	0.02	200.9	0.002	<20	0.37	0.003	0.08	<0.1	0.8	0.61	0.08	6	1.9	0.06	2.0	0.54	<0.1	<0.02
1195060	Soil		5.1	10.1	0.03	292.8	0.004	<20	0.45	0.009	0.11	<0.1	1.0	1.24	0.17	24	2.4	0.10	2.4	0.84	<0.1	<0.02
1195061	Soil		4.3	9.1	0.03	628.9	<0.001	<20	0.52	0.003	0.10	<0.1	1.0	0.57	0.11	49	1.9	0.08	1.8	0.54	<0.1	<0.02
1195062	Soil		9.7	22.6	0.18	1674	0.003	<20	1.66	<0.001	0.14	<0.1	9.6	0.57	0.06	229	3.7	0.06	2.6	0.82	<0.1	0.10
1195063	Soil		5.4	15.6	0.06	297.8	0.002	<20	0.80	0.002	0.11	<0.1	1.9	0.38	0.04	35	5.4	0.11	3.4	1.74	<0.1	<0.02
1195064	Soil		2.9	6.2	0.03	443.7	<0.001	<20	0.40	<0.001	0.08	<0.1	0.8	0.91	0.06	26	0.9	0.07	1.4	0.69	<0.1	<0.02
1195065	Soil		4.4	11.5	0.05	242.5	0.001	<20	0.62	0.001	0.10	<0.1	0.9	0.37	0.04	30	2.4	0.08	3.8	1.78	<0.1	<0.02
1195066	Soil		3.0	10.8	0.09	935.2	<0.001	<20	0.67	0.003	0.14	<0.1	1.6	1.20	0.10	208	3.1	0.07	1.8	1.08	<0.1	0.03
1195067	Soil		4.4	14.8	0.12	581.9	<0.001	<20	0.89	0.002	0.16	<0.1	2.8	0.62	0.07	128	3.8	0.09	2.7	1.11	<0.1	0.02
1195068	Soil		3.7	10.1	0.08	403.7	0.001	<20	0.50	0.001	0.13	<0.1	1.5	0.37	0.05	22	2.1	0.07	2.5	1.07	<0.1	<0.02
1195069	Soil		5.5	17.0	0.15	1265	0.002	<20	1.14	<0.001	0.17	<0.1	2.1	1.25	0.12	124	5.8	0.08	3.7	1.37	<0.1	<0.02
1195070	Soil		2.3	9.8	0.05	2627	<0.001	<20	0.69	<0.001	0.13	<0.1	1.9	0.67	0.07	41	3.0	0.09	1.9	1.00	<0.1	<0.02
1195071	Soil		5.1	6.9	0.03	113.5	0.002	<20	0.49	<0.001	0.08	<0.1	0.8	0.56	0.03	6	1.1	0.06	2.6	1.24	<0.1	<0.02
1195072	Soil		3.8	20.5	0.07	1365	0.001	<20	1.13	<0.001	0.18	<0.1	2.5	1.40	0.09	129	6.0	0.07	2.9	1.74	0.1	0.05
1195073	Soil		5.7	22.0	0.18	865.3	0.001	<20	1.00	<0.001	0.14	<0.1	2.4	1.10	0.05	154	4.5	0.11	2.9	1.27	<0.1	0.04
1195074	Soil		6.2	8.3	0.03	258.5	0.002	<20	0.46	0.002	0.09	<0.1	1.0	0.59	0.07	11	1.5	0.09	3.7	1.33	<0.1	<0.02

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Project: AKIE
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CERTIFICATE OF ANALYSIS VAN11004919.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194993	Soil	0.13	5.9	0.4	<0.05	0.7	1.99	16.8	<0.02	<1	<0.1	0.9	<10	<2	722
1194994	Soil	0.20	8.5	0.5	<0.05	0.1	2.91	9.9	<0.02	1	0.1	2.0	<10	<2	841
1194995	Soil	0.18	6.8	0.6	<0.05	0.6	2.90	13.8	<0.02	2	0.3	1.2	<10	<2	892
1194996	Soil	0.17	8.7	0.3	<0.05	0.3	2.30	13.7	<0.02	<1	0.2	1.1	<10	<2	839
1194997	Soil	0.75	3.8	0.7	<0.05	1.5	2.33	10.4	<0.02	<1	0.2	4.7	<10	<2	878
1194998	Soil	0.27	5.3	0.5	<0.05	2.9	28.56	13.7	0.03	2	1.3	2.5	<10	<2	878
1194999	Soil	0.21	6.8	1.0	<0.05	2.0	16.13	17.0	0.02	<1	1.1	3.5	<10	<2	1283
1195000	Soil	0.27	7.7	0.4	<0.05	0.3	4.78	7.0	<0.02	3	0.6	3.5	<10	<2	1343
1195001	Soil	0.14	8.8	1.0	<0.05	<0.1	1.91	6.3	<0.02	2	0.2	1.1	<10	<2	1108
1195002	Soil	0.23	4.8	0.3	<0.05	1.3	27.42	24.1	0.02	8	1.1	3.6	<10	<2	1238
1195079	Soil	0.22	3.9	0.6	<0.05	<0.1	2.57	13.4	<0.02	<1	<0.1	1.3	<10	<2	580
1195080	Soil	0.20	5.6	0.6	<0.05	0.4	2.53	4.9	<0.02	4	0.2	1.8	<10	<2	496
1195057	Soil	0.07	8.7	0.3	<0.05	0.4	2.41	2.7	<0.02	15	0.2	1.3	<10	<2	1318
1195058	Soil	0.14	8.8	0.2	<0.05	0.1	2.29	8.1	<0.02	5	0.1	1.7	<10	<2	1964
1195059	Soil	0.17	9.9	0.4	<0.05	0.3	2.37	9.3	<0.02	4	0.2	1.5	<10	<2	878
1195060	Soil	0.34	9.8	0.5	<0.05	0.1	3.63	9.5	0.03	3	0.3	1.8	<10	<2	1026
1195061	Soil	0.13	7.4	0.6	<0.05	0.3	4.83	8.1	<0.02	6	0.3	2.0	<10	<2	1572
1195062	Soil	0.42	11.5	0.4	<0.05	3.7	74.45	19.2	0.05	12	3.8	16.2	<10	<2	2595
1195063	Soil	0.39	11.0	6.2	<0.05	0.2	6.09	11.2	0.02	4	0.6	1.6	<10	<2	943
1195064	Soil	0.12	7.8	0.3	<0.05	<0.1	3.34	6.0	<0.02	6	0.2	1.5	<10	3	1285
1195065	Soil	0.29	7.3	2.8	<0.05	0.2	2.15	8.8	0.03	3	0.2	1.0	<10	<2	836
1195066	Soil	0.19	11.6	0.4	<0.05	0.6	7.82	6.5	0.03	18	0.5	3.3	<10	<2	1974
1195067	Soil	0.22	12.3	0.5	<0.05	0.6	8.60	8.8	0.04	7	0.8	4.8	<10	<2	1463
1195068	Soil	0.35	13.2	0.5	<0.05	<0.1	3.90	7.5	0.02	3	0.2	1.9	<10	<2	1375
1195069	Soil	0.37	14.7	0.7	<0.05	0.3	8.11	12.4	0.05	4	0.7	8.7	<10	<2	2086
1195070	Soil	0.12	10.2	0.3	<0.05	0.4	4.88	4.8	0.03	10	0.5	2.1	<10	<2	5804
1195071	Soil	0.21	10.0	0.6	<0.05	<0.1	2.16	10.1	<0.02	1	0.1	1.2	<10	<2	907
1195072	Soil	0.21	16.4	0.5	<0.05	1.5	5.64	7.6	0.03	1	0.6	3.1	<10	<2	2924
1195073	Soil	0.24	14.2	0.7	<0.05	0.9	8.57	10.5	0.02	9	0.8	4.9	<10	2	1632
1195074	Soil	0.18	10.9	0.5	<0.05	<0.1	2.21	12.6	<0.02	3	<0.1	1.3	<10	3	1196

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1195075	Soil		27.42	68.49	17.47	413.6	2008	196.9	5.6	162	2.01	12.0	9.7	4.7	0.7	106.3	9.17	2.55	0.22	177	1.37	0.097
1195076	Soil		11.47	84.93	11.87	348.3	1318	177.8	7.1	437	1.58	7.1	21.3	3.2	0.7	125.0	7.49	1.94	0.28	62	1.58	0.105
1195077	Soil		30.43	102.1	21.88	387.8	910	89.4	12.2	272	2.11	14.9	14.2	2.4	0.8	83.8	9.46	2.58	0.23	224	1.10	0.104
1195078	Soil		2.45	5.71	3.95	28.5	41	3.8	0.4	6	0.14	1.6	0.5	1.6	0.3	4.0	0.58	0.35	0.06	61	0.02	0.013
1195082	Soil		17.63	105.9	18.69	1777	1973	221.1	14.3	343	3.63	9.5	9.3	2.7	1.4	66.4	51.27	2.27	0.22	96	1.05	0.086
1195083	Soil		33.63	69.80	15.52	3317	1713	334.8	18.0	339	5.72	18.3	17.0	0.9	3.3	66.2	35.25	3.48	0.18	350	0.65	0.164
1195084	Soil		11.78	22.42	19.92	210.0	1061	19.0	2.0	15	1.68	10.3	0.9	<0.2	0.8	37.1	0.78	2.34	0.17	167	0.02	0.060
1195085	Soil		14.83	55.01	17.33	1483	1263	117.3	7.5	142	1.97	16.4	5.4	1.8	1.2	43.2	27.56	2.10	0.21	196	0.72	0.112
1195086	Soil		1.21	4.72	3.84	30.9	114	2.8	0.3	5	0.18	1.1	0.5	<0.2	0.4	3.4	0.75	0.23	0.05	67	0.03	0.016
1195087	Soil		11.47	16.34	16.49	239.7	276	28.2	2.0	45	1.33	14.5	1.5	0.5	0.7	8.6	1.29	2.20	0.17	255	0.09	0.101
1195088	Soil		9.89	40.97	14.76	880.3	1899	69.8	4.7	156	1.86	13.4	8.5	1.6	1.3	24.5	10.34	2.44	0.17	147	0.34	0.104
1195089	Soil		8.19	23.24	12.37	251.0	727	21.4	4.0	150	1.55	11.1	3.8	0.8	0.5	14.8	4.00	1.34	0.14	139	0.18	0.071
1195090	Soil		6.24	7.31	7.64	87.6	111	12.8	1.2	17	0.72	6.3	0.5	<0.2	1.1	4.3	0.27	1.27	0.09	93	0.01	0.023
1195091	Soil		13.70	11.09	20.35	131.0	246	22.0	2.0	30	1.54	17.0	0.9	<0.2	1.7	16.9	0.46	1.65	0.18	183	0.01	0.074
1195092	Soil		10.52	8.82	12.52	50.1	88	9.1	0.8	9	0.60	7.1	1.0	<0.2	0.7	9.6	0.33	0.88	0.15	82	0.02	0.016
1195093	Soil		6.65	11.19	7.04	44.2	92	7.0	0.6	8	0.44	3.4	0.9	<0.2	0.3	7.7	2.39	0.65	0.09	55	0.04	0.013
1195094	Soil		10.96	30.35	12.85	215.1	1280	36.6	3.7	177	1.24	11.4	5.5	1.2	0.9	32.5	4.28	1.32	0.17	145	0.43	0.056
1195095	Soil		7.10	20.46	10.49	199.8	1076	32.5	3.1	72	1.13	7.4	2.0	0.9	1.0	31.0	4.09	1.44	0.15	82	0.84	0.044
1195096	Soil		8.13	13.15	8.25	135.1	545	15.1	1.1	31	0.69	5.7	1.7	0.4	0.6	12.9	2.20	0.96	0.10	108	0.08	0.052
1195097	Soil		11.24	16.92	11.86	161.9	284	21.9	1.8	45	1.01	10.0	1.7	<0.2	0.9	16.0	2.64	1.38	0.14	123	0.08	0.053
1195098	Soil		13.21	27.77	12.64	225.0	637	34.0	4.3	101	1.59	14.9	3.4	1.3	1.6	19.5	1.95	2.27	0.15	148	0.16	0.089
1195099	Soil		18.90	27.91	15.70	325.0	761	44.8	4.0	87	1.55	12.0	1.8	0.8	1.5	19.6	3.84	1.84	0.16	138	0.16	0.052
1195100	Soil		13.81	45.66	15.71	1372	2402	179.6	3.3	112	1.20	16.5	4.7	1.6	1.6	66.6	12.33	5.20	0.14	230	2.96	0.154

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		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1195075	Soil		4.3	19.3	0.17	1769	<0.001	<20	1.25	0.002	0.21	<0.1	2.8	0.92	0.10	405	5.8	0.08	3.0	1.73	<0.1	0.05
1195076	Soil		4.5	11.3	0.16	1663	0.001	<20	0.68	0.004	0.09	<0.1	2.3	0.76	0.11	329	4.4	0.04	1.6	0.72	<0.1	0.03
1195077	Soil		6.8	20.0	0.15	1935	<0.001	<20	1.27	<0.001	0.17	<0.1	2.3	0.87	0.08	218	4.4	0.10	3.2	1.79	<0.1	<0.02
1195078	Soil		5.3	7.5	0.03	206.5	<0.001	<20	0.36	<0.001	0.07	<0.1	0.3	0.30	<0.02	5	0.3	<0.02	2.6	0.87	<0.1	<0.02
1195082	Soil		5.6	17.5	0.20	2027	0.001	<20	0.88	0.002	0.17	<0.1	3.7	0.70	0.10	241	3.9	0.07	2.3	1.33	<0.1	0.05
1195083	Soil		7.0	31.3	0.18	863.9	0.002	<20	1.87	0.001	0.18	<0.1	4.0	2.43	0.13	175	6.3	0.11	3.5	2.96	<0.1	0.07
1195084	Soil		4.7	10.3	0.05	136.1	0.001	<20	0.77	0.001	0.10	<0.1	1.2	0.59	0.09	14	4.1	0.04	4.1	1.20	<0.1	<0.02
1195085	Soil		8.7	18.8	0.15	1669	0.001	<20	1.00	0.002	0.17	<0.1	2.1	0.61	0.05	151	2.6	0.08	2.7	1.09	<0.1	<0.02
1195086	Soil		6.7	8.5	0.03	136.1	<0.001	<20	0.44	0.001	0.05	<0.1	0.4	0.32	<0.02	12	0.2	<0.02	2.0	0.62	<0.1	<0.02
1195087	Soil		5.9	18.1	0.07	150.6	0.002	<20	0.83	<0.001	0.09	<0.1	1.0	0.49	<0.02	30	2.2	0.10	3.5	0.85	<0.1	<0.02
1195088	Soil		9.7	20.3	0.16	1131	0.002	<20	0.98	0.002	0.15	<0.1	2.4	0.43	0.03	207	2.3	0.07	2.6	0.93	<0.1	<0.02
1195089	Soil		9.0	17.6	0.17	537.4	0.003	<20	0.84	0.002	0.13	<0.1	1.1	0.36	<0.02	50	1.2	0.05	2.8	0.61	<0.1	<0.02
1195090	Soil		8.9	6.8	0.03	85.8	0.002	<20	0.38	<0.001	0.05	<0.1	0.6	0.29	<0.02	7	0.8	0.05	2.8	0.64	<0.1	<0.02
1195091	Soil		5.7	10.8	0.06	136.0	0.001	<20	0.59	0.002	0.11	<0.1	0.9	0.75	0.10	16	1.5	0.08	2.7	0.64	<0.1	<0.02
1195092	Soil		6.1	6.1	0.03	86.2	0.001	<20	0.39	0.001	0.06	<0.1	0.5	0.85	0.05	7	0.8	0.06	2.4	0.55	<0.1	<0.02
1195093	Soil		6.3	6.3	0.02	131.0	0.002	<20	0.29	0.002	0.05	<0.1	0.4	0.35	0.02	<5	0.5	0.06	1.9	0.51	<0.1	<0.02
1195094	Soil		5.8	14.2	0.13	667.9	0.001	<20	0.70	0.001	0.14	<0.1	1.5	0.49	0.03	116	1.6	0.06	2.2	0.47	<0.1	<0.02
1195095	Soil		6.1	11.8	0.12	654.2	<0.001	<20	0.50	0.003	0.09	<0.1	1.4	0.35	0.03	89	1.8	0.06	1.5	0.31	<0.1	<0.02
1195096	Soil		5.0	9.5	0.04	357.0	<0.001	<20	0.41	0.001	0.10	<0.1	0.7	0.48	0.04	16	1.0	0.06	1.6	0.44	<0.1	<0.02
1195097	Soil		6.4	9.9	0.04	396.2	<0.001	<20	0.44	<0.001	0.09	<0.1	0.9	0.54	0.04	27	1.4	0.06	1.7	0.41	<0.1	<0.02
1195098	Soil		10.2	15.4	0.16	323.4	0.002	<20	0.70	<0.001	0.13	<0.1	1.6	0.56	0.02	102	1.4	0.04	1.9	0.56	<0.1	<0.02
1195099	Soil		10.6	14.0	0.09	379.1	<0.001	<20	0.68	0.001	0.12	<0.1	1.4	0.60	0.04	82	2.0	0.09	2.1	0.55	<0.1	<0.02
1195100	Soil		9.4	21.8	0.98	495.2	0.002	<20	0.60	0.004	0.13	<0.1	2.3	0.97	0.05	278	4.1	0.11	1.7	0.85	<0.1	0.03

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		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1195075	Soil		0.34	15.9	0.7	<0.05	1.6	17.54	9.0	0.04	23	1.3	5.9	<10	3	3188
1195076	Soil		0.29	9.2	0.3	<0.05	1.3	19.82	9.1	0.03	10	1.0	4.4	<10	<2	8249
1195077	Soil		0.25	14.1	0.6	<0.05	0.7	17.94	13.2	0.04	11	1.4	7.9	<10	<2	3208
1195078	Soil		0.06	9.5	0.3	<0.05	<0.1	1.06	10.5	<0.02	1	<0.1	1.3	<10	<2	1053
1195082	Soil		0.25	11.7	0.5	<0.05	1.3	26.94	10.3	0.03	15	1.2	4.4	<10	<2	4384
1195083	Soil		0.64	19.7	0.4	<0.05	1.8	18.02	15.2	0.08	19	1.8	25.9	<10	<2	1818
1195084	Soil		0.13	8.6	0.8	<0.05	<0.1	2.29	9.8	0.02	1	0.2	1.6	<10	<2	741
1195085	Soil		0.29	14.4	0.4	<0.05	0.4	16.22	17.3	0.03	10	1.1	8.2	<10	<2	2813
1195086	Soil		0.06	7.1	0.3	<0.05	<0.1	2.21	13.0	<0.02	2	0.1	1.6	<10	<2	770
1195087	Soil		0.21	9.0	0.5	<0.05	<0.1	3.07	11.3	<0.02	4	0.2	3.5	<10	<2	894
1195088	Soil		0.31	11.1	0.5	<0.05	0.5	13.47	19.5	0.03	13	0.8	8.8	<10	<2	2366
1195089	Soil		0.32	10.6	0.4	<0.05	<0.1	5.79	17.9	0.02	2	0.4	7.0	<10	<2	1636
1195090	Soil		0.11	5.6	0.5	<0.05	<0.1	1.31	18.2	<0.02	<1	0.1	1.3	<10	<2	708
1195091	Soil		0.13	8.7	0.3	<0.05	0.8	1.84	11.4	<0.02	<1	0.2	2.8	<10	<2	958
1195092	Soil		0.13	6.7	0.5	<0.05	<0.1	1.68	12.6	<0.02	<1	<0.1	1.6	<10	<2	792
1195093	Soil		0.10	5.5	0.3	<0.05	<0.1	1.36	12.8	<0.02	3	<0.1	1.1	<10	<2	872
1195094	Soil		0.25	9.1	0.4	<0.05	0.5	5.98	11.4	0.02	4	0.6	4.3	<10	<2	1879
1195095	Soil		0.13	6.7	0.2	<0.05	0.8	7.18	11.4	0.03	8	0.4	4.9	<10	4	1887
1195096	Soil		0.12	8.4	0.5	<0.05	<0.1	4.09	9.0	<0.02	5	0.4	3.8	<10	<2	1307
1195097	Soil		0.13	7.9	0.3	<0.05	<0.1	4.12	12.1	<0.02	8	0.3	3.7	<10	<2	1454
1195098	Soil		0.19	8.5	0.4	<0.05	0.2	8.49	20.7	0.02	5	0.5	7.0	<10	<2	1514
1195099	Soil		0.16	9.0	0.3	<0.05	0.1	7.31	20.3	0.02	4	0.6	6.5	<10	<2	1498
1195100	Soil		0.18	8.9	0.5	<0.05	1.7	15.40	15.9	0.02	28	0.7	7.0	<10	2	1451

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Project: AKIE
Report Date: November 24, 2011

QUALITY CONTROL REPORT VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																						
1194853	Soil		19.63	33.49	11.96	140.5	858	30.5	3.4	32	1.40	10.2	1.3	<0.2	0.2	16.5	1.37	1.39	0.15	186	0.06	0.044
REP 1194853	QC																					
1194854	Soil		14.49	15.06	6.91	112.5	478	19.9	2.1	31	1.04	5.9	0.6	0.3	<0.1	5.2	0.39	1.33	0.12	133	0.06	0.030
REP 1194854	QC		13.71	14.92	6.68	108.4	475	19.5	2.0	31	1.03	5.6	0.6	<0.2	<0.1	5.0	0.38	1.33	0.11	129	0.06	0.029
1194890	Soil		33.58	41.34	15.43	485.8	278	85.7	4.2	78	1.72	21.1	4.6	1.0	0.9	39.7	2.68	4.17	0.20	341	0.31	0.156
REP 1194890	QC		32.64	40.89	15.37	484.7	278	81.6	4.0	77	1.68	19.5	4.5	0.8	0.8	39.3	2.60	4.09	0.19	335	0.29	0.156
1194909	Soil		25.61	30.05	18.98	640.7	960	96.5	3.7	169	1.20	10.0	4.6	<0.2	0.5	25.3	8.27	3.39	0.13	204	0.58	0.056
REP 1194909	QC																					
1194986	Soil		17.81	25.93	24.93	280.4	618	51.6	4.5	57	1.48	9.5	4.0	1.0	1.0	33.2	4.90	1.77	0.17	108	0.77	0.057
REP 1194986	QC																					
1194992	Soil		10.28	7.64	8.93	98.8	91	15.7	1.4	13	0.61	4.9	0.6	<0.2	2.0	5.9	0.35	1.09	0.06	61	0.02	0.015
REP 1194992	QC		10.98	8.42	9.54	105.8	100	16.3	1.5	14	0.65	5.1	0.7	0.6	2.2	6.6	0.40	1.17	0.06	64	0.02	0.016
1195071	Soil		13.20	12.37	11.49	90.3	148	14.9	1.8	19	0.89	8.1	0.7	0.5	0.9	9.9	0.33	1.06	0.12	82	0.01	0.024
REP 1195071	QC		13.56	12.82	11.92	92.8	166	14.7	1.8	19	0.90	8.1	0.7	<0.2	0.9	10.2	0.31	1.17	0.14	82	0.01	0.027
1195093	Soil		6.65	11.19	7.04	44.2	92	7.0	0.6	8	0.44	3.4	0.9	<0.2	0.3	7.7	2.39	0.65	0.09	55	0.04	0.013
REP 1195093	QC																					
Reference Materials																						
STD DS8	Standard		14.10	104.9	128.9	311.4	1951	36.4	7.1	590	2.49	24.6	2.7	103.1	6.3	67.6	2.33	4.31	6.00	40	0.72	0.081
STD DS8	Standard		12.96	104.9	126.5	314.9	1848	35.5	6.9	590	2.45	25.1	2.5	105.2	6.1	63.2	2.32	4.52	5.91	40	0.71	0.082
STD DS8	Standard		13.33	107.1	130.1	329.2	1771	36.7	7.2	627	2.54	25.8	2.6	109.6	6.3	69.8	2.49	4.94	6.18	41	0.73	0.084
STD DS8	Standard		12.63	110.0	120.7	301.8	1646	36.1	7.6	582	2.39	24.2	2.5	103.6	6.7	64.8	2.46	4.32	5.91	37	0.69	0.076
STD OREAS45CA	Standard		0.77	533.0	21.72	65.5	285	265.2	89.8	958	16.45	3.6	1.2	42.5	7.3	15.8	0.08	0.07	0.18	227	0.43	0.042
STD OREAS45CA	Standard		0.88	476.7	20.57	62.4	266	240.1	82.5	907	15.16	3.3	1.1	39.9	6.9	14.0	0.08	0.11	0.17	216	0.41	0.039
STD OREAS45CA	Standard		0.93	484.1	20.07	60.2	263	250.8	84.6	936	15.54	3.3	1.2	37.5	7.1	16.0	0.10	0.12	0.17	222	0.41	0.040
STD OREAS45CA	Standard		0.71	489.8	20.75	60.0	264	246.3	88.8	884	15.74	3.3	1.2	35.6	7.0	15.5	0.11	0.08	0.17	192	0.41	0.040
STD SO-18	Standard																					
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QUALITY CONTROL REPORT VAN11004919.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																						
1194853	Soil		6.0	15.1	0.03	311.7	0.002	<20	0.49	<0.001	0.05	<0.1	0.2	0.48	0.04	36	1.6	0.11	3.7	0.77	<0.1	<0.02
REP 1194853	QC																					
1194854	Soil		7.1	12.8	0.04	105.1	0.004	<20	0.46	<0.001	0.05	<0.1	0.2	0.45	0.02	20	1.3	0.06	4.7	0.91	<0.1	<0.02
REP 1194854	QC		6.7	12.3	0.04	103.2	0.004	<20	0.43	<0.001	0.05	<0.1	0.2	0.42	0.02	23	1.3	0.06	4.5	0.87	<0.1	<0.02
1194890	Soil		12.3	29.4	0.14	230.2	0.003	<20	0.85	<0.001	0.08	<0.1	1.3	0.87	0.04	75	4.7	0.14	2.8	1.01	<0.1	<0.02
REP 1194890	QC		12.2	27.9	0.13	233.1	0.003	<20	0.84	<0.001	0.08	0.1	1.3	0.88	0.04	67	4.5	0.10	2.9	1.04	<0.1	<0.02
1194909	Soil		8.1	15.2	0.07	306.3	0.002	<20	0.48	<0.001	0.09	<0.1	1.3	0.58	0.02	90	3.5	0.09	1.7	0.41	<0.1	<0.02
REP 1194909	QC																					
1194986	Soil		7.7	15.8	0.07	407.0	0.001	<20	0.53	0.003	0.10	<0.1	1.5	0.59	0.07	112	2.1	0.08	1.6	0.36	<0.1	<0.02
REP 1194986	QC																					
1194992	Soil		9.5	6.9	0.02	60.5	0.002	<20	0.26	<0.001	0.06	<0.1	0.5	0.23	<0.02	<5	1.3	<0.02	1.5	0.35	<0.1	0.02
REP 1194992	QC		9.5	5.7	0.02	64.4	0.002	<20	0.27	<0.001	0.06	<0.1	0.6	0.24	<0.02	8	1.2	0.04	1.5	0.37	<0.1	0.02
1195071	Soil		5.1	6.9	0.03	113.5	0.002	<20	0.49	<0.001	0.08	<0.1	0.8	0.56	0.03	6	1.1	0.06	2.6	1.24	<0.1	<0.02
REP 1195071	QC		5.1	6.4	0.03	123.7	0.002	<20	0.51	<0.001	0.08	<0.1	0.8	0.57	0.03	<5	1.0	0.08	2.7	1.20	<0.1	<0.02
1195093	Soil		6.3	6.3	0.02	131.0	0.002	<20	0.29	0.002	0.05	<0.1	0.4	0.35	0.02	<5	0.5	0.06	1.9	0.51	<0.1	<0.02
REP 1195093	QC																					
Reference Materials																						
STD DS8	Standard		14.9	118.2	0.62	288.9	0.100	<20	0.95	0.089	0.41	2.8	2.2	5.76	0.15	227	5.1	5.01	4.8	2.46	0.1	0.05
STD DS8	Standard		13.9	116.9	0.61	279.7	0.101	<20	0.92	0.085	0.41	2.7	2.0	5.61	0.16	186	5.0	4.70	4.6	2.43	<0.1	0.06
STD DS8	Standard		15.4	117.5	0.62	301.4	0.106	<20	0.95	0.089	0.42	2.5	2.1	5.43	0.16	186	5.4	5.41	4.8	2.48	<0.1	0.07
STD DS8	Standard		15.3	116.1	0.59	296.1	0.108	<20	0.88	0.082	0.40	2.3	2.0	5.18	0.15	183	5.3	4.79	4.6	2.38	<0.1	0.08
STD OREAS45CA	Standard		16.6	797.7	0.16	167.9	0.126	<20	3.93	0.005	0.07	<0.1	39.0	0.13	<0.02	34	0.4	0.07	20.1	1.22	<0.1	0.44
STD OREAS45CA	Standard		15.4	730.6	0.14	159.3	0.114	<20	3.56	0.005	0.07	<0.1	36.1	0.11	<0.02	23	0.4	0.05	18.6	1.06	0.1	0.48
STD OREAS45CA	Standard		16.2	715.1	0.15	168.4	0.132	<20	3.75	0.007	0.08	<0.1	38.7	0.12	<0.02	12	0.3	0.06	18.4	1.15	<0.1	0.52
STD OREAS45CA	Standard		16.3	736.1	0.13	171.4	0.119	<20	3.68	0.006	0.06	<0.1	38.4	0.06	0.02	31	0.5	0.05	18.5	1.06	<0.1	0.59
STD SO-18	Standard																					
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	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
Pulp Duplicates															
1194853	Soil	0.10	5.2	0.7	<0.05	<0.1	3.30	11.8	<0.02	1	0.2	1.1	<10	<2	809
REP 1194853	QC														804
1194854	Soil	0.16	6.4	1.3	<0.05	<0.1	1.63	14.1	<0.02	<1	<0.1	1.1	<10	<2	617
REP 1194854	QC	0.18	5.6	1.2	<0.05	<0.1	1.53	13.1	<0.02	2	<0.1	1.1	<10	<2	
1194890	Soil	0.31	9.4	0.6	<0.05	0.3	12.82	20.4	0.03	7	0.6	8.6	<10	14	990
REP 1194890	QC	0.27	9.0	0.6	<0.05	0.2	12.33	20.7	0.03	9	0.7	8.5	<10	12	
1194909	Soil	0.26	8.0	0.5	<0.05	0.3	9.94	14.1	<0.02	5	0.4	3.2	<10	10	1156
REP 1194909	QC														1126
1194986	Soil	0.25	7.2	0.3	<0.05	0.6	9.36	13.8	0.03	5	0.9	4.3	<10	<2	1059
REP 1194986	QC														1063
1194992	Soil	0.19	7.5	0.3	<0.05	1.3	1.95	18.9	<0.02	<1	<0.1	1.1	<10	<2	713
REP 1194992	QC	0.20	8.0	0.3	<0.05	1.2	2.03	18.4	<0.02	1	0.2	1.0	<10	<2	
1195071	Soil	0.21	10.0	0.6	<0.05	<0.1	2.16	10.1	<0.02	1	0.1	1.2	<10	<2	907
REP 1195071	QC	0.23	9.7	0.6	<0.05	<0.1	2.05	10.3	<0.02	1	0.1	1.2	<10	<2	
1195093	Soil	0.10	5.5	0.3	<0.05	<0.1	1.36	12.8	<0.02	3	<0.1	1.1	<10	<2	872
REP 1195093	QC														900
Reference Materials															
STD DS8	Standard	0.71	38.6	6.4	<0.05	1.5	5.67	28.1	2.20	57	5.0	28.0	109	366	
STD DS8	Standard	0.83	39.2	6.3	<0.05	1.6	5.45	26.3	2.16	66	5.3	26.3	107	359	
STD DS8	Standard	0.92	37.9	6.8	<0.05	1.6	5.71	27.2	2.25	55	4.9	27.9	124	371	
STD DS8	Standard	0.81	37.4	6.9	<0.05	2.0	5.76	27.7	2.28	51	4.5	25.5	89	333	
STD OREAS45CA	Standard	0.11	9.8	1.9	<0.05	19.6	8.37	37.3	0.10	<1	0.6	8.1	40	74	
STD OREAS45CA	Standard	0.15	8.3	1.7	<0.05	19.3	7.81	35.4	0.08	<1	0.6	6.8	24	60	
STD OREAS45CA	Standard	0.18	8.9	2.0	<0.05	21.8	8.01	34.8	0.10	<1	0.6	7.5	38	65	
STD OREAS45CA	Standard	0.14	9.4	1.9	<0.05	23.1	8.46	35.2	0.09	<1	0.8	7.8	29	62	
STD SO-18	Standard														480
STD SO-18	Standard														476
STD SO-18	Standard														479

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		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08
STD OREAS45CA Expected		1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385
STD SO-18 Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				

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Client: **Canada Zinc Metals Corp.**
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: November 24, 2011

QUALITY CONTROL REPORT VAN11004919.1

		1F La ppm 0.5	1F Cr ppm 0.5	1F Mg % 0.01	1F Ba ppm 0.5	1F Ti % 0.001	1F B ppm 20	1F Al % 0.01	1F Na % 0.001	1F K % 0.01	1F W ppm 0.1	1F Sc ppm 0.1	1F Tl ppm 0.02	1F S % 0.02	1F Hg ppb 5	1F Se ppm 0.1	1F Te ppm 0.02	1F Ga ppm 0.1	1F Cs ppm 0.02	1F Ge ppm 0.1	1F Hf ppm 0.02
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD OREAS45CA Expected		15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5
STD SO-18 Expected																					
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank																				
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BLK	Blank																				
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Project: AKIE
Report Date: November 24, 2011

QUALITY CONTROL REPORT VAN11004919.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Nb	**Rb**	**Sn**	**Ta**	**Zr**	**Y**	**Ce**	**In**	**Re**	**Be**	**Li**	**Pd**	**Pt**	**Ba**
		ppm	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppb**	**ppm**	**ppm**	**ppb**	**ppb**	**ppm**
		0.02	**0.1**	**0.1**	**0.05**	**0.1**	**0.01**	**0.1**	**0.02**	**1**	**0.1**	**0.1**	**10**	**2**	**10**
STD SO-18	Standard														474
STD SO-18	Standard														472
STD SO-18	Standard														488
STD SO-18	Standard														497
STD SO-18	Standard														498
STD DS8 Expected		1.1	39	6.7	0.003	2.1	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS45CA Expected		0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61	
STD SO-18 Expected															515
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank														<10
BLK	Blank														<10
BLK	Blank														<10
BLK	Blank														<10

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Submitted By: Nick Johnson
Receiving Lab: Canada-Vancouver
Received: September 21, 2011
Report Date: October 20, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11005160.1

CLIENT JOB INFORMATION

Project: AKIE
Shipment ID:
P.O. Number
Number of Samples: 27

SAMPLE DISPOSAL

RTRN-PLP Return
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	27	Dry at 60C			VAN
SS80	27	Dry at 60C sieve 100g to -80 mesh			VAN
1F04	27	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
4A01	27	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Canada Zinc Metals Corp.
Suite 2050 - 1055 W. Georgia St.
PO Box 11121, Royal Centre
Vancouver BC V6E 3P3
Canada

CC: Ken MacDonald
Tanya Strate

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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PO Box 11121, Royal Centre
Vancouver BC V6E 3P3 Canada

Project: AKIE
Report Date: October 20, 2011

CERTIFICATE OF ANALYSIS VAN11005160.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1194276	Silt	34.72	47.65	25.92	1365	508	161.9	12.2	343	1.79	18.4	5.8	1.3	2.7	86.2	9.81	5.87	0.13	308	2.69	0.144
1194277	Silt	34.08	48.28	25.88	1506	573	180.8	11.6	355	1.83	17.6	5.5	2.3	2.5	83.0	10.73	5.29	0.14	296	2.67	0.136
1194281	Silt	13.94	33.24	22.95	454.5	508	53.8	7.2	231	1.47	9.8	3.1	0.6	3.1	66.1	5.46	2.66	0.12	86	4.02	0.081
1194282	Silt	16.33	57.66	11.41	1949	364	464.0	3.6	211	0.88	6.0	7.3	0.7	0.7	97.6	13.21	4.47	0.07	141	5.11	0.093
1194283	Silt	15.00	33.69	13.08	1968	440	276.5	5.8	401	1.37	6.6	4.3	1.1	1.0	86.6	18.06	2.13	0.08	159	4.94	0.096
1194284	Silt	4.91	15.63	11.09	770.8	349	71.2	4.7	221	1.19	5.4	2.1	1.3	2.7	97.8	5.64	0.78	0.08	69	4.10	0.107
1195101	Silt	23.40	46.16	35.70	892.4	532	82.1	11.7	260	2.05	15.7	3.5	2.4	2.2	69.3	6.95	3.26	0.15	128	0.62	0.087
1195102	Silt	15.34	59.25	21.47	609.9	1071	149.3	12.1	318	2.70	11.8	5.5	2.4	2.0	93.4	6.63	1.76	0.20	67	0.67	0.077
1195103	Silt	25.56	41.13	14.67	900.1	708	124.6	5.1	192	1.27	15.0	4.8	1.8	2.5	79.1	9.76	5.28	0.12	224	3.32	0.143
1195104	Silt	10.46	46.04	45.32	817.7	872	86.6	9.3	227	2.27	14.4	4.0	3.1	2.0	78.5	5.03	1.77	0.21	54	0.51	0.070
1195105	Silt	29.22	64.40	416.7	1969	1118	349.2	9.8	246	2.04	15.3	4.1	2.7	0.8	90.5	21.81	4.83	0.16	150	1.84	0.126
1195106	Silt	37.20	91.01	29.55	2519	1240	392.8	36.3	848	4.44	38.9	22.3	30.5	0.5	146.9	39.49	6.76	0.28	420	1.23	0.213
1195107	Silt	11.09	26.94	45.81	809.0	485	73.0	6.2	264	1.38	8.1	2.1	0.3	2.6	63.2	7.89	2.33	0.11	61	3.23	0.103
1195108	Silt	18.25	37.04	13.76	826.1	692	144.1	5.4	209	1.32	10.3	4.2	1.5	2.0	64.1	6.93	3.20	0.12	168	4.10	0.192
1195109	Silt	19.08	33.47	11.36	730.6	530	137.6	5.6	195	1.30	10.0	4.0	1.1	1.9	42.1	5.81	2.73	0.13	158	2.45	0.128
1195110	Silt	17.43	30.14	11.66	568.0	444	75.4	4.7	198	1.10	9.4	3.9	0.5	2.6	53.8	4.53	3.04	0.11	153	3.29	0.159
1195111	Silt	23.07	34.11	13.63	970.0	620	145.4	4.1	176	1.19	11.0	4.3	1.0	1.9	53.3	8.08	3.96	0.11	241	3.07	0.139
1195112	Silt	35.82	44.94	12.73	935.6	562	168.9	6.3	207	1.29	18.0	6.1	0.6	2.6	78.3	13.04	7.01	0.12	395	3.38	0.129
1195113	Silt	41.38	60.20	33.90	1742	636	212.0	14.5	311	2.33	21.6	7.0	0.7	2.0	80.7	11.57	3.69	0.10	304	1.57	0.122
1195114	Silt	38.38	49.75	24.03	1777	619	293.5	21.6	1286	2.31	18.5	5.4	<0.2	2.1	82.2	12.77	3.50	0.09	295	2.42	0.131
1195115	Silt	25.29	44.22	22.33	2378	588	234.4	12.8	450	2.46	15.8	4.8	<0.2	1.9	48.4	12.71	2.16	0.12	123	0.42	0.083
1195116	Silt	26.10	49.88	24.38	2017	681	212.9	13.6	449	2.51	16.5	5.0	1.3	1.9	50.5	12.77	2.79	0.12	126	0.47	0.089
1195117	Silt	44.49	78.51	19.28	3002	784	294.8	19.5	407	2.28	37.6	13.5	0.4	4.0	128.6	27.84	14.30	0.15	514	1.61	0.100
1195118	Silt	32.19	55.17	27.50	1802	625	177.5	12.0	283	2.25	18.9	4.7	1.2	1.9	62.8	12.65	5.28	0.16	143	0.57	0.081
1195119	Silt	30.97	46.50	26.36	1292	688	176.6	10.2	267	1.73	16.3	5.1	1.7	1.8	77.0	9.22	5.15	0.14	253	2.42	0.123
1195120	Silt	11.24	33.69	19.30	981.3	450	135.9	11.0	1528	2.12	9.0	2.7	1.1	1.1	76.2	17.43	2.56	0.09	146	2.72	0.094
1195121	Silt	8.66	32.07	17.84	1209	541	157.1	6.5	809	1.22	6.5	2.7	0.5	0.6	108.4	14.24	3.12	0.09	160	3.03	0.091

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Project: AKIE
Report Date: October 20, 2011

CERTIFICATE OF ANALYSIS VAN11005160.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1194276	Silt	10.3	19.0	1.02	1262	0.003	<20	0.52	0.006	0.17	<0.1	2.7	1.37	0.07	154	4.9	0.15	1.7	1.77	<0.1	<0.02
1194277	Silt	10.7	19.5	0.96	1266	0.003	<20	0.54	0.006	0.18	<0.1	2.8	1.44	0.08	182	5.1	0.11	1.6	1.82	<0.1	<0.02
1194281	Silt	9.0	10.8	0.98	1008	0.002	<20	0.43	0.004	0.18	<0.1	2.3	0.46	0.14	119	2.5	0.08	1.2	1.38	<0.1	0.02
1194282	Silt	6.6	12.6	0.88	483.3	0.002	<20	0.29	0.005	0.08	<0.1	3.0	1.57	0.11	150	6.8	0.05	0.9	1.21	<0.1	<0.02
1194283	Silt	7.2	14.1	0.85	454.8	0.002	<20	0.38	0.004	0.11	<0.1	2.0	1.54	0.12	153	8.4	0.07	1.2	1.22	<0.1	<0.02
1194284	Silt	10.6	11.2	0.89	795.1	0.002	<20	0.54	0.005	0.13	<0.1	2.1	0.45	0.07	82	2.4	0.04	1.5	0.77	<0.1	<0.02
1195101	Silt	6.1	11.0	0.24	1454	0.001	<20	0.51	0.005	0.15	<0.1	2.4	0.87	0.09	81	3.4	0.11	1.4	1.96	<0.1	<0.02
1195102	Silt	8.8	13.8	0.21	1711	0.002	<20	0.78	0.004	0.15	<0.1	3.3	0.60	0.06	173	3.3	0.09	2.0	1.97	<0.1	<0.02
1195103	Silt	12.1	20.1	1.26	712.5	0.003	<20	0.53	0.006	0.15	<0.1	2.6	1.10	0.06	175	4.0	0.07	1.5	1.42	<0.1	<0.02
1195104	Silt	5.3	11.7	0.21	2401	0.001	<20	0.83	0.004	0.15	<0.1	3.2	0.73	0.07	178	2.7	0.12	1.9	2.37	<0.1	<0.02
1195105	Silt	7.0	14.4	0.29	505.4	0.002	<20	0.58	0.004	0.16	<0.1	2.2	1.40	0.14	226	5.7	0.12	1.5	1.77	<0.1	<0.02
1195106	Silt	8.2	27.4	0.37	747.1	0.003	<20	0.80	0.009	0.23	<0.1	2.1	4.03	0.33	485	11.7	0.28	2.0	3.15	<0.1	<0.02
1195107	Silt	15.0	11.0	1.00	1093	0.003	<20	0.44	0.004	0.15	<0.1	2.3	0.41	0.05	100	2.3	0.10	1.2	1.06	<0.1	<0.02
1195108	Silt	14.7	23.1	1.48	501.4	0.004	<20	0.47	0.007	0.17	<0.1	2.7	1.13	0.06	163	3.6	0.06	1.6	1.39	<0.1	0.02
1195109	Silt	15.3	20.3	0.98	225.7	0.005	<20	0.56	0.006	0.13	<0.1	2.6	1.29	0.04	148	2.5	0.07	1.7	1.30	<0.1	0.02
1195110	Silt	14.1	18.8	1.21	516.2	0.004	<20	0.43	0.005	0.15	<0.1	2.4	0.84	0.04	103	2.5	0.08	1.4	1.17	<0.1	0.02
1195111	Silt	13.5	21.1	0.94	320.5	0.003	<20	0.46	0.005	0.15	<0.1	2.6	1.29	0.03	164	3.0	0.08	1.3	1.20	<0.1	<0.02
1195112	Silt	11.5	26.2	1.04	506.3	0.003	<20	0.46	0.006	0.15	<0.1	2.6	1.59	0.05	181	3.9	0.10	1.7	1.29	<0.1	<0.02
1195113	Silt	5.5	16.9	0.56	1092	0.001	<20	0.53	0.003	0.16	<0.1	2.9	1.46	0.13	205	6.8	0.10	1.7	1.38	<0.1	<0.02
1195114	Silt	7.4	18.6	0.75	967.8	0.001	<20	0.49	0.003	0.16	<0.1	2.6	1.41	0.10	203	5.5	0.08	1.5	1.40	<0.1	0.03
1195115	Silt	9.6	11.9	0.12	907.1	<0.001	<20	0.68	0.002	0.12	<0.1	2.3	1.10	0.07	152	4.6	0.12	1.7	1.43	<0.1	<0.02
1195116	Silt	9.1	12.3	0.13	1054	<0.001	<20	0.66	0.003	0.12	<0.1	2.4	1.08	0.08	139	5.1	0.12	1.7	1.44	<0.1	<0.02
1195117	Silt	20.0	29.8	0.54	1000	0.003	<20	0.58	0.007	0.16	0.2	3.4	2.49	0.26	256	13.0	0.13	1.8	1.88	<0.1	<0.02
1195118	Silt	9.9	13.2	0.17	1258	0.001	<20	0.55	0.003	0.11	<0.1	2.6	1.06	0.06	125	4.8	0.14	1.4	1.62	<0.1	<0.02
1195119	Silt	10.8	18.4	0.86	1123	0.003	<20	0.53	0.006	0.14	0.1	2.7	1.28	0.09	209	5.5	0.08	1.5	1.43	<0.1	<0.02
1195120	Silt	7.3	13.8	0.42	1132	0.002	<20	0.44	0.003	0.12	<0.1	1.8	0.75	0.11	214	4.5	0.12	1.4	0.91	<0.1	<0.02
1195121	Silt	11.2	13.2	0.51	1120	0.002	<20	0.42	0.003	0.10	<0.1	1.5	0.71	0.07	142	4.9	0.10	1.3	0.78	<0.1	<0.02

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Project: AKIE
Report Date: October 20, 2011

CERTIFICATE OF ANALYSIS VAN11005160.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
1194276	Silt	0.12	11.5	0.4	<0.05	0.7	18.81	16.5	0.02	44	0.7	3.4	<10	3	4905
1194277	Silt	0.14	11.9	0.5	<0.05	0.7	19.13	17.7	<0.02	33	0.3	3.8	<10	3	3356
1194281	Silt	0.03	9.4	0.2	<0.05	2.6	11.34	15.2	<0.02	22	0.4	5.6	<10	3	3484
1194282	Silt	0.26	6.5	0.2	<0.05	1.4	14.42	10.3	<0.02	21	0.6	2.8	<10	4	1033
1194283	Silt	0.21	8.6	0.2	<0.05	0.9	11.23	11.7	0.02	27	0.3	3.1	<10	<2	1097
1194284	Silt	0.13	8.9	0.2	<0.05	1.1	10.72	18.6	<0.02	15	0.3	6.6	<10	4	1691
1195101	Silt	0.03	10.6	0.4	<0.05	0.4	12.90	10.8	<0.02	18	0.7	4.5	<10	4	7913
1195102	Silt	0.11	12.9	0.4	<0.05	0.8	19.67	13.7	0.02	13	1.0	8.4	<10	<2	3626
1195103	Silt	0.16	10.3	0.3	<0.05	0.9	16.36	19.0	<0.02	30	0.5	6.2	<10	3	1584
1195104	Silt	0.07	13.5	0.4	<0.05	0.7	14.71	10.5	0.02	9	0.6	12.4	<10	2	10518
1195105	Silt	0.19	12.3	0.3	<0.05	0.8	20.26	11.3	0.04	17	0.9	3.7	<10	5	1585
1195106	Silt	0.12	18.3	0.6	<0.05	0.7	25.57	13.6	0.03	19	1.5	3.6	<10	5	1469
1195107	Silt	0.08	9.1	0.2	<0.05	0.5	11.83	25.1	0.02	13	0.6	4.9	<10	<2	2698
1195108	Silt	0.16	10.6	0.4	<0.05	0.8	17.87	24.1	0.02	12	0.8	5.3	<10	2	1205
1195109	Silt	0.20	9.3	0.4	<0.05	0.9	16.96	24.9	0.02	12	0.7	5.9	<10	3	958
1195110	Silt	0.12	9.6	0.3	<0.05	0.9	15.97	23.6	<0.02	13	0.6	4.4	<10	3	1394
1195111	Silt	0.21	9.9	0.3	<0.05	1.0	15.74	22.7	<0.02	9	0.6	4.5	<10	3	988
1195112	Silt	0.17	9.7	0.4	<0.05	1.0	18.23	17.6	0.03	27	0.9	3.7	<10	3	1099
1195113	Silt	0.15	10.7	0.3	<0.05	0.4	19.69	10.4	0.03	60	1.0	3.8	<10	<2	4311
1195114	Silt	0.16	10.6	0.3	<0.05	0.7	18.47	13.6	0.03	30	0.8	3.9	<10	<2	2240
1195115	Silt	0.07	10.1	0.3	<0.05	0.5	12.71	17.9	0.02	17	0.7	7.3	<10	<2	3298
1195116	Silt	0.07	10.1	0.3	<0.05	0.4	13.81	16.8	0.03	15	0.7	6.8	<10	<2	3795
1195117	Silt	0.27	11.2	0.5	<0.05	1.8	25.07	25.5	0.02	197	0.9	3.9	<10	5	4683
1195118	Silt	0.06	9.6	0.3	<0.05	0.4	14.73	15.3	0.02	24	0.5	5.0	<10	<2	6077
1195119	Silt	0.20	10.0	0.4	<0.05	1.2	17.94	17.7	<0.02	34	1.2	3.9	<10	3	2245
1195120	Silt	0.15	9.2	0.3	<0.05	0.9	11.24	12.1	0.02	30	0.4	3.9	<10	3	2528
1195121	Silt	0.30	8.0	0.3	<0.05	0.7	12.14	16.3	<0.02	16	0.7	4.2	<10	4	2860

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Project: AKIE
Report Date: October 20, 2011

QUALITY CONTROL REPORT VAN11005160.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
1195121	Silt	8.66	32.07	17.84	1209	541	157.1	6.5	809	1.22	6.5	2.7	0.5	0.6	108.4	14.24	3.12	0.09	160	3.03	0.091
REP 1195121	QC																				
Reference Materials																					
STD DS8	Standard	14.67	112.6	135.9	304.7	1893	37.5	7.8	587	2.45	24.6	3.2	126.8	7.8	75.9	2.45	4.98	7.49	31	0.73	0.072
STD DS8	Standard	12.93	103.6	122.1	309.2	2101	36.6	7.3	621	2.49	24.1	2.5	101.6	6.3	64.4	2.22	4.18	5.06	40	0.73	0.077
STD OREAS45CA	Standard	0.70	512.2	24.10	63.3	295	263.2	93.9	912	16.08	4.2	1.4	51.0	8.3	17.2	0.10	0.08	0.21	190	0.43	0.038
STD OREAS45CA	Standard	0.69	496.4	19.69	59.9	243	245.7	86.7	903	15.50	3.0	1.1	38.5	6.3	13.8	0.08	0.03	0.13	210	0.40	0.035
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18 Expected																					
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08
STD OREAS45CA Expected		1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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QUALITY CONTROL REPORT VAN11005160.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																						
1195121	Silt		11.2	13.2	0.51	1120	0.002	<20	0.42	0.003	0.10	<0.1	1.5	0.71	0.07	142	4.9	0.10	1.3	0.78	<0.1	<0.02
REP 1195121	QC																					
Reference Materials																						
STD DS8	Standard		18.8	123.7	0.61	316.4	0.125	<20	0.96	0.096	0.43	2.2	2.3	5.70	0.16	171	4.9	5.28	4.6	2.62	<0.1	0.03
STD DS8	Standard		15.8	121.4	0.61	278.5	0.112	<20	0.96	0.093	0.42	2.6	2.1	5.78	0.16	183	5.6	5.29	4.9	2.54	<0.1	0.08
STD OREAS45CA	Standard		19.3	718.2	0.18	174.7	0.153	<20	3.98	0.010	0.07	<0.1	42.1	0.08	<0.02	30	1.0	0.09	18.7	1.37	<0.1	0.37
STD OREAS45CA	Standard		14.9	759.3	0.15	152.0	0.120	<20	3.91	0.006	0.08	<0.1	35.1	0.12	<0.02	28	0.5	0.04	18.6	1.16	<0.1	0.46
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18 Expected																						
STD DS8 Expected			14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD OREAS45CA Expected			15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5
BLK	Blank																					
BLK	Blank																					
BLK	Blank		<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank		<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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QUALITY CONTROL REPORT VAN11005160.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	4A
		Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ba
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	10
Pulp Duplicates																
1195121	Silt		0.30	8.0	0.3	<0.05	0.7	12.14	16.3	<0.02	16	0.7	4.2	<10	4	2860
REP 1195121	QC															2874
Reference Materials																
STD DS8	Standard		0.77	38.0	7.3	<0.05	1.4	6.42	30.3	2.64	62	4.9	24.8	94	362	
STD DS8	Standard		1.04	38.9	6.1	<0.05	1.5	6.38	30.8	2.19	55	5.1	27.4	108	350	
STD OREAS45CA	Standard		0.07	9.8	2.0	<0.05	14.1	8.86	36.8	0.11	<1	0.8	8.2	35	67	
STD OREAS45CA	Standard		0.08	9.2	1.7	<0.05	17.4	7.56	34.5	0.11	<1	0.7	7.8	36	60	
STD SO-18	Standard															480
STD SO-18	Standard															476
STD SO-18	Standard															488
STD SO-18	Standard															495
STD SO-18 Expected																515
STD DS8 Expected			1.1	39	6.7	0.003	2.1	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS45CA Expected			0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61	
BLK	Blank															<10
BLK	Blank															<10
BLK	Blank		<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank		<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	

Legend

Geology

Warneford Formation

Dme - Black sandstone to chert pebble conglomerate

Akie Formation

Dma - Silty shales, intraformational breccias, shale chip breccia, ribbon bedded cherts

Gunsteel Formation

Dg - Silvery, rusty to Gunsteel blue (weather), black silceous shale. Immediate host to mineralization

Paul River Formation

Drs - Tan to brown (weathered), black silty shales

Dl - Kwadacha limestone: Bioclastic limestone with light grey micrite matrix

Road River Group

OSDr - Buff weathered dolomitic to calcareous siltstones, graptolitic black shales, micritic crinoidal limestones with lenses of lapilli to crystal tuffs (Ospika Volcanics)

Sr - Brown to buff weathering dolomitic siltstone; platy, flaser-bedded; minor quartz wacke, limestone olistostromes; includes basel unit of dolostone, mudstone , black chert and argillite

ORs - Black graptolitic shale, minor black chert, siltstone

Kechika Group

COk -Tan to cream weathered, wavy banded, phyllitic siltstones interbedded with boudinaged limestone beds

Anticline

Overturned Syncline

Syncline

Thrust

Fault

Barite Kill Zone

Historical DDH with Trace

Planned DDH with Trace

Sample Grid Outline

Pie Claims

N

1:10,000

0 500 1,000 m

NOD Grid

Main Grid

SEEP Grid

Sr

Dg

ORs

M-12-H

M-12-I

AK-89-08 AK-89-06 AK-89-07 AK-89-04 AK-89-09 AK-90-11 AK-90-11A AK-90-11B AK-89-05 AK-90-14 AK-90-12 AK-90-15 AK-90-13 AK-90-10 AK-89-01 AK-89-02 M-12-A M-12-B M-12-C M-12-D M-12-E M-12-F M-12-G

TSX-V:CZX

CANADA ZINC METALS CORP.

Figure 5:

Mt. Alcock Local Geology

N

1:20,000

0 1,000 2,000 m

355000 360000 365000

6404800 6399800 6394800 6389800 6384800

NOD Grid

Main Grid

SEEP Grid

Thro
Saint
Driftpile
Driftpile Deposit
Bear / SPA
Weiss
Kwad
Mt.Alcock
Yuen
Cirque East
Cirque Deposit
Pie
Akie
Cardiac Creek Deposit
Parrish

Legend

- 2011 Silt Sample Location
- Historical Silt Sample
- Mt. Alcock Claims

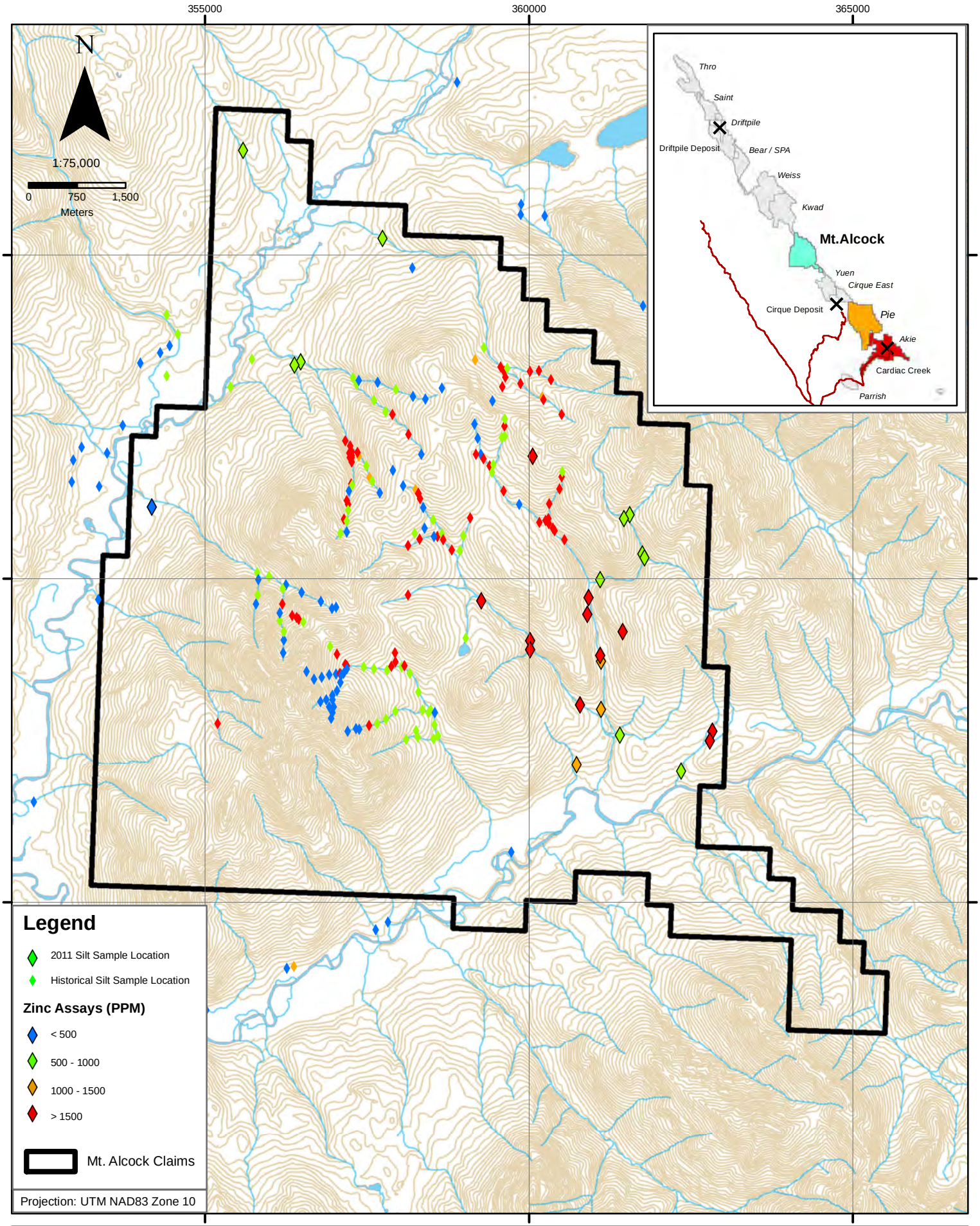
SL-SP-08 (Sample ID) 261.5, 17.2, 275 (Zn (ppm), Pb (ppm), Ag (ppb))

Contour Interval: 20 meters

Projection: UTM NAD83 Zone 10

TSX-V:CZX
CANADA ZINC METALS CORP.

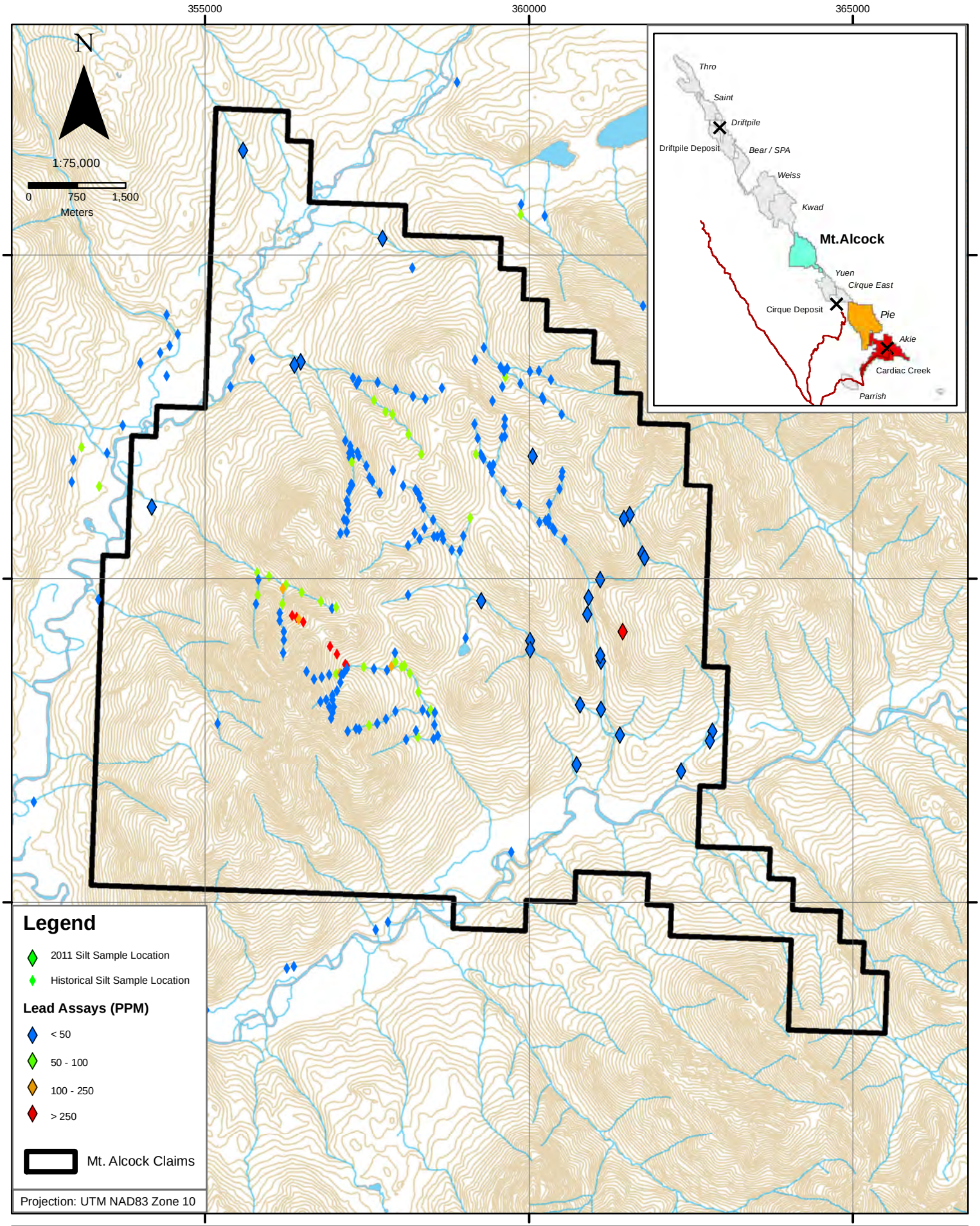
Figure 6a:
Mt. Alcock Silt Sample Locations



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 6b:

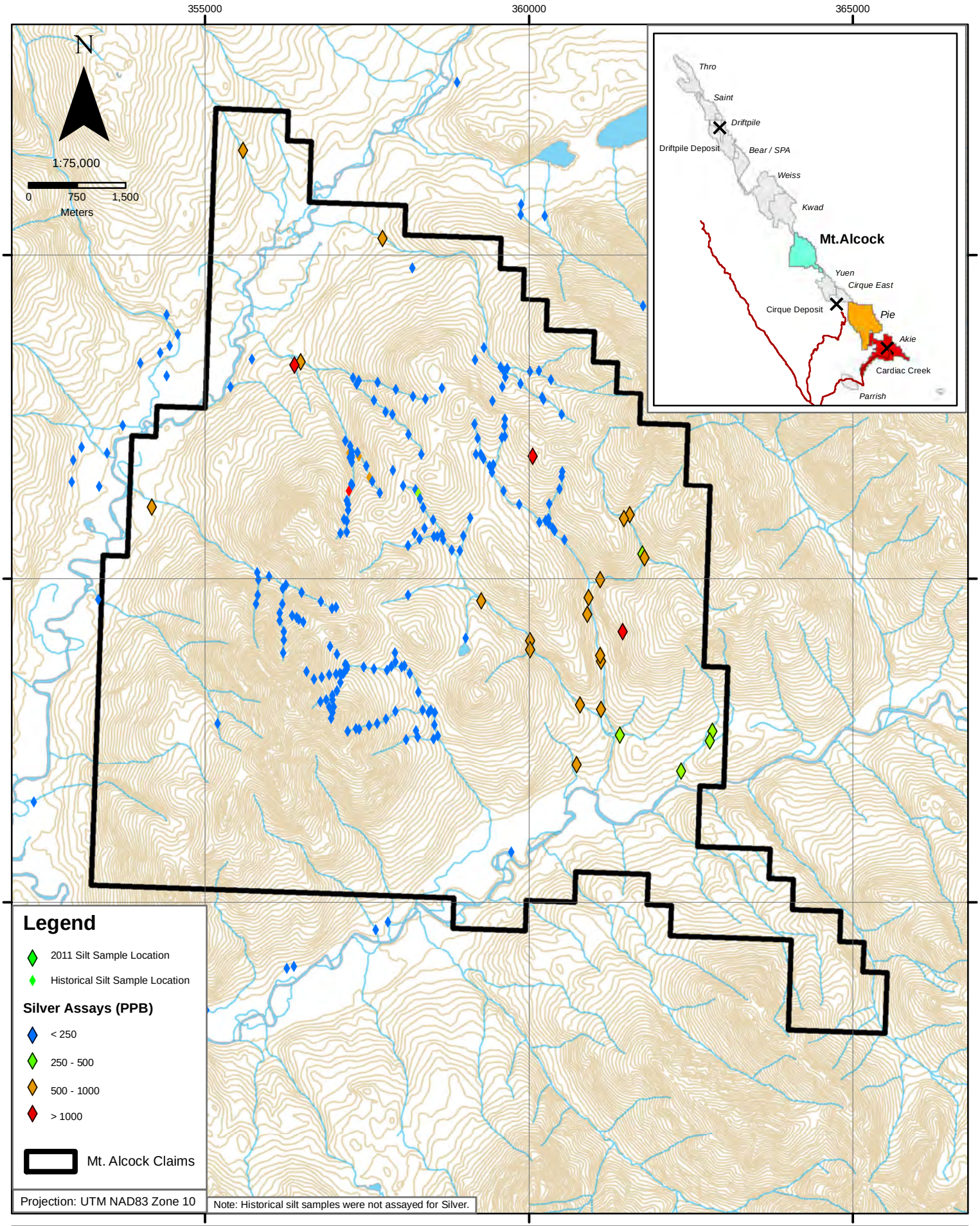
Mt. Alcock Silt Samples (Zinc)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 6c:

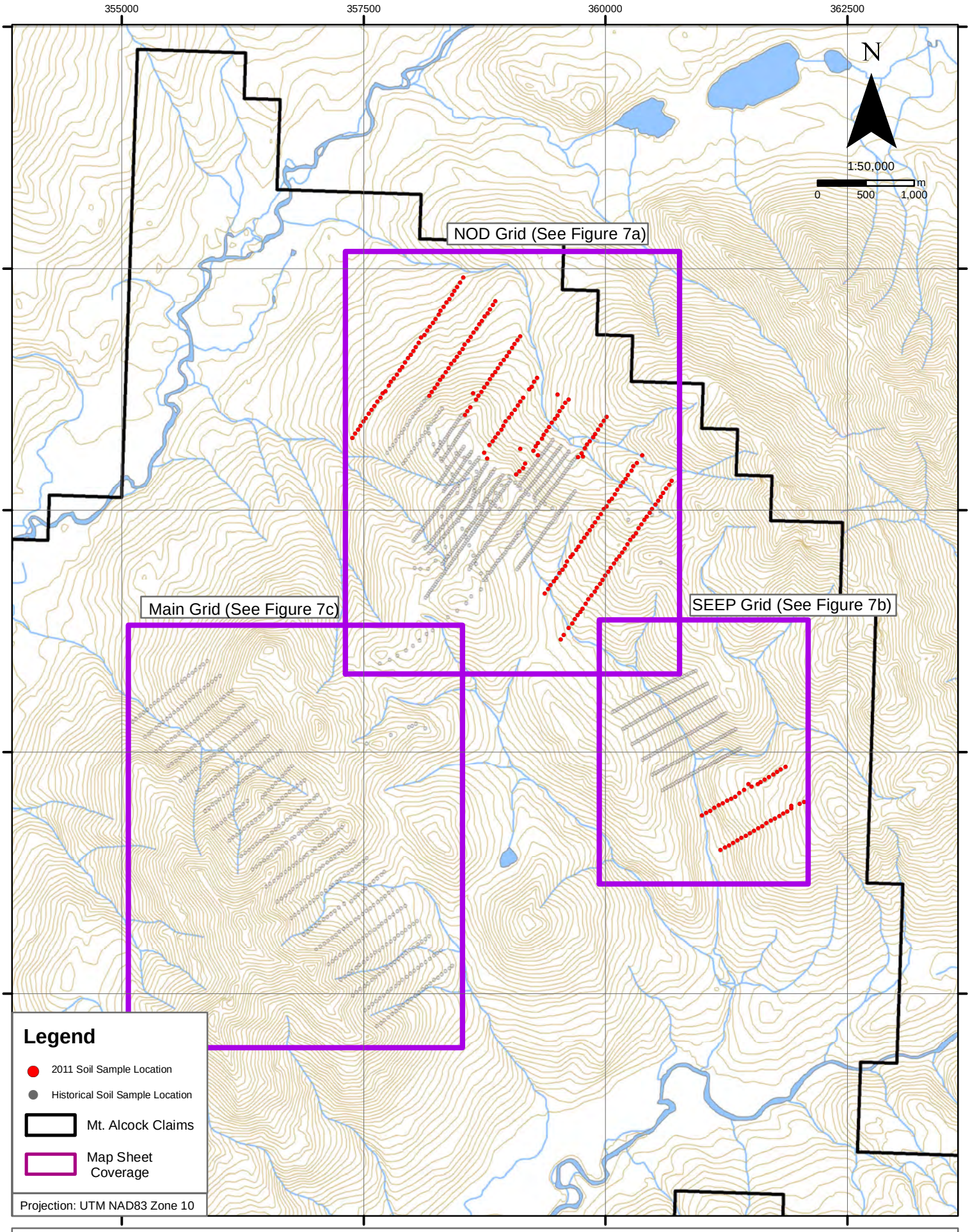
Mt. Alcock Silt Samples (Lead)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 6d:

Mt. Alcock Silt Samples (Silver)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 7:

Mt. Alcock - Soil Samples Index

358000 359000 360000

6399800 6398800 6397800 6396800 6395800

N

1:4,000

0 250 500 m

Legend

2011 Soil Sample Location

Historical Soil Sample

Mt. Alcock Claims

1194581 (Sample ID) 261.5, 17.2, 275 (Zn (ppm), Pb (ppm), Ag (ppb))

Projection: UTM NAD83 Zone 10

TSX-V:CZX

CANADA ZINC METALS CORP.

Figure 7a:

Mt. Alcock - NOD Grid Soil Samples

360000 360500 361000 361500 362000

6395800 6395300 6394800 6394300 6393800

N

1:2,500

0 130 260 m

1194796
252, 26.83, 649

70-6475
70-6450 349, 36, 0.3
70-6425 549, 18, 0.2
70-6400 857, 28, 0.5
70-6375 1080, 39, 2.1
70-6350 726, 31, 0.6
70-6325 630, 28, 0.4
70-6300 152, 17, 0.1
70-6275 648, 19, 1.1
70-6250 415, 13, 0.3
70-6225 358, 15, 0.1
70-6200 283, 22, 0.1
70-6175 106, 20, 0.2
70-6150 150, 35, 0.2
70-6125 248, 34, 0.3
70-6100 199, 34, 0.6
70-6075 618, 39, 0.3
70-6050 271, 28, 0.2
70-6025 420, 32, 0.5
70-6000 327, 34, 1
70-5975 224, 76, 2.4
70-5950 180, 34, 1.1
70-5925 336, 48, 0.5
70-5900 526, 51, 0.4
70-5875 228, 36, 0.3
70-5850 323, 37, 0.3
70-5825 300, 47, 0.4
70-5800 184, 18, 0.2
70-5775 206, 32, 0.2
70-5750 225, 30, 0.2
70-5725 224, 26, 0.3
70-5700 153, 20, 0.1
70-5675 193, 15, 0.1
70-5650 219, 26, 0.6
70-5625 264, 22, 0.3
70-5600 105, 10, 0.1
70-5575 194, 28, 0.4
70-5550 204, 23, 0.4
70-5525 207, 22, 0.3
70-5500 360, 39, 0.4
308, 35, 0.7

68-6500
68-6475 185, 7, 0.3
68-6450 620, 14, 1.8
68-6425 422, 11, 0.3
68-6400 571, 16, 1.9
68-6375 159, 11, 0.1
68-6350 335, 14, 0.1
68-6325 616, 29, 0.1
68-6300 384, 11, 0.5
68-6275 487, 19, 0.1
68-6250 497, 21, 0.1
68-6225 1831, 20, 0.1
68-6200 307, 21, 0.6
68-6175 470, 16, 0.1
68-6150 247, 18, 0.2
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Legend

- 2011 Soil Sample Location
- Historical Soil Sample
- Mt. Alcock Claims

1194581 (Sample ID) — 261.5, 17.2, 275 (Zn (ppm), Pb (ppm), Ag (ppb))

Projection: UTM NAD83 Zone 10

TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 7b:
Mt. Alcock - SEEP Soil Samples

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N

1:4,000

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Legend

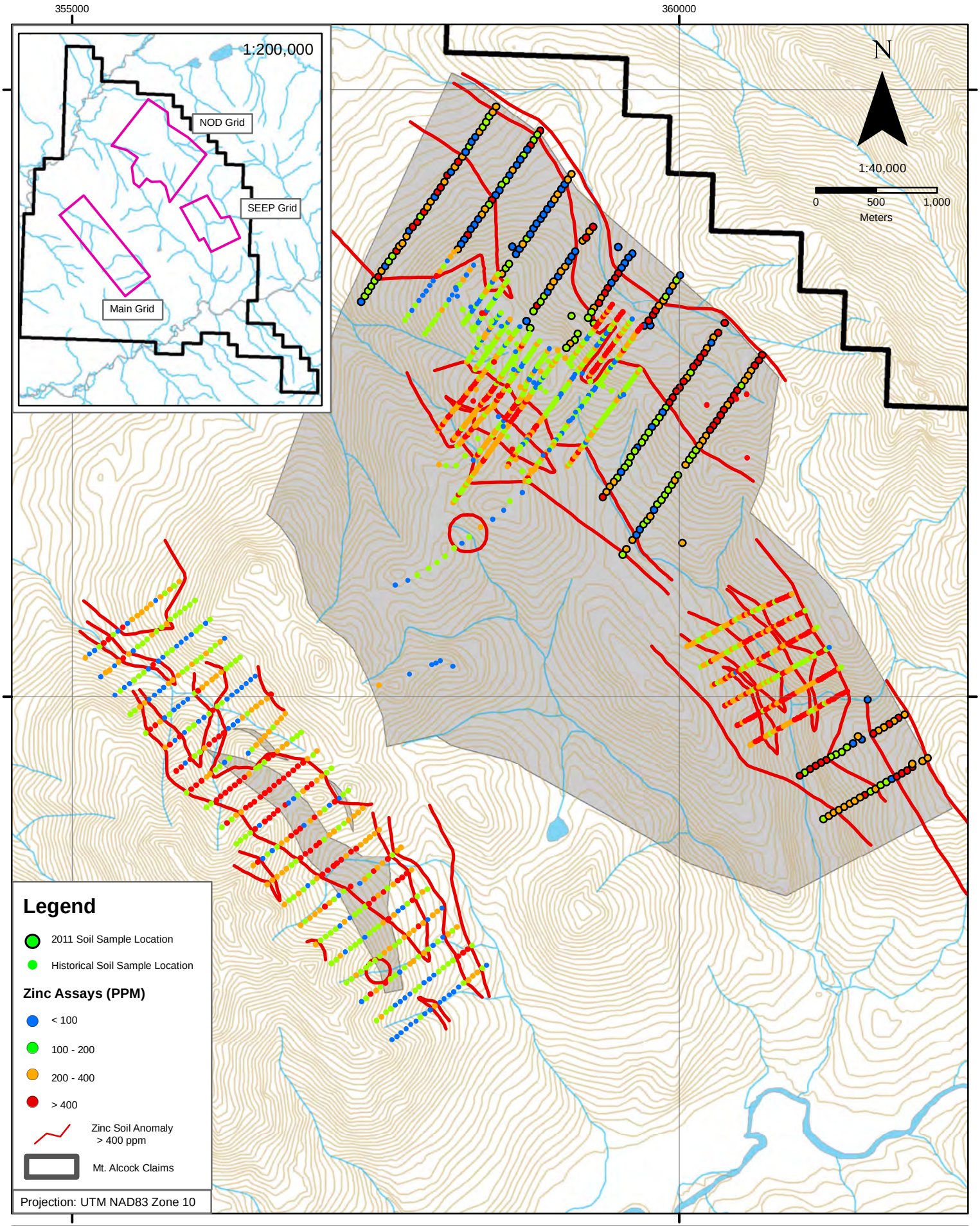
- 2011 Soil Sample Location
- Historical Soil Sample
- Mt. Alcock Claims

1194581 (Sample ID) — 261.5, 17.2, 275 (Zn (ppm), Pb (ppm), Ag (ppb))

Projection: UTM NAD83 Zone 10

TSX-V:CZX
CANADA ZINC METALS CORP.

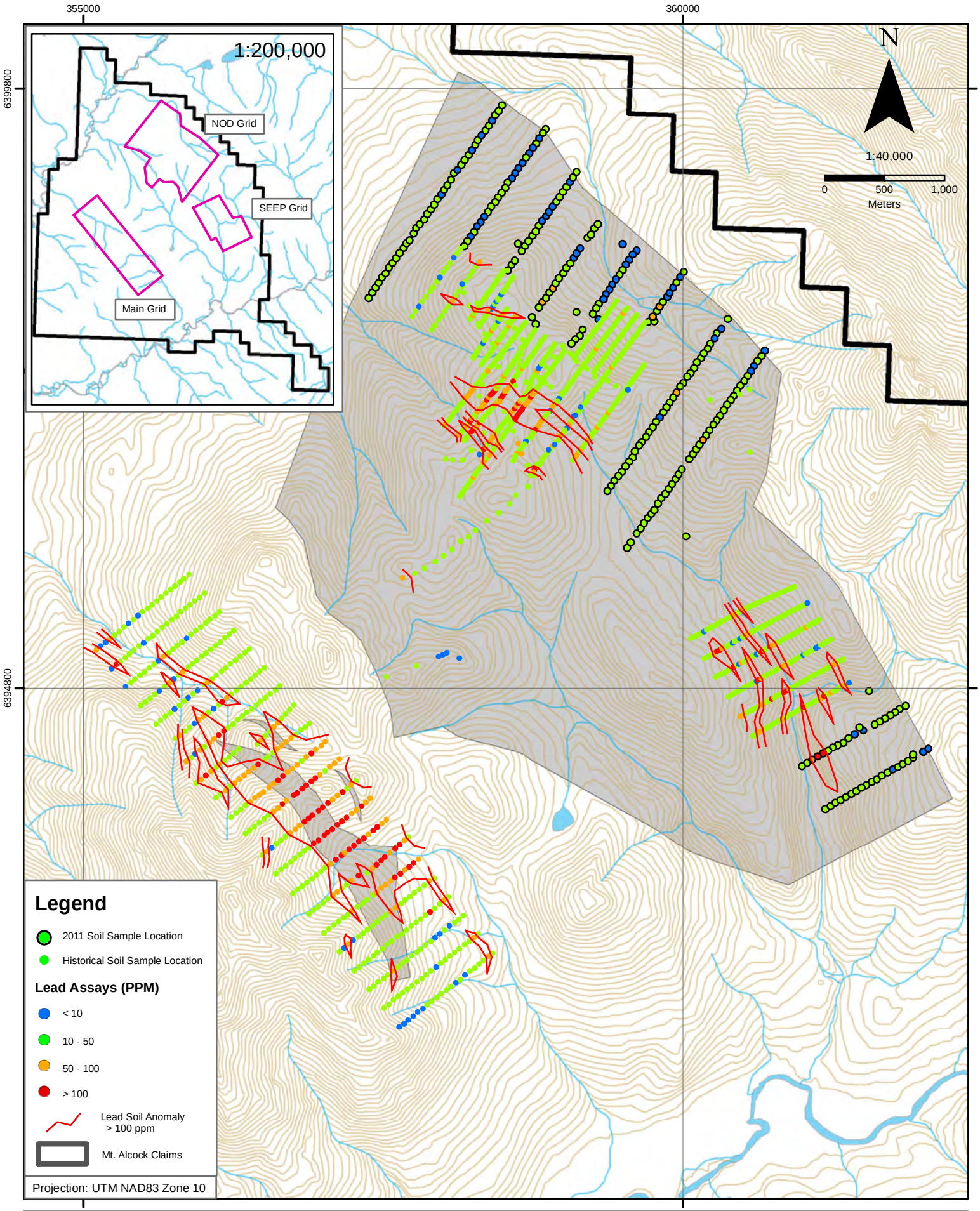
Figure 7c:
Mt. Alcock - Main Grid Soil Samples



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 7d:

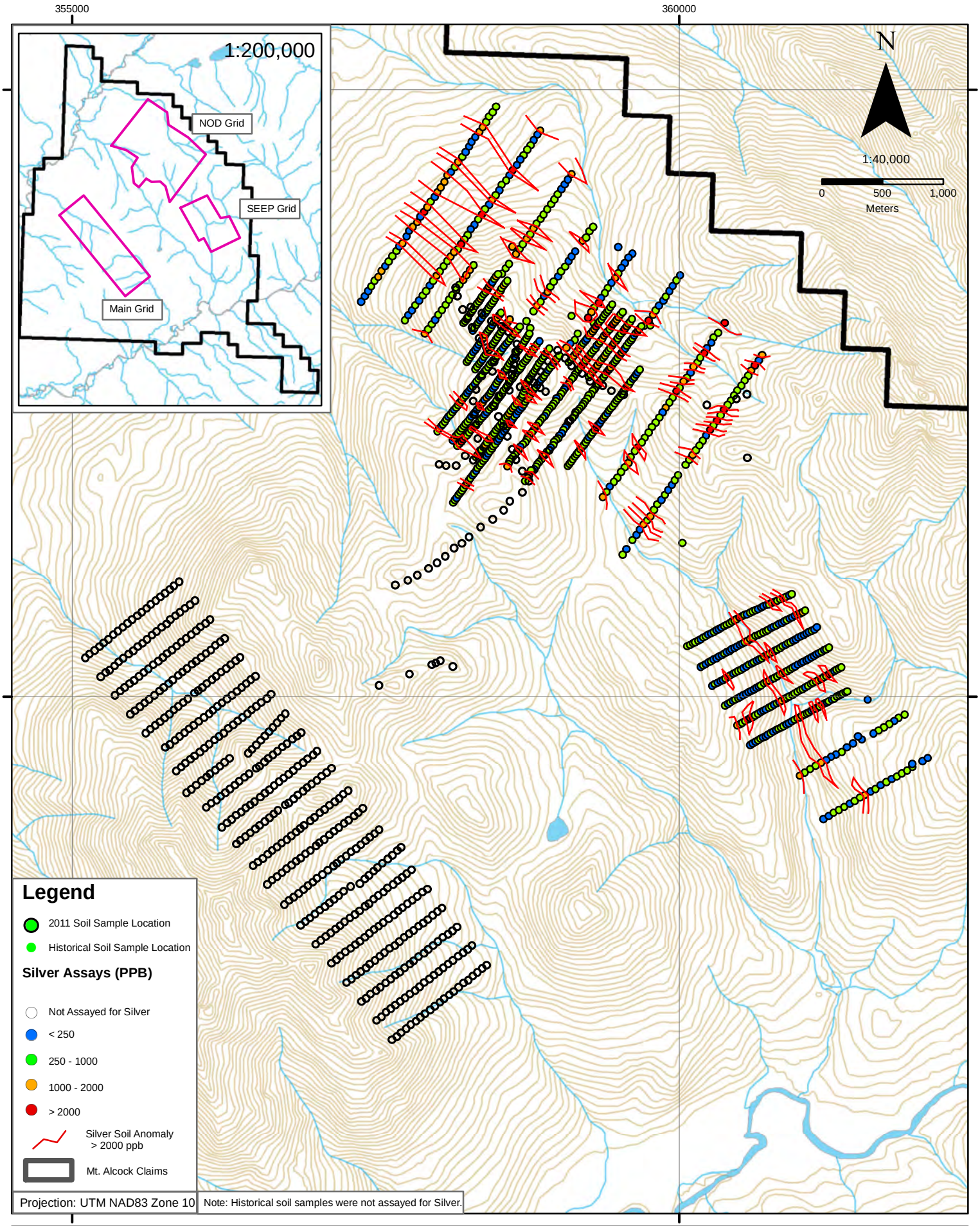
Mt. Alcock Soil Samples (Zinc)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 7e:

Mt. Alcock Soil Samples (Lead)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 7f:

Mt. Alcock Soil Samples (Silver)

N

1:15,000

0 500 1,000 m

352000 354000 356000 358000 360000 362000 364000

6401800 6399800 6397800 6395800 6393800 6391800 6389800 6387800

45284 54, 22, 0.5 | 45289 20, 2, 0.1 | 45283 126, 23, 0.3 | 45245 21, 20, 0.2 | 45243 52, 23, 0.1 | 45242 29, 21, 0.2 | 45247 109, 26, 0.1 | 45286 26, 9, 0.5 | 45288 52, 13, 0.3 | 45290 8, 5, 0.1 | 45291 20, 9, 0.1 | 45292 28, 12, 0.2

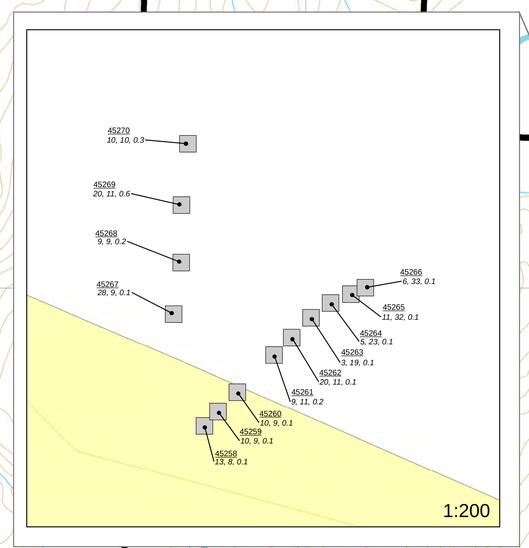
NOD Grid

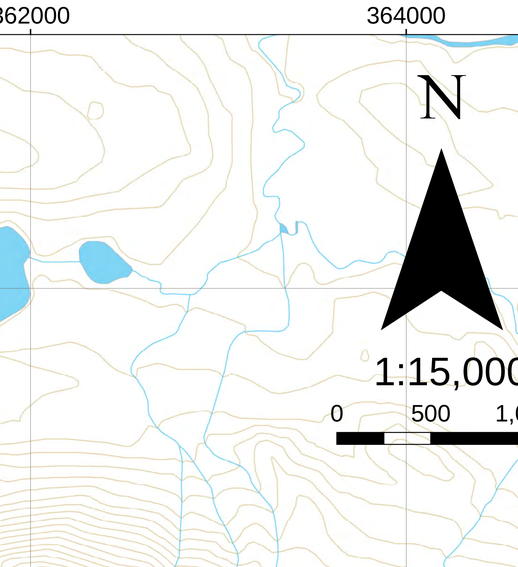
Main Grid

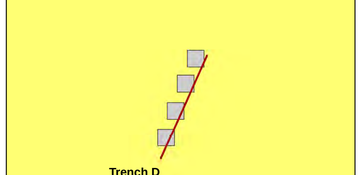
SEEP Grid

119346 27.2, 7.3, 152 | 45213 57, 4, 0.3 | 45214 140, 10, 0.6 | 45256 20, 5, 0.2 | 45217 236, 34, 0.6 | 45255 16, 10, 0.5 | 45204 74, 20, 0.4 | 45257 29, 10, 0.2 | 45203 62, 10, 0.1 | 45202 198, 23, 0.5 | 45201 117, 23, 0.2 | 45205 908, 52, 1.3 | 857744 55, 7.47, 16 | 857745 11.6, 32.65, 75 | 860515 22.9, 28.02, 92 | 860516 13.4, 392.3, 369 | 45254 224, 28, 0.2 | 860513 5.6, 5.61, 104 | 860512 70.7, 6.71, 157 | 860514 17, 7.26, 84 | 860511 83.3, 6.49, 107 | 45253 9, 10, 0.1 | 45252 12, 3, 0.2 | 860520 85.2, 10.26, 627 | 860519 158.2, 16.88, 132 | 45272 119, 10, 0.7 | 45224 125, 12, 0.1 | 857749 2.8, 15.88, 68 | 857750 7.5, 34.25, 149 | 857748 44.7, 24.12, 115 | 45223 86, 5, 0.3 | 45220 37, 14, 0.2 | 45228 1051, 135, 0.2 | 45229 103, 43, 0.4 | 45233 29, 13, 0.6 | 45235 57, 28, 0.7 | 45232 46, 11, 0.1

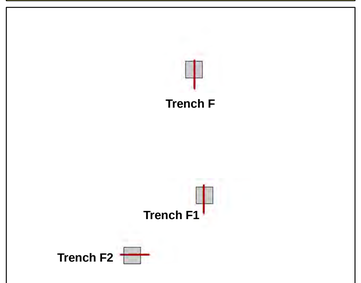
639990 >10000.0, 30.58, 270 | 639983 93, 10.63, 124 | 639981 358.7, 21.56, 432



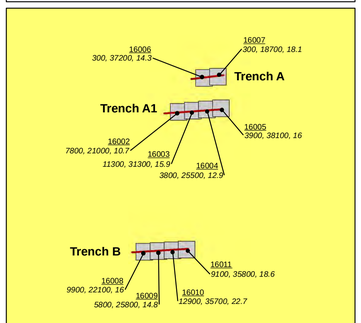




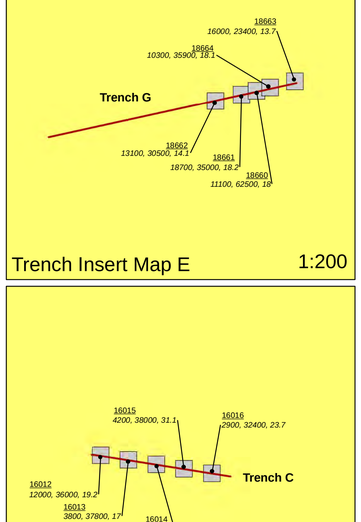
Trench Insert Map B 1:100



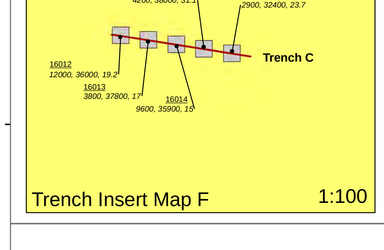
Trench Insert Map C 1:100



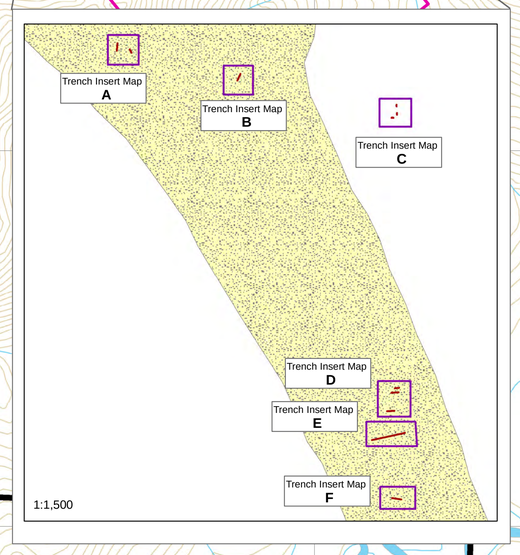
Trench Insert Map D 1:200

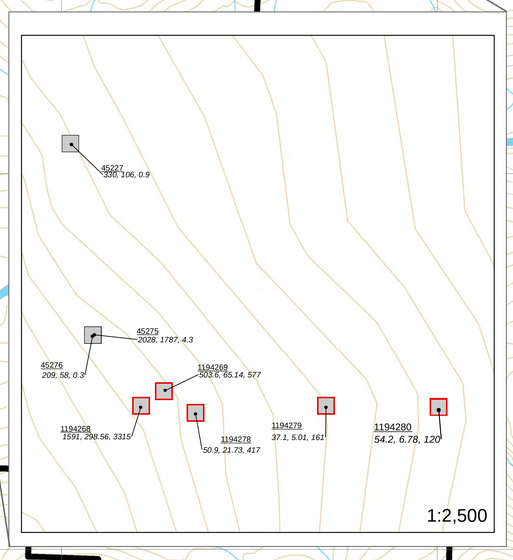


Trench Insert Map E 1:200



Trench Insert Map F 1:100





Legend

- 2011 Rock Sample Location
- Historical Rock Sample
- Mt. Alcock Claims
- Barite Kill Zones

SL-SP-08 (Sample ID) 261.5, 17.2, 275 (Zn (ppm), Pb (ppm), Ag (ppb))

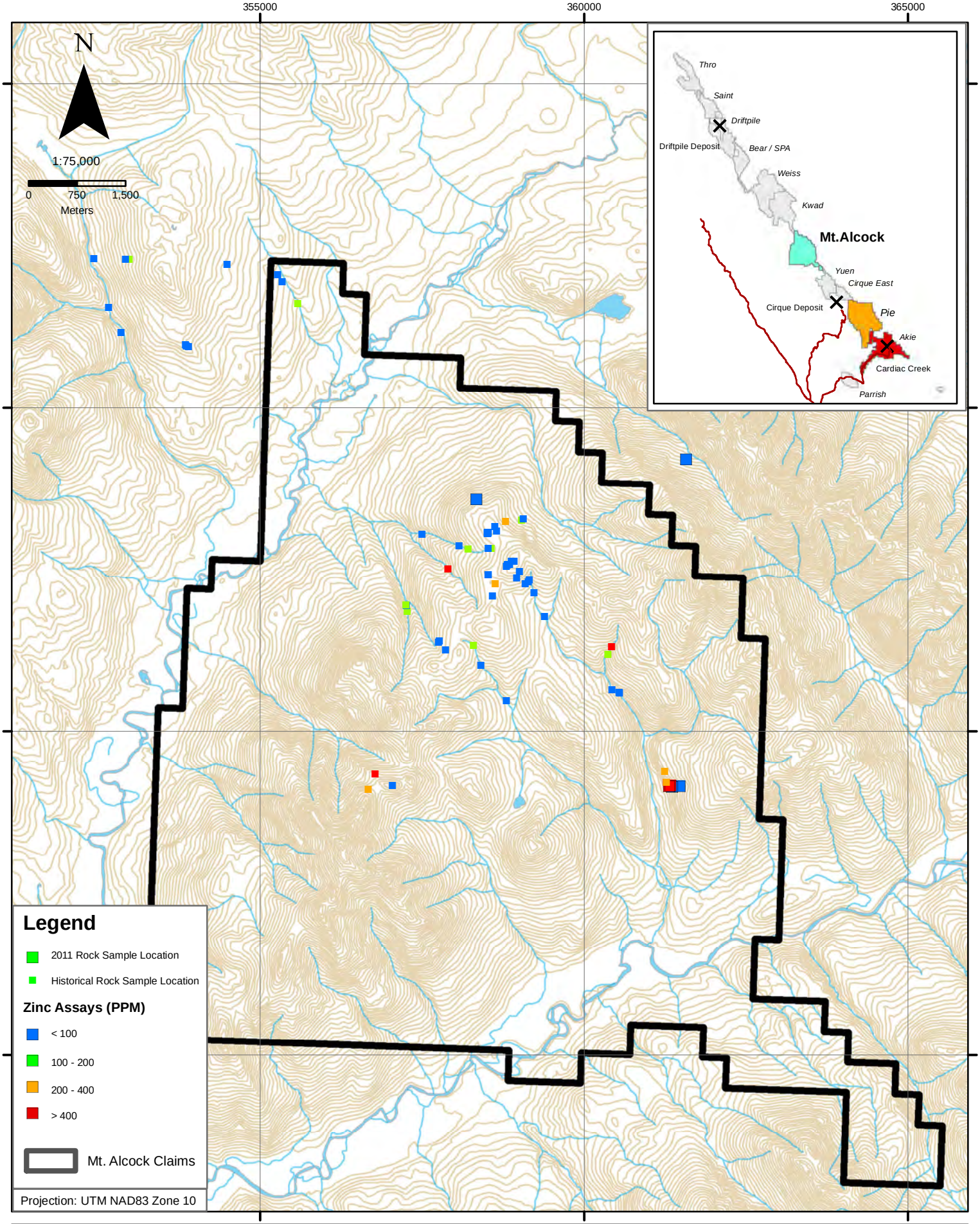
Projection: UTM NAD83 Zone 10

TSX-V:CZX

CANADA ZINC METALS CORP.

Figure 8a:

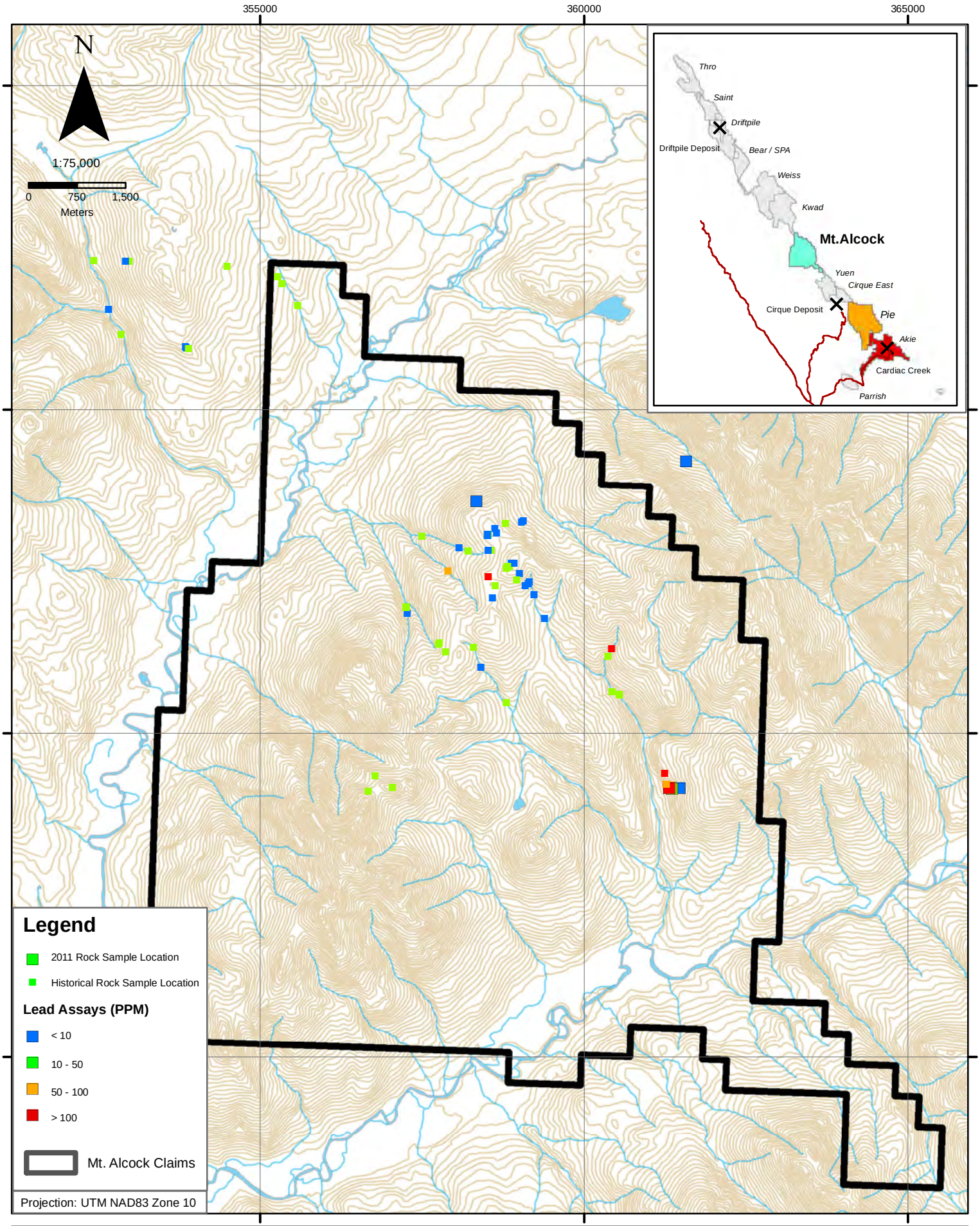
Mt. Alcock Rock Sample Locations



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 8b:

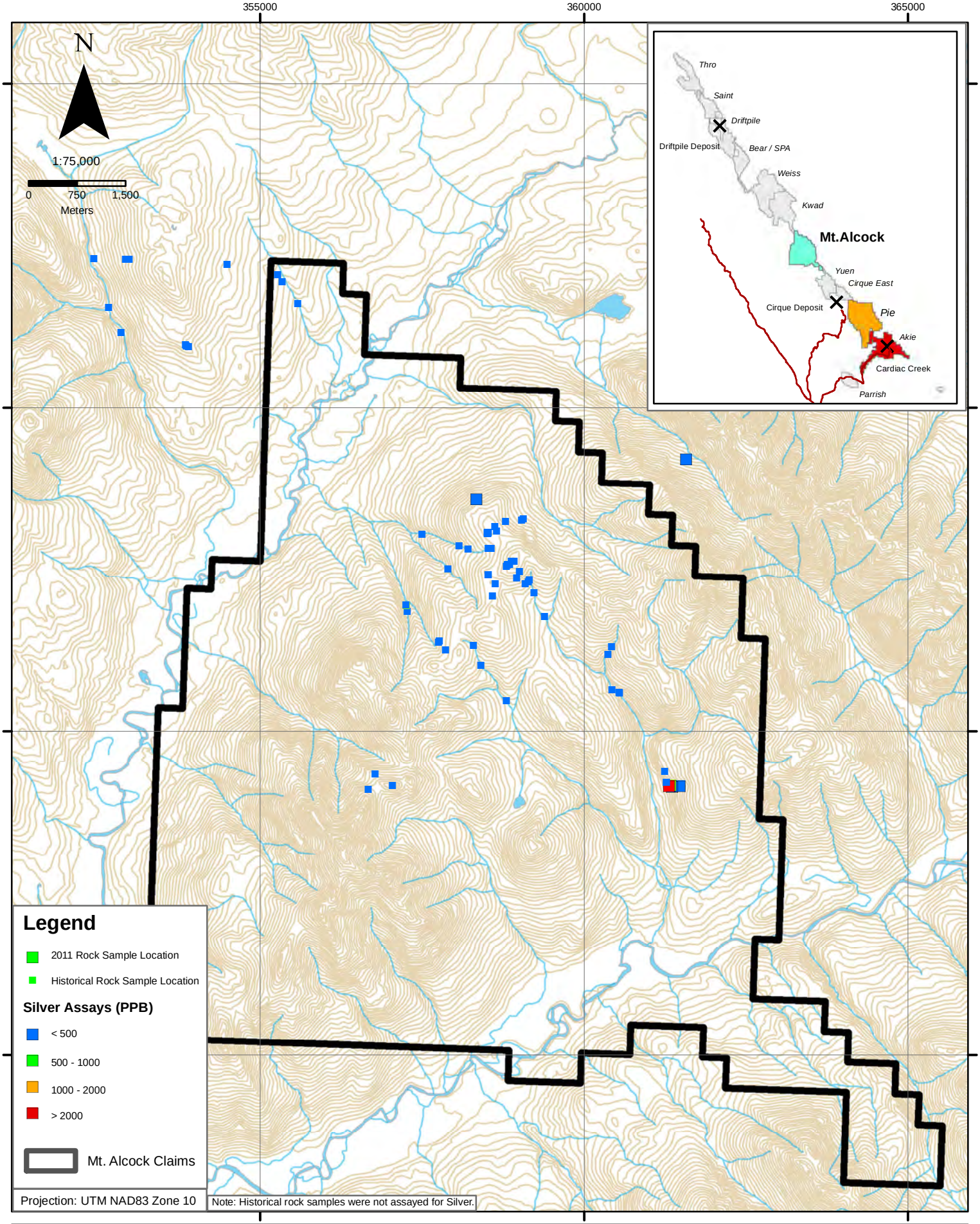
Mt. Alcock Rock Samples (Zinc)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 8c:

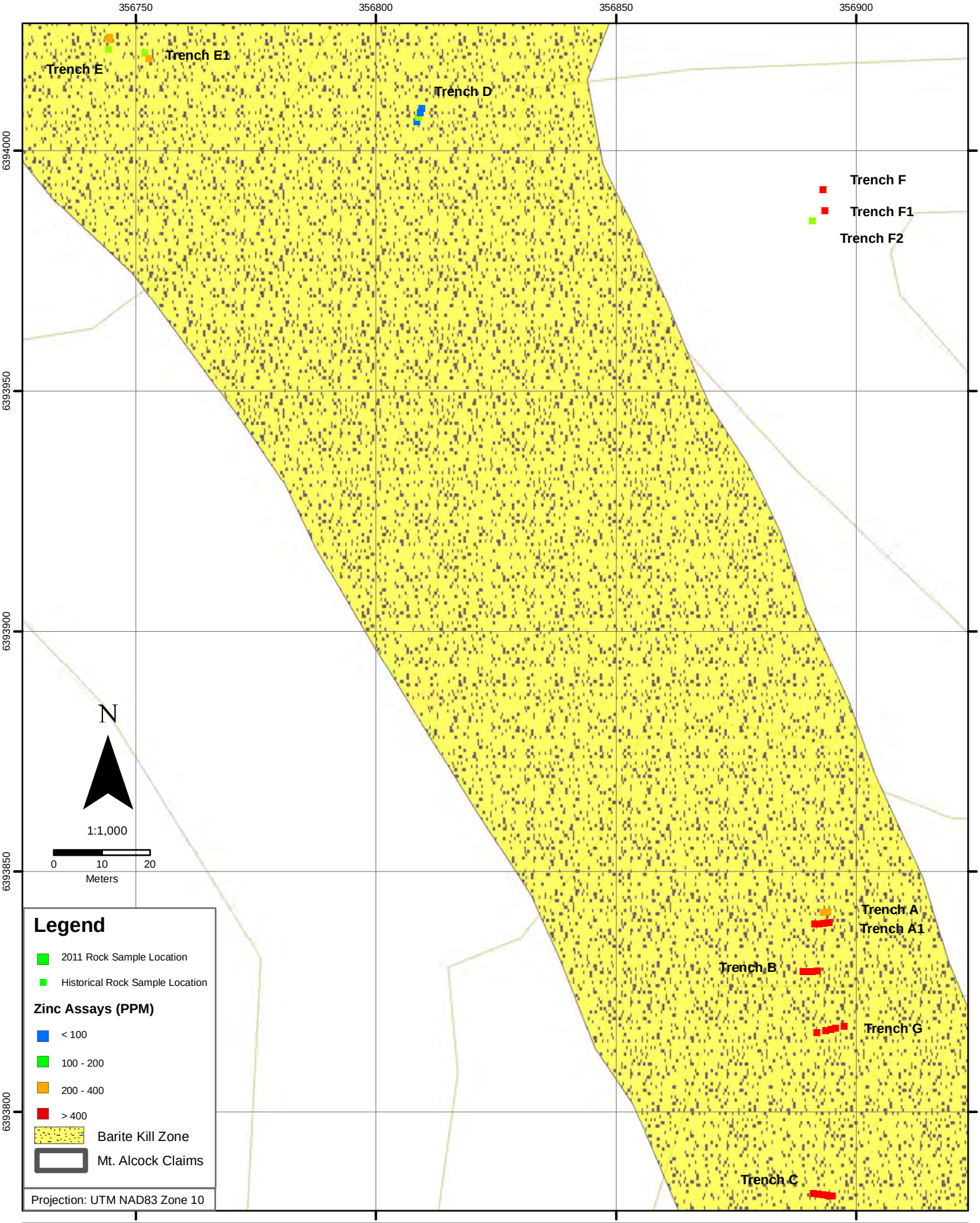
Mt. Alcock Rock Samples (Lead)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 8d:

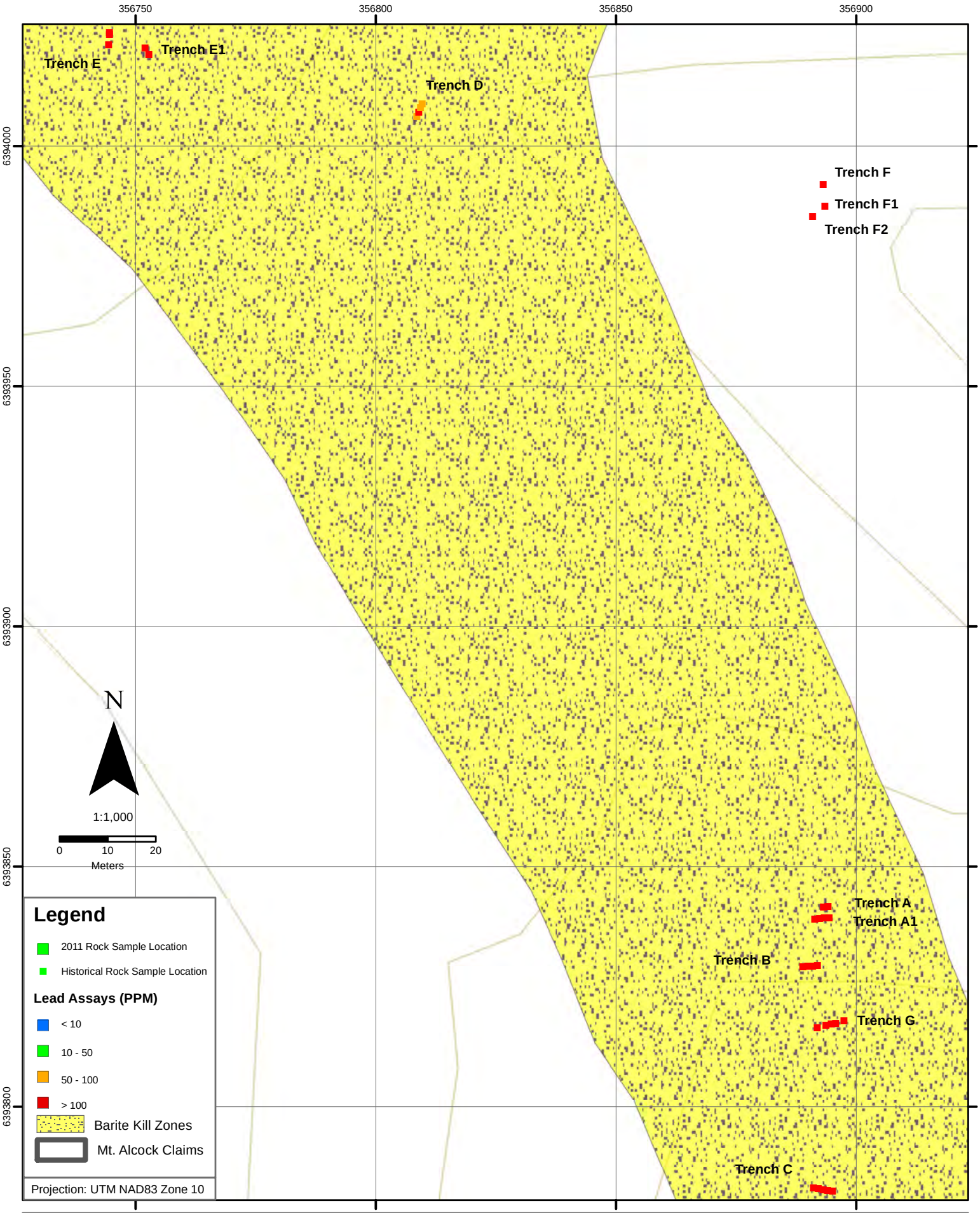
Mt. Alcock Rock Samples (Silver)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 8e:

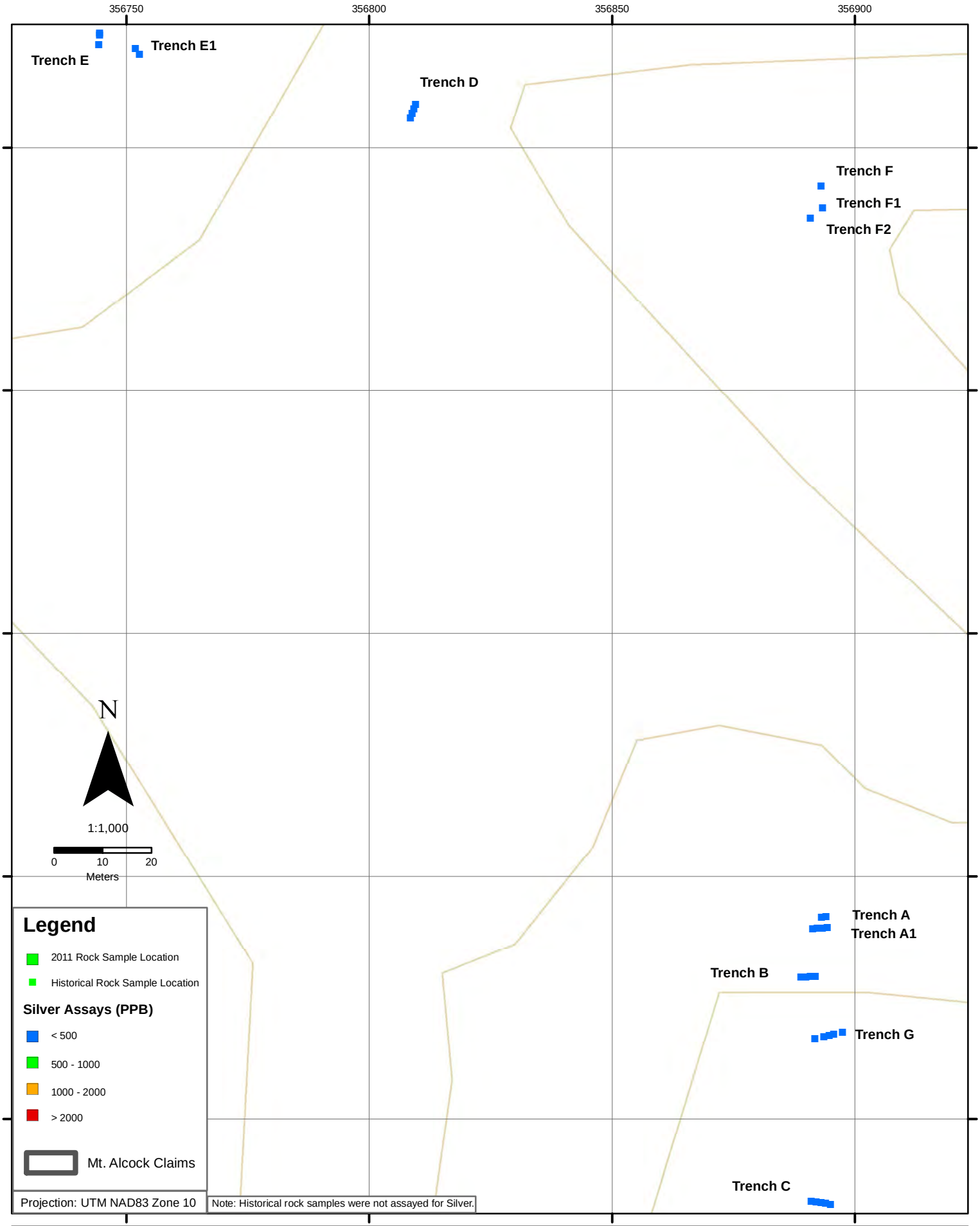
Mt. Alcock Trench Rock Samples (Zinc)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 8f:

Mt. Alcock Trench Rock Samples (Lead)



TSX-V:CZX
CANADA ZINC METALS CORP.

Figure 8g:

Mt. Alcock Trench Rock Samples (Silver)