



ASSESSMENT REPORT ON THE 2011 GEOCHEMICAL SURVEY OF THE BOLT PROPERTY
Finlayson area, Watson Lake mining district, Yukon

NTS 105G 08, 09; 105H 05, 12

Latitude 61°28' N, longitude 130°03'W

BLT 1	YD26501	BLT 116 - 128	YD26081 - YD26093
BLT 2	YD26094	BLT 129	YD26080
BLT 3 -26	YD74903 - YD74926	BOLT 1 - 10	YC73898
BLT 27- 62	YD26401 - YD26436	BOLT 11- 28	YC89631 - YC89648
BLT 63 - 102	YD74963 - YD75002	BOLT 29 - 69	YD09279 - YD09319
BLT 103 - 115	YD26067 - YD26079		

Survey conducted June 2- 27 2011

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July 19 2012

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SUMMARY

The Bolt property is located roughly 120 km southeast of Ross River, 200 km northwest of Watson Lake, and about 4 km south of the Robert Campbell Highway. Access is by helicopter. It is located in the Finlayson District, an area endowed with several VMS occurrences and deposits, one of which is the Wolverine Mine, located 10 km south of the property.

The Bolt property roughly overlaps Cominco's former Strike claims, and hosts several VMS targets. Redtail Metals Corp optioned the Bolt claims from Strategic Metals in 2011 (69 claims) and added on 129 new BLT claims to the southwest, to form what is currently called the Bolt Property, for a total of 198 claims. The combined claims cover several airborne EM conductors as outlined by Cominco's 1995 airborne EM survey (not filed as assessment).

The 'Bolt' claims (optioned from Strategic Metals) cover several airborne EM conductors, which were followed up by Cominco in 1995, 1997 and 1998 with different phases of soil geochemical surveys, ground EM and mag surveys, geological mapping, as well as two short drill holes. Strategic Metals followed suit in 2008 and 2009 with additional soil sampling, and trench as well as five short drill holes in 2010. Minfile no. 105G 041 (Finlayson) describes this occurrence (Appendix B). This area is referred to by Redtail Metals as **Bolt NE**. The Campbell Range mafic volcanic sequence underlies this part of the property, which is prospective for Cyprus-type VMS deposits. The 2011 soil survey focused on expanding the existing soil grid, as some anomalies were still unconstrained by the historical grids.

The area to the SW, now covered by the new 'BLT' claims, saw limited contour soil and silt sampling by Cominco, as well as some grid soil geochem and ground geophysics on three small grids established over airborne conductors. One follow-up geophysical anomaly (on ST-3 grid) was determined to be drill-ready. No additional work is recorded for that area until Redtail Metals 2011's soil geochem survey (this report). This area is referred to as **Bolt SW**. Highly strained metasedimentary rocks and felsic metavolcanic rocks of the Wolverine Lake sequence of Yukon Tanana Terrane underlie this portion of the property.

One reconnaissance soil by Cominco, located on Bolt SW, graded 628 ppm Cu, 156 ppm Pb, 519 ppm Zn, 1668 ppm Ba (ICP) and 968 ppm Mn. A few silt samples located downstream from this anomaly graded around 200 ppm Cu. A soil survey was conducted on 200m-spaced lines, south of Cominco's ST-2 and ST-3 grids. It was designed to expand the soil coverage south of these grids and to cover the area of anomalous silts and soils.

The 2011 field program on the Bolt SW outlined a strong multi-element soil anomaly (Pb-Cu-Zn) which overlaps this anomalous Cominco soil, and is also coincident with felsic meta-volcanic rocks assigned to the Wolverine Lake succession (Murphy, pers. com.), that same stratigraphy that hosts the Wolverine Lake deposit approximately 10 km to the south. The anomalous area also includes a zone of newly-documented outcrops displaying intense sericite alteration and an occurrence of malachite.

The soil survey was contracted to Aurora Geosciences, a consulting firm based in Whitehorse. It was conducted from two separate helicopter-accessible fly camps, one for the Bolt SW, followed by a move to the Bolt NE. A total of 1021 soil samples and 15 rock samples were assayed.

The favourable geological and geochemical indicators support the proposal of a program of mapping, infill soil sampling and geophysics, with the goal of delineating drill targets following a VMS mineral deposit model.

LOCATION AND ACCESS

The Bolt property consists of 198 contiguous mineral claims, which are located in southeastern Yukon on NTS map sheets 105G/08 and 09 and 105H/05 and 12 at latitude 61°28' north and longitude 130°03' west (Figure 1). The Bolt claims lie

The staging area used in 2011 is a burrow pit located on the Robert Campbell Highway, approximately 6 km from the property, and located 200 km north of Watson Lake. Access to the property was provided by a Bell 206 Jet Ranger helicopter chartered from Trans North Air in Ross River. A Hughes 500D helicopter, operated by Kluane Airways from the Inconnu Lodge on McEvoy Lake, located 33 km north of the property, is also available and was used on later projects.



The Bolt property consists of 198 contiguous mineral claims, which are located on NTS map sheets 105G/08 and 09 and 105H/05 and 12 at latitude 61°30' north and longitude 130°00' west (Figure 2). The claim names are Bolt 1 to 69 and BLT 1 to 129. The claims are registered with the Watson Lake Mining Recorder in the name of Redtail Metals Corp. The BLT claims are currently valid till March 2017. Some of the BOLT claims expire in March 2022, while most of them expire in March 2017. The detailed claim data is found in Appendix A.

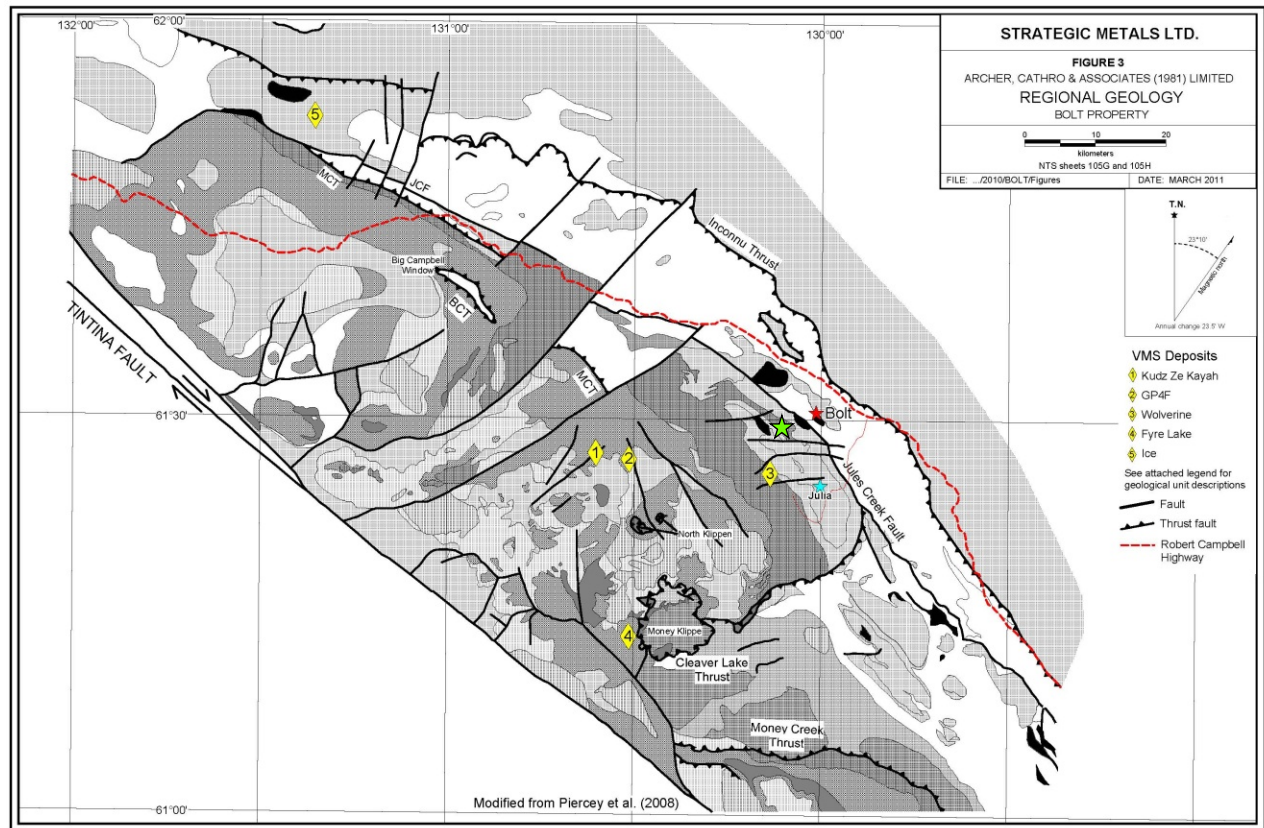


Figure 3 Location of significant VMS occurrences in Yukon Tanana Terrane
 From Fu, 2011, *Strategic Metals Assessment report*.

The follow-up ground EM method used by Cominco was the proprietary UTEM survey, which proved very successful for detecting massive sulphide mineralization. These surveys eventually led to the discovery of several VMS showing, notably one that became the Kudzu Ze Kayah deposit, others were the Fault Creek and GP4F deposits.

At the property scale, the Bolt is very prospective for a variety of types of VMS mineralization. Don Murphy, from the YGS, kindly provided updated (unreleased) digital regional geology, see below, Figure 5.

The **Bolt NE** part of the claim block is underlain by a complex package of mafic metavolcanic rocks, cherts and ultramafics of the Campbell Range succession and is thought to be a favourable environment for the same type of mineralization as that found at the ICE deposit, 82 km to the NW (Minfile 105G 118, see Appendix B.) There, Cyprus-type VMS mineralization was found in various facies of mafic volcanic rocks, cherts and argillites, by tracing surface occurrences of vegetation kill zones, surface coatings of malachite on barren mafic volcanic rocks, and high Cu and Zn in soils. The exact same environment occurs on the Bolt NE grid. Banded and disseminated mineralization is also found in Campbell Range rocks 10 km to the SE, at the Julia showing (Minfile 105H 078).

A northwest-trending drainage divides the Bolt claims to the NE from the BLT claims to the SW. This broad topographic low corresponds to the Jules Creek fault, a major structural discontinuity that here juxtaposes the rocks of the Campbell Range sequence (Bolt NE) on the northeast side with the highly strained metavolcanic and metasedimentary rocks of Yukon Tanana Terrane on the southwest side of the fault (Bolt SW).

The 2011 target area on the **Bolt SW** is underlain by highly strained rocks of Yukon Tanana Terrane, specifically the volcano-sedimentary Wolverine Lake sequence, the same sequence that hosts the Wolverine deposit, on the other limb of regional fold. Highly strained felsic metavolcanic rocks, locally strongly pyritized and sericite-altered, occur on the western part of the grid. The mapping still needs to be improved, but the 2011 field work showed the distribution of Wolverine Lake stratigraphy is more extensive than what was previously thought (see **FIGURE 20**). Minfile description 105G 118 describes the geological setting at the Wolverine deposit (Appendix B). The section on the Redtail 2011 work describes the property geology in more detail.

Figure 4 below gives a visual overview of the different geological elements of the property.



FIGURE 4 BOLT PANORAMA

Bolt Claims- Regional Geology from Murphy (pers com)

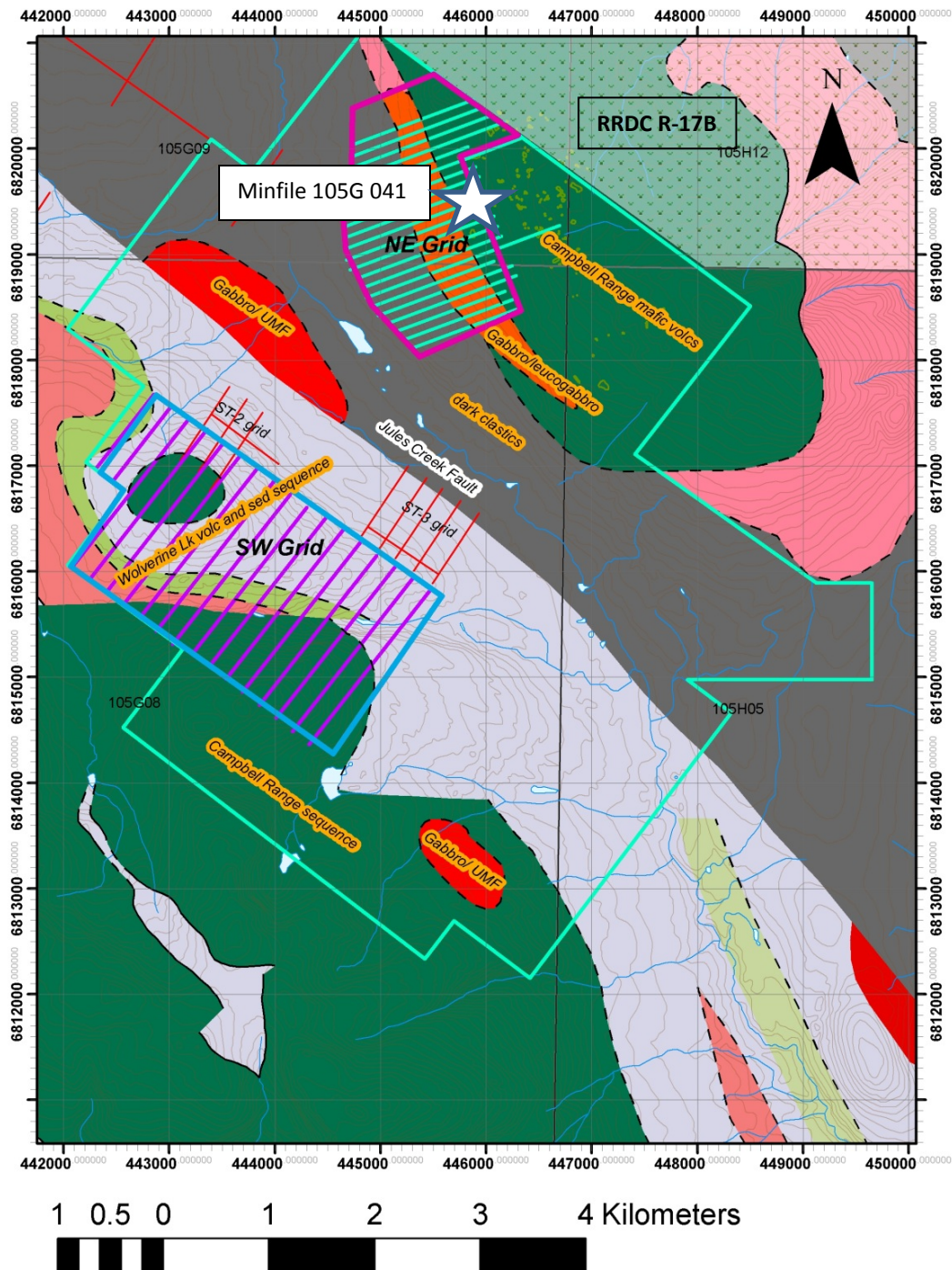


FIGURE 5 REGIONAL GEOLOGY MAP, MURPHY D.C., PERS COMM.

RGS DATA

The RGS Data shows that two sample sites located on, and draining the area of interest on the Bolt SW grid, grade in the 99 percentile range for Cu and for Ag. One of those sample site ranks in the 95-99th percentile for Pb and Zn, see below, Figure 6. Later soil sampling by different operators confirmed the anomalous nature of the target areas.

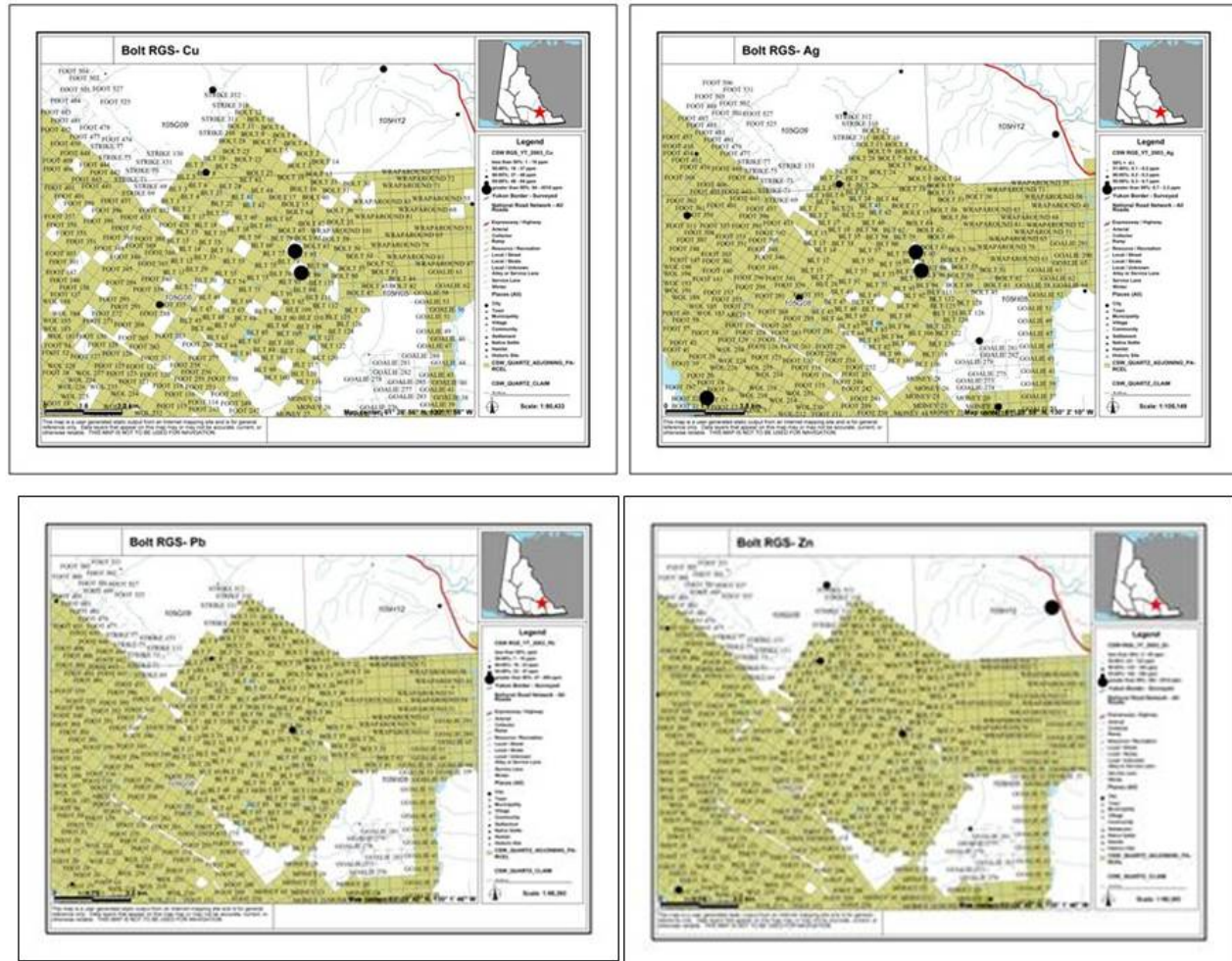
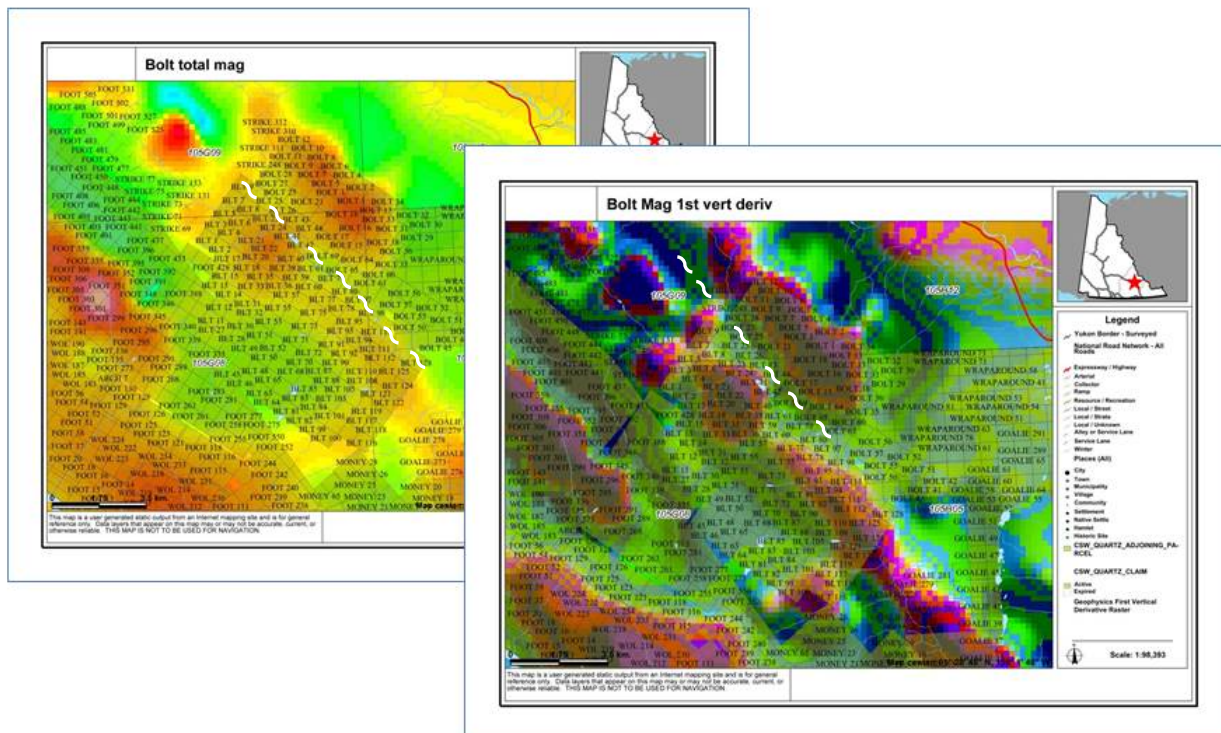


FIGURE 6 RGS DATA

REGIONAL MAG DATA

The regional aeromag data shows the two different domains separated by the Jules Creek Fault. The Campbell Range succession at the northeast corner of the claim block shows up as a strong magnetic feature in the total mag. The area to the south of the Jules Creek fault mapped as Wolverine Lake sequence shows up as a broad linear moderately high mag feature on the total mag. Its contrast is emphasized on the first vertical derivative map. This horizon has the potential to host the same iron formation that is located at the base of the Wolverine Lake deposit.



Regional mag data: a) total field; b) first vertical derivative

FIGURE 7 REGIONAL MAG DATA

PREVIOUS WORK- PREVIOUS OPERATORS

The following is compiled from the Minfile description (105G 041, Appendix B) and from the assessment reports (see References).

The area was first staked as May cl (Y7970) in Jun/66 by B. Haskell. Cominco Ltd re-staked the occurrence in May/95 as part of a large northwest trending claim block (Strike cl 1-320 (YB59582)). Later in the summer the company carried out silt sampling which returned several anomalous values for Cu, Zn and Ba. An airborne EM/magnetic survey was flown that summer, which outlined several conductive zones, five of which possessed moderate to strong AEM response associated with strong, linear magnetic features.

In 1996, Cominco established three ground grids in the area of the Bolt SW grid area, targeting AEM/ Mag features identified from the 1995 airborne survey (grids ST-2, -3 and 4). These grids were surveyed with HLEM and Mag, which identified numerous conductors with flanking strong magnetics. The ST-3 grid was considered a favourable geophysical target and drilling was recommended (see Figure 10). Grid soil sampling as well as contour soil and silt sampling identified several strong Cu-Ni anomalies on the grids (Bolt SW) which were not followed up. A strong Cu-Ni anomaly in the area of the current Bolt NE area later became the main focus of interest.

In 1997, Cominco staked additional ground, and identified a large area of ferricrete with talus of mafic volcanic rocks with malachite-stained fractures in the (Bolt NE area), additional silts and contour soils returned values highly anomalous in Cu.

In 1998, Cominco carried out follow up line cutting, ground geophysics (UTEM, HLEM and mag), soil and silt sampling, prospecting and geological mapping and diamond drilling of two holes (245.4 m) in the northeast corner of the property (**Bolt NE**). This is the area described in Minfile 105G 041 (see Appendix B). Core recovery was extremely poor. One drill hole intersected a fault zone where a 3 m interval recovered pebbles consisting of grey silica (chert) with 10-40% f.g. pyrite and 1-5% f.g. chalcopyrite, returning grades of 3.1% Cu and 6.4g/t Ag. Pieces of vein material in hematitic chert mineralized with massive pyrite and 2-10% disseminated fine chalcopyrite were recovered just below the pebble/fault interval. This occurrence was thought to correspond to the weak EM conductor at surface.

Cominco concluded that the ferricrete and related soil anomalies on the Bolt NE were probably hydromorphic in origin, simply concentrating high background Cu-Ni values in ultramafic lithologies. The different conductors were interpreted as representing faults and gouge zones, the mineralization encountered in drill hole was interesting but the lack of a strong EM/mag signature indicated limited potential.

In late 2008, Strategic Metals staked the Bolt claims (Bolt NE) in the area of the Minfile occurrence, and performed some contour soils. In 2009, two hand trenches were dug in one of the occurrences of ferricrete on the Bolt NE, just uphill and ahead of the collar of Cominco's hole ST98-02. The trench samples yielded high Cu-Ni values. In 2010, additional grid soils were sampled, and five drillholes were drilled to test the ferricretes, assuming a westerly dip to the stratigraphy. Results were disappointing. Copper mineralization (between 0.24 and 0.3% Cu) was intersected in angled hole Bolt 10-01, but none was intersected in hole Bolt-10-02, a vertical hole drilled on the same set-up as hole -01. This opens the possibility of the mineralization dipping either steeply or towards the east.

Copper Ridge Explorations optioned the Bolt claims (referred to herein as Bolt NE) from Strategic Metals in 2011, and staked adjoining BLT claims to the southwest (referred to as Bolt SW). The Company subsequently changed its name to Redtail Metals Corp later that year.

Figure 8 shows the digital compilation of all pre-2011 soils. Copper values are displayed. The area of the Bolt NE shows up as highly anomalous in Cu and Ni, which focused Cominco and Strategic Metals' interest. The underlying geology is mainly mafic and ultramafic volcanic and intrusive rocks, typical of the Campbell Range succession.

The **Bolt SW** lies on the other side of the Jules Creek fault, therefore the geology is different than at the Bolt NE. The soil geochemistry coverage on the Bolt SW is much less extensive. Three small grids, centered on airborne EM anomalies, were surveyed with HLEM and soil geochemistry. The geochemical results on the three Cominco ST- grids show moderate Cu values. The best geophysical target, ST-3, doesn't seem to have any outcrop. The geology underlying that area is interpreted to be part of the highly strained volcano-sedimentary assemblage of the Wolverine Lake succession, with felsic to intermediate volcanoclastic rocks, exhalites, and dark clastic and turbiditic rocks.

One of Cominco's contour soils on Bolt SW was strongly anomalous (see Figure 8 below) in **Cu (628 ppm), Pb (156 ppm), Zn (519 ppm), Ba (1668 ppm) and Mn (968 ppm)**. Silt samples collected in the creek draining that area were also anomalous in Cu, between 150 and 227 ppm in Cu. The area is underexplored, has favourable stratigraphy and the results of the 2011 season outlined below make this a target of interest.

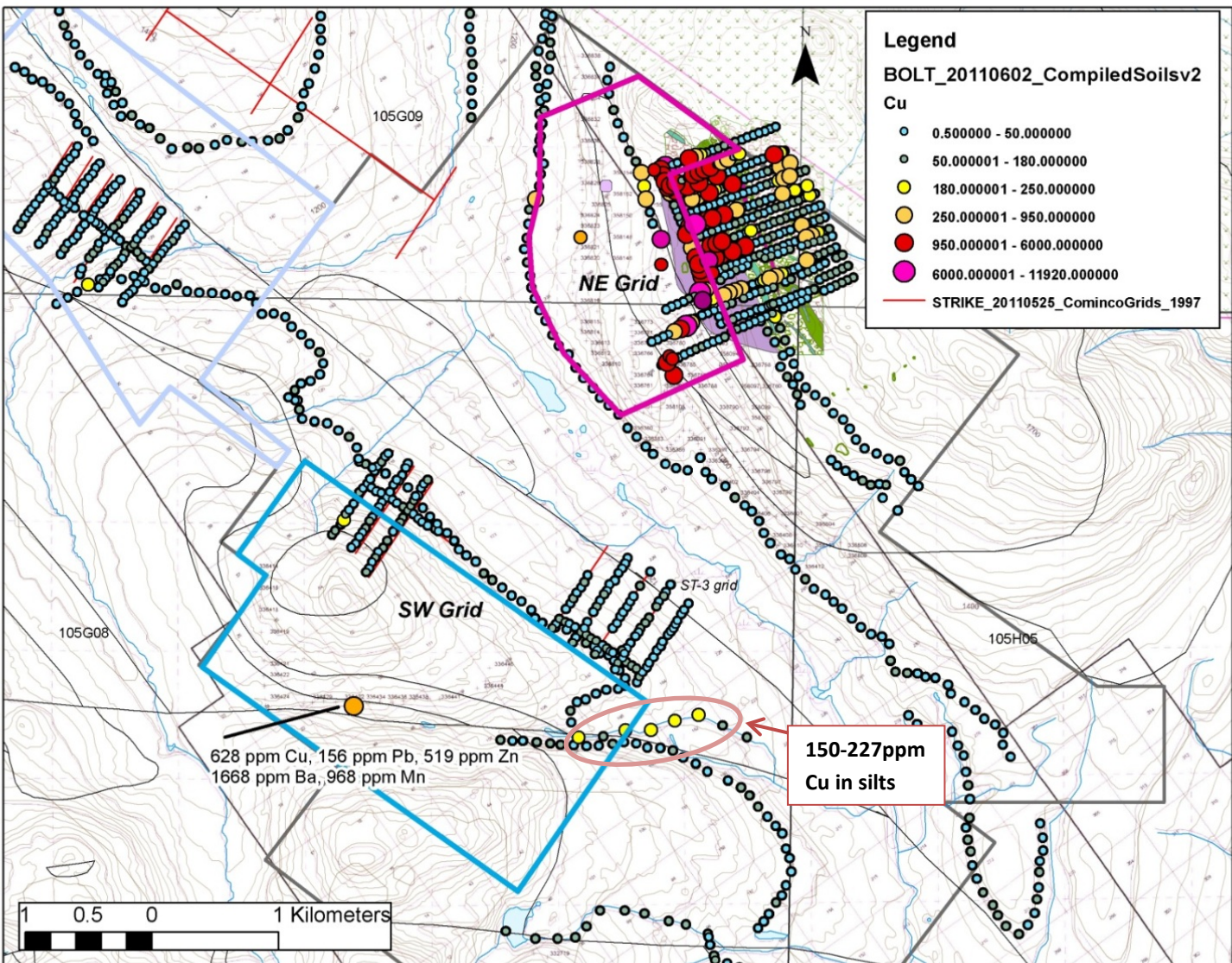


FIGURE 8 COMPILATION OF HISTORICAL SOILS (PRE-2011)- CU

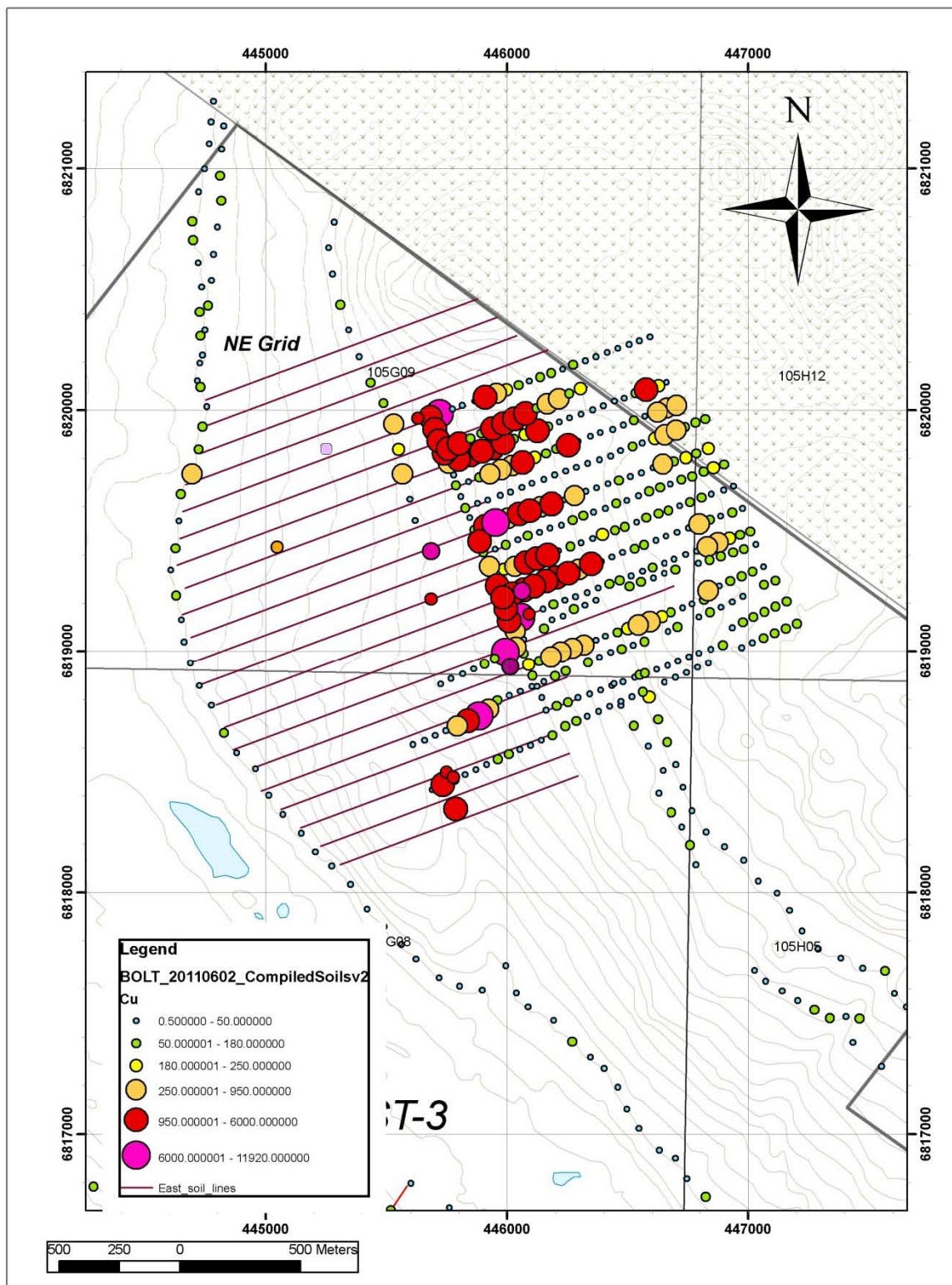


Figure 9 Bolt NE- Historical Soils- Cu

Please note that different thresholds for Cu values are used on these different geochem maps.

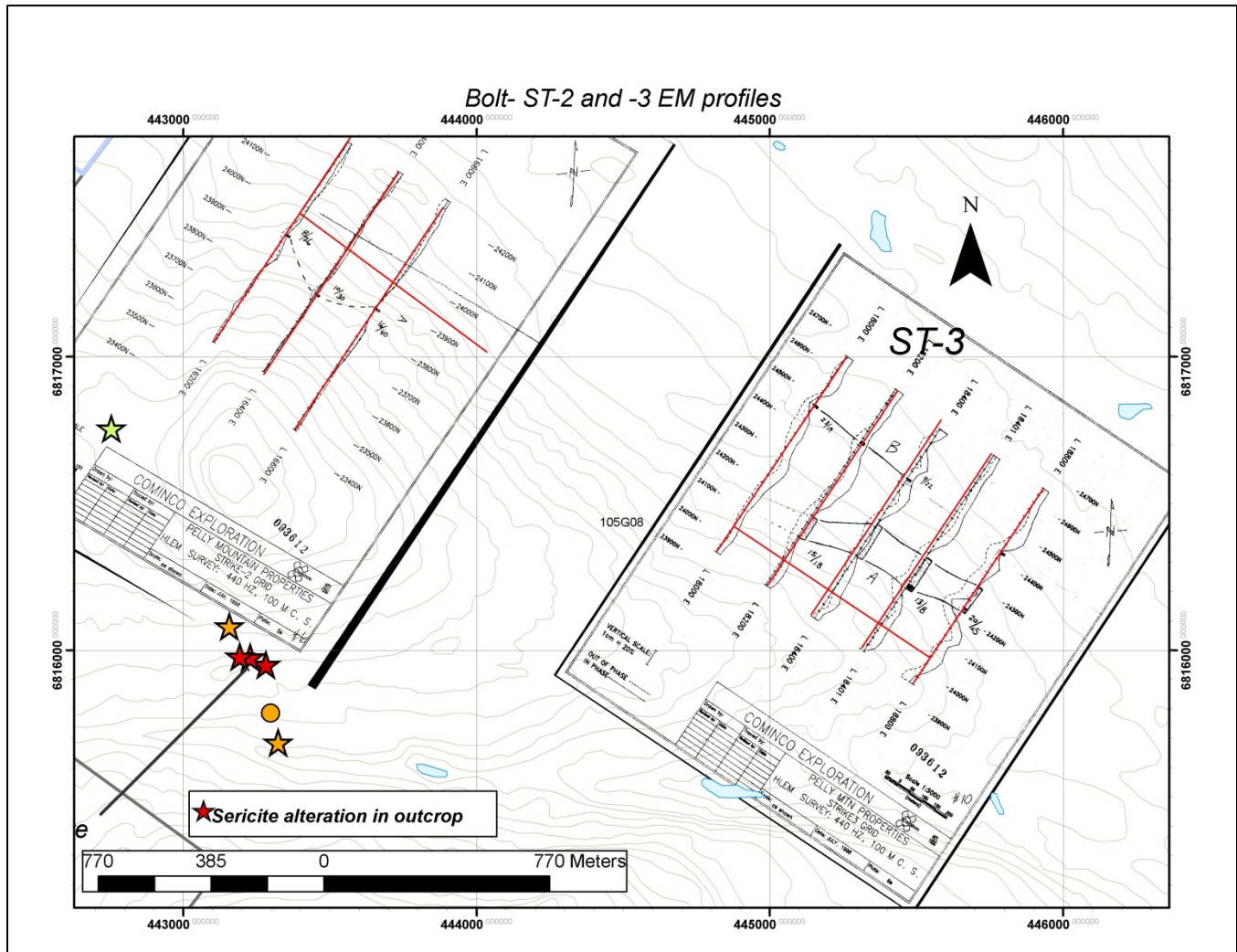


Figure 10 Georeferenced HLEM profiles for St-2 and ST-3 grids, Bolt SW

From Cominco, assessment report no. 093612

2011 SURVEY AND RESULTS

The 2011 field program was designed to advance both the Bolt NE and SW areas. A soil sampling crew was contracted from Aurora Geosciences, a Whitehorse-based consulting firm in Whitehorse. Sampling started in late June with a crew of 8 on the Bolt SW, half the crew then moved to the Bolt NE while the other half moved to another property. The details of the survey are found in Aurora's field report, in Appendix C.

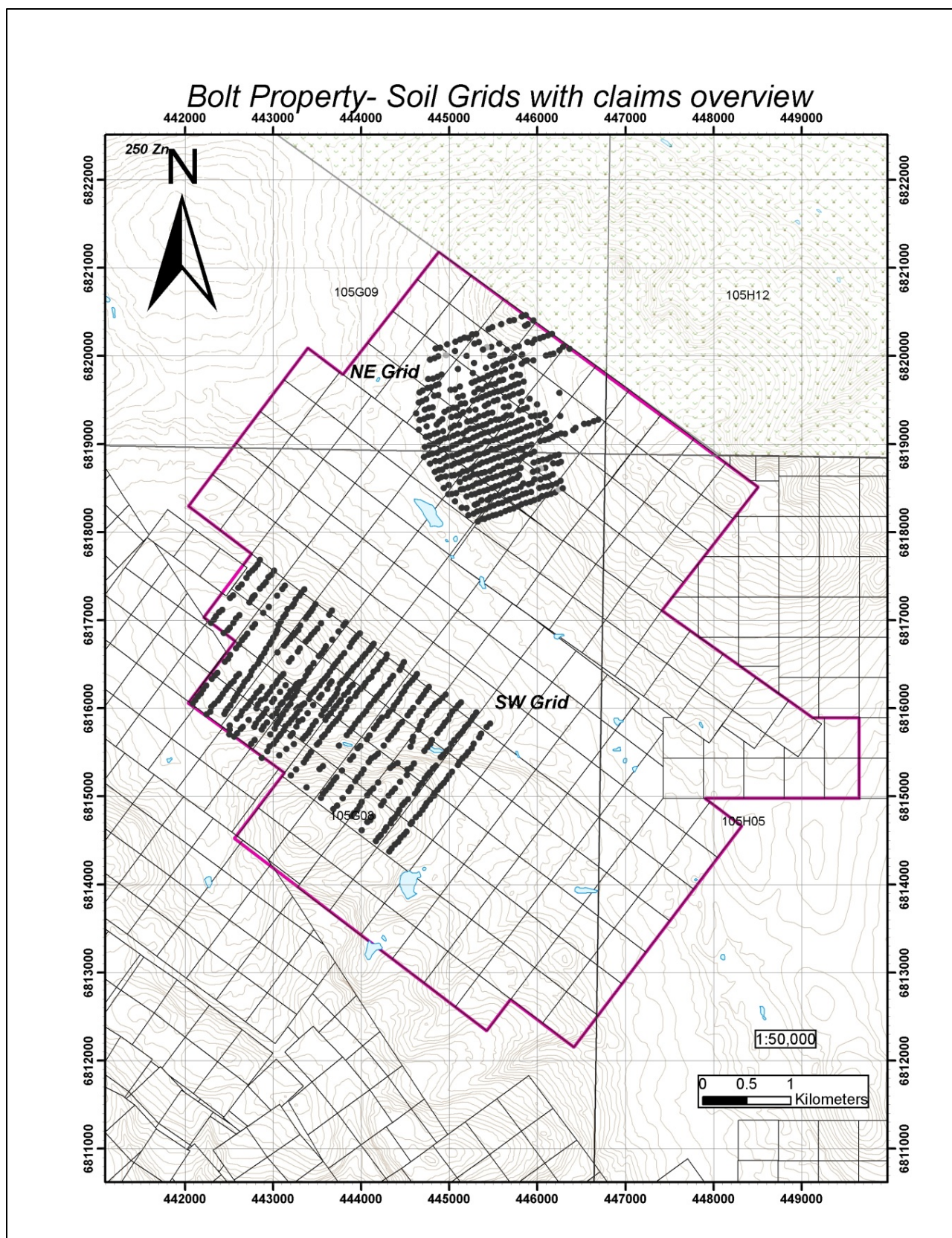


FIGURE 11 2011 SOIL SAMPLE LOCATION WITH RESPECT TO CLAIM MAP

SAMPLING METHODOLOGY

Grid lines were traversed by foot using an integrated hand-held GPS/computer as navigation tool. This instrument, a Juno by Trimble, consists of a hand-held non-differential GPS integrated with a palm computer equipped for data collection and with a camera.

Samplers navigated to waypoints supplied by Redtail Metals. Lines were not flagged; only the sample sites/stations were marked with blue and orange flagging and with a labelled tyvek tag. At each sample site, a hole was dug with a soil auger or a mattock. The target was the bottom of the B horizon, where developed. The soil was collected in a paper Kraft bag; the geographic location, sample characteristics were recorded and a sample photograph was recorded.

Field duplicates were planned to be collected at frequency of every 50 samples. These consisted of a second sample collected from a separate pit located within a few meters from the original sample site.

Samples were shipped out to Whitehorse, in rice bags sealed with security tags. These were stored in Aurora's care until they were shipped to Acme Laboratories in Whitehorse by Predator Mining Group staff.

ASSAY METHODOLOGY

Samples were analysed by ICP-MS (Acme Group 1DX2) whereby a 15g sample of pulp is leached in a hot Aqua Regia solution and analysed for a suite of 36 elements. Any samples that would return gold grades > 1g/t, or over-limit grades for Cu, Pb or Zn were to be re-analysed by a more appropriate assay method.

WORK DONE

In order to advance the property, a soil survey was contracted to Aurora Geosciences, a consulting firm based in Whitehorse. Soil grids were established over each of the Bolt NE and SW targets, the survey took place between June 2 and June 27 2011. A total of 1021 soil samples and 15 rock samples were assayed.

The **Bolt NE** area is underlain by mafic volcanic and volcanoclastic rocks, cherts and ultramafic intrusions of the Permian Campbell Range sequence. The deposit model for this area is Cyprus-type VMS, such as can be found at the Ice (Minfile 105G 118) and Julia ((Minfile 105H 078) occurrences. The **Bolt SW** area is underlain by the lower Mississippian Wolverine Succession, (Murphy, D., pers.com.). The working model for this area is therefore Kuroko-type VMS deposits such as the Wolverine deposit (Minfile Occurrence #105G 072), located 10 km south of the BLT claims.

Bolt NE

A 100m-spaced soil grid was designed to extend the existing soil coverage, as some strongly anomalous samples occurred at the edges of the historical grid. A total of two days were spent by the author examining the geology, drill hole and trench locations of this area.

Soil results show that the high Cu and Ni soil values extend downslope from the historical grid (see Figure 14). It is not clear how much is due to downslope dispersion. Many samples sites were frozen and therefore remained unsampled.

Groundtruthing of the historical data confirmed that the rusty seeps and 'ferricrete' kill zones graded around 0.2% Cu, both in soil and in 'rock'. The historical trenches were dug in pervasively oxidized rock that in place displayed breccia textures. It seems that ferricrete consists of colluvium which was pervasively oxidized and cemented by metal-rich ground water. It is not clear whether any in-situ bedrock was pervasively altered. Some larger float fragments were observed where fracture planes were strongly oxidized but not the rock itself.

A string of bluffy outcrops occurs uphill of the ferricrete occurrences, the volcanic rocks there are unaltered. All this supports Cominco's conclusion that the copper-nickel mineralization was hydromorphic in origin, and that a fault, presumably occurring at the base of these bluffs, could provide a conduit for water transport. Sampling of rusty serpentinite float gave values ranging 0.1-0.2% Cu. This rock unit could be the source of the Cu and Ni, which would be leached by ground water and re-precipitated when reaching surface conditions, creating these rusty seeps. No serpentinite was found in outcrop, map distribution was inferred by the previous operators by interpreting the magnetic geophysical data.

Because this area did not produce a strong UTEM anomaly, Cominco let this ground drop. However, some interesting grades were obtained in drill core, both from Cominco and Strategic Metal's drilling. These intersections were probably not due to surface processes as they have been intersected at 30m depth (1.8 and 3% Cu in ST-98-1, 0.2% and 0.3% Cu in BOLT-10-01). The ferricrete may therefore indicate that there is copper in the system, but may not be the target itself. A re-examination of the available drill core is suggested. Strategic Metals drilled assuming a westerly dip, and only one hole intersected significant mineralization. Perhaps the mineralizing structure dips easterly. The setting of the Ice deposit should be studied, as ferricretes there have been used as a vector to mineralization.

Figure 16 and Figure 17 show photographs of ferricrete occurrences.

One angular float sample outside the claim block (J971908) graded 0.2% Cu. Malachite occurs on fracture surfaces. See photo below. This sample consists of altered vuggy mafic volcanic rock, displaying boxwork texture suggestive of leached pyrite and hydrothermal alteration. See Figure 12 below. This sample points to the potential of mineralization hosted in volcanic rocks, not concentrated as a hydromorphic process.



FIGURE 12 SAMPLE J971908

Bolt Property- Sample location - NE grid

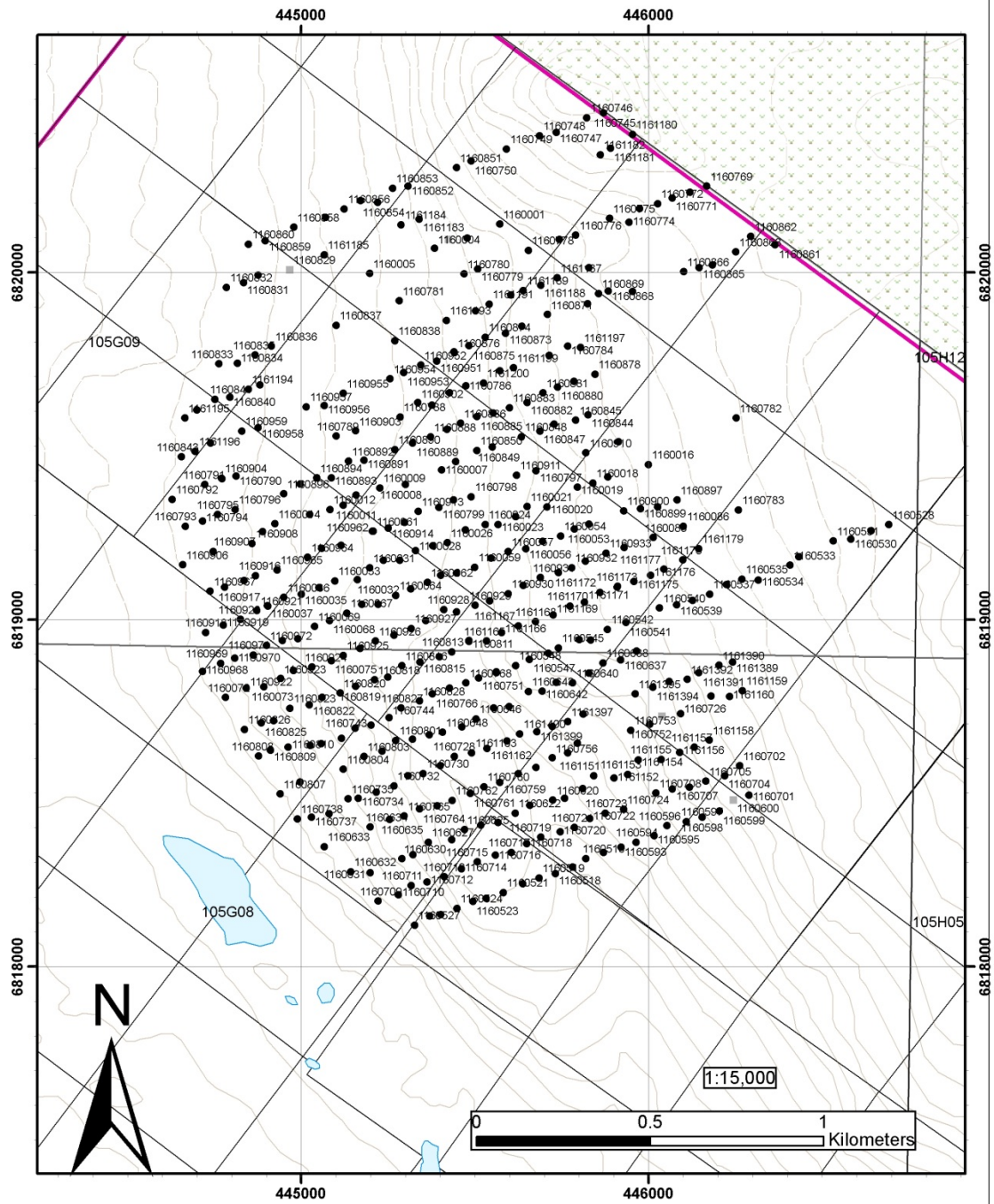


FIGURE 13 BOLT NE SOILS- SAMPLE LOCATION

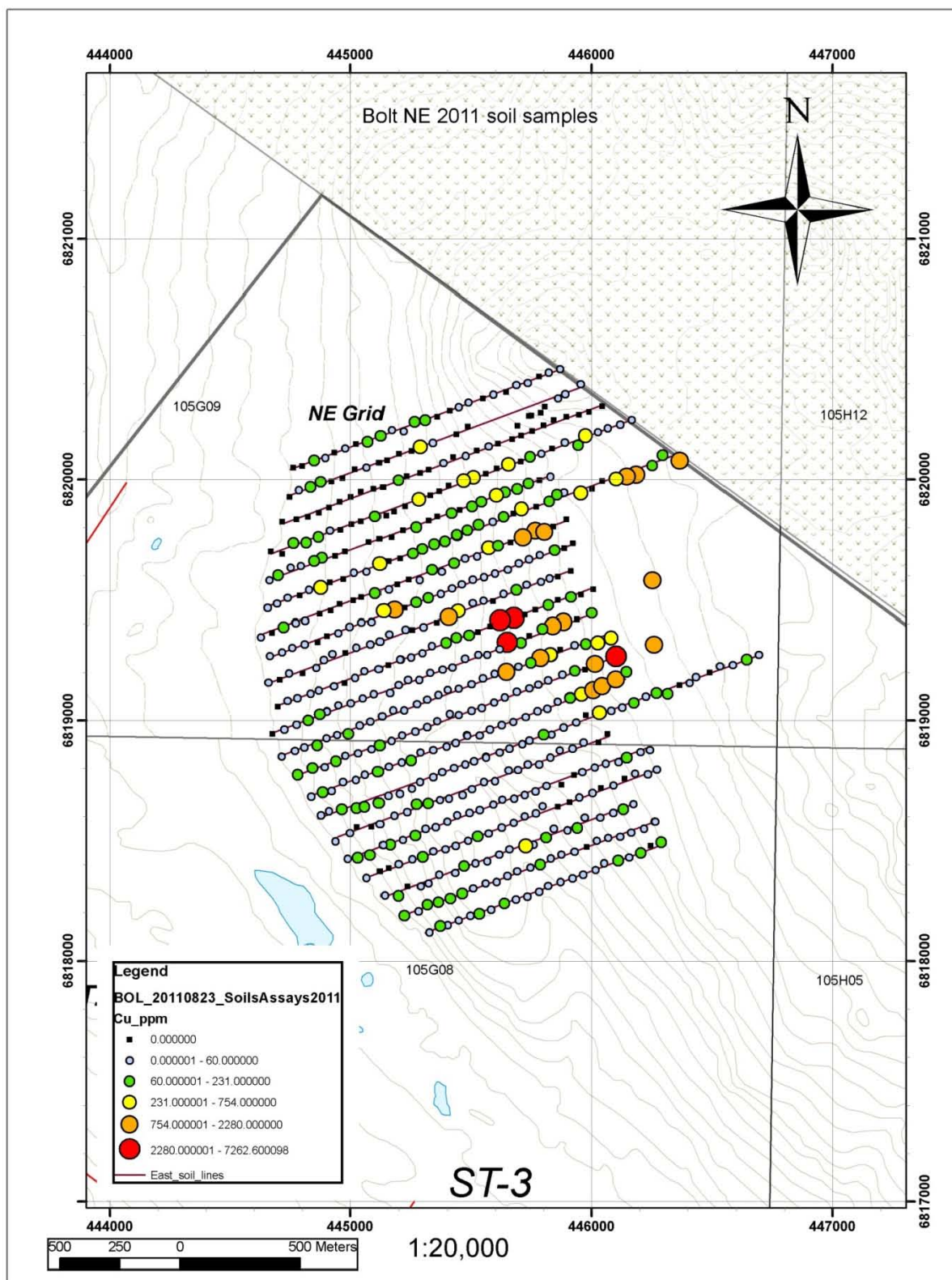


FIGURE 14 BOLT NE 2011 SOILS- CU

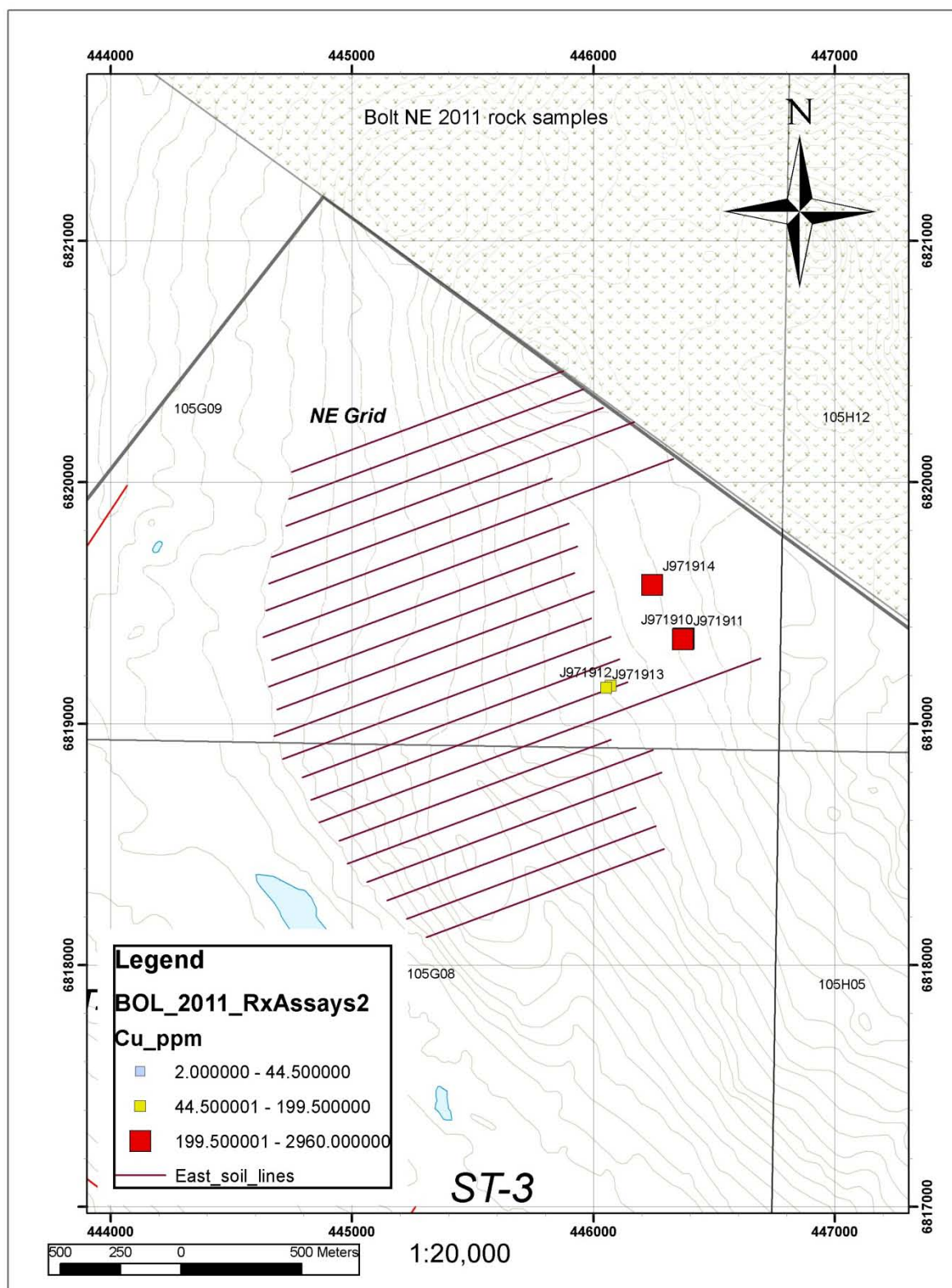


FIGURE 15 BOLT NE 2011 ROCK SAMPLES- CU



Bolt NE; Strategic Metals trenches. Top left picture taken from outcrop of unaltered mafic volcanic rock.

FIGURE 16 FERRICRETE OCCURRENCES



Bolt NE, 'ferricrete' samples.

FIGURE 17 FERRICRETE SAMPLES

Bolt SW

On the Bolt SW, a 200m-spaced soil grid was established to extend the soil geochem coverage south of the existing ST-2 and ST-3 Cominco grids, and cover the areas of anomalous contour soils and silts described in the previous section. Samples were collected every 50m. A geophysics survey was also proposed but aborted due to lack of funds. Figure 19 shows the location of the 2011 soil grid with respect to the Cominco ST grids.

Three days were spent by the author investigating the geology of the area covered by the proposed grid as well the hill south of it. From this work, improvements were made to the existing regional map, demonstrating that the knob at the center of the grid was not Campbell Range succession and that a larger portion of the property was underlain by Wolverine Lake stratigraphy than what was previously thought.

A large area is underlain by highly strained felsic metavolcanic /volcaniclastic rocks that display increasing sericite alteration towards the south, into the creek (see Figure 20). A package of thinly banded siltstone/sandstones occurs at the base of the central knob. Dark clastic rocks outcrop north of it. The strike and dip of the units still remain to be determined.

Some jasper was located in the felsic metavolcanic rock, indicating possible exhalative activity (see Figure 24). A zone of intense sericite alteration was outlined by a few rocky bluffs outcropping in an incised drainage, downslope from Cominco's anomalous soil. One of these outcrops contained some malachite coating (Figure 23). The assayed metal values were low (J971902-906). The intensity of sericite alteration increases towards the bottom of the slope, in places so intense that the rock appears schistose. Outcrop appears rare outside of this drainage. It is presumed that the alteration zone continues beneath the quaternary cover. Photos of the sericite alteration in hand specimen and at outcrop scale are found in Figure 25 and Figure 26.

Following the location of this sericite alteration zone, a few short infill 100m-spaced lines were ran on the last days of the survey to span the area of the sericite-altered outcrops. Some of these samples sites were not successfully sampled and will need to be re-sampled, additional 100m spaced lines will be needed to complete the coverage of this area.

Generalized geological contacts are shown in Figure 20, along with the significant copper results and location of the sericite alteration zone. The significant results of the 2011 soil survey are shown in Figure 19 for copper, Figure 21 for lead and Figure 22 for a compilation significant soil results at a more detailed scale.

INTERPRETATION OF SOIL DATA

Copper values are anomalous and range up to 754 ppm Cu on the Bolt SW and define an anomalous area 800m x 200m, which brackets the outcrops displaying the strong sericite alteration. The Pb results are very significant due to their high values and extensive distribution. As lead doesn't travel easily, to have such an extensive and persistent distribution points to the strength of this anomaly. Lead values between 200 and 1540 ppm cover an area approximately 150m x 900m, while a broader 10-200 ppm Pb contour can be drawn over 1 km and up to almost 2 km if including spotty anomalies. The copper and lead anomalies include spotty Zn anomalies ranging from 300-803 ppm Zn.

This is a strong and persistent geochemical signature. Its coincidence with favourable volcanic and volcano-sedimentary stratigraphy and with the outcropping of a sericite alteration zone indicates a favourable environment for VMS mineralization. Further work is therefore warranted. A work program is proposed below.

Bolt Property- Sample location - SW grid

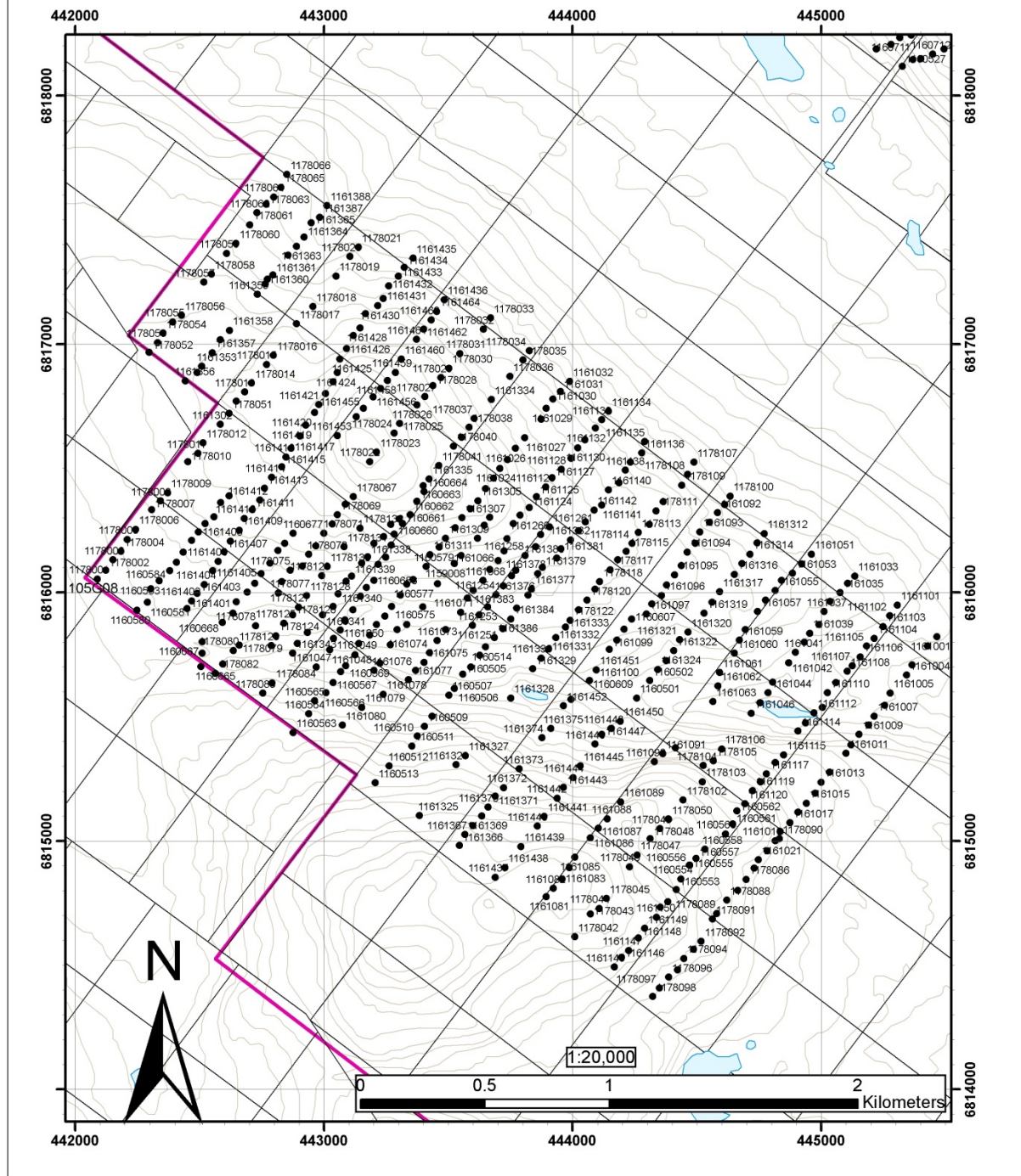


FIGURE 18 BOLT SW- 2011 SOIL SAMPLE LOCATIONS

FIGURE 19 BOLT SW- 2011 SOIL RESULTS (Cu)

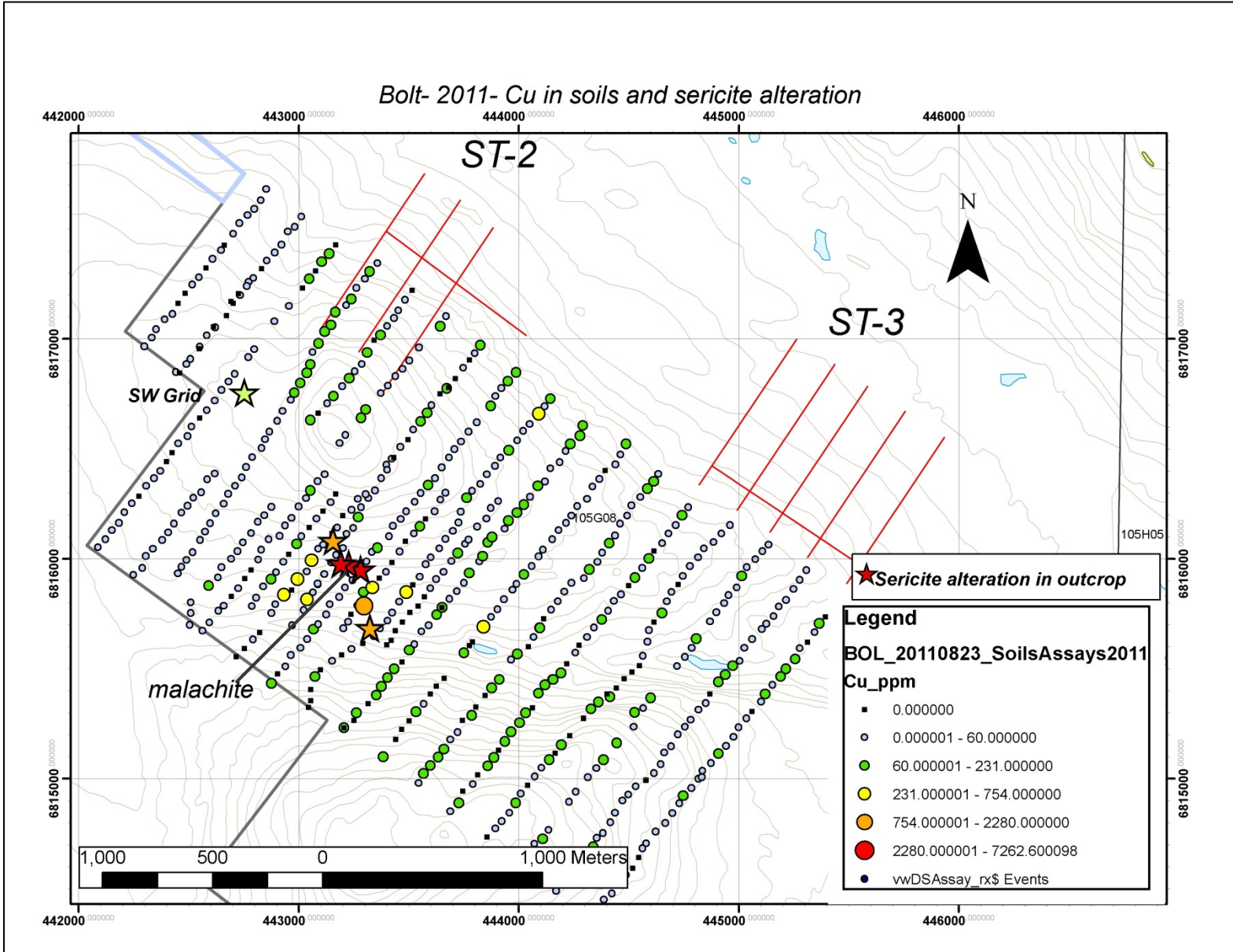


Figure 20 Bolt SW geology, Cu geochem and sericite zone. Stars indicate outcrops with strong sericite alteration

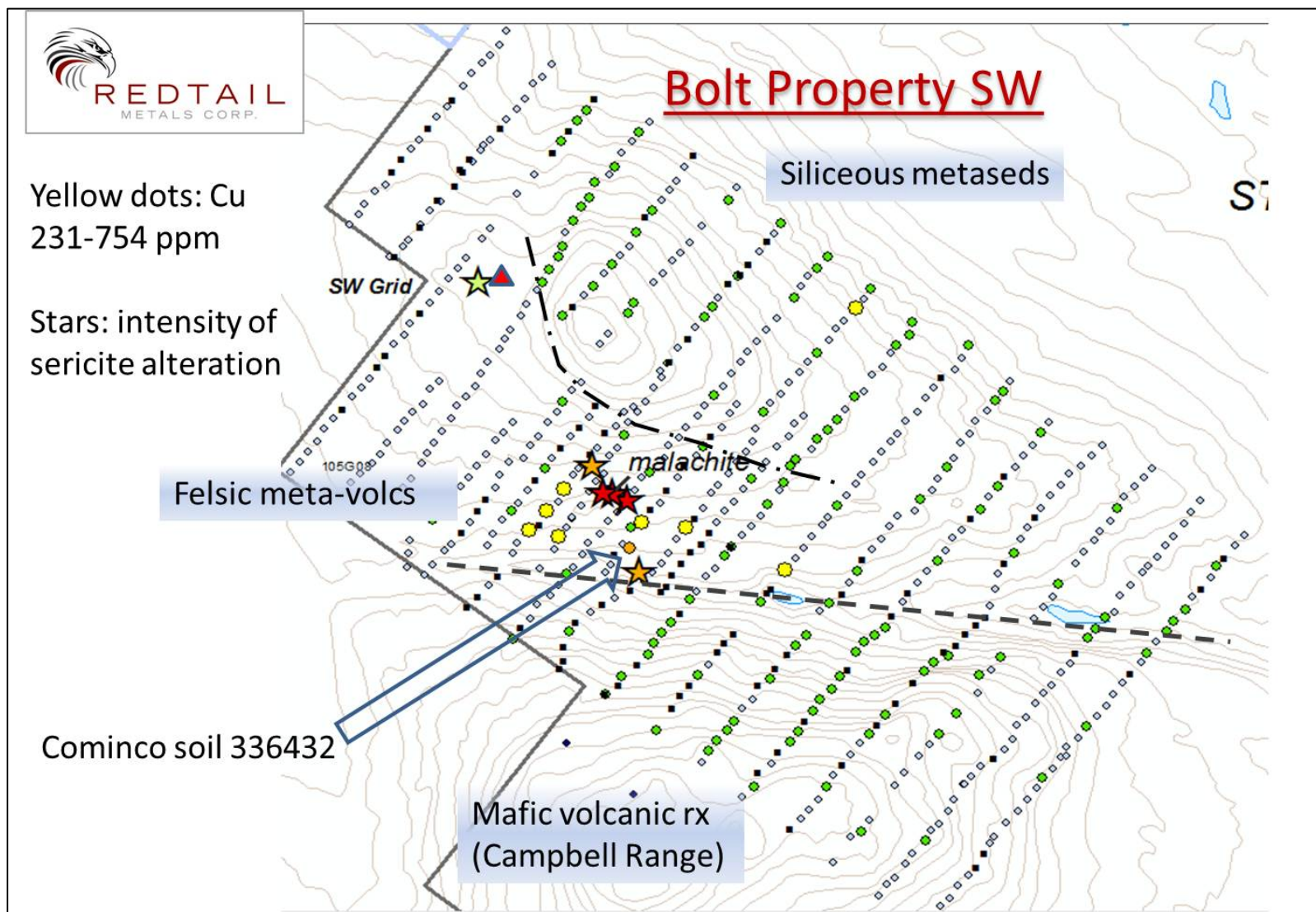
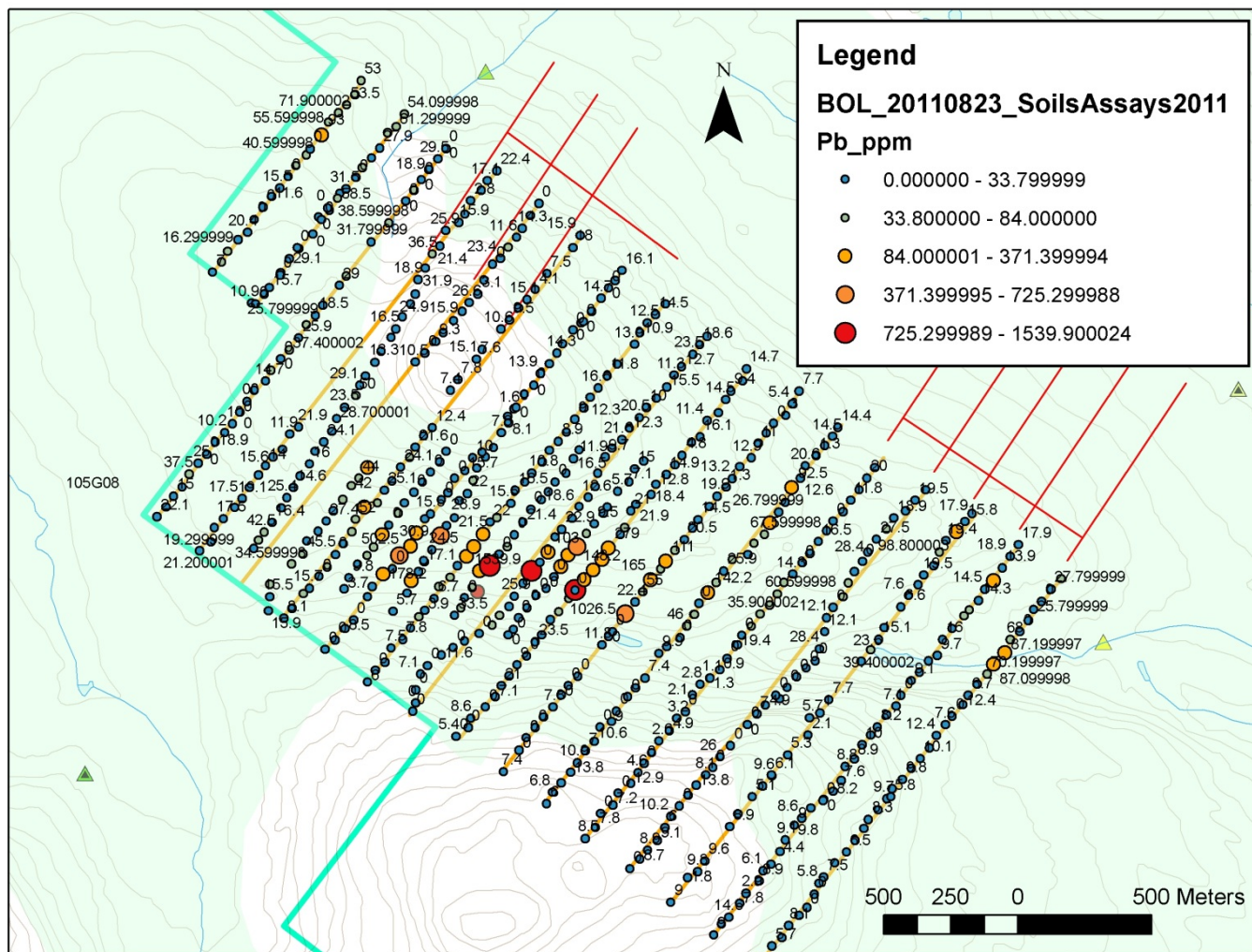
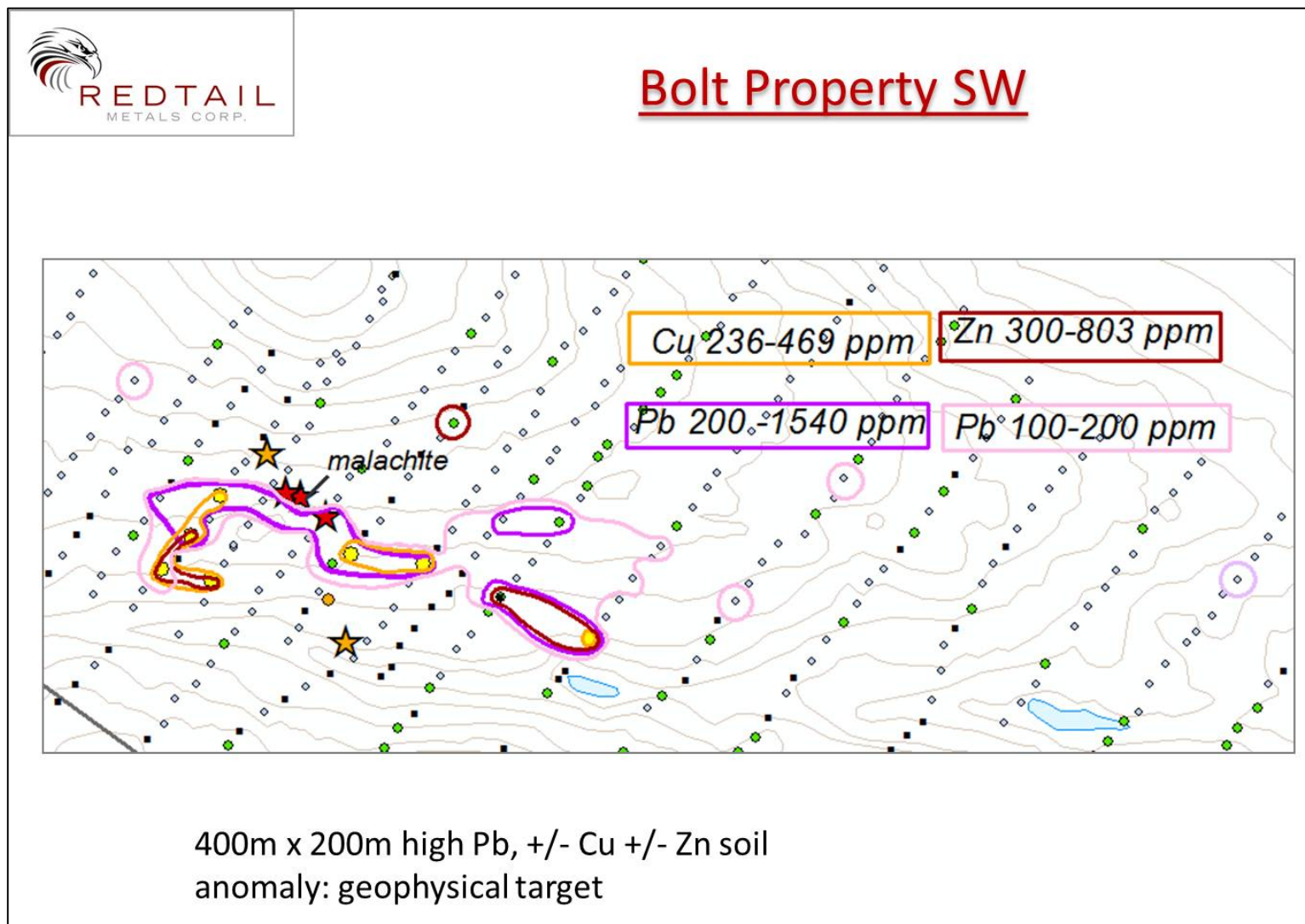


FIGURE 21 BOLT SW- 2011 SOIL RESULTS- Pb



Bolt SW 2011 soils- Pb

FIGURE 22 BOLT SW GEOCHEM COMPILATION OF SERICITE ZONE ANOMALY



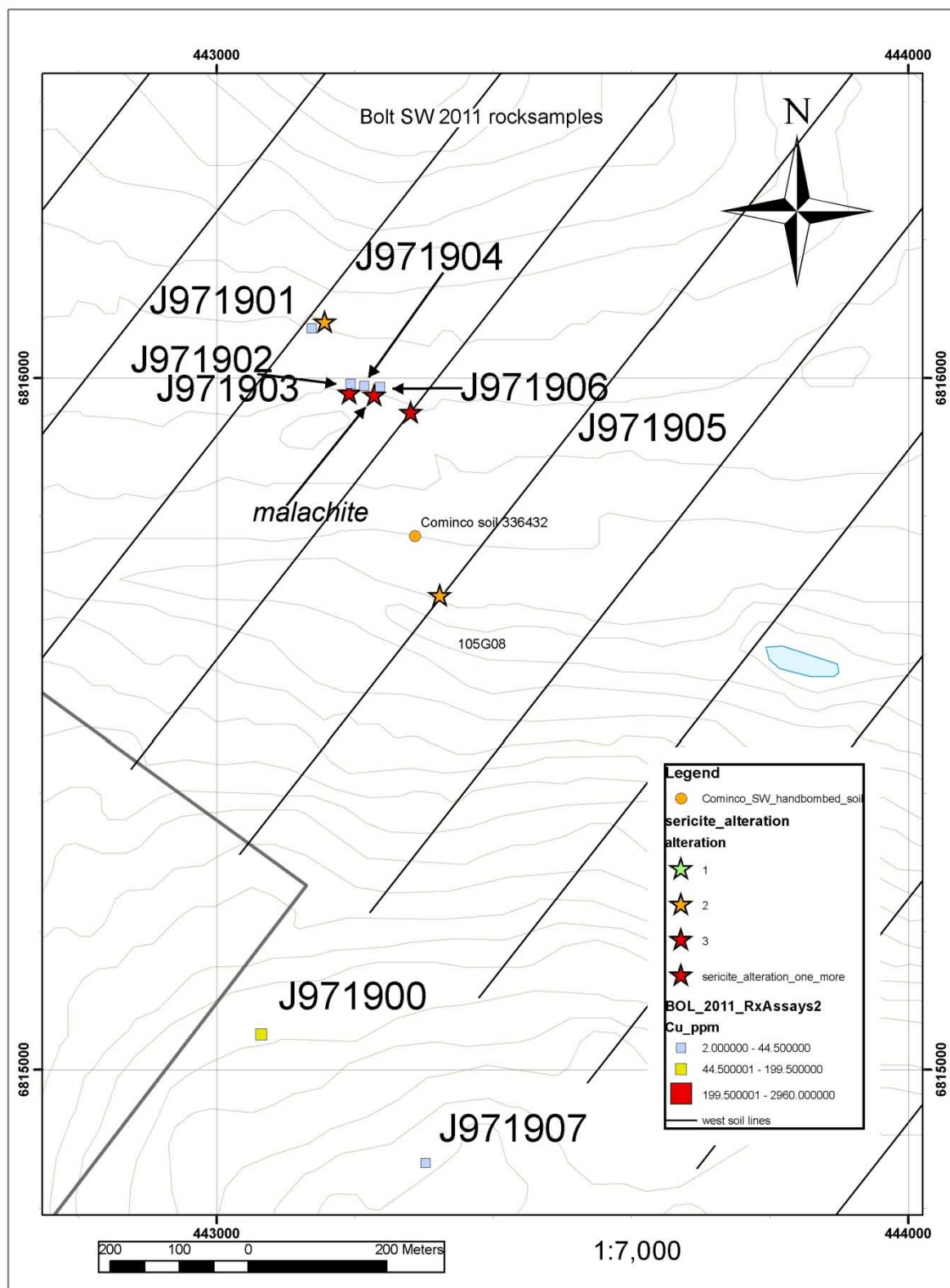


FIGURE 23 BOLT SW- 2011 ROCK SAMPLES- CU

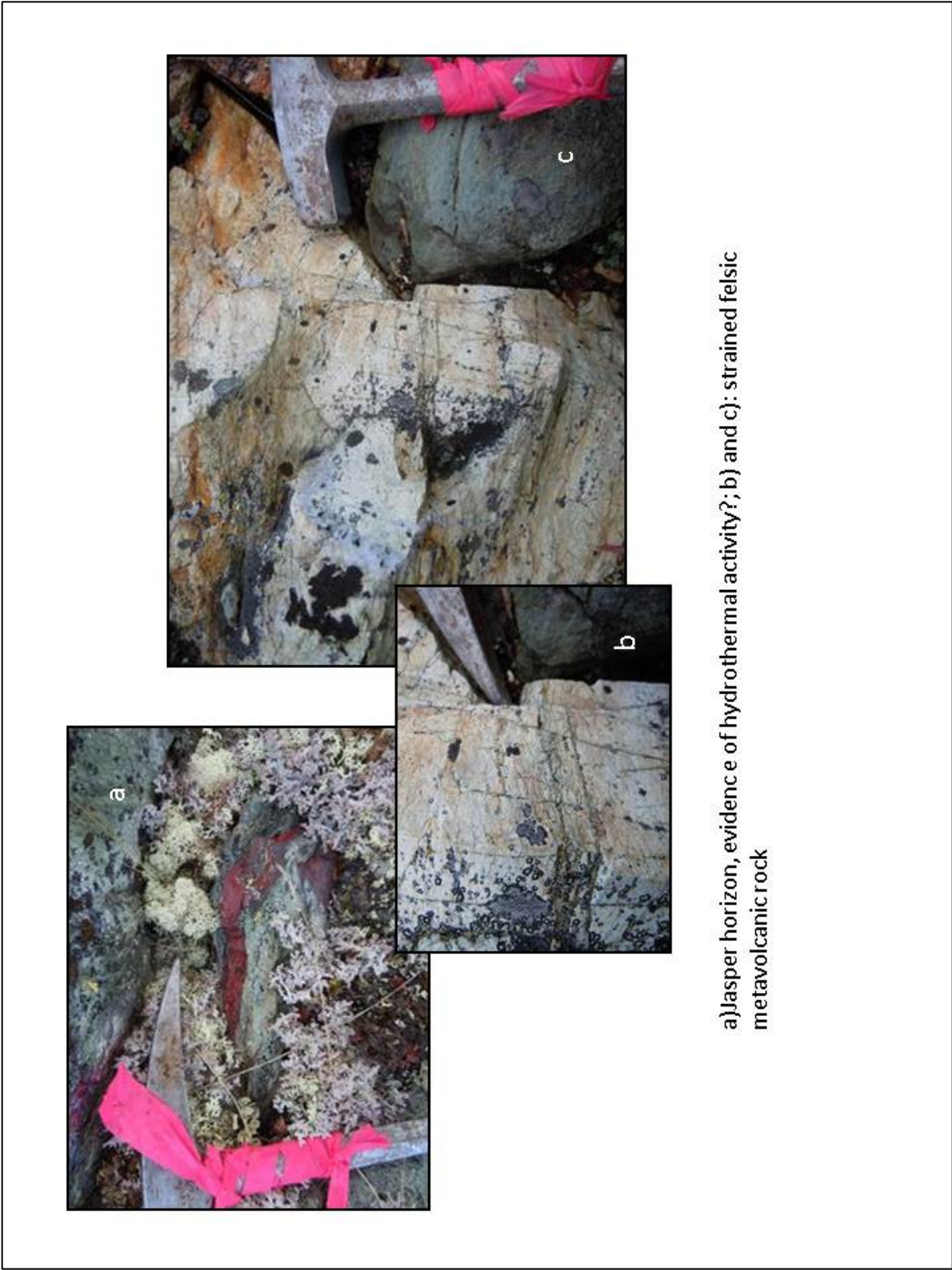
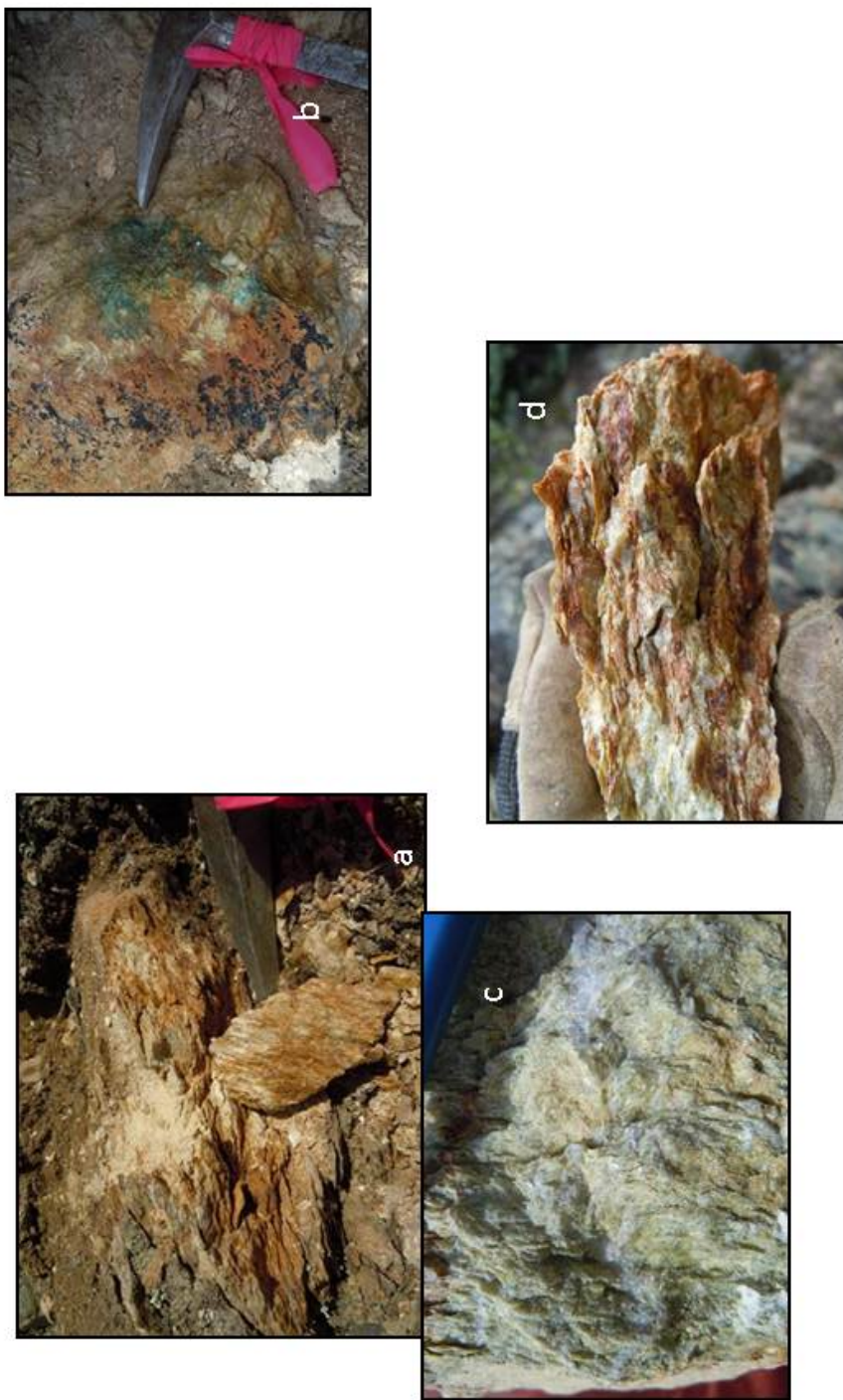
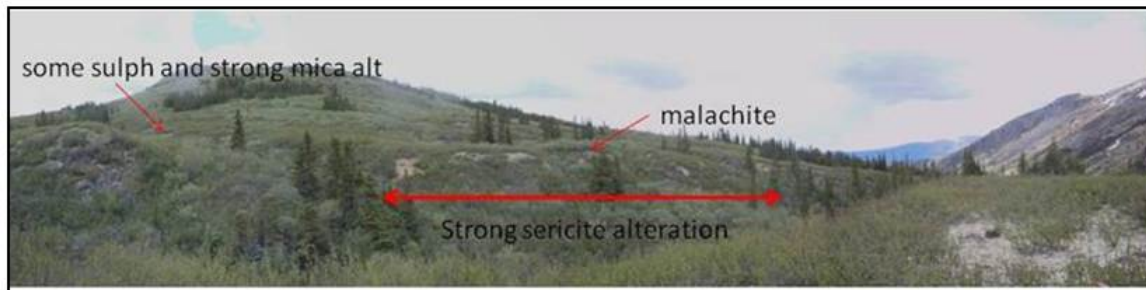


FIGURE 24 BOLT SW- PHOTOS OF FELSIC METAVOLCANIC ROCKS



a) to d): Strong sericite alteration in felsic metavolcanic rock; b): malachite and Mn coating, d): destruction of sulphides

FIGURE 25 BOLT SW- PHOTOS OF STRONG SERICITE ALTERATION AND MALACHITE



Sericite zone, outcrop scale



FIGURE 26 BOLT SW- OUTCROP-SCALE VIEWS OF SERICITE ALTERATION ZONE

CONCLUSIONS AND RECOMMENDATIONS

BOLT NE

Cominco concluded that the ferricrete and related soil anomalies on the Bolt NE were probably hydromorphic in origin, the result of groundwater simply concentrating high background Cu-Ni values from ultramafic lithologies. The different conductors were interpreted as representing faults and gouge zones, the mineralization encountered in drill hole was interesting but the lack of a strong EM/mag signature was interpreted to indicate limited potential.

A re-evaluation of the available drill core is suggested. The mineralization encountered in drill hole may not be stratiform, or the stratigraphy perhaps dips towards the east instead of towards the west, as was assumed. Some evidence of non-hydromorphic copper mineralization in volcanic rocks has been found north of the claims.

More prospecting is also recommended.

BOLT SW

RGS data indicate regionally significant Cu-Ag-Pb-Zn signature for the Bolt SW, confirmed by soil and silt sampling from Cominco's initial surveys. Previous work was focused on the strong Cu-Ni anomalies in the northeastern portion of the property, leaving the known conductors and reconnaissance silts and soils of the Bolt SW without follow-up.

The combination of the following factors indicate that this under-explored area has good potential for VMS mineralization: favourable stratigraphy for VMS deposit (Wolverine Lake succession); favourable lithologies; evidence of alteration (intense sericitization); exhalative activity (jasper) and hints of mineralization (pyrite and malachite). All these factors overlap with a significant and persistent multi-element geochemical anomaly.

These favourable geological and geochemical indicators support the proposal of a program of mapping, infill soil sampling and geophysics, with the goal of delineating drill targets. An interpretation of the surficial geology would be useful in evaluating possible down-ice dispersion of metals in soils.

PROPOSED WORKPLAN AND BUDGET

Work on the Bolt NE should start with an examination and re-interpretation of the available drill core. The core from Strategic Metals' 2010 drilling program is stored in the Archer Cathro yard in Whitehorse.

In light of the favourable geology and geochemistry discovered on the Bolt SW, the following workplan, focusing on the Bolt SW, is proposed. The goal of this workplan is to generate drill targets.

Phase 1

Mapping and Prospecting: defining distribution of volcanic stratigraphy, strike and dip, distribution of alteration, prospecting.

Infill soil sampling: As the original grid was a widely spaced one at 200m-spaced lines, an infill grid at 100m spaced lines is planned, centered on the favourable stratigraphy. Within or near the outline of the current geochemical anomaly, the 2011 'no sample locations' sites should be re-visited and re-sampled.

Ground mag survey: As the Wolverine Lake deposit is underlain by a magnetic baritic iron formation, a ground mag survey at 100m-spaced lines is planned over the grid, with the goal of defining such a marker on this property.

Phase 1 is estimated at \$62,000 dollars.

Phase 2

Geophysics: Pending on results of phase 1, a ground EM survey will be conducted over the most favourable and significant geology and geochemical anomaly. Protem is a locally available EM method similar to the UTEM method used by Cominco. It is a costly method but can read deeper and with more confidence than conventional HLEM surveys, and do not require expensive line cutting like HLEM surveys do. The combination of geochemistry, mag and EM data will enable the delineation of drill targets.

Phase 2 is estimated at \$102,000.

Signed,

Danièle Héon

Senior Geologist- RedtailMetals

Whitehorse, July 19 , 2012

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STRATEGIC METALS, Dec/ 2009, Assessment report by D. Gregory, closed

STRATEGIC METALS, Mar/ 2011, Assessment report by O. Fu, closed

STATEMENT OF QUALIFICATIONS

I, Danièle Héon, of:

12 Marigold Place
Whitehorse, YT
Y1A 6A2

hereby certify that:

1. I am a geologist with Redtail Metals Corp, with head office address at 11th floor, 888 Dunsmuir, Vancouver, B.C.
2. I am a graduate of McGill University, Montréal, Québec, with a degree in geology (B.Sc., 1983) and have been involved in geology and mineral exploration in Canada since 1979 and in the Yukon since 1990.
3. I am registered as a professional geoscientist with the Ordre des Géologues du Québec (no. 1510).
4. I am a member of the Yukon Chamber of Mines and of the Society of Economic Geology.
5. I am the author of this report on the BOLT and BLT claims and that I have compiled the data and supervised the work described. I have spent a total of five days on the property.
6. This report is intended to satisfy assessment requirements only.

Danièle Héon

July 19 2012

APPENDIX A- CLAIM DATA

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District	Grant Number	Reg Type	Claim Name	Claim Nbr	Claim Owner	Status	NTS Map Number	Years to Renew	Renewed to Date
Watson Lake	YD09305	Quartz	BOLT	55	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09306	Quartz	BOLT	56	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09307	Quartz	BOLT	57	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09308	Quartz	BOLT	58	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09309	Quartz	BOLT	59	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09310	Quartz	BOLT	60	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09311	Quartz	BOLT	61	REDTAIL METALS CORP. - 100%	Active	105H05	4	23/03/2019
Watson Lake	YD09312	Quartz	BOLT	62	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09313	Quartz	BOLT	63	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09314	Quartz	BOLT	64	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09315	Quartz	BOLT	65	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09316	Quartz	BOLT	66	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09317	Quartz	BOLT	67	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09318	Quartz	BOLT	68	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
Watson Lake	YD09319	Quartz	BOLT	69	REDTAIL METALS CORP. - 100%	Active	105G08	4	23/03/2019
									Total

APPENDIX B- MINFILE DESCRIPTIONS

***MINFILE#: *105G 041**

*UPDATED: *2003-02-20

***PRIMARY NAME: *FINLAYSON**

*DEPOSIT TYPE: *Unknown

*STATUS: *ANOMALY

*TECTONIC ELEMENT: *YUKON-TANANA TERRANE

*NTS MAP SHEET: *105G\8

*LATITUDE: *61° 29' 42"

*LONGITUDE: *130° 0' 39"

*OTHER NAME(S): *

*MAJOR COMMODITIES: *ZINC

*MINOR COMMODITIES: *COPPER

*TRACE COMMODITIES: *NICKEL

CLAIMS(PREVIOUS & CURRENT)

MAY, STRIKE

WORK HISTORY

First staked as May cl (Y7970) in Jun/66 by B. Haskell.

Cominco Ltd restaked the occurrence in May/95 as part of large block of northwest trending Strike cl 1-320 (YB59582). Later in the summer the company carried out silt sampling and an airborne EM/magnetic geophysical survey. In 1998, Cominco

carried out follow up ground geophysics, soil and silt sampling, prospecting and geological mapping and diamond drilling of two holes (245.4 m) in the northeast corner of the property.

GEOLOGY

The area is underlain by two suites of rocks; the Early Mississippian Wolverine Lake succession and the Early Permian Campbell Range succession (Murphy et al., 2001). Earlier authors called these units Domain B and C. The oldest rocks in the area are the Wolverine Lake succession first mapped and recognized at the Wolverine deposit (Minfile Occurrence #105G 072) located 10 km to the southwest. The youngest stratigraphic unit present in the occurrence area is unit MWf, described as a tan to grey muscovite-quartz phyllite of felsic volcanic and subvolcanic protolith. It is overlain by unit MWt, a thinly interbedded (cm scale), massive to granular siliceous rock and light colored phyllite (metatuff and exhalite). The siliceous rocks are pale-colored, locally massive and bedded on metre-scale at base where associated with baritic iron formation. It is darker near the top of the unit where intercalated phyllite is dark grey.

The Campbell Range succession overlies the Wolverine Lake succession. Murphy and Piercey (2000) believe the contact between the two succession is depositional. Unit PPCb1, forms the basal unit of the succession. It is comprised of coarse basaltic breccia, pillowed and massive basaltic lavas, gabbro, diabase, and maroon and green chert. It is foliated and tightly folded in the occurrence area. Unit PPCb1 is overlain by unit PPCs, described as a heterogenous unit composed of carbonaceous argillite, quartz sandstone, chert, chert-pebble conglomerate and discontinuous bodies of limestone and diamictite. The succession is capped by Unit PPCb2, described as similar to unit PPCb1 and consisting of coarse basaltic breccia, pillowed and massive basaltic lavas, gabbro, diabase and maroon and green chert. In the occurrence area it is also foliated and tightly folded. Pennsylvanian to Permian ultramafic rocks intrude all levels of the succession.

The area has been glaciated but bedrock on upper slopes is relatively well exposed with little or no till cover. The rocks strike northwesterly and dip apparently in a homoclinal fashion to the northeast. The rocks are regionally metamorphosed to sub-greenschist facies, characterized by epidote alteration and weak foliation sub-parallel to bedding. To the northwest gentle folds indicate the sequence occupies the eastern limb of a major fold. Lineations suggest a shallow plunge to the northwest.

At the Wolverine deposit volcanogenic massive sulphide (VMS) mineralization occurs within unit MWt, near the contact with the underlying carbonaceous phyllite. Few massive sulphide deposits have been discovered in the Campbell Range succession but Piercey (et al., 1999) suggests that units PPCb1 and PPCb2 could host VMS style deposits.

Mapping by Cominco (Bannister, 1998) appears to verify Murphy's and other mapping. They reported that the southern third and the northern portion of the claim area, consists of chloritic pillowed basalt flows, epidotized and silicified lapilli tuffs and coarser clastic volcanic rocks (Campbell Range succession). A sequence of layered metasedimentary and metavolcanic rocks occupy the central portions of the property. The metasedimentary rocks are described as fine grained grey-green, variably carbonaceous, siltstone to mudstone. Metavolcanic rocks are reported to be represented by both a mafic and a felsic component. Felsic metavolcanic rocks are described as finely foliated quartz-sericite +/-feldspar schists, while the mafic component is represented by chloritic andesitic tuffs and minor mafic sills (Wolverine Lake succession).

Cominco's 1995 silt sampling program identified several drainages anomalous in Cu and Ba. The airborne survey produced two strong, coincident EM-magnetic anomalies. The follow up ground geophysics program outlined numerous (HLEM) conductors flanking strong magnetic features. Silt sampling of a stream north of the ST3 grid returned five adjacent samples highly anomalous in Cu, Ni and Cr. Soil samples collected in 1996 and 97 returned several samples moderate to strongly anomalous in Cu and Ni in an area underlain by mafic flows. Geological mapping identified several small gossanous zones

within the mafic rocks. These zones consist of primary breccias of small mafic fragments, floating in an Fe-rich carbonate matrix, with up to 2-5 % pyrite. A sample from one of these zones, containing significant pyrite, returned 80 ppm Au and 1 148 ppm Cu.

Cominco focused its 1998 work program on a large area of ferricrete that is coincident with an airborne magnetic high and a weak, single line EM conductor. Highly anomalous Cu values (to 11 920 ppm) were returned from soil samples collected from within and downslope of the ferricretes. Further prospecting in the area identified malachite/calcite veined hematitic cherts, malachite veinlets in leucogranite and malachite stained mafic volcanics, but no significant amount of sulfides were found. While results of the drilling were considered generally poor by Cominco, DDH ST98-01 did intercept 1.9 m of hematitic chert containing several veins (up to 3.5 cm thick) of massive fine grained pyrite with 3-10% disseminated fine grained chalcopyrite that returned 1.9 % Cu and 5.7 g/t Ag. The lack of an EM/Mag target with a strong enough signature to represent significant mineralization, lead Cominco to suggest that no significant sulfide deposit was present in the area.

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***MINFILE#: *105G 072**

*UPDATED: *2009-08-21

***PRIMARY NAME: *FETISH**

*DEPOSIT TYPE: *Kuroko Massive Sulphide Cu-Pb-Zn

*STATUS: *DEPOSIT

*TECTONIC ELEMENT: *YUKON-TANANA TERRANE

*NTS MAP SHEET: *105G\8

*LATITUDE: *61° 25' 36"

*LONGITUDE: *130° 8' 2"

*OTHER NAME(S): *WOLVERINE

*MAJOR COMMODITIES: *COPPER, LEAD, SILVER, ZINC

*MINOR COMMODITIES: *GOLD

*TRACE COMMODITIES: *

CLAIMS(PREVIOUS & CURRENT)

FETISH, FETISH, FOOT, KINK

WORK HISTORY

Staked as Fetish cl 1-20 (Y73634) in Jul/73 by Finlayson Joint Venture (Chevron Canada Ltd; Union Oil Company of Canada Ltd; and Marietta Resources International Ltd), which conducted grid soil sampling, mapping and trenching later in the year. The Company drilled 2 holes (24.9 m), performed more soil sampling and added Fetish cl 21-34 (Y83176) in Aug/74.

Restaked as Kink cl 1-8 (YA69007) in Sep/82 by Archer, Cathro & Associates (1981) Ltd and optioned briefly to Esso Minerals Canada which conducted ground magnetic and Max-Min EM surveys later in the year.

The Foot 1-20 claims (YB45954) were staked around the sole remaining Kink claim (cl 3, YA69009) in Jul/93 by Atna Resources Ltd. Atna explored with prospecting, geological mapping, and soil and silt geochemistry in Sep/93. Atna added Foot cl 21-94 (YB51532) to the northwest in Aug/94.

In Jan/95 Atna optioned the Foot property together with its Pak and Toe claim blocks to Westmin Resources Ltd and together formed the Wolverine Joint Venture (JV). In May/95 Archer Cathro transferred Kink cl 3, which covers much of the Wolverine deposit, to Atna which in turn transferred the claim to Westmin Resources. In the same month Atna transferred Foot cl 1-20 (YB45954) to Westmin. In Jun/95 Westmin staked Toe cl 17-36 (YB59962) and Foot cl 180-214 (YB59982) to the northwest. In Aug/95 Westmin Resources staked fractional Foot cl 215-231 (YB60944) along the boundary between the Foot claims and adjacent claims held by a competitor. In Sept/95 Westmin staked Foot 233-586 (YB61298) to the northwest.

In 1995 the Wolverine JV carried out geological mapping, geochemical sampling, conducted various geophysical surveys and drilled 24 diamond drill holes (6 442 m). The first drill hole in the program intersected massive sulphides and led the joint venture group to move two additional drill rigs onto the property. Fifteen consecutive holes intersected massive sulphides in the newly defined Wolverine zone. The other holes in the program tested various targets located along strike including two holes which lead to the discovery of the Fisher zone, 8 kilometres to the northwest. In November and Dec/95 Westmin flew a 3660 km Dighem V multi-parameter airborne survey over various claim blocks in the area including the Foot claims. By the end of 1995, Westmin had fully vested its 60% interest in the joint venture (Atna held the remaining 40%).

The 1996 exploration program focused on continued definition drilling of the Wolverine deposit and a regional stratigraphic drill program. Total drilling consisted of 18 810 m in 64 holes. Regional geological mapping, geochemical surveys and construction of a 1 000 m airstrip were also completed. In 1997 the joint venture group completed 53 diamond drill holes (15 330 m) in and around the Wolverine deposit. Twenty-two of the holes were collared on the Wolverine-Lynx zone deposit, 20 holes on targets located along 14 km of favorable stratigraphy, and 10 holes on the adjoining Puck claims located southeast of the deposit and optioned from Expatriate Resources Ltd.

In Mar/98 Westmin Resources was acquired by Boliden Ltd. In Apr/99 Expatriate Resources Ltd purchased all of Westmin's interest in the Wolverine Joint Venture, from Boliden, resulting in Expatriate becoming 60% owner (and operator) of the Wolverine deposit (Atna owns the remaining 40%). No physical work was carried out on the property in 1998 or 1999 but the joint venture did conduct metallurgical studies for the treatment of selenium mineralization present in the Wolverine deposit.

In Mar/2000 Expatriate announced a purchase agreement to acquire 100% of the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) and surrounding mineral claims from Cominco Ltd. Later in the year Expatriate drilled seven drill holes (958 m) on the Lynx zone and 1 hole (344.12 m) on the Sable zone. In Nov/2000 Hatch and Associates delivered a prefeasibility study on the Finlayson Project that included the development of the Kudz Ze Kayah deposit with the Wolverine deposit.

In Sept/2001 Expatriate announced that it was terminating its agreement to acquire the Kudz Ze Kayah property, mainly due to its inability to raise the required funds to cover the purchase price.

In Oct/2004, Expatriate announced plans to move the development of the Wolverine deposit to bankable feasibility and a production decision. In Dec/2004 Expatriate reorganized and transferred most of its exploration projects outside the Finlayson District to its subsidiary Pacifica Resources Ltd and then changed its name to Yukon Zinc Corporation.

During 2005, Yukon Zinc Corporation carried out definition drilling on the Lynx Zone, drove a decline and began test mining the deposit.

GEOLOGY

This occurrence is commonly referred to as the Wolverine deposit. It is regionally underlain by a Mississippian to Permian age, mixed volcano-sedimentary package belonging to the Yukon-Tanana Terrane (YTT).

The YTT is a volcanic-plutonic, pericratonic arc assemblage that was strongly deformed and metamorphosed by late Triassic time. Volcanic hosted massive sulphide deposits exist at different stratigraphic positions within the YTT including the Fyre Lake deposit (Minfile Occurrence #105G 034) in Devonian to Early Mississippian Fire Lake mafic meta-volcanic unit (DMf), the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Mississippian Kudz Ze Kayah felsic meta-volcanic unit (Mk), the Wolverine deposit (this occurrence) within the Carboniferous Wolverine Lake succession, and the Ice deposit (Minfile Occurrence #105G 118) within Pennsylvanian to Permian Campbell Range basalts.

Recent geological mapping by Murphy et al., (2001), shows that the Wolverine deposit is hosted within a Carboniferous aged package of felsic metavolcanic and metasedimentary rocks, of lower greenschist metamorphic rank, referred to as the Wolverine Succession. Unit MWcl, coarse feldspathic meta-sandstone and grit defines the base of the succession. It is overlain by unit MWcp, carbonaceous phyllite and quartz sandstone. Unit MWcp is overlain by unit MWf. Unit MWf is comprised of muscovite-quartz phyllite and quartz-feldspar augen phyllite (meta-porphyry) of felsic volcanic and subvolcanic intrusive protolith. In most places the succession is capped by unit MWt, massive to granular siliceous rock and light colored phyllite (metatuff and exhalite). This unit is locally massive and bedded on a metre-scale at the base where it is associated with baritic iron formation. One band of platy brown limestone, was observed in the upper part of the unit. In a few locations, the succession is capped by unit MWb, a chloritic phyllite which occurs discontinuously beneath unit Plc, a overlap succession of Pennsylvanian age carbonaceous phyllite, grey chert, diamictite and quartzofeldspathic sandstone, grit and local conglomerate.

The Wolverine massive sulphide deposit and nearby mineralized zones (Fisher, Lynx, Sable) occur near the contact between unit MWcp, carbonaceous phyllite and quartz sandstone and unit MWt, massive to granular siliceous rock and lightly-colored phyllite. The baritic iron formation located near its base is employed as a marker. The massive sulphide body is zoned, polymetallic, and displays banded, clastic and massive replacement textures. Exploration to date suggests that it has a tabular morphology. The deposit is located stratigraphically above the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) located 20 kilometres to the west.

Commonly, sulphide intersections have Mg-chlorite footwall alteration zones enveloping pyrite/chalcopyrite/pyrrhotite stringer mineralization. The main sulphide minerals, in order of decreasing abundance, are pyrite, sphalerite, chalcopyrite, and galena. Argentian tetrahedrite contains more than 90% of the silver in the deposit, the remainder occurring in solid solution with galena and in Au-Ag solid solution series. Au is present as Ag-rich native gold and Au-rich native silver.

Gangue minerals associated with the massive sulphide are comprised of quartz, muscovite, calcite and dolomite-ankerite. Texturally the sulphide minerals are generally fine to medium grained. Ore minerals occur either interstitial to pyrite or as a matrix for disseminated pyrite (Tucker et al., 1997).

Exploration work undertaken by the Finlayson Joint Venture group led to the discovery of the first traces of mineralization. The group found traces of chalcopyrite and galena in strongly leached and limonite-stained chlorite schist and quartz float. Two drill holes, drilled 244 m apart intersected thin bands (up to 0.64 cm) of chalcopyrite and sphalerite in a soft, contorted talc-sericite-chlorite schist zone ranging from 12.2 to 20 m thick. The best intersection returned 0.24% Cu and 0.22% Zn across 4.72 m.

Geophysical surveys completed in 1982 by Esso Minerals outlined magnetic anomalies which could be produced by bands of iron formation, but the EM response was attributed to graphitic sedimentary rocks rather than sulphides.

Atna's 1994 work program revealed high base metal values in silt samples collected 8 km along strike from the original Fetish showing. Mapping carried out in 1995 defined a thick sequence of felsic volcanic rocks interbedded with argillaceous and epiclastic sedimentary rocks. The sequence includes several altered and mineralized horizons characterized by widespread pyrite-sphalerite-chalcopyrite-barite-carbonate mineralization. These strata dip moderately to the northeast and have been defined over a 12 000 m strike length. The favourable horizons are generally poorly exposed due to overburden and talus cover. However they can be defined by magnetic iron formation, geophysical marker horizons and by anomalous soil (Au, Ag, Cu, Pb, Zn, Ba) geochemistry.

The discovery hole (WO-95-1) intersected 3.9 m of massive and semi-massive sulphides that assayed 0.34 g/t Au, 59.6 g/t Ag, 10.2% Zn, 0.3% Cu and 0.49% Pb. The highest grades obtained in 1995 occurred in WO-95-4 which assayed 7.62 g/t Au, 1 349 g/t Ag, 14.22% Zn, 0.56% Cu and 3.45% Pb over a true thickness of 8.3 m. The remaining 13 holes drilled into the Wolverine deposit all intersected economic mineralization.

Hole WO-95-6, one of two holes drilled on the Fisher Zone returned 2.4 m of semi-massive sulphide that graded 0.14 g/t Au, 66.3 g/t Ag, 0.12% Cu, 1.41% Pb and 2.84% Zn. Follow-up drilling undertaken in 1995 and 1996 intersected low grade mineralization over a thick interval of coarse rhyolite fragmental rocks. The remaining holes drilled in 1995 tested various targets located along a 10 km long favourable horizon. Although the holes intersected sulphide mineralization, none returned economic grades.

Drilling in 1996 resulted in the discovery of the Lynx Zone. The zone adjoins the Wolverine Zone to the west at the same stratigraphic level. The Lynx Zone is on average thicker and higher grade than the Wolverine, contains an upper massive sulphide lens and remains open to the south and west. The thick, massive sulphide lens thins, up dip to surface. Drilling on the Lynx zone in 1997 extended the zone an additional 50 metres up dip over a 200 metre strike length.

Drilling in 1997 resulted in the discovery of the Sable zone located 1.6 km southeast of Wolverine zone, adjacent to Expatriate Resources' Puck claims. The zone hosts chlorite alteration with stockwork chalcopyrite and pyrrhotite mineralization typical of footwall alteration observed at the Wolverine zone. The drilling intersected two narrow massive sulphide zones with ¿Wolverine grade¿ mineralization (WV97-106, 108). The joint venture reported results of 2.26 g/t Au, 183 g/t Ag, 0.65% Cu, 0.62% Pb, and 15.70% Zn over a true thickness of 0.6 m in hole WV97-106, and 1.92 g/t Au, 416 g/t Ag, 0.80% Cu, 0.79% Pb, and 13.3% Zn over a true thickness of 0.6 metres from hole WV97-108.

Preliminary metallurgical studies of the Wolverine deposit identified high levels of selenium, which creates problems during the smelting and refining processes due to the difficulty in separating it from metal and/or sulphur products. Following the change in ownership, the joint venture group appointed a team of metallurgists to investigate various metallurgical processes to eliminate the selenium. Preliminary results suggest that several economically attractive options are available to produce a readily saleable product.

The single hole collared on the Sable zone failed to intersect economic mineralization. The seven holes collared on the Lynx zone targeted the proposed path of an underground drift, which was included in the feasibility study released in 2001. Overall drilling confirmed a previous interpretation of the deposit based on wider spaced drilling conducted in earlier years.

In Nov/2000, Hatch Associates Ltd., estimated that the Wolverine Deposit (including the Lynx Zone) hosted a probable reserve of 3 740 000 tonnes grading 1.37% Cu, 1.44% Pb, 12.43% Zn, 1.59 g/t Au and 336.6 g/t Ag.

This figure was calculated using only resources from the Lynx and Wolverine lenses where the massive sulphide mineralization is greater than 4 m thick.

Following the termination of the Kudz Ze Kayah option, Expatriate returned its exploration focus to its own claim holdings.

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6 Nov/95; 15 Nov/95; 17 Nov/95; 22 Nov/95; 23 Nov/95; 1 Dec/95; 27 Dec/95; 20 Feb/96; 29 Feb/96; 4 Mar/96; 2 Apr/96; 6 May/96; 3 Jun/96; 3 Jul/96; 22 Jul/96; 30 Jul/96; 15 Aug/96; 23 Aug/96; 12 Sep/96; 18 Sep/96; 25 Sep/96; 7 Oct/96; 11 Oct/96; 22 Oct/96; 30 Oct/96; 17 Mar/97; 6 Jun/97; 30 Jun/97; 25 Jul/97; 25 Nov/97.

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***MINFILE#: *105G 118**

*UPDATED: *2007-12-04

***PRIMARY NAME: *ICE**

*DEPOSIT TYPE: *Cyprus Massive Sulphide Cu-Zn

*STATUS: *DEPOSIT

*TECTONIC ELEMENT: *YUKON-TANANA TERRANE

*NTS MAP SHEET: *105G\14

*LATITUDE: *61° 52' 29"

*LONGITUDE: *131° 21' 37"

*OTHER NAME(S): *

*MAJOR COMMODITIES: *COPPER

*MINOR COMMODITIES: *COBALT, GOLD, SILVER

*TRACE COMMODITIES: *

CLAIMS(PREVIOUS & CURRENT)

ICE, ICE, ICE

WORK HISTORY

Staked as Ice cl 1-16 cl (YB74423) in Feb/96 by Expatriate Resources Ltd to cover a copper soil geochemical anomaly identified during a 1973 survey managed by Archer, Cathro & Associates Ltd. In May/96, a company geologist discovered secondary copper mineralization near the occurrence location, leading Expatriate to stake Ice cl 17-48 (YB844050). Between Jun/96 and Jun/97 the company staked an additional 1 057 Ice claims.

Work in 1996 consisted of geological mapping, prospecting, grid soil sampling, ground geophysical surveys and 34 diamond drill holes (2 704.35 m). All of the work was carried out in a 5 km area centred on the occurrence location. Following completion of the 1996 field program, Expatriate flew an airborne geophysical survey over the entire claim block.

In 1997 Expatriate carried out regional geological mapping, prospecting, and soil sampling programs over the entire property and continued detailed geological mapping, soil sampling and geophysical programs around the occurrence area. The company drilled 87 diamond drill holes (7 879.7 m), of which all but 5, tested the known deposit (occurrence).

In 1998 Expatriate carried out reclamation work on the claims. In Dec/2004 Expatriate reorganized and transferred most of its exploration projects outside the Finlayson District to its subsidiary Pacifica Resources Ltd and then changed its name to Yukon Zinc Corporation.

GEOLOGY

The occurrence is located west of the Pelly River and north of the Robert Campbell Highway, in an area of subdued topography with limited outcrop. The area is underlain by pillowed, massive and fragmented mafic volcanic rocks interlayered with chert, argillite and rarely limestone.

These rocks were previously thought to belong to the Slide Mountain Terrane but geological mapping (Murphy et al., 2001) assigns the rocks to Early Permian Campbell Range Succession, thus making them part of the Yukon-Tanana Terrane. The Campbell Range Succession is thought to represent the culmination of the transition from arc-rifting or back-arc extension to oceanic or back-arc marginal magmatism and sedimentation.

The Yukon-Tanana Terrane hosts numerous volcanic-hosted massive sulphide (VMS) deposits, including the Fyre Lake deposit (Minfile Occurrence #105G 034) in the Upper Devonian Fire Lake mafic metavolcanic unit, the Kudze Kayah deposit (Minfile Occurrence #105G 117) in the Upper Devonian Kudze Kayah felsic metavolcanic unit, and the Wolverine deposit (Minfile Occurrence #105G 072) within the lower Mississippian Wolverine Succession. The Ice occurrence (deposit) was the first VMS deposit identified in the Campbell Range Succession and its discovery led to a staking rush and a re-evaluation of the succession's economic potential.

Based on outcrop and drill hole data, the occurrence area is underlain by relatively unstrained, massive basalts and locally important pillowed and fragmented varieties of the Campbell Succession (unit PCb). Chert, argillite and rarely limestone are intercalated with basalt. Maroon, pink and green chert, and siliceous phyllite are locally important to define a separate unit, (unit PCc). Earlier maps by Murphy and others broke the basalt into 2 units, but the most recent map lists them as one unit (Murphy et al., 2001). Elsewhere in the area Murphy noted serpentinized ultramafic intrusions (unit Pum) intruding the sequence.

Previous mapping has interpreted the contacts between serpentinized ultramafic rocks and basalt as thrust faults, however recent mapping indicates the ultramafic rocks may be sills. The base of the Campbell Range succession is inferred to be a profound regional unconformity, developed after movement on the Jules Creek thrust. The succession overlies both the Finlayson succession in the footwall of the Jules Creek thrust and rocks in the hanging wall. The Campbell Range succession must therefore overlap the Jules Creek thrust, and thrusting must therefore be late Pennsylvanian in age. Along the southwest border of the Ice claim block, Expatriate noted muscovite-chlorite-quartz schists which Murphy assigned to unit CMCu, undifferentiated layered rocks of Carboniferous age.

The dominant structure in the eastern half of the property is a broad syncline, the nose of which is in the vicinity of the Ice deposit. The western half of the property is underlain by a homoclinal sequence

dipping to the northeast. Two main fault sets are recognised, one trending north-northeast and the other northwest. The faults are limited to widely spaced, steeply dipping strike slip structures with minimal offset.

Prospecting in 1996 located a 30 m diameter vegetation kill zone consisting of malachite cemented glacial till. Typical specimens from the kill zone assayed 0.68% Cu while malachite-rich specimens assayed up to 11.3% Cu. The samples returned near background values for other metals. Subsequent prospecting located mineralized basalt outcrops and float north and west of the kill zone. Rock samples contain abundant malachite and rare azurite on internal fractures but little or no copper mineralization on external surfaces. Except for the fracture mineralization, the rocks in the area are barren. A second kill zone was identified 250 m north of the discovery (occurrence) showing. Samples from this area returned lower Cu values but higher precious metal values (up to 7.6 g/t Ag and 1.28 g/t Au).

Grid soil sampling outlined a 1 400 m by 500 m wide area, centred over the discovery showing, which returned strongly anomalous Cu (> 10 000 ppm) and anomalous Zn (1450 ppm max.) and Co (200 ppm max.) values.

Three secondary copper anomalies were outlined on the edges of the grid. Geochemical response for other metals is generally subdued and shows little direct correlation with the main indicator minerals or areas of surface mineralization. Ground geophysical surveys conducted over the grid outlined 2 weak to moderate conductors, the strongest of which is centred over the occurrence. The other conductor parallels the first about 250 m to the east. The airborne geophysical survey outlined many "anomalies on the claim block which are typical of massive sulphide response". The airborne survey detected the conductors outlined by the ground geophysical surveys.

Diamond drilling in the occurrence area outlined the presence of both primary and secondary mineralization. Primary Cu-Au-Co mineralization occurs in two main sulphide horizons, an upper massive sulphide horizon and a lower stockwork sulphide horizon which contains lenses of semi-massive to massive sulphide. Both are hosted within the basalt unit, which Expatriate subdivided into four members: a lower massive basalt, a brecciated basalt, a porphyritic basalt and an upper massive basalt. The strata between the two sulphide horizons are generally unmineralized, locally however, feeder zones immediately underline the upper sulphide horizon.

The upper sulphide horizon occurs at the contact between porphyritic basalt and the overlying massive basalt. Locally the porphyritic basalt is absent and the massive sulphide mineralization lies on the brecciated basalt. The mineralized horizon commonly lies within an envelope of bright red to maroon, locally hematized basalt that is interbedded with reddish jasperoidal silica, up to 0.5 m thick. Mineralization consists primarily of medium-grained pyrite aggregates disseminated in a gangue of milky white quartz. Chalcopyrite and locally bornite form interstitial grains associated with quartz. The pyritic sulphides frequently display breccia textures.

The lower stockwork sulphide horizon occurs about 35 m below the upper massive sulphide horizon. Locally it contains massive sulphide layers up to 10 m thick although generally the mineralization consists of quartz-sulphide stringers and replacement zones within brecciated basalt. Specular hematite-quartz-pyrite forms the matrix to the brecciated basalt; the matrix and fragments are cut by quartz-pyrite veins and stringers. These early veins and stringers are cut by quartz-pyrite-chalcopyrite veins.

Surface oxidation coupled with leaching and ground water transport have produced in situ and remobilized secondary copper mineralization along the surface trace of the sulphide zone and downhill from it. Secondary mineralization typically ranges between 5 and 50 m below surface, and extends to almost 80 m along fractures. This includes minerals which have wholly or partially replaced primary sulphide minerals and others which were precipitated from ground water. Secondary copper minerals consist predominantly of cuprite, malachite, black copper oxides and chalcocite.

The best drill results were obtained near the centre of the drill area (occurrence location), within a 350 m long approximately 50 m wide zone comprised of thick massive sulphide accumulations. Copper intersections within this zone include 5.20% over 20.56 m, 8.56% over 5.92 m, 3.57% over 28.55 m, and 4.09% over 7.55 m. The high grade core of massive sulphides is surrounded by a broad halo containing thick sections of lower grade mineralization. Copper grades in the halo typically range from 1.5% to 3% in the massive to semi-massive sulphide horizon, 0.5% to 1.2% in sulphide stockwork zones and 0.2 to 1.5 % in secondary copper mineralization. Multi-element analyses indicates that no significant detrimental elements are present in the mineralization.

The discovery of massive sulphides in mafic volcanic rocks of the Campbell Range Succession represents a new style of volcanic hosted massive sulphide mineralization in the Yukon-Tanana Terrane. Based on its metal signature and relationship to enclosing basaltic wallrocks the Ice deposit is categorized as a Cyprus-type volcanogenic massive sulphide. This type of mineralization forms along fissure zones in active spreading centres and is found where ocean floor has been obducted. The classic type deposits are in the eastern Mediterranean while some of the best Canadian examples are located in Newfoundland.

Mineralization in Cyprus-type deposits can be confined to a single lens but often occurs as a string of lenses along an elongate fissure zone. Volcanism within spreading centres is usually intermittent and fissures are often reactivated producing mineralized horizons at several stratigraphic levels. Tectonic activity coupled with volcanism typically result in rapid facies changes.

The Ice deposit contains an indicated mineral resource of 4,561,863 tonnes grading 1.48% Cu with minor gold, silver and cobalt. Included within this resource is a near surface open pit resource of 3.4 million tonnes at 1.48% copper of which 2.7 million tonnes is oxide. The total indicated resource is overlain by a significant amount of additional, near surface oxide copper mineralization for which there is insufficient data to estimate a resource. Although the deposit is largely closed off by existing drilling, the Ice claim block is large and most of the surrounding favourable stratigraphy remains untested.

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APPENDIX C- AURORA GEOSCIENCES FIELD REPORT



AURORA GEOSCIENCES LTD.

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To: Daniele Heon
Golden Predator Canada Corp.

Date: July 7 2011

From: Mac Clohan

Re: Bolt and Salt Soil Sampling Program (GPD-11510-YT)

This memorandum describes the soil sampling program completed on the Bolt and Salt Properties, located near Francis Lake, on NTS Map Sheet 105G/08 and 105G/09 for the Bolt East Grid, 105G/08 for the Bolt West Grid, 105G/01 for the 4C grid, and 105H/06 for the Salt Grid. Two crews mobilized from Whitehorse on June 11th 2011 and began conducting the sampling program on June 12th 2011. The first part of the program involved both crews working out of the same camp on the Bolt West Grid. After the grid was finished, the crew's separated and Mac's crew worked on the Bolt East Grid and the Salt Grid while Shawn's crew worked on the 4C grid. The Bolt West Grid involved 664 sample stations, Bolt East 601 sample stations, 4C 715 sample stations, and the Salt grid 383 sample stations.

a. Personnel & equipment. The program was conducted by the following personnel:

Crew Chief Field Technician	Shawn Scott Shawn Crawford Corey Straker Brandon Webster
Crew Chief Field Technician	Mac Clohan Stefan Gronsdahl James Morrison Will Joe

The crew was equipped with the following:

Gear: 2x4 - Person summer camp
2x1 - SAT Phone
2x4 - Radios
2x4 – Trimble with TerraSync soil sampling software

Soil Sampling: Mattocks
Soil Augers
Soil sample bags

	Rice bags
	Flagging
	Permanent Markers
<u>Other:</u>	2x 1000W Honda generator
	2x Chain saw
	Pick, axe and shovels
	2x Standard camp tool box
	2x Standard office tool box
<u>Computer:</u>	Dell Laptop (FL-138)
	Dell Laptop (FL-126)

b. Project operations.

Two crews left Whitehorse for the staging area (198km up the Robert Campbell Highway) on June 11th 2011 and mobilized to a joint camp at location 442720E 6816794N (UTM NAD83 Zone 09N) on June 12th. The camp was on the SW corner of Bolt West “grid”. A physical grid was not established on any of the sampled areas – all sample stations were at pre-loaded GPS waypoints on a virtual grid. The crews walked to the “grid” daily to collect samples; when a helicopter was available for other reasons, it was used to access the far corner of the grid. The first part of the sampling program was conducted from June 13th to June 17th on the West Grid with a fill line sampled on June 19th due to weather preventing the camp mob to the 4C grid.

The two crews then split up on June 18th with Mac’s crew moving on to the Bolt East Grid, while Shawn’s crew was weathered in for five days before mobilizing to the 4C grid on June 23rd.

Mac’s crew set up camp on the Bolt East Grid on June 18th (location 445900E 6819185N NAD83 Zone 09N). The camp was located in the centre of the grid and the crew walked to the “grid”; when a helicopter brought Danielle Heon into the grid on June 23rd, it was used to access the far corner of the grid. The Bolt East grid was sampled from June 19th to June 27th except for a weather day on June 22nd.

Shawn’s crew moved from Bolt West to the 4C grid on June 23rd and set up camp (location 441850E 6766150N NAD83 Zone 09N). The crew sampled from June 24th to July 2nd when the crew and camp were demobilized, via helicopter, to a staging area 153km up the Robert Campbell Highway. The crew was met by a driver and truck that took the crew back to Whitehorse on the same day.

Mac’s crew remobilized to the Salt grid on June 28th and set up camp (location 481097E 6811324N NAD83 Zone 09N) on the same day. The camp was located on the south end of the grid and the crew walked to the “grid” every day. The “grid” was sampled from June 29th to July 4th except for a weather day on June 30th.

Mac’s crew demobilized from the Salt Grid back to Whitehorse on July 5th. A helicopter transported the gear and crew to a staging area located 153km up the Robert Campbell

where a truck (driven by Charles Turanich-Noyen) took the crew back to Whitehorse.

A Trans North Helicopters machine under contract to Golden Predator Corp. was used to mobilize, remobilize, and demobilize both crews to all four camps.

c. Terrain

The Bolt West grid was a large grid extending over a valley running roughly E-W and the broad flat ridge on the North side of the valley, and the steep valley slope on the south side. Generally the ground was rocky with difficult and slow sampling productivity. Most “no sample” sites were due to the rocky ground; however a portion of the “no samples” sites were because of frozen ground. The slopes were all steep and covered in extremely thick willows, thus making progress extremely slow. The north facing slope on the south side of the valley was cut with cliffs which prevented sampling and slowed progress.

Long dead walks to and from the lines took up large portions of the day because of a lack of quality campsites located centrally on the grid. In hindsight, it probably would have been more efficient to camp in a less than ideal spot in a central location because it would have minimised walking through difficult terrain while bogged down with samples.

The Bolt East grid was located on the western face of a ridge system. The southern half of the grid, roughly lines M to W, yielded good quality samples with only isolated rocky patches that prevented sampling. The northern half of the grid was basically a giant boulder field which was covered in vegetation in some parts. The extremely rocky ground prevented good soil profile development and made sampling extremely slow or impossible. The samples collected in this area were mostly small pockets of soil trapped in between boulders. Cliffs near the peak of the mountain at the start of line A and B hampered sampling in some places. Also on the north side of the grid a small braided stream roughly 100-150m wide flowed parallel to lines intersecting lines D, E, F, G, and H. This created a bizarre sort of inclined marsh, in places, where there was only organics and rocks: no proper soils. The bush varied from dense willows higher up the slope, to partially open mixed forest lower down. The campsite was centrally located on one of the few flat spots on the property and it worked out quite well.

The Salt grid was located on a mostly flat bench on the eastern bank of the eastern fork of Francis Lake. The soil was mostly all till, with a few isolated pockets of weathered bedrock on the northern most ends of the lines. While not steep, the bush was extremely thick and covered in mazes of deadfall, particularly on the northern parts of lines F through M. The central parts of lines I through M, located in an old burn that is now mostly a marsh, lead to a large swath of “no samples”. The remainder of the “no samples” were generally caused by isolated pockets of bad ground or one of the many small creeks that criss-crossed the grid. While there was plenty of fresh water around, there were very few practical places to camp due to the thickness of brush. The crew managed to camp on a small ridge that was less thick with brush and cut out a camp site. It was not an ideal location, as there was not a close water source and the site was not centrally located on the grid, however, there were no other better locations on the “grid”.

d. Sampling. A summary of the sampling program and samples taken is outlined in the table below.

GRID	Total Stations	“No Sample”	Samples sent to Lab
Bolt West	660	105	555
Bolt East	602	135	467
4C	716	184	532
Salt	383	62	321
Totals	2361	486	1875

Soil samples were taken on lines spaced at 200m intervals on the Bolt East grid and 100m intervals on the Bolt East, 4C and Salt Grids with stations every 50m. Stations were marked with blue and orange flagging, and the line was flagged in between stations

All sample stations were located using a non-differential GPS and recorded as UTM NAD83 Zone 09V coordinates.

Samples from all four grids were sent with crew to Whitehorse for preparation for shipment to Acme Laboratories in Whitehorse for analysis.

e. Preliminary products. The following figures are attached to this report:

Georeferenced Sample Information	Bolt East Final Soil Sampling Datasheet.xls Bolt West Final Soil Sampling Datasheet.xls 4C Final Soil Sampling Datasheet.xls Salt Final Soil Sampling Datasheet.xls
Crew Log	GPD-11510-YT Crew Log SS.pdf GPD-11510-YT Crew Log MC.pdf
Maps	Bolt East Final Soil Sampling.pdf Bolt West Final Soil Sampling.pdf 4C Final Soil Sampling.pdf Salt Final Soil Sampling.pdf
Backup & Reference Data	Sample Shipping Records Folder Raw data from Trimble

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Mac Clohan
Field Technician

APPENDIX D- SOIL SAMPLE DATA

SampleID	Area Code	Zone 9N		elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
		UTM E NAD 83	UTM N NAD 83															
1159001	BoISW	443201.7	6815685	1365.015		20-30	B/C	10-15	Light Brown	0	30	30	35	5	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1159002	BoISW	443224.4	6815713	1390.12	bluff	30-40	C	10-15	Light Brown	0	45	20	20	15	Talus/colluvium	Dry	Mixed forest	Mid Slope
1159003	BoISW	443267.4	6815789	1412.752		20-30	C	5-10	Light Brown	0	60	15	15	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159004	BoISW	443294.7	6815850	1427.471		30-40	C	10-15	Light Brown	0	50	15	25	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159005	BoISW	443333.8	6815870	1425.545		20-30	C	5-10	Light Brown	0	40	15	30	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159006	BoISW	443396.9	6815941	1433.285	deeper than this is bedrock	20-30	B/C	5-10	Light Grey	0	50	20	25	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159007	BoISW	443457.4	6816034	1459.85		30-40	C	15-20	Dark Brown	0	50	25	15	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159008	BoISW	443524.5	6816115	1481.652	went as deep as possible until rock	20-30	B/C	10-15	Light Brown	0	40	10	35	15	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159009	BoISW	443551.9	6816147	1475.945		30-40	C	15-20	Dark Brown	0	50	20	10	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159010	BoISW	443617.9	6816216	1495.557		20-30	C	10-15	Dark Brown	0	40	20	25	15	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159011	BoISW	443644.6	6816270	1509.329		20-30	B/C	10-15	Dark Brown	0	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159012	BoISW	443666.2	6816302	1509.48		20-30	C	10-15	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160001	BoINE	445572	6820139	1428.852	hard sample	30-40	C	10-15	Light Brown	25	75	0	0	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160002	BoINE	445477.8	6820098	1390.729	hard sample	30-40	C	10-15	Light Brown	40	60	0	0	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160003	BoINE	445424.9	6820095	1369.09		30-40	C	10-15	Light Brown	30	40	0	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160004	BoINE	445383.7	6820069	1347.575		40-50	C	10-15	Light Brown	10	50	0	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160005	BoINE	445197.9	6819997	1309.87		>70	C	10-15	Dark Grey	20	20	0	60	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160006	BoINE	445445.7	6819454	1347.91		>70	B/C	10-15	Dark Brown	0	70	0	30	0	Weathered bedrock	Partially Frozen	Mixed forest	Valley Lowland
1160007	BoINE	445405.2	6819431	1338.37		50-60	C	10-15	Light Brown	20	80	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160008	BoINE	445300.1	6819388	1332.564		30-40	C	10-15	Dark Grey	0	60	0	40	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160009	BoINE	445226.3	6819378	1312.639		30-40	C	10-15	Dark Brown	0	80	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
1160010	BoINE	445158.5	6819358	1303.95		20-30	C	10-15	Light Brown	0	70	0	30	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160011	BoINE	445121.5	6819329	1294.742		30-40	C	10-15	Light Brown	0	65	0	35	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160012	BoINE	445082.7	6819316	1287.192		30-40	C	10-15	Dark Grey	20	60	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160013	BoINE	445025.2	6819302	1285.305		50-60	C	10-15	Light Brown	25	50	0	25	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160014	BoINE	444924.6	6819275	1277.531		50-60	C	10-15	Light Brown	0	60	0	40	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160015	BoINE	444889.4	6819252	1263.489		50-60	C	10-15	Light Brown	0	60	0	40	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160016	BoINE	446000.4	6819446	1474.475		50-60	C	10-15	Light Brown	25	65	0	10	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160017	BoINE	445884	6819410	1448.68		50-60	C	10-15	Light Brown	20	70	0	10	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160018	BoINE	445840.1	6819392	1444.435		30-40	B/C	10-15	Dark Brown	20	30	0	50	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160019	BoINE	445795.9	6819380	1428.062		40-50	B/C	10-15	Light Brown	25	0	0	75	0	Weathered bedrock	Partially Frozen	Mixed forest	Valley Lowland
1160020	BoINE	445708	6819323	1413.857		40-50	C	10-15	Dark Brown	0	50	0	50	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160021	BoINE	445650.4	6819324	1402.6		50-60	C	10-15	Dark Brown	25	40	25	10	0	Weathered bedrock	Partially Frozen	Mixed forest	Valley Lowland
1160022	BoINE	445618.4	6819296	1393.083		50-60	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160023	BoINE	445567.2	6819273	1375.138		50-60	C	10-15	Light Brown	20	80	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160024	BoINE	445529.8	6819273	1368.762		40-50	C	10-15	Light Brown	0	80	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160025	BoINE	445473.3	6819258	1358.22		50-60	C	10-15	Light Brown	0	80	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160026	BoINE	445421.1	6819220	1363.591		40-50	C	10-15	Light Brown	0	100	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160027	BoINE	445379.7	6819211	1345.596		30-40	C	10-15	Light Brown	20	60	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160028	BoINE	445329.3	6819198	1336.279		30-40	C	10-15	Light Brown	0	75	0	25	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160029	BoINE	445283.5	6819170	1332.915		20-30	C	10-15	Light Brown	0	75	0	25	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160030	BoINE	445236.5	6819170	1325.711		10-20	C	10-15	Light Brown	25	75	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
1160031	BoINE	445197.4	6819148	1313.822		20-30	C	10-15	Dark Grey	0	75	0	25	0	Till	Wet	Mixed forest	Valley Lowland
1160032	BoINE	445162	6819115	1314.731		40-50	C	10-15	Light Brown	20	60	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160033	BoINE	445097.1	6819111	1307.97		20-30	C	10-15	Light Brown	0	70	0	30	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160034	BoINE	445051.7	6819091	1298.291		50-60	C	10-15	Dark Grey	0	100	0	0	0	Till	Moist	Mixed forest	Valley Lowland
1160035	BoINE	445000.7	6819072	1288.29		30-40	C	10-15	Light Brown	0	75	0	25	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160036	BoINE	444950.2	6819063	1279.276		30-40	C	10-15	Light Brown	0	75	0	25	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160037	BoINE	444903	6819039	1275.305	duplicate sample	30-40	C	10-15	Light Brown	0	50	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160038	BoINE	444903.7	6819038	1274.347	duplicate sample	20-30	C	10-15	Light Brown	0	75	0	25	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160051	BoINE	445829.1	6819274	1438.124		40-50	C	15-20	Dark Grey	10	10	20	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160052	BoINE	445828.4	6819273	1438.378		30-40	C	20-25	Dark Grey	0	10	40	40	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160053	BoINE	445786.5	6819260	1430.571	gravel	20-30	B/C	10-15	Dark Brown	0	50	0	0	50	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1160054	BoINE	445747.4	6819240	1420.597		20-30	C	20-25	Light Brown	0	40	30	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160055	BoINE	445695.9	6819224	1411.425		10-20	C	10-15	Light Brown	15	35	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160056	BoINE	445646.8	6819203	1405.722		20-30	C	10-15	Light Grey	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160057	BoINE	445596.8	6819195	1389.101		20-30	C	15-20	Light Grey	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160058	BoINE	445547.4	6819177	1377.48		30-40	C	20-25	Light Grey	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160059	BoINE	445500.4	6819150	1363.387		20-30	C	20-25	Light Brown	0	20	30	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160060	BoINE	445448.1	6819132	1358.464		30-40	C	20-25	Light Grey	5	15	30	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160061	BoINE	445401.9	6819126	1344.737		20-30	C	15-20	Light Brown	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160062	BoINE	445363.7	6819106	1350.184		30-40	C	20-25	Light Brown	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160063	BoINE	445315.9	6819087	1339.833		30-40	C	20-25	Light Brown	20	30	10	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
1160064	BoINE	445273.1	6819068	1337.228		30-40	B/C	15-20	Light Brown	20	30	10	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160065	BoINE	445222	6819042	1330.072		30-40	C	25-30	Light Brown	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160066	BoINE	445175.3	6819043	1326.46		40-50	C	>30	Light Grey	0	20	50	20	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160067	BoINE	445131.8	6819017	1319.134		40-50	C	25-30	Light Grey	0	30	20	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160068	BoINE	445081.7	6818995	1302.857		40-50	C	>30	Dark Grey	0	30	30	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160069	BoINE	445038.4	6818979	1293.967		20-30	B/C	15-20	Dark Grey	0	30	30	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160070	BoINE	444990.8	6818944	1290.001		30-40	C	15-20	Light Brown	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160071	BoINE	444945.7	6818939	1271.534		40-50	C	20-25	Light Grey	0	20	30	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160072	BoINE	444781.8	6818774	1244.557		40-50	C	25-30	Dark Grey	0	15	30	40	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160073	BoINE	444892.9	6818805	1260.01		30-40	C	25-30	Light Grey	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160074	BoINE	444978.3	6818852	1276.936		30-40	C	15-20	Light Brown	0	40	20	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160075	BoINE	445087.1	6818880	1304.302		30-40	C	20-25	Light Brown	0	30	20	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160076	BoINE	445169.4	6818916	1318.55		30-40	C	20-25	Light Brown	0	20	30	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160077	BoINE	445267.3	6818953	1336.561		20-30	C	10-15	Light Brown	0	50	0	0	45	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160078	BoINE	445358.6	6818996	1343.978		10-20	C	10-15	Light Brown	0	30	20	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160079	BoINE	445448.3	6819022	1352.591		30-40	C	15-20	Light Grey	0	20	30	40	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160080	BoINE	445543.6	6819053	1377.867		20-30	C	20-25	Light Brown	10	30	20	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160081	BoINE	445639.8	6819097	1413.845		30-40	C	10-15	Light Brown	0	30	30	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160082	BoINE	445740.9	6819134	1418.69		40-50	C	>30	Light Grey	0	30	30	30	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160083	BoINE	445818.5	6819168	1433.341		20-30	B/C	15-20	Light Brown	20	40	20	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160084	BoINE	445930.8	6819207	1452.929		20-30	B/C	15-20	Light Brown	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
1160085	BoINE	446014.2	6819236	1470.006		30-40	B/C	25-30	Dark Brown	0	30	30	10	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160086	BoINE	446101.2	6819268	1482.695		20-30	C	25-30	Dark Brown	0	50	0	0	45	Weathered bedrock	Moist	Alpine	Mid Slope
1160501	BoISW	444258	6815574	1317.8		30-40	c	10-15	yellow	10	0	60	30	0	weathered bedrock	moist	evergreen forest	valley bottom
1160502	BoISW	444310	6815644	1319		20-30	c	10-15	light grey	0	33	33	0	33	weathered bedrock	moist	evergreen forest	valley bottom
1160503	BoISW	443627.2	6815746	1397.064		40-50	B/C	20-25	Light Brown	10	30	30	30	0	Weathered bedrock	Moist	Willows	Mid Slope
1160504	BoISW	443590.3	6815699	1389.967		30-40	C	10-15	Orange	0	80	20	0	0	Weathered bedrock	Dry	Willows	Mid Slope
1160505	BoISW	443558.8	6815669	1385.557		30-40	C	10-15	Orange	0	30	40	20	10	Weathered bedrock	Moist	Willows	Mid Slope
1160506	BoISW	443525.5	6815612	1358.816		60-70	B/C	>30	Light Grey	20	20	10	50	0	(glacio)-fluvial	Moist	Willows	Valley Lowland
1160507	BoISW	443501.9	6815585	1369.687		10-20	C	5-10	Light Brown	0	30	50	0	20	Till	Moist	Mixed forest	Mid Slope
1160508	BoISW	443434.1	6815500	1411.846		40-50	C	15-20	Light Brown	0	0	40	40	20	Weathered bedrock	Moist	Alpine	Mid Slope
1160509	BoISW	443404.3	6815459	1429.435		40-50	C	20-25	Light Grey	5	0	30	65	0	Weathered bedrock	Wet	Alpine	Mid Slope
1160510	BoISW	443376	6815421	1448.703		10-20	C	5-10	Yellow	15	25	25	25	10	Weathered bedrock	Moist	Alpine	Mid Slope
1160511	BoISW	443353.3	6815381	1470.477		10-20	C	5-10	Light Brown	20	20	50	0	10	Weathered bedrock	Dry	Alpine	Mid Slope
1160512	BoISW	443262.1	6815300	1504.286		20-30	C	10-15	Orange	10	30	30	10	20	Weathered bedrock	Moist	Alpine	Mid Slope
1160513	BoISW	443206.1	6815233	1532.753		50-60	B/C	>30	Light Brown	15	0	0	30	65	Weathered bedrock	Partially Frozen	Alpine	Mid Slope
1160514	BoISW	443650.6	6815779	1388.161		10-20	B	10-15	Light Brown	20	30	25	25	0	Weathered bedrock	Moist	Willows	Mid Slope
1160515	BoINE	445871.3	6818327	1328.775		40-50	C	15-20	Light Grey	0	10	30	50	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160516	BoINE	445819.8	6818310	1317.265		40-50	C	20-25	Light Grey	0	40	50	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160517	BoINE	445781.7	6818286	1309.29	creek adjacent	30-40	C	10-15	Light Grey	0	0	30	60	10	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160518	BoINE	445732.2	6818266	1317.835		40-50	C	15-20	Light Grey	0	0	20	50	30	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160519	BoINE	445685.4	6818254	1335.697		40-50	C	20-25	Light Grey	0	30	30	15	25	Weathered bedrock	Moist	Mixed forest	Mid Slope

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
1160520	BoINE	445638.1	6818237	1340.014		30-40	C	15-20	Dark Grey	0	40	40	10	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160521	BoINE	445582.8	6818212	1342.674		20-30	C	10-15	Dark Grey	0	40	45	0	15	Weathered bedrock	Moist	Mixed forest	Ridge Top
1160522	BoINE	445532.4	6818195	1345.377		20-30	C	10-15	Light Brown	0	50	40	0	10	Weathered bedrock	Dry	Mixed forest	Ridge Top
1160523	BoINE	445495.1	6818187	1342.083		30-40	C	15-20	Light Brown	0	50	40	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160524	BoINE	445448.5	6818166	1331.171		30-40	C	15-20	Light Brown	0	30	50	10	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160525	BoINE	445402	6818148	1309.2		40-50	C	15-20	Light Grey	0	50	40	0	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160526	BoINE	445369.9	6818145	1283.044		40-50	C	15-20	Light Brown	5	60	30	0	5	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160527	BoINE	445326.9	6818118	1257.392		30-40	C	15-20	Orange	0	33	33	33	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160528	BoINE	446692.6	6819272	1577.073		30-40	C	10-15	Light Brown	0	30	30	20	20	Weathered bedrock	Moist	Alpine	Ridge Top
1160529	BoINE	446641.8	6819254	1567.528		30-40	C	10-15	Light Grey	0	0	40	50	10	Weathered bedrock	Wet	Alpine	Mid Slope
1160530	BoINE	446584	6819231	1562.273		40-50	B/C	20-25	Light Grey	0	0	40	50	10	Weathered bedrock	Partially Frozen	Alpine	Mid Slope
1160531	BoINE	446533.2	6819225	1564.121	small sample rocky ground	20-30	C	10-15	Light Brown	15	25	25	25	10	Weathered bedrock	Moist	Alpine	Mid Slope
1160532	BoINE	446434.1	6819181	1527.618		30-40	B/C	10-15	Light Grey	5	25	60	0	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160533	BoINE	446408.2	6819155	1524.243	small sample rocky ground	10-20	B/C	5-10	Light Brown	25	25	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160534	BoINE	446316.5	6819112	1500.096	small sample rocky ground	20-30	B/C	15-20	Light Grey	15	0	30	30	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160535	BoINE	446270.3	6819116	1495.495	small sample rocky ground	10-20	B/C	5-10	Orange	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160536	BoINE	446224.9	6819100	1486.123		40-50	C	20-25	Light Grey	10	40	30	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160537	BoINE	446176.4	6819072	1472.606		30-40	C	15-20	Orange	0	50	40	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160538	BoINE	446128	6819054	1466.354		50-60	C	20-25	Light Grey	0	20	50	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160539	BoINE	446082	6819041	1456.448		40-50	C	10-15	Light Grey	15	10	0	50	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160540	BoINE	446032.6	6819032	1454.108	small sample rocky ground	30-40	C	10-15	Orange	0	20	25	0	55	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1160541	BoINE	445935.6	6818991	1438.321		30-40	C	5-10	Orange	0	25	25	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160542	BoINE	445882.9	6818971	1437.13		30-40	C	15-20	Light Brown	0	45	45	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160543	BoINE	445833.8	6818940	1429.369		20-30	C	10-15	Orange	0	50	40	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160544	BoINE	445801.3	6818941	1421.107	small sample rocky ground	20-30	C	10-15	Orange	0	25	25	0	50	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160545	BoINE	445741.6	6818917	1416.629	poor sample Quality due to alternating layers of organics	30-40	B	10-15	Light Brown	30	25	25	20	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160546	BoINE	445711.9	6818901	1411.013		30-40	C	5-10	Orange	10	25	50	10	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160547	BoINE	445658	6818884	1406.561		30-40	C	15-20	Orange	0	50	40	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160548	BoINE	445618.1	6818866	1393.167		30-40	C	10-15	Orange	0	50	40	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160549	BoINE	445562.2	6818849	1375.789		20-30	C	10-15	Orange	0	40	40	0	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160550	BoINE	445562.3	6818846	1365.007	duplicate	30-40	C	10-15	Orange	0	40	40	0	20	Till	Moist	Mixed forest	Mid Slope
1160551	BoISW	444353.7	6814731	1590.457		20-30	B/C	10-15	Light Brown	25	15	25	35	0	Talus/colluviu m	Moist	Alpine	Ridge Top
1160552	BoISW	444382.8	6814754	1568.047		20-30	B/C	15-20	Dark Brown	20	30	30	0	20	Talus/colluviu m	Moist	Alpine	Mid Slope
1160553	BoISW	444416.5	6814802	1539.517		20-30	B/C	10-15	Dark Brown	20	20	20	20	20	Talus/colluviu m	Moist	Alpine	Mid Slope
1160554	BoISW	444436.4	6814845	1538.29		20-30	B/C	15-20	Dark Brown	20	20	20	0	40	Talus/colluviu m	Moist	Alpine	Mid Slope
1160555	BoISW	444470.4	6814901	1526.372		20-30	C	10-15	Light Brown	5	20	25	25	25	Weathered bedrock	Moist	Alpine	Mid Slope
1160556	BoISW	444471.4	6814901	1525.678		30-40	C	20-25	Dark Brown	5	10	35	50	0	Weathered bedrock	Moist	Alpine	Mid Slope
1160557	BoISW	444497.3	6814928	1517.78		30-40	C	10-15	Dark Brown	10	20	30	10	30	Weathered bedrock	Moist	Alpine	Mid Slope
1160558	BoISW	444531.9	6814965	1515.212		20-30	B/C	10-15	Light Brown	15	35	30	0	20	Talus/colluviu m	Moist	Deciduous	Mid Slope
1160559	BoISW	444579.3	6814996	1519.88		10-20	A/B	10-15	Dark Brown	10	25	30	15	10	Weathered bedrock	Moist	Alpine	Ridge Top
1160560	BoISW	444615	6815027	1515.028		30-40	C	25-30	Light Grey	0	30	30	40	0	Weathered bedrock	Moist	Alpine	Ridge Top

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1160561	BoISW	444645	6815067	1501.738		20-30	C	15-20	Dark Grey	0	10	30	60	0	Weathered bedrock	Wet	Alpine	Ridge Top
1160562	BoISW	444660.7	6815120	1486.991		20-30	B/C	15-20	Dark Brown	0	25	30	0	55	Weathered bedrock	Moist	Alpine	Mid Slope
1160563	BoISW	442875.3	6815435	1466.478		30-40	B/C	20-25	Dark Brown	15	20	35	10	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160564	BoISW	442939.3	6815511	1440.876		40-50	B/C	20-25	Dark Brown	25	10	25	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160565	BoISW	442963.1	6815563	1428.68		20-30	C	20-25	Dark Brown	15	25	35	10	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160566	BoISW	443007.7	6815595	1410.273		30-40	C	20-25	Dark Brown	10	30	30	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160567	BoISW	443037.5	6815636	1400.73	defined colour change from 200	40-50	C	>30	Light Grey	0	10	30	50	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1160568	BoISW	443067.2	6815680	1384.895		50-60	C	>30	Dark Brown	10	20	25	20	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160569	BoISW	443088.5	6815704	1378.522	river bank	60-70	C	>30	Dark Grey	0	20	30	10	40	Weathered bedrock	Partially Frozen	Deciduous	Valley Lowland
1160570	BoISW	443125.1	6815747	1374.836		30-40	B	>30	Dark Brown	40	20	20	10	10	Talus/colluviu m	Moist	Willows	Mid Slope
1160571	BoISW	443140.9	6815793	1407.907		10-20	C	15-20	Light Brown	20	40	0	0	40	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160572	BoISW	443184.2	6815827	1418.817		30-40	C	20-25	Light Grey	0	40	20	0	40	Weathered bedrock	Moist	Willows	Mid Slope
1160573	BoISW	443211.1	6815870	1434.259		40-50	C	>30	Light Brown	0	20	30	20	30	Weathered bedrock	Moist	Willows	Mid Slope
1160574	BoISW	443245.3	6815904	1435.888		30-40	C	25-30	Light Grey	0	40	20	0	40	Weathered bedrock	Moist	Willows	Mid Slope
1160575	BoISW	443272.8	6815942	1442.853		30-40	C	20-25	Light Brown	0	40	20	0	35	Weathered bedrock	Moist	Willows	Mid Slope
1160576	BoISW	443307.6	6815988	1453.184		30-40	C	25-30	Light Brown	0	50	0	0	50	Weathered bedrock	Dry	Willows	Mid Slope
1160577	BoISW	443333.4	6816032	1462.786		30-40	C	25-30	Dark Grey	5	35	30	0	30	Weathered bedrock	Moist	Willows	Mid Slope
1160578	BoISW	443358.8	6816050	1453.445		40-50	C	>30	Dark Grey	10	20	20	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160579	BoISW	443410.4	6816103	1477.305		30-40	C	20-25	Light Brown	0	30	20	20	30	Weathered bedrock	Moist	Willows	Mid Slope
1160580	BoISW	442248.4	6815927	1436.001		40-50	C	>30	Light Brown	10	30	20	10	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160581	BoISW	442289.6	6815959	1449.318		40-50	B/C	15-20	Dark Brown	5	35	30	10	20	Weathered bedrock	Moist	Willows	Mid Slope

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1160582	BoISW	442304.1	6816014	1450.459		20-30	C	15-20	Dark Brown	10	40	20	0	30	Weathered bedrock	Moist	Willows	Mid Slope
1160583	BoISW	442336.9	6816046	1456.122		20-30	C	10-15	Light Brown	5	35	30	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160584	BoISW	442379.2	6816087	1458.365		10-20	C	15-20	Light Brown	0	50	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160585	BoISW	442406.1	6816120	1464.81		40-50	C	15-20	Light Grey	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160586	BoISW	442433.2	6816161	1464.324		30-40	C	20-25	Light Brown	0	40	30	0	30	Weathered bedrock	Moist	Deciduous	Mid Slope
1160587	BoISW	442468.3	6816209	1476.191		20-30	C	15-20	Light Brown	10	40	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160588	BoISW	442495.1	6816243	1481.862		30-40	C	15-20	Light Grey	0	25	25	25	25	Weathered bedrock	Moist	Deciduous	Mid Slope
1160589	BoISW	442521.4	6816277	1485.44		10-20	C	10-15	Light Brown	0	50	25	0	25	Weathered bedrock	Moist	Deciduous	Mid Slope
1160590	BoISW	442557.3	6816303	1494.405		20-30	C	25-30	Light Brown	0	45	25	0	30	Weathered bedrock	Moist	Deciduous	Mid Slope
1160591	BoISW	442585.2	6816362	1496.188		20-30	C	15-20	Light Brown	0	40	20	0	40	Weathered bedrock	Moist	Deciduous	Mid Slope
1160592	BoISW	442618.1	6816388	1503.157		20-30	C	15-20	Light Brown	10	40	25	0	25	Weathered bedrock	Moist	Deciduous	Mid Slope
1160593	BoINE	445921.4	6818343	1344.47		40-50	B/C	20-25	Light Brown	10	25	25	0	40	Weathered bedrock	Moist	Willows	Mid Slope
1160594	BoINE	445964.6	6818357	1359.661		20-30	C	10-15	Light Brown	15	35	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160595	BoINE	446016.6	6818376	1358.048		50-60	C	>30	Light Grey	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160596	BoINE	446053.7	6818405	1380.536		40-50	C	>30	Light Grey	0	25	25	15	0	Weathered bedrock	Moist	Willows	Mid Slope
1160597	BoINE	446109.9	6818417	1393.309		60-70	C	20-25	Light Grey	0	40	40	20	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1160598	BoINE	446155.4	6818429	1402.624		40-50	C	15-20	Light Grey	10	30	30	15	15	Weathered bedrock	Dry	Willows	Mid Slope
1160599	BoINE	446205.1	6818448	1423.065		50-60	B/C	20-25	Dark Grey	20	25	30	15	10	Weathered bedrock	Wet	Willows	Mid Slope
1160600	BoINE	446245.4	6818479	1428.337		20-30	B/C	10-15	Dark Brown	30	30	20	0	20	(glacio)-fluvial	Frozen	Willows	Mid Slope
1160601	BoISW	444612.8	6816352	1320.602		60-70	B/C	10-15	Light Brown	20	60	0	20	0	Till	Moist	Mixed forest	Valley Lowland
1160602	BoISW	444551.9	6816281	1352.237	clay to bedrock	20-30	C	10-15	Light Brown	20	0	0	80	0	Till	Wet	Mixed forest	Valley Lowland

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1160603	BoISW	444492.8	6816197	1386.276		40-50	C	10-15	Dark Grey	10	40	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1160604	BoISW	444437.8	6816106	1407.509		30-40	C	10-15	Light Brown	0	0	75	25	0	Till	Moist	Mixed forest	Valley Lowland
1160605	BoISW	444378.9	6816029	1411.042		20-30	B/C	10-15	Light Brown	20	60	0	20	0	Till	Moist	Mixed forest	Valley Lowland
1160606	BoISW	444319.5	6815953	1398.813		40-50	C	10-15	Dark Brown	25	25	50	0	0	Till	Wet	Mixed forest	Valley Lowland
1160607	BoISW	444238.5	6815892	1409.993		20-30	C	10-15	Light Brown	10	40	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1160608	BoISW	444178.5	6815807	1397.077		10-20	C	10-15	Light Brown	10	80	0	10	0	Till	Moist	Mixed forest	Valley Lowland
1160609	BoISW	444068.3	6815645	1362.517		10-20	C	10-15	Light Brown	10	50	0	40	0	Till	Dry	Mixed forest	Valley Lowland
1160610	BoISW	443993.1	6815568	1340.377		50-60	C	10-15	Dark Brown	20	40	0	40		Till	Moist	Mixed forest	Valley Lowland
1160611	BoISW	443399.8	6816428	1568.824		20-30	C	10-15	Light Brown	20	40	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1160612	BoISW	443268.7	6816273	1537.774		30-40	C	10-15	Light Brown	20	50	0	30	0	Till	Moist	Mixed forest	Ridge Top
1160613	BoISW	443201.6	6816197	1506.188		40-50	C	10-15	Dark Grey	0	50	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1160613b	BoISW	443206.1	6815233	1532.753		50-60	B/C	>30	Light Brown	15	0	0	30	65	Weathered bedrock	Partially Frozen	Alpine	Mid Slope
1160614	BoISW	443152	6816117	1475.638		50-60	C	10-15	Dark Grey	0	50	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1160614b	BoISW	443650.6	6815779	1388.161		10-20	C	10-15	Light Brown	20	30	25	25	0	Weathered bedrock	Moist	Willows	Mid Slope
1160615	BoISW	443089.8	6816045	1461.426		20-30	C	10-15	Light Brown	70	30	0	30	0	Till	Moist	Mixed forest	Valley Lowland
1160616	BoISW	443036.3	6815942	1442.243		10-20	C	10-15	Light Brown	10	50	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1160617	BoISW	442893.5	6815793	1415.573		20-30	C	10-15	Light Brown	25	55	0	45	0	Till	Wet	Mixed forest	Valley Lowland
1160618	BoINE	445810.6	6818512	1354.53		50-60	C	10-15	Light Grey	0	100	0	0	0	Till	Dry	Mixed forest	Valley Lowland
1160619	BoINE	445759.3	6818483	1333.284		50-60	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160620	BoINE	445725.3	6818478	1324.327		20-30	C	10-15	Light Brown	0	60	0	40	0	Till	Dry	Mixed forest	Valley Lowland
1160621	BoINE	445659	6818463	1340.131		30-40	C	10-15	Light Brown	20	40	0	40	0	Till	Wet	Mixed forest	Valley Lowland

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1160622	BoINE	445616.6	6818441	1354.341		30-40	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1160623	BoINE	445567.1	6818414	1359.376		20-30	C	10-15	Light Brown	0	60	0	40	0	Till	Moist	Mixed forest	Ridge Top
1160624	BoINE	445518	6818406	1358.157		10-20	C	10-15	Light Brown	10	50	0	40	0	Till	Moist	Mixed forest	Ridge Top
1160625	BoINE	445470.3	6818393	1362.273		10-20	C	10-15	Light Brown	0	40	0	60	0	Till	Moist	Mixed forest	Valley Lowland
1160626	BoINE	445433.8	6818364	1359.113		20-30	B/C	10-15	Dark Grey	0	75	0	25	0	Till	Moist	Mixed forest	Mid Slope
1160627	BoINE	445366.4	6818357	1343.125		50-60	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1160628	BoINE	445322.1	6818321	1324.444		40-50	C	10-15	Light Brown	20	50	0	30	0	Till	Moist	Mixed forest	Valley Lowland
1160630	BoINE	445290.7	6818309	1308.393		40-50	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160631	BoINE	445198.4	6818269	1260.828		40-50	C	10-15	Dark Grey	0	60	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1160632	BoINE	445142.5	6818272	1261.016		50-60	C	10-15	Dark Grey	0	60	0	40	0	Till	Dry	Mixed forest	Valley Lowland
1160633	BoINE	445066.8	6818344	1229.848		40-50	C	10-15	Dark Grey	20	60	0	20	0	Till	Wet	Mixed forest	Valley Lowland
1160634	BoINE	445198.3	6818401	1298.178		50-60	C	10-15	Dark Grey	0	75	0	25	0	Till	Partially Frozen	Mixed forest	Valley Lowland
1160635	BoINE	445254.9	6818422	1309.65		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Ridge Top
1160636	BoINE	445966.6	6818908	1425.828		30-40	C	10-15	Light Grey	20	40	0	40	0	Till	Wet	Mixed forest	Mid Slope
1160637	BoINE	445921	6818882	1419.398		30-40	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160638	BoINE	445869.1	6818874	1415.112		10-20	C	10-15	Light Brown	30	40	0	30	0	Till	Moist	Mixed forest	Mid Slope
1160639	BoINE	445829.1	6818845	1418.87		20-30	C	10-15	Light Brown	20	40	0	40	0	Till	Moist	Mixed forest	Mid Slope
1160640	BoINE	445782.5	6818816	1404.965		10-20	C	10-15	Light Brown	25	50	0	25	0	Till	Wet	Mixed forest	Mid Slope
1160641	BoINE	445734.5	6818818	1398.857		20-30	C	10-15	Light Brown	25	50	0	25	0	Till	Moist	Mixed forest	Mid Slope
1160642	BoINE	445694.2	6818793	1383.293		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Wet	Mixed forest	Mid Slope
1160643	BoINE	445654.7	6818792	1380.18		20-30	C	10-15	Light Brown	30	30	0	40	0	Till	Moist	Mixed forest	Mid Slope

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1160644	BoINE	445598.7	6818748	1370.034		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160645	BoINE	445554.1	6818744	1347.3		30-40	C	10-15	Light Brown	20	50	0	30	0	Till	Moist	Mixed forest	Mid Slope
1160646	BoINE	445503.2	6818713	1349.556		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160647	BoINE	445463.2	6818690	1362.305		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Plateau
1160648	BoINE	445407.1	6818674	1357.138		30-40	C	10-15	Light Brown	20	50	0	30	0	Till	Moist	Mixed forest	Ridge Top
1160649	BoINE	445369.5	6818667	1357.42		30-40	C	10-15	Light Brown	20	50	0	25	0	Till	Moist	Mixed forest	Plateau
1160650	BoINE	445320.6	6818654	1348.48		40-50	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Ridge Top
1160651	BoISW	443086.6	6815884	1437.609		20-30	C	10-15	Light Brown	0	35	30	20	15	Weathered bedrock	Moist	Willows	Mid Slope
1160652	BoISW	443084.9	6815888	1441.997		30-40	C	10-15	Light Brown	0	25	25	30	20	Weathered bedrock	Moist	Willows	Mid Slope
1160653	BoISW	443116.6	6815930	1450.75		30-40	C	15-20	Light Brown	0	25	35	25	15	Weathered bedrock	Dry	Willows	Plateau
1160654	BoISW	443147.6	6815983	1449.268		10-20	C	10-15	Light Brown	0	45	20	15	20	Weathered bedrock	Dry	Willows	Mid Slope
1160655	BoISW	443170.2	6816019	1450.374		30-40	C	10-15	Light Grey	0	45	20	15	20	Weathered bedrock	Dry	Willows	Valley Lowland
1160656	BoISW	443201.1	6816048	1459.603		40-50	C	10-15	Light Grey	0	35	40	10	15	Weathered bedrock	Dry	Willows	Mid Slope
1160657	BoISW	443218.1	6816113	1479.457		20-30	C	10-15	Light Grey	0	75	0	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160658	BoISW	443248	6816140	1483.946		30-40	C	10-15	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Willows	Mid Slope
1160659	BoISW	443270.8	6816190	1503.394		20-30	C	10-15	Light Brown	5	35	20	10	30	Weathered bedrock	Dry	Willows	Mid Slope
1160660	BoISW	443283.3	6816235	1523.401		20-30	C	10-15	Light Brown	5	35	20	15	25	Weathered bedrock	Dry	Willows	Valley Lowland
1160661	BoISW	443316.1	6816277	1536.549		20-30	C	10-15	Light Brown	10	25	25	25	15	Weathered bedrock	Dry	Willows	Mid Slope
1160662	BoISW	443346.5	6816311	1552.395		20-30	C	10-15	Light Brown	5	40	35	10	10	Weathered bedrock	Dry	Willows	Mid Slope
1160663	BoISW	443374.5	6816367	1564.93		40-50	C	>30	Light Brown	0	20	30	45	5	Weathered bedrock	Moist	Willows	Mid Slope
1160664	BoISW	443403	6816404	1567.408		30-40	C	10-15	Light Brown	10	20	30	30	10	Weathered bedrock	Dry	Alpine	Mid Slope

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1160665	BoISW	442504.4	6815701	1419.226		40-50	C	>30	Light Brown	0	10	20	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160666	BoISW	442509.7	6815754	1432.008		20-30	C	10-15	Light Brown	0	30	10	30	30	Weathered bedrock	Moist	Willows	Valley Lowland
1160667	BoISW	442509.8	6815801	1437.627		40-50	C	20-25	Light Brown	0	70	0	0	30	Weathered bedrock	Dry	Evergreen	Mid Slope
1160668	BoISW	442591.3	6815878	1439.376		50-60	B/C	20-25	Light Grey	20	30	15	20	15	Weathered bedrock	Wet	Mixed forest	Plateau
1160669	BoISW	442633.8	6815915	1458.181		30-40	C	10-15	Light Grey	5	30	20	20	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160670	BoISW	442648.1	6815962	1451.829		20-30	B/C	10-15	Light Brown	25	20	20	0	35	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160671	BoISW	442692.1	6816000	1450.33		20-30	C	10-15	Light Brown	0	25	25	5	45	Weathered bedrock	Wet	Mixed forest	Plateau
1160672	BoISW	442721.4	6816036	1452.264		20-30	C	10-15	Light Brown	0	25	25	35	15	Weathered bedrock	Moist	Mixed forest	Plateau
1160673	BoISW	442747.5	6816075	1450.583		20-30	C	10-15	Light Brown	0	40	30	20	10	Weathered bedrock	Moist	Mixed forest	Plateau
1160674	BoISW	442783.4	6816118	1458.231		20-30	C	10-15	Light Brown	5	40	15	15	25	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160675	BoISW	442814.3	6816169	1474.887		20-30	C	5-10	Light Brown	0	30	30	20	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160676	BoISW	442843	6816197	1482.07		60-70	C	>30	Light Brown	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160677	BoISW	442876	6816237	1484.063		50-60	C	>30	Light Brown	0	30	25	0	45	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160701	BoINE	446290.4	6818493	1444.104		40-50	B/C	15-20	Dark Brown	20	20	20	20	20	Weathered bedrock	Partially Frozen	Willows	Mid Slope
1160702	BoINE	446263.5	6818577	1442.427		30-40	C	25-30	Light Brown	0	30	30	20	20	Weathered bedrock	Wet	Willows	Mid Slope
1160703	BoINE	446263.8	6818578	1446.537		40-50	C	>30	Light Brown	10	25	25	15	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160704	BoINE	446219.5	6818549	1436.043		40-50	C	>30	Light Brown	15	35	25	10	15	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160705	BoINE	446164.9	6818533	1429.343		40-50	C	20-25	Light Brown	5	25	25	20	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160706	BoINE	446118.3	6818516	1415.065		40-50	C	25-30	Light Grey	10	10	40	20	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160707	BoINE	446069.4	6818511	1407.198		40-50	C	>30	Light Brown	5	40	25	0	30	Weathered bedrock	Wet	Willows	Mid Slope
1160708	BoINE	446022.2	6818499	1394.752		20-30	C	15-20	Light Brown	15	60	35	0	0	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1160709	BoINE	445221.2	6818187	1257.097		20-30	C	20-25	Dark Grey	0	30	40	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160710	BoINE	445280.7	6818205	1268.109		50-60	C	>30	Light Brown	10	30	30	15	15	Till	Dry	Mixed forest	Mid Slope
1160711	BoINE	445317.5	6818233	1291.861		40-50	C	20-25	Dark Grey	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160712	BoINE	445363	6818242	1315.086		40-50	C	15-20	Dark Grey	0	30	20	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160713	BoINE	445412.3	6818258	1337.26		50-60	C	25-30	Dark Grey	0	40	20	30	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160714	BoINE	445461.6	6818281	1348.78		40-50	C	>30	Light Brown	10	30	20	20	20	Weathered bedrock	Wet	Mixed forest	Ridge Top
1160715	BoINE	445508.1	6818300	1356.627		30-40	C	25-30	Light Brown	0	20	30	20	25	Weathered bedrock	Wet	Mixed forest	Ridge Top
1160716	BoINE	445559.5	6818320	1348.604		40-50	C	>30	Dark Grey	0	20	30	40	10	Weathered bedrock	Wet	Mixed forest	Ridge Top
1160717	BoINE	445605.9	6818328	1351.214		20-30	C	10-15	Light Brown	0	40	20	10	30	Weathered bedrock	Wet	Mixed forest	Ridge Top
1160718	BoINE	445650	6818353	1339.984		40-50	C	>30	Light Brown	0	30	30	20	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160719	BoINE	445689.9	6818372	1321.025		50-60	C	10-15	Light Brown	0	20	30	30	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160720	BoINE	445745.9	6818387	1323.041		30-40	C	20-25	Light Brown	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160721	BoINE	445786.9	6818400	1326.719		50-60	B/C	20-25	Light Grey	25	25	25	25	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160722	BoINE	445831.7	6818425	1345.672		30-40	C	15-20	Light Brown	0	30	20	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160723	BoINE	445875.3	6818441	1350.198		>70	C	20-25	Light Grey	10	10	20	60	0	Weathered bedrock	Frozen	Willows	Mid Slope
1160724	BoINE	445929.3	6818452	1363.575		30-40	C	20-25	Light Grey	0	30	30	10	30	Weathered bedrock	Wet	Willows	Mid Slope
1160725	BoINE	446180.8	6818778	1446.377		20-30	B/C	10-15	Light Brown	20	20	20	20	20	Weathered bedrock	Moist	Willows	Mid Slope
1160726	BoINE	446092.5	6818728	1426.407		20-30	B/C	10-15	Light Brown	20	20	30	10	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160727	BoINE	446039.2	6818720	1419.421		>70	C	>30	Light Brown	0	20	30	50	0	Weathered bedrock	Dry	Marsh	Mid Slope
1160728	BoINE	445441.1	6818605	1361.851		30-40	C	>30	Light Brown	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Ridge Top
1160729	BoINE	445400.2	6818578	1355.667		20-30	C	25-30	Light Brown	0	20	30	30	20	Weathered bedrock	Wet	Mixed forest	Plateau

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1160730	BoINE	445351.7	6818556	1358.389		30-40	C	>30	Light Grey	0	25	25	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160731	BoINE	445308.7	6818549	1351.755		40-50	C	20-25	Light Grey	0	20	20	60	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160732	BoINE	445267.5	6818520	1309.144		20-30	C	20-25	Light Grey	10	40	40	0	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160733	BoINE	445216	6818502	1307.049		20-30	B/C	10-15	Light Brown	20	20	20	20	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160734	BoINE	445164.1	6818484	1285.393		30-40	C	20-25	Dark Grey	0	10	25	40	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160735	BoINE	445135.2	6818482	1276.356		30-40	C	20-25	Dark Grey	0	25	20	35	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160736	BoINE	445080.7	6818440	1260.593		40-50	C	25-30	Dark Grey	0	20	10	50	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160737	BoINE	445029.8	6818429	1246.949		40-50	C	>30	Light Grey	0	15	25	50	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160738	BoINE	444988.8	6818424	1230.611		40-50	C	>30	Light Grey	0	30	10	30	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160739	BoINE	445025.5	6818636	1260.711		50-60	C	20-25	Dark Grey	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160740	BoINE	445058	6818641	1272.482		30-40	C	20-25	Dark Grey	0	50	25	0	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160741	BoINE	445116	6818656	1294.676		40-50	C	25-30	Light Brown	5	25	30	20	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160742	BoINE	445155	6818686	1298.911		50-60	C	10-15	Light Brown	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160743	BoINE	445202	6818695	1328.755		50-60	C	10-15	Light Brown	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160744	BoINE	445253.3	6818716	1329.908		30-40	C	10-15	Light Brown	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160745	BoINE	445870.2	6820459	1642.966	talus slope caused low available soil	10-20	A/B	10-15	Light Brown	30	30	30	0	10	Talus/colluviu m	Wet	Alpine	Ridge Top
1160746	BoINE	445822.9	6820445	1660.914		10-20	B/C	10-15	Light Brown	25	50	25	0	0	Till	Moist	Alpine	Ridge Top
1160747	BoINE	445734.7	6820403	1616.231		0-10	B/C	5-10	Light Brown	20	20	20	0	40	Talus/colluviu m	Moist	Alpine	Mid Slope
1160748	BoINE	445687	6820394	1587.443		0-10	B/C	5-10	Light Brown	10	20	30	20	20	Talus/colluviu m	Moist	Alpine	Mid Slope
1160749	BoINE	445591.9	6820355	1516.201	talus	0-10	B/C	5-10	Light Brown	20	20	20	20	15	Talus/colluviu m	Moist	Alpine	Mid Slope
1160750	BoINE	445489.6	6820321	1459.919		10-20	B/C	10-15	Light Brown	20	40	0	0	40	Talus/colluviu m	Moist	Alpine	Mid Slope

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1160751	BoINE	445510.9	6818831	1356.849		30-40	C	10-15	Orange	15	25	25	15	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160752	BoINE	446004.3	6818698	1410.047		40-50	C	15-20	Light Brown	0	50	40	0	10	Weathered bedrock	Moist	Willows	Mid Slope
1160753	BoINE	445949.9	6818679	1395.873		30-40	C	15-20	Light Brown	0	40	0	30	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160754	BoINE	445796.5	6818642	1367.329	small valley with creek	20-30	C	10-15	Orange	0	25	30	30	10	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160755	BoINE	445768.4	6818614	1357.169		30-40	C	15-20	Orange	0	10	40	30	20	Till	Moist	Mixed forest	Mid Slope
1160756	BoINE	445723.3	6818600	1355.927		30-40	C	10-15	Orange	0	40	40	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160757	BoINE	445676.5	6818573	1338.907		40-50	C	20-25	Light Brown	0	30	30	30	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160758	BoINE	445626.1	6818555	1342.392		30-40	C	10-15	Light Brown	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160759	BoINE	445572.7	6818529	1354.858		20-30	C	10-15	Orange	0	40	30	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160760	BoINE	445526.1	6818517	1355.844		30-40	C	15-20	Light Brown	0	25	25	20	5	Weathered bedrock	Moist	Mixed forest	Ridge Top
1160761	BoINE	445487.5	6818498	1365.827		30-40	C	15-20	Light Brown	0	30	30	20	10	Weathered bedrock	Moist	Mixed forest	Ridge Top
1160762	BoINE	445435.2	6818478	1372.18		30-40	C	15-20	Light Brown	0	20	30	30	10	Weathered bedrock	Wet	Mixed forest	Ridge Top
1160763	BoINE	445391.7	6818463	1355.537	suden colour shift	30-40	C	15-20	Dark Grey	0	40	50	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160764	BoINE	445340.8	6818454	1352.211		50-60	C	25-30	Dark Grey	0	40	50	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160765	BoINE	445297.2	6818433	1338.87	sample is a mix of dark grey and orange soil	50-60	B/C	5-10	Dark Grey	0	40	40	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160766	BoINE	445378.1	6818785	1353.257		30-40	C	10-15	Light Brown	0	20	30	20	30	Weathered bedrock	Moist	Mixed forest	Ridge Top
1160767	BoINE	445427.9	6818801	1355.286		30-40	C	10-15	Orange	0	30	30	10	30	Weathered bedrock	Wet	Mixed forest	Ridge Top
1160768	BoINE	445474.9	6818816	1340.94		30-40	C	10-15	Light Grey	0	20	30	30	20	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160769	BoINE	446168.6	6820248	1544.73		30-40	B/C	15-20	Orange	0	25	40	25	10	Weathered bedrock	Moist	Alpine	Ridge Top
1160770	BoINE	446119.5	6820230	1540.242		30-40	B/C	10-15	Orange	20	25	25	30	0	Weathered bedrock	Moist	Alpine	Mid Slope
1160771	BoINE	446068.6	6820214	1544.001		20-30	C	5-10	Light Brown	15	25	25	25	10	Weathered bedrock	Moist	Willows	Mid Slope

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1160772	BoINE	446026.7	6820198	1537.772		30-40	C	15-20	Light Brown	15	10	50	0	25	Weathered bedrock	Moist	Willows	Mid Slope
1160773	BoINE	445974.5	6820184	1518.009		40-50	B/C	25-30	Light Brown	0	0	50	50	0	Weathered bedrock	Moist	Willows	Mid Slope
1160774	BoINE	445945.1	6820144	1503.068		20-30	B/C	5-10	Light Brown	10	70	10	0	10	Weathered bedrock	Dry	Willows	Mid Slope
1160775	BoINE	445888	6820155	1491.425	small sample rocky ground	30-40	C	10-15	Light Brown	20	50	10	0	20	Weathered bedrock	Dry	Willows	Mid Slope
1160776	BoINE	445791.2	6820107	1460.974		10-20	C	2-5	Orange	20	40	20	0	20	Weathered bedrock	Moist	Willows	Mid Slope
1160777	BoINE	445744.2	6820095	1448.014	small sample rocky ground	50-60	C	25-30	Light Brown	20	0	40	40	0	Weathered bedrock	Wet	Willows	Mid Slope
1160778	BoINE	445654.5	6820063	1421.133		20-30	B/C	10-15	Light Brown	20	25	25	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160779	BoINE	445508.6	6820010	1375.986		30-40	B/C	10-15	Light Grey	0	0	50	50	0	Weathered bedrock	Frozen	Mixed forest	Mid Slope
1160780	BoINE	445469.1	6819995	1368.965	creek adjacent	40-50	C	5-10	Dark Grey	0	0	50	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160781	BoINE	445282.3	6819918	1318.469	creek adjacent	>70	C	15-20	Dark Grey	20	0	40	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160782	BoINE	446253	6819580	1459.485	rusty seep st 11DH_57	0-10		2-5	Orange	0	0	0	50	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160783	BoINE	446260	6819315	1450.567	rusty sample from danielle	0-10	C	2-5	Orange	0	0	0	0	0	Weathered bedrock	Moist	Alpine	Mid Slope
1160784	BoINE	445767.3	6819787	1445.963		50-60	B/C	10-15	Light Grey	0	35	35	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160785	BoINE	445572.4	6819716	1391.607		50-60	B	10-15	Black	0	0	30	70	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1160786	BoINE	445474.1	6819672	1356.978		50-60	C	10-15	Orange	0	0	30	30	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160787	BoINE	445376.4	6819617	1334.103		50-60	C	20-25	Light Brown	0	0	45	0	55	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160788	BoINE	445285.2	6819583	1314		20-30	B/C	5-10	Light Grey	0	30	40	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160789	BoINE	445100.8	6819528	1293.75		40-50	B/C	10-15	Light Grey	0	0	40	40	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160790	BoINE	444812.1	6819412	1255.019		20-30	C	5-10	Orange	0	30	30	0	30	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160791	BoINE	444722.4	6819388	1234.215		30-40	B/C	5-10	Light Grey	0	0	0	50	50	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160792	BoINE	444628.8	6819345	1225.317		40-50	C	10-15	Light Grey	0	0	0	50	50	Weathered bedrock	Wet	Mixed forest	Mid Slope

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1160793	BoINE	444666.3	6819268	1227.988		40-50	C	10-15	Light Grey	0	0	40	60	0	Till	Moist	Mixed forest	Mid Slope
1160794	BoINE	444715.8	6819283	1236.849		20-30	C	10-15	Orange	0	0	40	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160795	BoINE	444759.6	6819301	1242.924		40-50	C	15-20	Orange	0	40	40	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160796	BoINE	444810	6819316	1243.737		30-40	C	10-15	Light Brown	0	40	40	0	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160797	BoINE	445676.9	6819427	1403.926		0-10	C	2-5	Light Brown	0	0	50	0	50	Talus/colluviu m	Dry	None	Mid Slope
1160798	BoINE	445490.3	6819353	1357.968		>70	C	10-15	Orange	0	0	25	25	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160799	BoINE	445396.5	6819323	1343.603		60-70	C	10-15	Orange	0	0	45	45	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160800	BoINE	445297.9	6819279	1328.19		30-40	C	5-10	Orange	0	0	40	40	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160801	BoINE	445272.8	6818651	1326.678		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160802	BoINE	445233	6818619	1313.237		20-30	C	10-15	Light Brown	25	60	0	15	0	Till	Partially Frozen	Mixed forest	Mid Slope
1160803	BoINE	445180.5	6818604	1304.01		30-40	C	10-15	Light Brown	25	50	0	25	0	Till	Moist	Mixed forest	Mid Slope
1160804	BoINE	445121.7	6818567	1288.397		30-40	C	10-15	Light Brown	0	65	0	35	0	Till	Moist	Mixed forest	Mid Slope
1160805	BoINE	445026.4	6818557	1253.884		20-30	C	10-15	Light Brown	0	50	0	0	0	Till	Moist	Mixed forest	Valley Lowland
1160806	BoINE	444997.3	6818530	1249.342		40-50	C	10-15	Dark Grey	0	60	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1160807	BoINE	444939.2	6818496	1227.487		30-40	C	10-15	Dark Grey	0	75	0	25	0	Till	Partially Frozen	Mixed forest	Valley Lowland
1160808	BoINE	444877.9	6818605	1240.274		40-50	C	10-15	Light Grey	0	60	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1160809	BoINE	444911.1	6818622	1236.148		50-60	C	10-15	Light Brown	0	50	0	50	0	Till	Wet	Mixed forest	Valley Lowland
1160810	BoINE	444963.2	6818631	1256.88		30-40	C	10-15	Light Brown	0	50	0	50	0	Till	Partially Frozen	Mixed forest	Valley Lowland
1160811	BoINE	445482.8	6818938	1360.39		40-50	C	10-15	Light Brown	25	50	0	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160812	BoINE	445483.4	6818936	1359.98		40-50	C	10-15	Light Brown	25	50	0	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160813	BoINE	445434.3	6818906	1353.781		10-20	C	10-15	Light Brown	0	75	0	25	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland

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1160814	BoINE	445397.7	6818892	1349.189		30-40	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1160815	BoINE	445342	6818876	1346.66		20-30	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Dry	Mixed forest	Ridge Top
1160816	BoINE	445289.8	6818866	1337.934	hard sample	30-40	C	10-15	Light Brown	25	50	0	25	0	Till	Wet	Mixed forest	Mid Slope
1160817	BoINE	445249.9	6818833	1327.322		20-30	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160818	BoINE	445211.3	6818825	1320.178		40-50	C	10-15	Light Brown	25	50	0	25	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160819	BoINE	445156.9	6818806	1314.649		30-40	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1160820	BoINE	445112.3	6818787	1306.352		40-50	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160821	BoINE	445060.1	6818775	1293.118		20-30	C	10-15	Light Brown	0	60	0	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160822	BoINE	445023.8	6818753	1286.912		20-30	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160823	BoINE	444968.1	6818743	1266.992		30-40	C	10-15	Light Brown	0	60	0	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160824	BoINE	444921.2	6818707	1260.959		20-30	C	10-15	Light Brown	0	60	0	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160825	BoINE	444884.5	6818702	1252.307		20-30	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160826	BoINE	444837.2	6818682	1241.485		30-40	C	10-15	Light Brown	20	40	0	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160827	BoINE	445287.9	6818744	1341.979		20-30	C	10-15	Light Brown	10	50	0	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160828	BoINE	445341.3	6818765	1351.407		20-30	C	10-15	Light Brown	20	50	0	30	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160829	BoINE	444967.4	6820007	1258.821		20-30	C	10-15	Light Brown	30	0	0	70	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1160830	BoINE	444875.9	6819991	1245.015		40-50	C	10-15	Light Brown	10	90	0	0	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1160831	BoINE	444833.7	6819971	1234.763		50-60	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160832	BoINE	444785.3	6819956	1232.725		50-60	C	10-15	Light Grey	0	60	0	40	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160833	BoINE	444763.1	6819736	1232.856		40-50	C	10-15	Light Grey	0	50	0	50	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160834	BoINE	444816.3	6819738	1242.901		30-40	C	10-15	Dark Brown	20	60	0	20	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland

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1160835	BoINE	444867.8	6819762	1249.48		50-60	C	10-15	Dark Grey	0	70	0	30	0	Till	Moist	Mixed forest	Valley Lowland
1160836	BoINE	444914.7	6819787	1255.619		50-60	C	10-15	Light Brown	10	60	0	30	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160837	BoINE	445101.3	6819847	1288.559	bad sample example from previous samples	50-60	C	10-15	Black	100	0	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160838	BoINE	445269.7	6819803	1315.217		40-50	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
1160839	BoINE	444881.3	6819675	1251.103		50-60	B/C	10-15	Dark Grey	0	30	0	70	0	Weathered bedrock	Partially Frozen	Mixed forest	Valley Lowland
1160840	BoINE	444795	6819640	1240.783		40-50	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160841	BoINE	444752.3	6819634	1233.857		30-40	C	10-15	Light Brown	0	50	0	50	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160842	BoINE	444699	6819603	1226.012		30-40	C	10-15	Dark Brown	20	30	0	50	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160843	BoINE	444655.6	6819468	1222.013		30-40	C	10-15	Light Brown	0	100	0	0	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160844	BoINE	445826.6	6819589	1454.866		30-40	C	10-15	Light Brown	0	70	0	30	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160845	BoINE	445791.1	6819573	1436.876		30-40	C	10-15	Light Brown	5	95	0	0	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1160846	BoINE	445728.9	6819562	1427.074		20-30	C	10-15	Light Brown	0	70	0	30	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160847	BoINE	445687.3	6819542	1415.218		50-60	C	10-15	Light Brown	10	70	0	20	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160848	BoINE	445634.4	6819526	1391.313		60-70	C	10-15	Light Brown	0	70	0	30	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1160849	BoINE	445550.8	6819496	1374.705		40-50	C	10-15	Dark Grey	40	0	0	60	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160850	BoINE	445506.2	6819487	1361.993		40-50	B/C	10-15	Light Brown	50	0	0	50	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160851	BoINE	445448	6820301	1422.053	talus. only available soil	10-20	B/C	10-15	Light Brown	30	30	30	0	10	Talus/colluvium	Moist	Alpine	Mid Slope
1160852	BoINE	445308.1	6820248	1339.252		30-40	C	15-20	Light Grey	10	20	0	30	20	Talus/colluvium	Wet	Mixed forest	Mid Slope
1160853	BoINE	445263.3	6820242	1327.01		30-40	C	15-20	Dark Grey	10	10	30	50	0	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
1160854	BoINE	445220	6820201	1318.349		40-50	C	10-15	Dark Grey	0	25	25	40	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160855	BoINE	445171.1	6820206	1308.51		0-10	B/C	5-10	Light Brown	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1160856	BoINE	445124.4	6820183	1301.482		30-40	C	15-20	Dark Grey	10	25	30	10	25	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
1160857	BoINE	445070.3	6820158	1281.933		30-40	C	15-20	Light Grey	10	10	30	40	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160858	BoINE	444979.4	6820130	1260.36	small size because permafrost	30-40	B/C	10-15	Light Grey	20	20	20	20	20	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
1160859	BoINE	444896.6	6820090	1250.701		20-30	B/C	10-15	Dark Brown	25	25	25	25	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160860	BoINE	444848.8	6820081	1235.216		40-50	B/C	15-20	Dark Brown	25	25	25	25	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1160861	BoINE	446365.5	6820079	1548.852	off line due to swamp	20-30	C	15-20	Dark Brown	0	35	35	0	30	Weathered bedrock	Moist	Alpine	Mid Slope
1160862	BoINE	446295.5	6820103	1542.724	close to stream/swamp	30-40	C	15-20	Dark Brown	10	20	40	0	30	Weathered bedrock	Wet	Willows	Mid Slope
1160863	BoINE	446252.1	6820059	1535.748	only available soil	40-50	A/B	20-25	Dark Brown	25	25	25	25	0	Weathered bedrock	Moist	Willows	Mid Slope
1160864	BoINE	446184.2	6820021	1531.589	swamp/stream	50-60	C	>30	Dark Grey	0	25	50	25	0	Weathered bedrock	Wet	Willows	Mid Slope
1160865	BoINE	446146.6	6820013	1520.056	swamp	40-50	B	25-30	Dark Grey	10	30	40	20	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1160866	BoINE	446102	6820002	1513.007	swamp	40-50	B/C	25-30	Dark Grey	20	20	20	20	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160867	BoINE	445954.4	6819944	1504.783		20-30	C	15-20	Light Brown	10	30	30	0	30	Weathered bedrock	Moist	Willows	Mid Slope
1160868	BoINE	445884.5	6819946	1499.566		30-40	C	15-20	Dark Brown	20	30	30	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160869	BoINE	445856.8	6819939	1494.682		10-20	B/C	10-15	Dark Brown	20	50	30	0	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160870	BoINE	445825	6819909	1472.503		50-60	C	10-15	Light Brown	10	10	40	40	0	Weathered bedrock	Moist	Willows	Mid Slope
1160871	BoINE	445709.4	6819879	1432.137	near stream	20-30	B/C	10-15	Light Brown	10	20	30	40	0	(glacio)-fluvial	Wet	Willows	Mid Slope
1160872	BoINE	445635.3	6819845	1417.13		10-20	B/C	10-15	Light Brown	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160873	BoINE	445589.3	6819824	1394.207		40-50	B	25-30	Light Brown	20	20	20	0	40	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160874	BoINE	445530.1	6819813	1374.249		30-40	C	25-30	Dark Brown	10	10	10	50	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160875	BoINE	445483.9	6819789	1364.984		30-40	C	15-20	Dark Grey	0	10	30	45	15	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160876	BoINE	445441.1	6819768	1340.248		40-50	C	>30	Light Grey	10	50	20	0	20	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1160877	BoINE	445440.6	6819771	1352.795		30-40	C	25-30	Light Brown	0	40	30	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160878	BoINE	445847	6819706	1466.07		30-40	B	15-20	Dark Brown	20	20	20	20	20	Weathered bedrock	Wet	Willows	Mid Slope
1160879	BoINE	445785.1	6819685	1454.449		30-40	C	20-25	Light Brown	10	20	30	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160880	BoINE	445738.9	6819669	1438.024		20-30	C	15-20	Light Brown	10	20	20	20	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160881	BoINE	445696.5	6819652	1420.133		30-40	C	15-20	Light Brown	0	30	20	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160882	BoINE	445651.3	6819625	1412.769		30-40	C	20-25	Light Brown	15	25	0	0	60	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160883	BoINE	445599.7	6819610	1393.221		40-50	C	20-25	Light Brown	0	25	25	30	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160884	BoINE	445553.6	6819594	1376.319		40-50	C	25-30	Light Brown	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160885	BoINE	445505.9	6819583	1362.248		30-40	C	15-20	Light Brown	0	25	35	0	40	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160886	BoINE	445459.5	6819564	1349.691		40-50	C	20-25	Light Brown	10	25	25	20	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160887	BoINE	445420	6819548	1343.235		40-50	C	20-25	Light Grey	0	20	20	40	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160888	BoINE	445372.9	6819525	1331.777		50-60	C	>30	Light Grey	10	10	30	30	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160889	BoINE	445321.4	6819508	1323.924		40-50	B/C	25-30	Dark Grey	25	25	25	25	0	Till	Frozen	Mixed forest	Mid Slope
1160890	BoINE	445270.3	6819489	1314.685		40-50	B/C	25-30	Dark Grey	20	20	20	20	20	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
1160891	BoINE	445180.9	6819458	1305.312		40-50	B/C	25-30	Dark Grey	25	10	25	10	30	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
1160892	BoINE	445136.4	6819455	1301.131		20-30	C	10-15	Light Grey	10	40	25	0	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160893	BoINE	445087	6819408	1290.822		30-40	C	15-20	Light Grey	0	30	20	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160894	BoINE	445045.2	6819407	1279.771		30-40	C	10-15	Light Grey	0	20	40	20	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160895	BoINE	444996.3	6819389	1276.717		30-40	C	10-15	Light Grey	0	20	20	30	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160896	BoINE	444949.7	6819361	1269.794		30-40	B/C	15-20	Dark Grey	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160897	BoINE	446082.5	6819343	1477.61		40-50	C	20-25	Light Grey	10	20	30	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope

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1160898	BoINE	446026.5	6819324	1481.088		30-40	C	20-25	Dark Grey	10	20	20	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160899	BoINE	445976.9	6819318	1463.995		30-40	B/C	20-25	Light Grey	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160900	BoINE	445929.5	6819313	1457.549		20-30	C	15-20	Dark Brown	0	25	50	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160901	BoINE	445427.6	6819652	1341.629		40-50	C	15-20	Light Brown	0	30	10	20	40	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160902	BoINE	445335.7	6819625	1322.579		50-60	C	>30	Dark Grey	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160903	BoINE	445156.5	6819544	1294.952	sample is from 2 holes	30-40	C	15-20	Light Brown	0	20	10	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160904	BoINE	444770.7	6819406	1245.915		20-30	C	25-30	Light Brown	0	20	30	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160905	BoINE	444771.9	6819405	1245.911	duplicate sample	20-30	C	25-30	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160906	BoINE	444658.4	6819157	1222.497		30-40	C	15-20	Light Brown	0	10	30	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160907	BoINE	444746.1	6819195	1237.116		30-40	C	15-20	Dark Grey	0	10	30	40	20	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1160908	BoINE	444858.9	6819219	1260.392		40-50	C	20-25	Light Brown	0	10	30	40	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160909	BoINE	445914.5	6819511	1463.647		40-50	C	20-25	Dark Brown	0	30	20	20	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160910	BoINE	445820.4	6819479	1440.58		40-50	C	25-30	Light Brown	0	30	10	20	40	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160911	BoINE	445620	6819416	1388.502		>70	C	>30	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160912	BoINE	445438.4	6819344	1355.2		40-50	C	20-25	Light Brown	0	30	10	10	50	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160913	BoINE	445337.1	6819310	1335.176		20-30	C	25-30	Light Brown	0	30	10	5	55	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160914	BoINE	445250.9	6819262	1324.245		20-30	C	20-25	Light Brown	0	20	30	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160915	BoINE	445058.8	6819204	1298.56		40-50	C	20-25	Light Brown	0	10	30	30	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160916	BoINE	444868.8	6819126	1268.377		20-30	C	20-25	Light Brown	0	40	10	5	45	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160917	BoINE	444779.5	6819093	1247.707		30-40	C	>30	Dark Grey	0	30	10	30	30	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1160918	BoINE	444725	6818962	1235	Trimble did not record data for sample. Location approximation only.													
1160919	BoINE	444776.1	6818983	1250.622		20-30	C	15-20	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160920	BoINE	444825.8	6818999	1261.726		40-50	C	>30	Light Brown	0	20	30	20	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160921	BoINE	444872.9	6819025	1272.512		30-40	C	25-30	Dark Grey	0	20	30	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160922	BoINE	444842.5	6818801	1250.354		40-50	C	>30	Dark Grey	0	40	10	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160923	BoINE	444940.9	6818830	1272.117		30-40	C	>30	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160924	BoINE	445031.4	6818862	1296.173		20-30	C	25-30	Dark Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160925	BoINE	445121	6818896	1311.857		40-50	C	>30	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160926	BoINE	445213.5	6818937	1332.3		20-30	C	10-15	Light Brown	0	40	10	5	45	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160927	BoINE	445316.5	6818973	1344.238	sampled from 2 holes.	20-30	C	20-25	Light Brown	0	30	10	5	55	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160928	BoINE	445410.9	6819028	1348.829		30-40	C	15-20	Light Brown	0	10	20	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160929	BoINE	445500.9	6819040	1367.884		40-50	C	>30	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160930	BoINE	445595.8	6819074	1391.731		20-30	C	25-30	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160931	BoINE	445688.7	6819120	1412.701		30-40	C	>30	Light Brown	0	30	20	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160932	BoINE	445778.8	6819149	1422.284		30-40	C	25-30	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160933	BoINE	445878.3	6819191	1455.782	sampled from 2 holes	20-30	C	20-25	Light Brown	0	10	30	20	40	Weathered bedrock	Moist	Mixed forest	Plateau
1160934	unkwn	0	0	-999.99														
1160951	BoINE	445391	6819744	1339.498		40-50	C	15-20	Light Grey	0	0	50	0	50	Till	Wet	Mixed forest	Mid Slope
1160952	BoINE	445344.3	6819732	1333.194		30-40	C	15-20	Light Brown	0	0	25	25	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160953	BoINE	445295.5	6819711	1321.585		20-30	C	5-10	Orange	0	30	30	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1160954	BoINE	445256.4	6819693	1311.568		40-50	C	10-15	Light Grey	0	0	40	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160955	BoINE	445121.5	6819651	1293.239		30-40	B/C	5-10	Dark Grey	20	50	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160956	BoINE	445066.8	6819616	1286.178	hard to find a sample due to permafrost	20-30	B	5-10	Light Brown	0	30	30	0	30	Till	Partially Frozen	Mixed forest	Mid Slope
1160957	BoINE	445015.2	6819612	1273.721		30-40	C	5-10	Dark Grey	0	25	25	25	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1160958	BoINE	444875.6	6819552	1248.58	small sample marshy ground	30-40	B	5-10	Black	0	0	50	50	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1160959	BoINE	444829.1	6819542	1247.156		30-40	C	10-15	Orange	0	30	50	0	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160960	BoINE	444739.4	6819508	1240.584		40-50	C	15-20	Orange	0	40	45	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160961	BoINE	445207.6	6819254	1316.824		30-40	B/C	10-15	Orange	0	0	40	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160962	BoINE	445205	6819253	1317.717		20-30	B/C	5-10	Orange	0	0	40	40	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160963	BoINE	445115.6	6819213	1303.057		20-30	C	5-10	Dark Grey	20	20	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160964	BoINE	445019	6819178	1298.422	small sample rocky ground	30-40	B	10-15	Dark Grey	0	0	30	30	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160965	BoINE	444931	6819142	1279.633		50-60	C	15-20	Light Brown	0	30	30	0	30	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160966	BoINE	444835.1	6819111	1263.035		30-40	C	15-20	Orange	0	40	40	0	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1160967	BoINE	444738.3	6819080	1243.581		50-60	C	20-25	Orange	0	0	40	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160968	BoINE	444715.6	6818850	1233.775		30-40	C	15-20	Orange	0	0	40	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160969	BoINE	444768.6	6818873	1253.066		30-40	C	10-15	Dark Grey	0	50	40	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160970	BoINE	444808.3	6818888	1259.951		30-40	B/C	10-15	Orange	0	0	40	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160971	BoINE	444862.3	6818897	1267.857		30-40	C	15-20	Dark Grey	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1160972	BoINE	444900.5	6818924	1269.017		30-40	C	10-15	Orange	0	0	45	45	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161001	BoISW	445466	6815821	1285.4		30-40	c	15-20	light Gray	0	25	25	20	30	weathered bedrock	moist	alpine	mid slope
1161002	BoISW	445429	6815783	1279.9		20-30	c	5-10	light Gray	5	30	20	10	35	weathered bedrock	moist	alpine	mid slope

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1161003	BoISW	445365	6815707	1258.7		40-50	c	40-50	dark grey	5	30	30	10	25	weathered bedrock	moist	evrgreen forest	valley bottom
1161004	BoISW	445344	6815666	1256.3		50-60	b/c	20-25	light brown	0	15	15	70	0	till	moist	evrgreen forest	valley bottom
1161005	BoISW	445277	6815594	1263.5		30-40	c	5-10	light brown	0	35	35	15	15	weathered bedrock	moist	alpine	mid slope
1161006	BoISW	445256	6815545	1265		20-30	c	20-25	light brown	5	35	30	30	0	weathered bedrock	dry	willows	mid slope
1161007	BoISW	445214	6815501	1266.2		40-50	c	20-25	dark brown	0	35	50	10	5	weathered bedrock	moist	evrgreen forest	mid slope
1161008	BoISW	445191	6815465	1283.2		30-40	c	15-20	light brown	0	60	15	15	10	weathered bedrock	moist	evrgreen forest	mid slope
1161009	BoISW	445153	6815427	1304.9		20-30	c	5-10	light grey	0	30	20	20	30	weathered bedrock	moist	evrgreen forest	mid slope
1161010	BoISW	445120	6815386	1322.9		30-40	c	5-10	light brown	0	30	30	30	10	weathered bedrock	moist	evrgreen forest	mid slope
1161011	BoISW	445100	6815351	1339		20-30	c	15-20	light brown	0	30	30	30	10	weathered bedrock	partially frozen	evrgreen forest	mid slope
1161012	BoISW	445034	6815276	1375.3		10-20	c	5-10	light brown	0	15	60	10	15	weathered bedrock	dry	alpine	ridge top
1161013	BoISW	445000	6815235	1383.5		30-40	c	15-20	light brown	0	20	20	50	10	weathered bedrock	moist	evrgreen forest	ridge top
1161014	BoISW	444976	6815190	1383.7		30-40	c	20-25	light brown	0	30	30	30	10	weathered bedrock	moist	evergreen forest	plateau
1161015	BoISW	444941	6815150	1390.4		20-30	c	15-20	light brown	0	25	25	40	10	weathered bedrock	moist	evrgreen forest	ridge top
1161016	BoISW	444907	6815114	1391.9		40-50	c	5-10	light brown	0	5	10	80	5	weathered bedrock	partially frozen	evrgreen forest	bench
1161017	BoISW	444874	6815072	1405.6		20-30	c	5-10	light brown	0	5	10	80	5	weathered bedrock	moist	evrgreen forest	bench
1161018	BoISW	444835	6815037	1419.3		30-40	c	5-10	light brown	5	10	50	25	10	weathered bedrock	moist	alpine	mid slope
1161019	BoISW	444816	6815000	1427.7		40-50	b/c	25-30	dark brown	10	20	30	30	10	weathered bedrock	moist	alpine	mid slope
1161020	BoISW	444784	6814958	1431		20-30	b/c	5-10	dark brown	15	20	20	20	15	weathered bedrock	moist	alpine	mid slope
1161021	BoISW	444747	6814923	1435.4		30-40	b/c	5-10	dark brown	10	20	30	30	10	weathered bedrock	moist	alpine	mid slope
1161022	BoISW	443650	6816417	1507.7		20-30	c	5-10	dark brown	5	20	30	30	15	weathered bedrock	moist	willows	mid slope
1161023	BoISW	443683	6816460	1495.7		20-30	c	2-5	light brown	0	10	40	40	10	weathered bedrock	moist	willows	mid slope

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1161024	BoISW	443707	6816499	1487.8		30-40	c	15-20	light brown	0	30	40	20	10	weathered bedrock	moist	willows	mid slope
1161025	BoISW	443738	6816534	1471.2		20-30	c	5-10	light brown	0	35	25	25	15	weathered bedrock	moist	willows	mid slope
1161026	BoISW	443771	6816579	1451.5		30-40	c	5-10	dark brown	0	35	15	15	35	weathered bedrock	frozen	evergreen forest	mid slope
1161027	BoISW	443808	6816622	1442.1		10-20	c	2-5	dark grey	0	35	35	0	30	weathered bedrock	frozen	evergreen forest	mid slope
1161028	BoISW	443873	6816696	1414.5		40-50	b	25-30	dark grey	5	25	25	25	20	fluvial	saturated	evergreen forest	mid slope
1161029	BoISW	443894	6816740	1402.2		30-40	c	15-20	dark brown	0	30	30	30	10	weathered bedrock	wet	evergreen forest	mid slope
1161030	BoISW	443921	6816777	1388		30-40	c	10-15	dark grey	0	35	35	15	15	weathered bedrock	wet	evergreen forest	mid slope
1161031	BoISW	443951	6816808	1366.1		30-40	c	20-25	light brown	0	25	25	25	25	weathered bedrock	moist	evergreen forest	mid slope
1161032	BoISW	443988	6816848	1356.8		20-30	c	5-10	dark brown	0	25	20	20	35	weathered bedrock	moist	evergreen forest	mid slope
1161033	BoISW	445135	6816065	1319.5		30-40	c	15-20	dark grey	0	5	30	50	15	weathered bedrock	moist	evergreen forest	mid slope
1161034	BoISW	445107	6816035	1328.2		50-60	c	25-30	dark grey	0	5	30	50	15	weathered bedrock	moist	evergreen forest	mid slope
1161035	BoISW	445076	6815998	1336.1		20-30	c	5-10	light brown	0	40	30	10	20	weathered bedrock	moist	willows	mid slope
1161036	BoISW	445036	6815963	1350.3		0-10	c	5-10	light brown	0	35	35	30	0	weathered bedrock	dry	alpine	ridge top
1161037	BoISW	445012	6815922	1335.6		30-40	c	25-30	light brown	0	20	35	30	15	weathered bedrock	dry	alpine	mid slope
1161038	BoISW	444991	6815870	1331.1		20-30	c	5-10	light brown	0	25	35	15	25	weathered bedrock	dry	evergreen forest	mid slope
1161039	BoISW	444954	6815835	1323.9		30-40	c	15-20	light brown	0	40	30	10	20	weathered bedrock	dry	evergreen forest	mid slope
1161040	BoISW	444933	6815799	1317.1		20-30	c	15-20	light brown	0	20	60	10	10	weathered bedrock	dry	evergreen forest	mid slope
1161041	BoISW	444897	6815758	1323.6		30-40	c	10-15	light brown	0	25	25	25	25	weathered bedrock	dry	evergreen forest	ridge top
1161042	BoISW	444869	6815716	1313		30-40	b/c	10-15	light brown	10	5	70	5	10	weathered bedrock	dry	evergreen forest	ridge top
1161043	BoISW	444806	6815638	1301		30-40	c	5-10	dark brown	5	15	20	30	30	weathered bedrock	partially frozen	evergreen forest	valley bottom
1161044	BoISW	444786	6815595	1291.2		30-40	c	15-20	light brown	5	25	30	30	10	weathered bedrock	partially frozen	evergreen forest	valley bottom

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1161045	BoISW	444755	6815555	1283.5		30-40	c	5-10	light brown	0	25	35	25	10	fluvial	dry	evergreen forest	valley bottom
1161046	BoISW	444719	6815513	1280.6		10-20	b/c	5-10	dark brown	5	25	25	25	20	fluvial	moist	evergreen forest	valley bottom
1161047	BoISW	442970	6815699	1384.698		10-20	C	10-15	Light Brown	0	15	35	35	15	Weathered bedrock	Dry	Willows	Valley Lowland
1161048	BoISW	443022.8	6815768	1398.626		30-40	C	20-25	Light Brown	0	25	35	15	15	Weathered bedrock	Dry	Evergreen	Mid Slope
1161049	BoISW	443038.6	6815815	1410.917		30-40	C	10-15	Light Grey	10	25	20	20	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161050	BoISW	443066	6815848	1429.684		30-40	C	10-15	Light Grey	0	20	30	40	10	Weathered bedrock	Dry	Willows	Mid Slope
1161051	BoISW	444960.8	6816153	1338.126		20-30	C	5-10	Dark Brown	0	40	30	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161052	BoISW	444921.5	6816114	1343.653		30-40	C	10-15	Dark Grey	0	40	30	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161053	BoISW	444885.3	6816076	1354.05		30-40	C	20-25	Dark Grey	0	30	35	30	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161054	BoISW	444841.6	6816048	1360.609		50-60	C	15-20	Dark Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161055	BoISW	444814.7	6816007	1365.985		30-40	B/C	5-10	Dark Grey	0	25	25	40	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161056	BoISW	444777.1	6815969	1374.259		30-40	C	10-15	Dark Brown	0	25	30	30	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161057	BoISW	444744.9	6815922	1371.783	could not get deeper due to shallow bedrock	20-30	B/C	5-10	Dark Grey	0	50	20	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161058	BoISW	444694.7	6815849	1365.943		20-30	C	5-10	Dark Brown	0	50	20	15	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161059	BoISW	444671.6	6815807	1358.99		30-40	C	5-10	Light Brown	0	50	20	20	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161060	BoISW	444651.2	6815754	1345.037		30-40	C	5-10	Light Brown	0	50	20	20	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161061	BoISW	444591.1	6815677	1332.576		40-50	C	20-25	Light Brown	0	20	30	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161062	BoISW	444584.9	6815623	1317.898		40-50	C	20-25	Light Brown	0	40	30	30	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161063	BoISW	444563.8	6815559	1292.645		40-50	C	10-15	Light Brown	0	50	30	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161064	BoISW	444414.6	6815373	1408.193		30-40	B	10-15	Dark Brown	10	30	25	25	5	Weathered bedrock	Partially Frozen	Alpine	Mid Slope
1161065	BoISW	443725.4	6816166	1473.394		30-40	C	10-15	Light Brown	0	20	40	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope

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1161066	BoISW	443700.4	6816127	1466.059		30-40	C	10-15	Dark Grey	0	20	40	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161067	BoISW	443666.9	6816091	1458.661		20-30	C	5-10	Dark Brown	0	50	25	20	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161068	BoISW	443639.1	6816047	1454.367		20-30	C	5-10	Dark Brown	0	50	25	20	5	Till	Moist	Mixed forest	Mid Slope
1161069	BoISW	443600.3	6816007	1457.152		20-30	C	10-15	Light Brown	0	50	30	15	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161070	BoISW	443576.9	6815977	1446.694		20-30	B/C	5-10	Light Grey	0	40	40	20	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161071	BoISW	443550	6815919	1431.218	mix of dark and light brown	30-40	B/C	10-15	Dark Brown	0	30	40	30	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161072	BoISW	443488.5	6815850	1413.247		30-40	C	10-15	Light Brown	0	30	30	30	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161073	BoISW	443456.1	6815805	1411.544		30-40	C	15-20	Light Brown	0	20	50	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161074	BoISW	443424.6	6815756	1410.443		30-40	C	15-20	Light Brown	0	30	40	25	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161075	BoISW	443403.3	6815718	1402.248	colour is more of a light grey- brown	30-40	C	15-20	Light Grey	0	20	40	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161076	BoISW	443369.3	6815685	1391.114		30-40	B/C	10-15	Light Brown	0	40	30	25	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161077	BoISW	443340.7	6815648	1364.795	on talus slope. had dug to get sample	10-20	C	5-10	Light Brown	0	40	20	20	20	Talus/colluviu m	Dry	Mixed forest	Mid Slope
1161078	BoISW	443238.9	6815589	1395.768	possibly a dried out stream bed	30-40	B/C	15-20	Light Brown	0	30	30	40	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1161079	BoISW	443151.6	6815536	1409.151	deep as i could go. permafrost below	20-30	C	10-15	Dark Brown	0	30	30	30	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161080	BoISW	443073.7	6815465	1463.832	permafrost just below sample	20-30	B/C	10-15	Dark Brown	0	10	45	45	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161081	BoISW	443894.1	6814775	1664.525		20-30	C	10-15	Light Brown	0	10	50	40	0	Weathered bedrock	Dry	Alpine	Ridge Top
1161082	BoISW	443921.9	6814807	1669.962		20-30	C	10-15	Light Brown	0	25	35	30	10	Weathered bedrock	Moist	Alpine	Plateau
1161083	BoISW	443958.1	6814845	1667.995	deep ss possible. below is permafrost	30-40	B/C	15-20	Light Grey	0	10	20	70	0	Weathered bedrock	Dry	Alpine	Plateau
1161084	BoISW	443987.2	6814891	1663.203		30-40	C	15-20	Light Brown	0	40	20	40	0	Weathered bedrock	Wet	Alpine	Ridge Top
1161085	BoISW	444009.2	6814933	1650.807		20-30	B/C	5-10	Dark Brown	5	50	20	15	10	Weathered bedrock	Moist	Alpine	Ridge Top
1161086	BoISW	444072.1	6815012	1605.6	brown-grey clay that extends until permafrost	30-40	C	10-15	Dark Brown	0	0	15	80	5	Weathered bedrock	Wet	Alpine	Ridge Top

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1161087	BoISW	444103.9	6815050	1593.477		20-30	C	5-10	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Alpine	Plateau
1161088	BoISW	444138.7	6815088	1591.267		30-40	C	10-15	Dark Brown	0	25	20	30	25	Weathered bedrock	Moist	Alpine	Mid Slope
1161089	BoISW	444193.4	6815155	1555.27	only soil is found between rocks on this talus cliff	40-50	C	15-20	Dark Brown	5	35	15	15	30	Talus/colluviu m	Moist	Alpine	Mid Slope
1161090	BoISW	444329.5	6815317	1453.851		30-40	C	15-20	Dark Brown	5	40	20	25	10	Weathered bedrock	Wet	Alpine	Mid Slope
1161091	BoISW	444362.5	6815350	1440.62	found under organic layer(below moss) on rocky/talus slope	20-30	B/C	5-10	Light Brown	0	10	15	75	0	Talus/colluviu m	Wet	Alpine	Mid Slope
1161092	BoISW	444583.7	6816320	1341.246		40-50	C	15-20	Dark Brown	65	0	15	10	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161093	BoISW	444511.4	6816243	1360.957		30-40	C	5-10	Light Brown	0	50	25	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161094	BoISW	444460.5	6816161	1401.03		20-30	C	10-15	Light Brown	0	60	25	5	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161095	BoISW	444410.8	6816070	1408.44		20-30	C	10-15	Dark Brown	0	65	20	10	5	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161096	BoISW	444358.2	6815987	1408.761		30-40	B/C	10-15	Light Brown	0	50	25	20	5	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161097	BoISW	444297.1	6815912	1414.881		30-40	C	15-20	Light Brown	0	40	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161098	BoISW	444206.8	6815851	1402.693		20-30	C	10-15	Light Grey	0	45	30	20	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161099	BoISW	444148.3	6815769	1391.3		30-40	B/C	15-20	Dark Brown	5	40	30	20	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161100	BoISW	444095.5	6815687	1371.619		30-40	C	10-15	Dark Grey	5	30	30	30	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161101	BoISW	445307.2	6815949	1310.347		50-60	B/C	20-25	Dark Grey	10	10	20	50	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161102	BoISW	445276.5	6815905	1306.37		30-40	C	15-20	Light Grey	0	50	25	0	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161103	BoISW	445248.6	6815862	1300.418		40-50	C	15-20	Dark Brown	5	20	30	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161104	BoISW	445214	6815814	1293.503		40-50	C	20-25	Dark Grey	5	30	20	10	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161105	BoISW	445182.6	6815783	1288.443		30-40	B/C	15-20	Dark Grey	5	45	20	0	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161106	BoISW	445157.7	6815740	1286.401		30-40	C	15-20	Yellow	0	50	30	0	20	Weathered bedrock	Moist	Mixed forest	Valley Lowland

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1161107	BoISW	445124.7	6815704	1286.391		20-30	C	10-15	Yellow	5	30	20	20	25	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161108	BoISW	445104.5	6815682	1296.72		60-70	B/C	15-20	Dark Brown	10	10	50	30	0	(glacio)-fluvial	Moist	Mixed forest	Valley Lowland
1161109	BoISW	445060	6815636	1292.377		40-50	B/C	>30	Light Brown	10	20	30	40	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161110	BoISW	445024.9	6815595	1299.669		40-50	C	>30	Light Brown	0	30	25	20	25	Weathered bedrock	Moist	Willows	Mid Slope
1161111	BoISW	445004.6	6815536	1297.214		20-30	B/C	10-15	Light Brown	5	60	20	0	15	Weathered bedrock	Dry	Willows	Valley Lowland
1161112	BoISW	444972	6815515	1284.382	river bank	30-40	B/C	10-15	Light Brown	20	50	20	0	10	(glacio)-fluvial	Moist	Mixed forest	Valley Lowland
1161113	BoISW	444937.8	6815473	1289.256		20-30	B/C	15-20	Dark Grey	25	25	25	0	0	Talus/colluviu m	Moist	Willows	Mid Slope
1161114	BoISW	444907.6	6815441	1324.229		50-60	B/C	15-20	Dark Brown	25	25	25	0	25	Talus/colluviu m	Moist	Deciduous	Mid Slope
1161115	BoISW	444849.4	6815345	1387.47		20-30	B/C	10-15	Dark Brown	25	25	10	0	40	Talus/colluviu m	Moist	Alpine	Mid Slope
1161116	BoISW	444816.2	6815314	1402.755		20-30	C	10-15	Yellow	0	30	40	0	30	Talus/colluviu m	Moist	Alpine	Mid Slope
1161117	BoISW	444780.6	6815268	1415.537		20-30	B/C	10-15	Light Brown	20	25	30	0	25	Talus/colluviu m	Moist	Alpine	Mid Slope
1161118	BoISW	444755.5	6815237	1428.978		30-40	C	15-20	Dark Brown	10	30	20	0	40	Talus/colluviu m	Moist	Alpine	Mid Slope
1161119	BoISW	444723.5	6815202	1461.465		40-50	C	20-25	Dark Brown	10	20	30	20	20	Talus/colluviu m	Moist	Alpine	Mid Slope
1161120	BoISW	444693.5	6815148	1475.679		30-40	B/C	15-20	Dark Brown	10	20	40	0	30	Talus/colluviu m	Moist	Alpine	Mid Slope
1161121	BoISW	443735.8	6816215	1474.77		30-40	C	20-25	Dark Grey	10	20	30	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161122	BoISW	443762.6	6816277	1478.962		40-50	B/C	15-20	Dark Grey	15	20	20	25	30	Weathered bedrock	Moist	Mixed forest	Ridge Top
1161123	BoISW	443788.8	6816310	1481.38		40-50	C	15-20	Dark Grey	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Ridge Top
1161124	BoISW	443826.5	6816341	1467.863		30-40	C	25-30	Dark Grey	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161125	BoISW	443854.4	6816384	1466.839		30-40	C	20-25	Dark Grey	10	30	20	10	30	Weathered bedrock	Moist	Mixed forest	Ridge Top
1161126	BoISW	443892.1	6816423	1460.986	colour change from AJ1350	30-40	C	25-30	Orange	0	25	25	25	25	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161127	BoISW	443917	6816461	1450.752		30-40	C	25-30	Dark Brown	5	25	20	10	30	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1161128	BoISW	443954.2	6816495	1438.109		40-50	C	>30	Dark Grey	10	25	25	25	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161129	BoISW	443993.6	6816538	1426.902		20-30	C	20-25	Dark Grey	0	20	20	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161130	BoISW	444021.1	6816582	1417.905		20-30	C	15-20	Orange	5	20	25	40	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161131	BoISW	444049.4	6816613	1409.429		30-40	C	>30	Dark Brown	10	25	25	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161132	BoISW	444092.1	6816660	1387.656		40-50	C	15-20	Yellow	0	30	20	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161133	BoISW	444116.9	6816694	1372.697		40-50	C	>30	Dark Grey	5	30	15	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161134	BoISW	444144	6816728	1357.865		40-50	C	>30	Dark Grey	5	25	30	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161135	BoISW	444290.8	6816606	1359.727		50-60	B/C	10-15	Dark Grey	20	20	20	20	20	(glacio)-fluvial	Frozen	Willows	Mid Slope
1161136	BoISW	444277.7	6816560	1366.08		50-60	C	15-20	Dark Grey	10	20	30	40	0	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
1161137	BoISW	444233.1	6816523	1379.156		30-40	C	20-25	Dark Grey	10	20	20	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161138	BoISW	444213	6816491	1394.057		40-50	C	10-15	Dark Grey	0	20	20	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161139	BoISW	444186.3	6816441	1415.77		10-20	C	15-20	Dark Brown	10	30	10	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161140	BoISW	444144.8	6816412	1428.538		20-30	C	15-20	Dark Brown	5	35	20	0	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161141	BoISW	444117.9	6816351	1430.622		30-40	C	15-20	Light Brown	0	15	25	40	20	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161142	BoISW	444087.1	6816331	1431.468		30-40	C	25-30	Dark Grey	5	15	25	25	30	Weathered bedrock	Moist	Mixed forest	Ridge Top
1161143	BoISW	444051.6	6816283	1442.52		20-30	B/C	25-30	Light Brown	10	20	30	40	0	Weathered bedrock	Partially Frozen	Mixed forest	Ridge Top
1161144	BoISW	444024	6816247	1443.067		30-40	C	20-25	Dark Grey	0	40	20	0	40	Weathered bedrock	Moist	Mixed forest	Ridge Top
1161145	BoISW	444168.8	6814491	1562.749		20-30	B/C	25-30	Dark Brown	20	40	10	0	30	Talus/colluviu m	Dry	Alpine	Mid Slope
1161146	BoISW	444197.8	6814530	1576.607		30-40	B/C	25-30	Dark Brown	20	30	10	0	40	Weathered bedrock	Moist	Alpine	Mid Slope
1161147	BoISW	444225.2	6814557	1582.131		30-40	B/C	15-20	Dark Brown	10	20	30	25	15	Weathered bedrock	Moist	Alpine	Mid Slope
1161148	BoISW	444265.7	6814608	1583.463		20-30	C	15-20	Dark Brown	10	40	20	0	30	Weathered bedrock	Moist	Alpine	Mid Slope

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1161149	BoISW	444290.2	6814647	1584.193		30-40	C	15-20	Light Brown	10	20	30	30	10	Weathered bedrock	Partially Frozen	Alpine	Mid Slope
1161150	BoISW	444338.4	6814691	1591.41		40-50	C	20-25	Dark Brown	10	20	30	40	0	Weathered bedrock	Moist	Alpine	Mid Slope
1161151	BoINE	445843.5	6818549	1360.121		20-30	C	5-10	Light Brown	0	20	5	5	70	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161152	BoINE	445901.2	6818542	1371.396		20-30	B/C	10-15	Dark Brown	0	10	30	20	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161153	BoINE	445940.8	6818553	1379.088		40-50	B/C	25-30	Dark Grey	0	30	10	30	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161154	BoINE	445970.9	6818594	1396.193		30-40	B/C	15-20	Dark Grey	0	10	30	30	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161155	BoINE	446036.6	6818596	1408.543	there is also black soil coming from the same area.	30-40	B/C	15-20	Light Brown	0	0	60	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161156	BoINE	446090.2	6818616	1419.462	there was water in the sample hole.	40-50	B/C	25-30	Dark Grey	0	15	25	50	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161157	BoINE	446132.8	6818631	1429.972		30-40	B/C	15-20	Dark Grey	0	10	30	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161158	BoINE	446175.3	6818651	1442.301		30-40	C	15-20	Dark Grey	0	0	30	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161159	BoINE	446271.4	6818794	1465.764		20-30	C	15-20	Light Brown	0	40	10	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161160	BoINE	446234	6818777	1458.871		30-40	C	15-20	Dark Grey	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161161	BoINE	445592.9	6818648	1337.489		20-30	C	20-25	Dark Brown	0	20	20	10	50	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161162	BoINE	445535.1	6818628	1354.605		20-30	C	10-15	Light Brown	0	30	20	10	40	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161163	BoINE	445491.6	6818615	1358.452		20-30	C	15-20	Light Brown	0	20	40	10	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161165	BoINE	445534.1	6818937	1364.046		30-40	C	20-25	Light Brown	0	10	30	20	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161166	BoINE	445577.2	6818962	1383.015		30-40	C	20-25	Light Brown	0	10	20	20	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161167	BoINE	445625.4	6818981	1400.191		30-40	C	15-20	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161168	BoINE	445675.2	6818993	1414.475		30-40	C	25-30	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161169	BoINE	445725.4	6819013	1417.288		30-40	C	15-20	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161170	BoINE	445774.7	6819038	1425.102		30-40	C	15-20	Light Brown	0	20	10	30	40	Weathered bedrock	Wet	Mixed forest	Mid Slope

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1161171	BoINE	445816.5	6819049	1435.491		20-30	C	10-15	Light Brown	0	20	20	15	45	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161172	BoINE	445860.6	6819078	1444.2		20-30	C	10-15	Dark Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161173	BoINE	445911.5	6819095	1450.62		30-40	C	25-30	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161174	BoINE	445910.7	6819093	1447.648		20-30	C	15-20	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161175	BoINE	445958.4	6819109	1446.814		30-40	C	20-25	Light Brown	0	10	20	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161176	BoINE	446006.8	6819126	1458.209		40-50	C	20-25	Dark Brown	0	10	20	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161177	BoINE	446045.1	6819144	1457.74		40-50	C	>30	Light Brown	0	10	30	30	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161178	BoINE	446099.9	6819171	1468.613		40-50	C	25-30	Light Brown	0	10	20	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161179	BoINE	446144.7	6819203	1483.826		40-50	C	>30	Light Brown	0	20	20	30	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161180	BoINE	445954.1	6820397	1630.644		30-40	B/C	20-25	Light Brown	0	0	40	40	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161181	BoINE	445890.6	6820357	1613.469		50-60	C	>30	Light Brown	0	10	30	30	30	Weathered bedrock	Wet	Alpine	Mid Slope
1161182	BoINE	445862.1	6820339	1606.076		20-30	B/C	10-15	Dark Brown	10	0	40	20	30	Weathered bedrock	Moist	Alpine	Mid Slope
1161183	BoINE	445340.2	6820153	1341.861		20-30	B/C	10-15	Light Brown	0	20	20	20	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161184	BoINE	445288	6820137	-999.99	Timble did not record data. Location approximation only.													
1161185	BoINE	445066.5	6820050	1273.412		20-30	B/C	10-15	Dark Grey	0	10	20	40	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161186	BoINE	445829.4	6820013	1478.929	there were many rocks . i got sample off rocks.	20-30	B/C	15-20	Light Brown	5	5	5	5	80	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161187	BoINE	445737	6819983	1440.613		20-30	C	15-20	Light Brown	0	20	20	20	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161188	BoINE	445690.2	6819963	1426.287		50-60	C	10-15	Light Brown	0	20	10	10	60	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161189	BoINE	445639.9	6819948	1405.682		30-40	C	20-25	Dark Grey	0	10	20	40	30	Weathered bedrock	Wet	Mixed forest	Mid Slope

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1161190	BoINE	445603.5	6819934	1406.055	there was a deep organic layer here.	40-50	B/C	>30	Dark Grey	0	0	30	60	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161191	BoINE	445541.7	6819908	1391.192		>70	B/C	>30	Dark Grey	10	0	30	40	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161192	BoINE	445502	6819889	1370.776		40-50	B/C	>30	Light Brown	10	10	40	30	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161193	BoINE	445418	6819861	1347.786		30-40	C	15-20	Dark Brown	0	20	30	40	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161194	BoINE	444848.4	6819663	1247.542	took sample from 3 holes due to permafrost.	40-50	C	5-10	Dark Grey	0	10	30	40	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161195	BoINE	444664.9	6819580	1218.497		20-30	C	15-20	Dark Grey	0	10	20	40	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161196	BoINE	444695	6819484	1232.199		20-30	C	15-20	Light Brown	0	20	15	45	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161197	BoINE	445804.5	6819783	1451.708		>70	B/C	>30	Dark Grey	0	0	40	50	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161198	BoINE	445714.2	6819760	1428.974	took sample from 2 holes.	40-50	B/C	>30	Dark Grey	0	40	50	10	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161199	BoINE	445611.2	6819725	1400.722		50-60	C	>30	Dark Grey	0	10	30	50	10	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161200	BoINE	445525.3	6819681	1368.207		30-40	C	20-25	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161244	BoISW	443400.5	6815611	1364.475	bag shows 850, is actually 900	50-60	C	20-25	Dark Brown	5	10	10	50	10	Talus/colluviu m	Wet	Mixed forest	Mid Slope
1161245	BoISW	443421.6	6815631	1355.61		50-60	C	20-25	Light Brown	10	30	30	20	10	Till	Dry	Mixed forest	Mid Slope
1161246	BoISW	443439.2	6815675	1389.875		50-60	C	20-25	Light Grey	5	10	10	70	5	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161247	BoISW	443471.7	6815714	1395.913		50-60	C	20-25	Light Brown	10	25	15	20	15	Till	Dry	Mixed forest	Mid Slope
1161248	BoISW	443506.2	6815758	1404.49		50-60	C	20-25	Light Brown	0	10	15	60	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161249	BoISW	443543.3	6815786	1400.879		50-60	C	20-25	Black	10	10	10	60	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161250	BoISW	443571.3	6815828	1414.407		50-60	C	20-25	Black	10	10	10	60	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161251	BoISW	443597.9	6815866	1425.185		50-60	C	20-25	Black	10	10	10	60	15	Till	Moist	Mixed forest	Mid Slope
1161252	BoISW	443624.1	6815909	1435.338		50-60	C	20-25	Black	10	10	10	60	15	Till	Moist	Mixed forest	Mid Slope
1161253	BoISW	443657.7	6815941	1445.777		50-60	C	20-25	Black	10	30	30	10	20	Till	Moist	Mixed forest	Mid Slope

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1161254	BoISW	443693.2	6815990	1445.872		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161255	BoISW	443721.9	6816026	1455.847		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161256	BoISW	443755.9	6816067	1454.475		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161257	BoISW	443771.6	6816088	1452.148		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161258	BoISW	443809.9	6816148	1463.514		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161259	BoISW	443852.3	6816183	1458.725		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161260	BoISW	443872.6	6816232	1461.845		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161261	BoISW	443906.8	6816262	1455.082		50-60	C	20-25	Black	10	60	20	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161301	BoISW	442648	6816769	1529.3														
1161302	BoISW	442583	6816676	1518.5														
1161305	BoISW	443619.5	6816368	1525.866		20-30	C	20-25	Light Brown	5	5	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161306	BoISW	443589	6816335	-999.99														
1161307	BoISW	443554.8	6816300	1522.799	had to redo photo	30-40	C	10-15	Dark Brown	10	10	15	60	10	Weathered bedrock	Moist	Willows	Mid Slope
1161308	BoISW	443528.4	6816259	1509.297		30-40	C	10-15	Light Brown	10	5	15	10	10	Till	Moist	Willows	Mid Slope
1161309	BoISW	443489.4	6816216	1498.339		30-40	C	10-15	Light Brown	0	5	20	15	10	Till	Moist	Willows	Mid Slope
1161310	BoISW	443463.9	6816182	1490.109		30-40	C	10-15	Light Brown	10	5	15	10	15	Till	Moist	Willows	Mid Slope
1161311	BoISW	443427	6816151	-999.99														
1161312	BoISW	444771.2	6816236	1334.438		30-40	C	10-15	Dark Grey	5	0	0	65	15	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161313	BoISW	444742.5	6816198	1347.782	deisel toothpaste	30-40	C	10-15	Light Brown	5	5	10	15	20	Till	Moist	Mixed forest	Mid Slope
1161314	BoISW	444713.1	6816153	1353.32		30-40	C	10-15	Dark Grey	5	5	10	20	15	Till	Moist	Mixed forest	Mid Slope
1161315	BoISW	444680.9	6816115	1371.304		30-40	C	10-15	Dark Brown	5	20	20	15	15	Till	Moist	Mixed forest	Mid Slope
1161316	BoISW	444651.4	6816072	1376.352		30-40	C	10-15	Dark Brown	5	10	25	25	15	Till	Moist	Mixed forest	Mid Slope
1161317	BoISW	444591	6816001	1393.603		20-30	B/C	5-10	Dark Brown	5	45	20	10	10	Weathered bedrock		Mixed forest	Mid Slope

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1161318	BoISW	444560.4	6815960	1396.346	i gotta stop smoking deisel	20-30	B/C	5-10	Dark Brown	0	15	15	60	10	Weathered bedrock		Mixed forest	Mid Slope
1161319	BoISW	444528.8	6815916	1396.766		30-40	B/C	15-20	Dark Brown	0	15	15	40	25	Till		Mixed forest	Mid Slope
1161320	BoISW	444464.3	6815839	1379.8		20-30	C	5-10	Light Brown	5	15	15	40	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161321	BoISW	444431.4	6815809	1366.817		20-30	C	5-10	Light Brown	5	5	10	60	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161322	BoISW	444407.3	6815764	1343.169		20-30	C	15-20	Light Brown	5	10	20	50	15	Till	Dry	Mixed forest	Mid Slope
1161323	BoISW	444377.1	6815724	1336.389		20-30	C	15-20	Light Brown	5	10	20	50	15	Till	Dry	Mixed forest	Mid Slope
1161324	BoISW	444342.6	6815689	1338.012		20-30	C	15-20	Light Brown	10	15	20	25	20	Till	Dry	Mixed forest	Mid Slope
1161325	BoISW	443384.2	6815101	1590.299		50-60	C	15-20	Light Brown	0	0	15	60	0	Weathered bedrock	Moist	Alpine	Mid Slope
1161326	BoISW	443532.1	6815305	1508.113		20-30	B/C	5-10	Dark Brown	10	0	0	30	60	Till	Moist	Alpine	Mid Slope
1161327	BoISW	443568	6815342	1502.646		20-30	B/C	5-10	Dark Brown	20	0	15	30	20	Till	Moist	Alpine	Mid Slope
1161328	BoISW	443751.3	6815574	1354.745		20-30	B/C	5-10	Dark Brown	5	10	10	10	30	Weathered bedrock	Wet	Alpine	Mid Slope
1161329	BoISW	443839.9	6815691	1381.845		30-40	C	10-15	Dark Brown	15	5	5	60	5	Till	Moist	Mixed forest	Mid Slope
1161330	BoISW	443874.3	6815735	1389.119		30-40	C	10-15	Dark Brown	15	5	5	60	5	Till	Moist	Mixed forest	Mid Slope
1161331	BoISW	443903.7	6815772	1404.644		30-40	C	10-15	Dark Brown	10	25	10	45	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161332	BoISW	443932.8	6815817	1418.701		30-40	C	10-15	Light Brown	10	60	10	10	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161333	BoISW	443971.3	6815859	1421.79	sas shawn here	20-30	C	10-15	Orange	0	40	40	0	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161334	BoISW	443673.3	6816776	1449.511		50-60	C	15-20	Dark Grey	5	30	10	10	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161335	BoISW	443423.3	6816456	1559.083		30-40	C	15-20	Light Brown	5	20	10	40	25	Till	Moist	Alpine	Mid Slope
1161336	BoISW	443303.5	6816294	1541.162		30-40	B/C	5-10	Dark Brown	25	25	25	0	15	Till	Dry	Willows	Mid Slope
1161337	BoISW	443240.4	6816224	1525.156		30-40	C	15-20	Light Brown	5	60	15	0	20	Weathered bedrock	Dry	Willows	Mid Slope
1161338	BoISW	443175	6816143	1487.87		50-60	C	15-20	Light Brown	0	10	10	60	20	Weathered bedrock	Moist	Willows	Mid Slope

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1161339	BoISW	443111.3	6816064	1461.923		50-60	C	15-20	Light Brown	0	25	25	25	25	Weathered bedrock	Moist	Willows	Mid Slope
1161340	BoISW	443058.1	6815993	1449.514		60-70	C	25-30	Black	10	15	15	40	15	Talus/colluvium	Moist	Willows	Mid Slope
1161341	BoISW	442994.8	6815908	1437.349		50-60	C	25-30	Dark Brown	10	20	20	40	5	Till	Moist	Mixed forest	Mid Slope
1161342	BoISW	442932.8	6815838	1425.264		50-60	C	25-30	Dark Brown	5	10	30	55	10	Till	Moist	Mixed forest	Mid Slope
1161343	BoISW	442875	6815754	1400.198		50-60	C	25-30	Light Brown	5	50	15	15	15	Till	Moist	Mixed forest	Mid Slope
1161344	unkwn	0	0	-999.99														
1161345	unkwn	0	0	-999.99														
1161346	unkwn	0	0	-999.99														
1161347	unkwn	0	0	-999.99														
1161348	unkwn	0	0	-999.99														
1161349	unkwn	0	0	-999.99														
1161350	unkwn	0	0	-999.99														
1161352	BoISW	442489.9	6816885	1506.95		40-50	C	10-15	Light Brown	0	0	20	10	70	Weathered bedrock	Moist	Alpine	Mid Slope
1161353	BoISW	442508.6	6816909	1512.215		30-40	C	5-10	Light Brown	0	25	0	15	60	Till	Moist	Alpine	Mid Slope
1161354	BoISW	442583.5	6817017	1505.541		30-40	B/C	5-10	Light Brown	0	15	5	0	80	Till	Moist	Mixed forest	Plateau
1161355	BoISW	442772.6	6817261	1444.414		30-40	C	5-10	Light Brown	0	15	20	5	60	Till	Moist	Mixed forest	Mid Slope
1161356	BoISW	442442.6	6816851	1502.988		20-30	C	5-10	Light Brown	0	40	0	20	40	Weathered bedrock	Moist	Alpine	Mid Slope
1161357	BoISW	442550.5	6816965	1506.717		20-30	B/C	15-20	Light Brown	0	5	20	40	35	Weathered bedrock	Wet	Alpine	Mid Slope
1161358	BoISW	442619.5	6817054	1497.822	below sampled layer there was a thin layer of silty gray soil.	0-10	C	2-5	Light Brown	0	0	40	30	30	Weathered bedrock	Moist	Alpine	Ridge Top
1161359	BoISW	442732.9	6817199	1449.956	thin layer of gray soil above sampled soil.	20-30	C	5-10	Light Brown	0	20	10	10	60	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161360	BoISW	442764.6	6817242	1443.782		30-40	C	20-25	Light Brown	0	10	45	25	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161361	BoISW	442794.9	6817278	1430.972		20-30	B/C	20-25	Light Brown	0	40	10	20	30	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161362	BoISW	442854.9	6817357	1413.222		30-40	C	15-20	Light Brown	0	20	10	5	65	Weathered bedrock	Wet	Mixed forest	Mid Slope

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1161363	BoISW	442890.3	6817393	1401.272		40-50	B/C	25-30	Light Brown	0	70	10	0	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161364	BoISW	442920.7	6817429	1386.327		30-40	B/C	5-10	Light Brown	0	60	15	10	15	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161365	BoISW	442949.6	6817488	1379.873		40-50	C	>30	Light Brown	0	40	10	5	45	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161366	BoISW	443545.3	6814981	1650.7		40-50	B/C	>30	Dark Brown	0	0	50	20	30	Weathered bedrock	Moist	Alpine	Plateau
1161367	BoISW	443567.3	6815024	1642.21		30-40	B/C	>30	Light Brown	0	10	30	40	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161368	BoISW	443598.8	6815060	1628.869		20-30	B/C	20-25	Dark Brown	0	5	10	5	80	Weathered bedrock	Moist	Alpine	Mid Slope
1161369	BoISW	443634.6	6815099	1598.059		30-40	B/C	25-30	Light Brown	0	10	30	40	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161370	BoISW	443659.7	6815135	1570.695		30-40	B/C	20-25	Dark Brown	0	20	30	30	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161371	BoISW	443689.2	6815179	1538.648		20-30	B/C	15-20	Dark Brown	0	0	30	40	30	Till	Partially Frozen	Alpine	Mid Slope
1161372	BoISW	443722.9	6815213	1524.906		60-70	C	>30	Dark Brown	0	40	20	20	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161373	BoISW	443786.1	6815288	1475.329		30-40	B/C	15-20	Dark Brown	0	0	30	50	20	Weathered bedrock	Frozen	Alpine	Mid Slope
1161374	BoISW	443876.7	6815414	1405.581		30-40	C	20-25	Light Brown	0	0	20	30	50	Weathered bedrock	Moist	Alpine	Mid Slope
1161375	BoISW	443912.8	6815451	1394.884		30-40	C	20-25	Light Brown	0	20	30	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161376	BoISW	443820.3	6815988	1444.729		30-40	C	20-25	Light Brown	0	20	30	30	20	Weathered bedrock	Moist	Willows	Plateau
1161377	BoISW	443835.2	6816013	1446.637		20-30	C	10-15	Dark Brown	0	10	40	20	30	Weathered bedrock	Moist	Willows	Mid Slope
1161378	BoISW	443859.4	6816075	1443.993		40-50	B/C	>30	Dark Brown	0	20	30	40	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161379	BoISW	443878.3	6816100	1450.53		30-40	C	20-25	Dark Grey	0	20	10	10	60	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161380	BoISW	443935.8	6816137	1449.373		30-40	C	15-20	Dark Brown	0	20	30	20	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161381	BoISW	443953.2	6816174	1444.234	hit frozen ground.	20-30	B/C	15-20	Black	0	0	60	20	20	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161382	BoISW	443991.8	6816210	1448.467		40-50	B/C	>30	Dark Grey	0	20	40	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161383	BoISW	443775.2	6815936	1435.747	there are two distinct colors but very similar.	30-40	B/C	10-15	Light Brown	0	10	40	20	30	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1161384	BoISW	443751.3	6815892	1432.127		20-30	C	15-20	Light Brown	0	30	20	20	30	Weathered bedrock	Moist	Willows	Plateau
1161385	BoISW	443718.8	6815853	1424.257		30-40	B/C	15-20	Light Brown	0	40	20	10	30	Weathered bedrock	Moist	Willows	Mid Slope
1161386	BoISW	443684.8	6815818	1408.082		30-40	C	10-15	Light Brown	0	30	10	15	45	Weathered bedrock	Moist	Willows	Mid Slope
1161387	BoISW	442983	6817510	1358.76		40-50	C	25-30	Light Brown	0	40	20	10	30	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161388	BoISW	443012.3	6817557	1343.974		30-40	C	20-25	Light Brown	0	10	40	20	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161389	BoINE	446242.8	6818876	1473.369		50-60	C	20-25	Dark Grey	0	20	30	40	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161390	BoINE	446203.1	6818867	1456.922		40-50	C	20-25	Light Brown	0	10	30	40	20	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161391	BoINE	446145.6	6818846	1446.615		20-30	B/C	10-15	Dark Grey	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161392	BoINE	446111.9	6818826	1446.223		30-40	C	10-15	Light Brown	0	30	10	20	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161393	BoINE	446060	6818820	1436.376		20-30	C	10-15	Light Brown	0	20	10	10	60	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161394	BoINE	446013.7	6818804	1422.39		20-30	C	10-15	Light Brown	0	20	10	15	55	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161395	BoINE	445962.1	6818785	1410.366		30-40	C	10-15	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161396	BoINE	445812.6	6818727	1383.85		20-30	C	10-15	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161397	BoINE	445767.5	6818705	1371.462		20-30	C	10-15	Light Brown	0	30	10	10	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161398	BoINE	445723.4	6818691	1362.688		20-30	C	10-15	Light Brown	0	20	30	20	30	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161399	BoINE	445679.2	6818675	1359.016		20-30	C	10-15	Light Brown	0	30	20	10	40	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161400	BoINE	445629.8	6818669	1343.744		30-40	C	15-20	Light Brown	0	10	30	20	60	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161401	BoISW	442450	6815934	1447.6		30-40	b/c	10-15	light grey	0	40	30	0	30	weathered bedrock	moist	alpine	mid slope
1161402	BoISW	442467	6815965	1455.1		40-50	c	10-15	yellow	0	33	33	33		weathered bedrock	moist	alpine	mid slope
1161403	BoISW	442490	6815995	1456.3		30-40	b/c	5-10	light brown	5	10	40	40	5	weathered bedrock	moist	alpine	mid slope
1161404	BoISW	442518	6816031	1461.6		20-30	b/c	5-10	light grey	5	50	20	10	15	weathered bedrock	moist	alpine	plateau

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1161405	BoISW	442553	6816086	1462.3		20-30	b/c	10-15	light brown	0	20	50	20	10	weathered bedrock	moist	alpine	plateau
1161406	BoISW	442575	6816124	1466.6		40-50	b/c	10-15	light brown	5	0	40	40	15	weathered bedrock	wet	alpine	plateau
1161407	BoISW	442598	6816162	1472.9		30-40	b/c	10-15	light brown	0	50	40	0	10	weathered bedrock	moist	alpine	plateau
1161408	BoISW	442624	6816206	1477.4		30-40	b	10-15	greenish grey	5	5	25	50	15	weathered bedrock	moist	alpine	plateau
1161409	BoISW	442659	6816250	1487.5		20-30	b/c	5-10	light grey	0	50	20	0	30	weathered bedrock	dry	alpine	plateau
1161410	BoISW	442679	6816297	1491.8		40-50	c	10-15	greenish grey	0	60	30	0	10	weathered bedrock	moist	alpine	plateau
1161411	BoISW	442712	6816332	1496.4		30-40	b/c	15-20	greenish grey	0	10	50	30	10	weathered bedrock	moist	alpine	plateau
1161412	BoISW	442742	6816371	1504.8		30-40	b/c	10-15	greenish grey	0	40	40	10	10	weathered bedrock	moist	alpine	plateau
1161413	BoISW	442761	6816419	1513.7		60-70	c	20-25	greenish grey	0	60	30	0	10	weathered bedrock	moist	alpine	plateau
1161414	BoISW	442789	6816462	1517.8		50-60	b/c	15-20	greenish grey	0	70	20	0	10	weathered bedrock	moist	alpine	plateau
1161415	BoISW	442831	6816505	1524.3		40-50	c	5-10	greenish grey	0	70	20	0	10	weathered bedrock	moist	alpine	plateau
1161416	BoISW	442847	6816544	1526.9		40-50	c	5-10	greenish grey	0	70	20	0	10	weathered bedrock	moist	alpine	plateau
1161417	BoISW	442868	6816579	1531.7		40-50	c	5-10	greenish grey	0	70	20	0	10	weathered bedrock	partially frozen	alpine	plateau
1161418	BoISW	442903	6816629	1543.5		30-40	c	10-15	greenish grey	0	60	20	10	10	weathered bedrock	moist	alpine	ridge top
1161419	BoISW	442926	6816672	1543.5		20-30	b	10-15	light brown	10	60	10	0	20	weathered bedrock	dry	alpine	ridge top
1161420	BoISW	442963	6816723	1544.5		40-50	c	15-20	greenish grey	0	25	15	0	60	weathered bedrock	partially frozen	alpine	ridge top
1161421	BoISW	442980	6816755	1544		30-40	c	10-15	greenish grey	0	25	0	20	55	weathered bedrock	saturated	alpine	mid slope
1161422	BoISW	443007	6816800	1544		20-30	c	10-15	olive grey	0	50	20	0	30	weathered bedrock	moist	alpine	mid slope
1161423	BoISW	443037	6816847	1541.3		60-70	c	20-25	olive grey	0	30	30	10	30	weathered bedrock	moist	alpine	mid slope
1161424	BoISW	443054	6816884	1543.8		30-40	c	20-25	olive grey	0	50	20	0	0	weathered bedrock	moist	alpine	mid slope
1161425	BoISW	443064	6816939	1523.3		20-30	b	5-10	light grey	20	20	20	20	20	talus	partially frozen	alpine	mid slope

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1161426	BoISW	443091	6816981	1514		0-10	c	2-5	olive grey	10	40	20	0	30	weathered bedrock	dry	alpine	mid slope
1161427	BoISW	443118	6817034	1501.9		20-30	c	10-15	olive grey	0	20	20	20	40	weathered bedrock	moist	alpine	mid slope
1161428	BoISW	443146	6817064	1485.1		20-30	c	15-20	olive grey	0	40	20	20	20	weathered bedrock	wet	alpine	mid slope
1161429	BoISW	443167	6817122	1459.9		50-60	c	15-20	olive grey	0	50	25	0	25	weathered bedrock	moist	alpine	mid slope
1161430	BoISW	443216	6817153	1451.9		30-40	c	15-20	olive grey	15	20	20	0	55	weathered bedrock	wet	evergreen forest	mid slope
1161431	BoISW	443239	6817182	1441.1		30-40	b/c	10-15	yellow	0	20	0	0	80	weathered bedrock	moist	alpine	mid slope
1161432	BoISW	443261	6817233	1432		10-20	b/c	5-10	yellow	0	50	20	0	30	weathered bedrock	dry	alpine	mid slope
1161433	BoISW	443300	6817273	1412.1		10-20	b/c	5-10	olive grey	10	30	0	0	60	weathered bedrock	moist	alpine	mid slope
1161434	BoISW	443323	6817308	1392.8		40-50	c	15-20	olive grey	0	50	20	10	20	weathered bedrock	moist	alpine	mid slope
1161435	BoISW	443358	6817345	1375		20-30	b/c	15-20	olive grey	0	20	60	20	0	weathered bedrock	moist	evergreen forest	mid slope
1161436	BoISW	443484	6817178	1396.7		30-40	b	5-10	olive grey	0	10	0	0	80	weathered bedrock	moist	evergreen forest	mid slope
1161437	BoISW	443689	6814852	1663.7		10-20	b	2-5	light brown	20	60	20	0	0	weathered bedrock	moist	alpine	mid slope
1161438	BoISW	443728	6814891	1658.4		30-40	b/c	20-25	light brown	10	10	70	10	0	weathered bedrock	moist	alpine	mid slope
1161439	BoISW	443792	6814976	1630		20-30	c	25-30	dark brown	10	10	70	10	0	weathered bedrock	moist	alpine	mid slope
1161440	BoISW	443859	6815058	1612		10-20	b	10-15	light brown	20	30	50	0	0	weathered bedrock	moist	alpine	mid slope
1161441	BoISW	443886	6815097	1586		10-20	b/c	10-15	light brown	10	40	40	10	0	weathered bedrock	moist	alpine	mid slope
1161442	BoISW	443938	6815171	1533.4		10-20	b	10-15	light grey	10	70	20	0	0	weathered bedrock	dry	alpine	mid slope
1161443	BoISW	443964	6815215	1501.5		30-40	b/c	15-20	yellow	10	40	40	0	10	loess	moist	alpine	mid slope
1161444	BoISW	444003	6815254	1474.8		30-40	b/c	15-20	light brown	0	40	50	10	0	weathered bedrock	moist	alpine	mid slope
1161445	BoISW	444031	6815300	1445.2		30-40	c	15-20	yellow	0	10	50	40	0	weathered bedrock	partially frozen	alpine	mid slope
1161446	BoISW	444090	6815388	1393.1		0-10	b/c	5-10	yellow	20	40	40	0	0	weathered bedrock	moist	alpine	mid slope
1161447	BoISW	444118	6815427	1372.2		20-30	c	15-20	yellow	0	20	20	10	50	weathered bedrock	moist	evrgreen forest	mid slope

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1161448	BoISW	444155	6815451	1373.1		30-40	c	15-20	yellow	0	20	40	40	0	weathered bedrock	moist	evrgreen forest	valley bottom
1161449	BoISW	444156	6815451	1371.7	duplicate	30-40	c	15-20	yellow	0	20	40	40	0	weathered bedrock	moist	evrgreen forest	valley bottom
1161450	BoISW	444192	6815481	1363.3		20-30	c	10-15	yellow	0	50	40	0	10	weathered bedrock	moist	evrgreen forest	valley bottom
1161451	BoISW	444096.1	6815687	1374.321		40-50	C	10-15	Dark Grey	5	30	30	30	5	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161452	BoISW	443963.7	6815543	1347.894		20-30	C	10-15	Light Brown	0	40	25	25	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161453	BoISW	443053.7	6816631	1620.652		30-40	C	10-15	Dark Brown	5	30	40	25	0	Weathered bedrock	Dry	Alpine	Mid Slope
1161454	BoISW	443129.9	6816707	1600.22		20-30	C	5-10	Light Brown	0	30	30	20	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161455	BoISW	443158.9	6816740	1593.92		30-40	C	10-15	Dark Grey	0	30	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161456	BoISW	443197.1	6816785	1581.427		30-40	C	15-20	Dark Brown	0	40	25	30	5	Weathered bedrock	Moist	Alpine	Mid Slope
1161457	BoISW	443229.1	6816821	1570.904		30-40	C	15-20	Dark Grey	0	30	20	45	5	Weathered bedrock	Wet	Alpine	Mid Slope
1161458	BoISW	443255.6	6816853	1558.89		30-40	C	10-15	Dark Brown	0	40	20	20	20	Weathered bedrock	Moist	Alpine	Mid Slope
1161459	BoISW	443287.9	6816885	1536.88		20-30	C	5-10	Light Brown	0	35	20	30	15	Weathered bedrock	Moist	Alpine	Mid Slope
1161460	BoISW	443310.7	6816938	1520.101		20-30	C	10-15	Dark Brown	0	30	15	40	15	Weathered bedrock	Moist	Alpine	Mid Slope
1161461	BoISW	443371.8	6817018	1477.55		40-50	C	15-20	Dark Grey	0	35	20	35	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161462	BoISW	443401.5	6817058	1465.187		30-40	C	10-15	Light Brown	0	30	15	45	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161463	BoISW	443432.4	6817096	1442.711		20-30	B/C	10-15	Dark Brown	10	50	20	15	5	Till	Moist	Mixed forest	Mid Slope
1161464	BoISW	443453.1	6817130	1427.31		30-40	C	15-20	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178001	BoISW	442089	6816053	1526.7		40-50	b/c	5-10	light grey	5	10	40	30	15	weathered bedrock	wet	marsh	mid slpoe
1178002	BoISW	442122	6816089	1430.3		30-40	b/c	2-5	light brown	10	5	30	40	15	weathered bedrock	moist	alpine	mid slope
1178003	BoISW	442151	6816130	1439		50-60	c	5-10	light brown	0	10	15	50	25	weathered bedrock	moist	alpine	mid slope
1178004	BoISW	442183	6816164	1450.3		30-40	c	2-5	light grey	0	15	20	45	20	weathered bedrock	moist	alpine	mid slope

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1178005	BoISW	442208	6816212	1451		30-40	c	2-5	light grey	5	10	25	35	25	weathered bedrock	moist	alpine	mid slope
1178006	BoISW	442242	6816253	1458.2		30-40	b/c	2-5	light grey	5	10	20	40	25	weathered bedrock	moist	alpine	mid slope
1178007	BoISW	442307	6816332	1467.1		30-40	b/c	2-5	light grey	10	10	20	45	15	weathered bedrock	moist	alpine	mid slope
1178008	BoISW	442342	6816367	1473.8		30-40	b	2-5	light grey	10	10	25	35	20	weathered bedrock	dry	alpine	mid slope
1178009	BoISW	442371	6816400	1478.6		30-40	b/c	2-5	light grey	5	10	25	40	20	weathered bedrock	moist	alpine	mid slope
1178010	BoISW	442453	6816525	1502.9		30-40	b/c	2-5	light grey	5	10	20	40	25	weathered bedrock	moist	alpine	mid slope
1178011	BoISW	442494	6816559	1506.7		30-40	b/c	2-5	light brown	5	10	25	40	20	weathered bedrock	moist	alpine	mid slope
1178012	BoISW	442513	6816601	1509.1		20-30	b/c	2-5	light grey	5	10	25	40	20	weathered bedrock	moist	alpine	mid slope
1178013	BoISW	442681	6816806	1525.5		30-40	b/c	2-5	light brown	5	10	15	50	20	weathered bedrock	moist	alpine	mid slope
1178014	BoISW	442709	6816842	1526		40-50	b/c	5-10	light brown	5	10	20	40	25	weathered bedrock	moist	alpine	mid slope
1178015	BoISW	442770	6816917	1522.4		30-40	c	2-5	light grey	0	10	15	50	25	weathered bedrock	dry	alpine	mid slope
1178016	BoISW	442797	6816953	1508.4		30-40	b/c	2-5	light grey	5	10	15	40	30	weathered bedrock	moist	alpine	mid slope
1178017	BoISW	442890	6817080	1470.7		30-40	b/c	2-5	light grey	5	15	15	45	20	weathered bedrock	moist	alpine	bench
1178018	BoISW	442955	6817150	1437.5		30-40	b/c	5-10	light grey	5	10	20	40	25	weathered bedrock	moist	alpine	mid slope
1178019	BoISW	443049	6817273	1427.9		10-20	c	2-5	dark grey	5	15	20	30	30	weathered bedrock	dry	alpine	mid slope
1178020	BoISW	443105	6817351	1399.6		30-40	b/c	5-10	dark grey	5	10	15	40	30	weathered bedrock	dry	alpine	mid slope
1178021	BoISW	443138	6817389	1382.3		20-30	b/c	2-5	black	5	10	20	40	25	weathered bedrock	dry	alpine	mid slope
1178022	BoISW	443185	6816526	1624.3		10-20	b/c	1-2	light brown	15	10	10	30	35	weathered bedrock	dry	alpine	mid slope
1178023	BoISW	443212	6816564	1619.2		10-20	b/c	2-5	light brown	15	5	0	50	30	weathered bedrock	dry	alpine	mid slope
1178024	BoISW	443283	6816641	1583.9		20-30	b/c	2-5	light grey	10	10	25	30	25	weathered bedrock	wet	alpine	mid slope
1178025	BoISW	443304	6816679	1575		60-70	c	10-15	dark grey	0	20	0	20	60	weathered bedrock	dry	alpine	mid slope

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1178026	BoISW	443374	6816754	1542.3		30-40	b/c	2-5	dark brown	15	5	0	60	20	weathered bedrock	moist	alpine	mid slope
1178027	BoISW	443406	6816787	1520		0-10	b/c	2-5	dark brown	20	0	0	40	40	weathered bedrock	dry	alpine	mid slope
1178028	BoISW	443439	6816832	1507		30-40	b/c	5-10	light brown	15	10	0	50	25	weathered bedrock	dry	alpine	mid slope
1178029	BoISW	443471	6816864	1492.6		30-40	c	2-5	light brown	10	5	0	40	45	weathered bedrock	dry	alpine	mid slope
1178030	BoISW	443503	6816902	1470.5		30-40	b/c	5-10	light grey	5	20	0	40	35	weathered bedrock	moist	alpine	mid slope
1178031	BoISW	443546	6816961	1440.2		30-40	b/c	5-10	dark grey	5	15	0	45	35	weathered bedrock	wet	alpine	mid slope
1178032	BoISW	443642	6817058	1416.9		30-40	c	5-10	black	5	10	0	45	40	weathered bedrock	moist	alpine	mid slope
1178033	BoISW	443670	6817104	1391.1		30-40	b/c	5-10	black	5	10	0	45	40	weathered bedrock	dry	alpine	mid slope
1178034	BoISW	443826	6816972	1383		40-50	b/c	5-10	black	5	30	10	10	45	weathered bedrock	dry	alpine	mid slope
1178035	BoISW	443800	6816935	1406		40-50	b/c	5-10	dark grey	10	10	0	40	40	weathered bedrock	dry	alpine	mid slope
1178036	BoISW	443748	6816869	1425.5		20-30	b/c	5-10	dark grey	10	10	0	40	40	weathered bedrock	wet	alpine	mid slope
1178037	BoISW	443604	6816699	1480.8		30-40	b/c	5-10	light brown	10	10	0	45	25	weathered bedrock	moist	alpine	mid slope
1178038	BoISW	443584	6816664	1500		50-60	c	5-10	dark grey	5	15	0	40	40	weathered bedrock	moist	alpine	mid slope
1178039	BoISW	443554	6816624	1518.8		30-40	b/c	2-5	dark grey	10	10	0	40	40	weathered bedrock	moist	alpine	mid slope
1178040	BoISW	443521	6816588	1537.7		20-30	c	5-10	black	5	10	0	45	40	weathered bedrock	dry	alpine	mid slope
1178041	BoISW	443462	6816510	1554.6		50-60	c	5-10	dark brown	5	15	5	50	25	weathered bedrock	moist	alpine	mid slope
1178042	BoISW	444009	6814613	1637.7		30-40	b	5-10	dark brown	10	10	40	20	20	fluvial	wet	alpine	mid slope
1178043	BoISW	444072	6814705	1646.1		20-30	b	2-5	light brown	15	15	40	20	10	weathered bedrock	wet	alpine	mid slope
1178044	BoISW	444108	6814727	1640.1		40-50	b/c	2-5	dark grey	10	5	40	30	15	weathered bedrock	wet	alpine	bench
1178045	BoISW	444136	6814767	1638		10-20	c	2-5	light grey	5	30	0	20	45	weathered bedrock	dry	willows	mid slope
1178046	BoISW	444229	6814895	1593.3		20-30	b	2-5	dark brown	15	10	30	40	5	loess	dry	alpine	mid slope

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1178047	BoISW	444259	6814942	1578.1		30-40	b/c	5-10	light brown	15	10	0	40	35	weathered bedrock	dry	alpine	mid slope
1178048	BoISW	444313	6815007	1554.3		40-50	b	5-10	dark brown	20	5	50	15	10	fluvial	moist	alpine	valley bottom
1178049	BoISW	444352	6815048	1557		20-30	c	2-5	light brown	5	10	10	40	35	weathered bedrock	dry	alpine	mid slope
1178050	BoISW	444386	6815085	1560.6		30-40	b/c	5-10	light brown	15	10	0	40	35	weathered bedrock	dry	alpine	mid slope
1178051	BoISW	442618	6816720	1521.6														
1178052	BoISW	442297.6	6816966	1486.541		40-50	C	10-15	Light Brown	0	40	0	60	0	Till	Dry	Mixed forest	Plateau
1178053	BoISW	442331.4	6817005	1488.482		50-60	C	10-15	Light Brown	0	20	0	80	0	Till	Wet	Mixed forest	Plateau
1178054	BoISW	442352.5	6817044	1485.399		30-40	C	10-15	Light Brown	0	30	0	70	0	Till	Moist	Mixed forest	Plateau
1178055	BoISW	442391.2	6817088	1487.494		40-50	C	10-15	Light Brown	0	40	0	60	0	Till	Dry	Mixed forest	Plateau
1178056	BoISW	442426.5	6817114	1488.491		20-30	C	10-15	Light Brown	10	60	0	30	0	Till	Dry	Mixed forest	Plateau
1178057	BoISW	442516.3	6817248	1464.394		50-60	C	10-15	Light Brown	0	30	0	70	0	Till	Moist	Mixed forest	Valley Lowland
1178058	BoISW	442547	6817280	1460.946		20-30	C	10-15	Light Brown	0	0	0	0	0	Till	Moist	Mixed forest	Mid Slope
1178059	BoISW	442607.7	6817364	1444.204		20-30	C	10-15	Light Brown	20	0	20	60	0	Till	Moist	Mixed forest	Mid Slope
1178060	BoISW	442646.5	6817404	1438.429		20-30	C	10-15	Light Brown	15	15	0	70	0	Till	Moist	Mixed forest	Mid Slope
1178061	BoISW	442702.3	6817479	1415.21		20-30	C	10-15	Orange	10	30	0	60	0	Till	Moist	Mixed forest	Mid Slope
1178062	BoISW	442730.8	6817527	1420.039		50-60	C	10-15	Light Brown	5	20	0	75	0	Till	Dry	Mixed forest	Mid Slope
1178063	BoISW	442767.9	6817562	1409.04		20-30	C	10-15	Light Brown	0	40	0	60	0	Till	Moist	Mixed forest	Valley Lowland
1178064	BoISW	442797.9	6817591	1399.499		20-30	C	10-15	Light Brown	0	35	0	65	0	Till	Moist	Mixed forest	Mid Slope
1178065	BoISW	442827.5	6817630	1396.656		30-40	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Mid Slope
1178066	BoISW	442851.3	6817682	1385.317		20-30	C	10-15	Light Brown	0	35	0	65	0	Till	Moist	Mixed forest	Mid Slope
1178067	BoISW	443118	6816384	1565.99		40-50	C	10-15	Dark Brown	0	90	0	0	10	Till	Moist	Mixed forest	Mid Slope
1178068	BoISW	443085.2	6816354	1549.139		40-50	C	10-15	Dark Brown	10	80	0	10	0	Till	Moist	Mixed forest	Mid Slope

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1178069	BoISW	443053.2	6816312	1530.828		50-60	C	10-15	Dark Grey	10	80	0	10	0	Till	Moist	Mixed forest	Valley Lowland
1178070	BoISW	443033.4	6816275	1516.661		10-20	C	10-15	Light Brown	0	75	0	25	0	Till	Dry	Mixed forest	Valley Lowland
1178071	BoISW	442999.1	6816238	1506.581		0-10	C	10-15	Light Brown	20	20	0	60	0	Till	Moist	Mixed forest	Valley Lowland
1178072	BoISW	442967.1	6816187	1482.508		0-10	C	10-15	Light Brown	20	40	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1178073	BoISW	442939.1	6816152	1480.343		0-10	C	10-15	Light Brown	30	30	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1178074	BoISW	442912.9	6816105	1463.305		20-30	C	10-15	Light Brown	10	50	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1178075	BoISW	442863.7	6816089	1462.147		30-40	C	10-15	Light Brown	20	40	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1178076	BoISW	442830.5	6816043	1456.726		20-30	C	10-15	Light Brown	10	40	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1178077	BoISW	442815.9	6815997	1449.891		10-20	C	10-15	Light Brown	10	40	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1178078	BoISW	442724.9	6815865	1434.162		40-50	C	10-15	Light Grey	0	75	0	25	0	Till	Moist	Mixed forest	Valley Lowland
1178079	BoISW	442659.6	6815786	1427.393		30-40	C	10-15	Dark Grey	0	100	0	0	0	Till	Moist	Mixed forest	Valley Lowland
1178080	BoISW	442635.5	6815765	1412.905		50-60	C	10-15	Light Brown	20	60	0	20	0	Till	Moist	Mixed forest	Valley Lowland
1178081	BoISW	442593.9	6815711	1402.094		50-60	C	10-15	Dark Grey	0	100	0	0	0	Till	Wet	Mixed forest	Valley Lowland
1178082	BoISW	442562.8	6815674	1407.68		20-30	C	10-15	Dark Brown	50	0	0	50	0	Till	Permafrost	Mixed forest	Valley Lowland
1178083	BoISW	442753.6	6815593	1444.94	There was two SampleIDs 1178083, but we Daniele Heon found that the tag book indicates utm coordinates of 6815593N 442752 E.	20-30	C	10-15	Light Brown	25	60	0	15	0	Till	Moist	Mixed forest	Valley Lowland
1178084	BoISW	442791.9	6815635	1429.314		10-20	C	10-15	Light Brown	20	40	0	40	0	Till	Wet	Mixed forest	Valley Lowland
1178085	BoISW	444730	6814889	-999.99	DATA LOST ON BROKEN TRIMBLE, LOCATION APPROXIMATE													

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1178086	BoISW	444698	6814844	-999.99	DATA LOST ON BROKEN TRIMBLE, LOCATION APPROXIMATE													
1178087	BoISW	444665	6814800	-999.99	DATA LOST ON BROKEN TRIMBLE, LOCATION APPROXIMATE													
1178088	BoISW	444621	6814760	-999.99	DATA LOST ON BROKEN TRIMBLE, LOCATION APPROXIMATE													
1178089	BoISW	444831.5	6815007	1430.973		10-20	C	10-15	Light Brown	20	30	0	50	0	Till	Moist	Mixed forest	Mid Slope
1178090	BoISW	444562.5	6814684	1497.786		50-60	C	10-15	Light Brown	20	60	0	20	0	Till	Moist	Mixed forest	Valley Lowland
1178091	BoISW	444517.9	6814594	1508.849	There was two SampleIDs 1178092, but we Daniele Heon found that the tag book indicates utm coordinates of 6814594 N, 444514 E	10-20	C	10-15	Light Brown	30	30	0	40	0	Till	Moist	Mixed forest	Valley Lowland
1178092	BoISW	444545.2	6814644	1492.239	There was two SampleIDs 1178092, but we Daniele Heon fixed the twin	10-20	C	10-15	Light Brown	25	25	0	50	0	Till	Moist	Mixed forest	Mid Slope
1178093	BoISW	444487	6814563	1511.6		20-30	C	10-15	Light Brown	25	50	0	25	0	Till	Moist	Mixed forest	Valley Lowland
1178094	BoISW	444448.2	6814526	1507.918	notnmuch soil	20-30	B/C	10-15	Light Brown	25	50	0	25	0	Till	Moist	Mixed forest	Valley Lowland
1178095	BoISW	444422.8	6814480	1505.923		30-40	C	10-15	Light Brown	25	60	0	15	0	Till	Moist	Mixed forest	Valley Lowland
1178096	BoISW	444386.6	6814450	1508.358		10-20	C	10-15	Light Brown	25	25	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1178097	BoISW	444349.3	6814406	1494.688		20-30	C	10-15	Light Brown	0	50	0	50	0	Till	Moist	Mixed forest	Valley Lowland
1178098	BoISW	444322.4	6814372	1493.521		40-50	C	10-15	Light Brown	20	40	0	40	0	Till	Moist	Mixed forest	Valley Lowland

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1178099	BoISW	-999.99	-999.99	-999.99	DATA LOST ON BROKEN TRIMBLE, LOCATION APPROXIMATE													
1178100	BoISW	444634.2	6816387	1303.353	duplicate of 1178099	50-60	C	10-15	Light Brown	10	90	0	0	0	Till	Dry	Mixed forest	Valley Lowland
1178101	BoISW	444385	6815088	1559.9		40-50	c	2-5	light grey	10	20	0	40	30	weathered bedrock	moist	alpine	mid slope
1178102	BoISW	444445	6815163	1536.1		30-40	b/c	5-10	black	15	10	0	40	35	weathered bedrock	dry	alpine	mid slope
1178103	BoISW	444522	6815237	1477.7		30-40	b/c	5-10	dark brown	15	10	0	40	35	weathered bedrock	dry	alpine	mid slope
1178104	BoISW	444526	6815302	1450.3		30-40	b	5-10	dark brown	20	0	30	40	10	fluvial	wet	alpine	mid slope
1178105	BoISW	444566	6815321	1433.4		30-40	b/c	2-5	light grey	10	10	20	40	10	weathered bedrock	wet	alpine	mid slope
1178106	BoISW	444600	6815369	1408.9		40-50	b/c	5-10	dark brown	15	10	10	40	25	weathered bedrock	moist	alpine	mid slope
1178107	BoISW	444488.4	6816523	1316.996		30-40	B/C	5-10	Dark Grey	5	15	30	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1178108	BoISW	444463.2	6816474	1342.216		30-40	C	5-10	Dark Grey	5	30	25	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1178109	BoISW	444438.7	6816431	1352.44		40-50	B/C	5-10	Light Brown	10	25	25	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178110	BoISW	444365.2	6816365	1401.138		40-50	C	5-10	Light Brown	10	30	5	45	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178111	BoISW	444335.6	6816328	1402.192	frost heave	30-40	C	5-10	Light Grey	5	30	0	5	60	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178112	BoISW	444309.5	6816273	1410.805		40-50	C	5-10	Light Brown	5	25	15	55	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178113	BoISW	444265.1	6816240	1419.842		50-60	C	10-15	Light Brown	5	40	0	60	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178114	BoISW	444239	6816196	1428.45		40-50	C	5-10	Light Brown	10	30	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178115	BoISW	444215.2	6816164	1420.774		30-40	B/C	5-10	Light Brown	10	20	25	45	0	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1178116	BoISW	444182	6816130	1423.286		50-60	C	10-15	Dark Brown	0	60	10	30		Weathered bedrock	Dry	Mixed forest	Ridge Top
1178117	BoISW	444151.8	6816090	1425.89		40-50	C	10-15	Light Brown	5	35	20	40	0	Weathered bedrock	Dry	Mixed forest	Ridge Top
1178118	BoISW	444109.6	6816042	1429.129		30-40	B/C	10-15	Dark Brown	15	30	15	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope

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1178119	BoISW	444089.8	6816011	1429.673		50-60	C	10-15	Dark Brown	0	30	35	35	0	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1178120	BoISW	444058.8	6815967	1428.218		30-40	B/C	5-10	Light Brown	10	30	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178121	BoISW	444023.9	6815928	1423.008	frost heave	20-30	C	5-10	Dark Grey	0	65	5	30	0	Talus/colluviu m	Dry	Mixed forest	Ridge Top
1178122	BoISW	443989.7	6815887	1420.675		30-40	B/C	10-15	Yellow	5	30	15	50	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178123	BoISW	442787.8	6815784	1423.363		20-30	B/C	5-10	Light Grey	10	35	15	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1178124	BoISW	442806.6	6815825	1426.313		30-40	B/C	10-15	Dark Grey	15	30	30	25	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1178125	BoISW	442838.4	6815875	1435.752		30-40	B/C	5-10	Light Grey	15	20	30	30	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1178126	BoISW	442873.6	6815908	1434.449		40-50	B/C	10-15	Light Grey	10	30	30	30	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1178127	BoISW	442897.9	6815940	1445.967		40-50	C	5-10	Light Grey	5	40	25	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178128	BoISW	442930.7	6815986	1445.095		40-50	C	10-15	Orange	5	35	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178129	BoISW	442991.3	6816067	1467.958		50-60	C	2-5	Dark Grey	10	30	25	35	0	Till	Wet	Mixed forest	Mid Slope
1178130	BoISW	443012.4	6816103	1466.582		40-50	C	10-15	Dark Grey	5	35	20	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1178131	BoISW	443081	6816183	1482.278		30-40	B/C	5-10	Dark Brown	10	25	35	30	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1178132	BoISW	443145.6	6816258	1528.427		30-40	B/C	5-10	Dark Grey	5	30	20	45	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
NoSample1	BoINE	445927.3	6818774	1404.596	vegetation past auger depth.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample10	BoINE	445252.4	6820121	1323.321	thick moss cover	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample100	BoINE	445222.2	6819469	1315.134	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample101	BoINE	445870.6	6819297	1444.841	rocky	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample102	BoINE	446066	6818945	1443.201	small stream all organics	50-60	C	10-15	Light Brown	100	0	0	0	0	Till	Wet	Mixed forest	Mid Slope
NoSample103	BoINE	446028.7	6818909	1435.536	organics, line is on stream	50-60	C	10-15	Black	100	0	0	0	0	Till	Wet	Mixed forest	Mid Slope
NoSample104	BoINE	445522.6	6820123	1407.522	organics rock	50-60	C	10-15	Light Brown	100	0	0	0	0	Till	Dry	Mixed forest	Mid Slope

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NoSample105	BoINE	445323.3	6820044	1339.072	just under treeline really thick moss or rocks	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
NoSample106	BoINE	445287.5	6820030	1325.817	thick moss	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
NoSample107	BoINE	445231.4	6820016	1314.2		30-40	C	10-15	Light Brown	100	0	0	0	0	Till	Permafrost	Mixed forest	Mid Slope
NoSample108	BoINE	445134.9	6819970	1294.963	rock organics permafrost	50-60	C	10-15	Light Brown	100	0	0	0	0	Till	Permafrost	Mixed forest	Mid Slope
NoSample109	BoINE	445095.2	6819963	1288.746		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample11	BoINE	445198.6	6820109	1309.402	thick moss.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample110	BoINE	445043.8	6819952	1274.355	lots of rock and permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample111	BoINE	445000.5	6819930	1273.665	thick trees and moss	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample112	BoINE	444954.9	6819910	1258.388	thick moss to rock permafrost and water flowing down area	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
NoSample113	BoINE	444911.4	6819885	1252.311		>70	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample114	BoINE	444869.4	6819864	1241.224		50-60	C	10-15	Light Brown	100	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample115	BoINE	444823.4	6819847	1235.465		50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample116	BoINE	444775.4	6819837	1236.594		50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample117	BoINE	444717	6819826	1222.158	bad line lost of rock permafrost and organics	50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample118	BoINE	444669.8	6819702	1222.819		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample119	BoINE	444717.1	6819693	1227.151		50-60	C	10-15	Light Brown	95	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Mid Slope
NoSample12	BoINE	445150.7	6820082	1299.246	thick moss and melting permafrost.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample120	BoINE	444920.8	6819995	1254.71		20-30	C	10-15	Light Brown	0	0	0	0	0	Till	Permafrost	Mixed forest	Valley Lowland
NoSample121	BoINE	445146.9	6819851	1296.77		50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland

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NoSample122	BoINE	445178.7	6819869	1297.796		60-70	C	10-15	Black	100	0	0	0	0	Till	Permafrost	Mixed forest	Valley Lowland
NoSample123	BoINE	445224.9	6819890	1309.194		50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample124	BoINE	445323.1	6819832	1318.825		50-60	C	10-15	Black	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample125	BoINE	445169.4	6819761	1296.123	soggy spot and permafrost	20-30	C	10-15	Black	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample126	BoINE	445075.1	6819741	1278.822	permafrost; no c j8sa and b	20-30	C	10-15	Black	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample127	BoINE	444977.9	6819702	1270.872		50-60	C	10-15	Black	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample128	BoINE	445914.5	6819621	1473.398		50-60	C	10-15	Black	100	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample129	BoINE	445860.3	6819598	1469.769		50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
NoSample13	BoINE	445118.5	6820072	1293.451	thick moss.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample130	BoINE	445590.2	6819496	1382.479		50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
NoSample131	BoINE	445356.8	6819407	1327.415	permafrost and losts of streams in area	50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample132	BoINE	445255.9	6819378	1311.603	rock under moss	20-30	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
NoSample133	BoINE	444979.6	6819282	1279.93		20-30	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample134	BoINE	445939.9	6819422	1458.483	water under ground	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
NoSample135	BoISW	442969.6	6815859	1414.851		20-30	C	10-15	Light Brown	100	0	0	0	0	Till	Permafrost	Mixed forest	Valley Lowland
NoSample136	BoISW	444724.1	6815885	1365.043	clasts 2cm-10cm made up 95%of soil in this area. made multiple holes to check. could not obtain enough soil for sample	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample137	BoISW	444615.2	6815714	1340.805	perafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

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NoSample138	BoISW	444548.6	6815516	1290.249	no visible close area to use an auger/find a soil sample	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample139	BoISW	444515.5	6815487	1322.25	Only moss covered rocks and boulders on this steep slope spfar	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample14	BoINE	445359	6819849	1334.736	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample140	BoISW	444479	6815456	1341.076	boulders and mossy rocks only. no sample-able soil	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample141	BoISW	444443.3	6815414	1368.415	no sample spot	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample142	BoISW	443519.3	6815883	1423.536	rock surface. not enough soil in between to collect	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample143	BoISW	443292.2	6815617	1374.066	on a cliff	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample144	BoISW	443195.7	6815564	1403.303	rock hill with no soil pockets for usefull saMple (only organic soils)	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample145	BoISW	443099.5	6815497	1445.01	rock cliff/hill with only small bits of organic soil overlying	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample146	BoISW	443056	6815406	1478.522	permafrost just below organic layer	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample147	BoISW	443055.6	6815357	1505.141	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample148	BoISW	443045.1	6815327	1522.967	permafrost and rock slopes with only organic layer unfrozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample149	BoISW	443855.8	6814737	1665.272	only crushed rock to depth in multiple holes. no useable soil	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample15	BoINE	445215.8	6819791	1302.194	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

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NoSample150	BoISW	444041.2	6814972	1634.315	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample151	BoISW	444165.6	6815117	1572.759	rock cliff with minor organic soil and moss on top	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample152	BoISW	444232.7	6815198	1529.104	talus slope on rock cliff with only organic soil pockets	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample153	BoISW	444294.4	6815276	1471.54	same as last 'no sample '	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample154	BoISW	444294.8	6815276	1477.501	somehow a 'no sample' site 50m back along line didnt save. walking back is too dangerous but it was a no sample for same reason as last station	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample155	BoISW	444401.4	6815387	1403.165	rock slope. no good soil to be sampled	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample156	BoISW	444043.5	6815602	1347.351	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample157	BoISW	443089.3	6816664	1618.406	talus rock slope with only organic soil pockets in some locations	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample158	BoISW	443343.6	6816996	1497.123	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample159	BoISW	443238.6	6815750	1397.903	rock and permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample16	BoINE	445119.3	6819756	1283.194	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample160	BoISW	443366.7	6815913	1430.943	old stream/river bed. organics to wet clays. no good sample	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample161	BoISW	443423.9	6815985	1451.061		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

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NoSample162	BoISW	443484.6	6816081	1467.7	organic soil to 30cm depth then permafrost [in old stream /river channel again]	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample163	BoISW	443576	6816183	1485.368	permafrost under thin organics	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample164	BoISW	444615.4	6816037	1381.374	rocks and rocks only	0-10		<1	Dark Grey	0	0	0	0	100	Weathered bedrock	Moist	Mixed forest	Mid Slope
NoSample165	BoISW	444499.4	6815881	1400.986	rocks					0	0	0	0	0	Till		Mixed forest	Mid Slope
NoSample166	BoISW	443776.4	6815606	1346.174	lake	0-10				0	0	0	0	0		Wet	Alpine	Valley Lowland
NoSample167	BoISW	443790.7	6815623	1347.043	lake	0-10				0	0	0	0	0		Wet	Alpine	Valley Lowland
NoSample168	BoISW	443441.3	6815181	1562.761	rocks					0	0	0	0	0			Alpine	Mid Slope
NoSample169	BoISW	443468.8	6815227	1550.416						0	0	0	0	0			Alpine	Mid Slope
NoSample17	BoINE	444936.4	6819684	1262.747	thick moss and permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample170	BoISW	443502.1	6815266	1522.215						0	0	0	0	0			Alpine	Mid Slope
NoSample171	BoISW	443599.5	6815388	1476.047	rocks						0			0			Alpine	Mid Slope
NoSample172	BoISW	443625.2	6815422	1452.545							0			0			Alpine	Mid Slope
NoSample173	BoISW	443660.9	6815458	1430.452	rocks						0			0			Alpine	Mid Slope
NoSample174	BoISW	442458.3	6816847	1506.217	bedrock less than 1 foot down.					0	0	0	0	0				
NoSample175	BoISW	442548.3	6816956	1512.734	large rocks below surface					0	0	0	0	0				
NoSample176	BoISW	442612.6	6817057	1497.774	rocks below surface in area					0	0	0	0	0			None	
NoSample177	BoISW	442671.6	6817108	1464.02	bedrock 1 foot down					0	0	0	0	0			None	
NoSample178	BoISW	442693.3	6817172	1457.565	permafrost tried 4 locations					0	0	0	0	0				
NoSample179	BoISW	442727.3	6817207	1453.214	permafrost					0	0	0	0	0				
NoSample18	BoINE	445452.3	6819876	1358.953	sample holes filled up with water.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample180	BoISW	442703.2	6817163	1456.413	permafrost due to thick moss cover.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample181	BoISW	442832.1	6817320	1419.423	water flooding hole	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample182	BoISW	443743.9	6815267	1506.191		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample183	BoISW	443805.3	6815327	1453.906		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

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NoSample184	BoISW	443847.7	6815380	1431.588		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample185	BoISW	443470.3	6815533	1395.238	frozen and rocky	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample186	BoISW	443316.7	6815342	1482.212	frozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample187	BoISW	443251	6815266	1512.721	boulders	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample188	BoISW	443776	6816906	1413.3														
NoSample189	BoISW	443712	6816821	1439.4														
NoSample19	BoINE	445239.8	6819585	1308.204	thick moss and permafrost.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample190	BoISW	443681	6816781	1445.5														
NoSample191	BoISW	443642	6816751	1466.8														
NoSample192	BoISW	443497	6816544	1549														
NoSample193	BoISW	443432	6816462	1555.3														
NoSample194	BoISW	442274	6816286	1462.3														
NoSample195	BoISW	443018	6817232	1428.6														
NoSample196	BoISW	443077	6817311	1414.7														
NoSample197	BoISW	443168	6817429	1373.4														
NoSample198	BoISW	442399	6816443	1482.5														
NoSample199	BoISW	442425	6816484	1491.8														
NoSample2	BoINE	445875.2	6818735	1390.949	can not reach aproppriate horizon.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample20	BoINE	445045.8	6819514	1299.052	deep organics then rocky.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample200	BoISW	442551	6816642	1515.2														
NoSample201	BoISW	444393.1	6816402	1380.199	boulders	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample202	BoISW	442956	6816022	1448.132	deep organic then solid rock												Mixed forest	Mid Slope
NoSample203	BoISW	443048	6816145	1480.622	boulder slope												Mixed forest	Mid Slope
NoSample204	BoISW	443111.6	6816218	1502.018	boulder slope												Mixed forest	Mid Slope
NoSample205	BoISW	443168.6	6816297	1548.424	boulder ridge												Mixed forest	Mid Slope
NoSample206	BoISW	444868.9	6815386	1369.152		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample207	BoISW	442905.3	6815479	1452.474		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample208	BoISW	443776	6816906	1413.3														
NoSample209	BoISW	443712	6816821	1439.4														

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NoSample21	BoINE	444955.7	6819484	1276.145	thick moss and permafrost.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample210	BoISW	443681	6816781	1445.5														
NoSample211	BoISW	443642	6816751	1466.8														
NoSample212	BoISW	443497	6816544	1549														
NoSample213	BoISW	443432	6816462	1555.3														
NoSample214	BoISW	442274	6816286	1462.3														
NoSample215	BoISW	443018	6817232	1428.6														
NoSample216	BoISW	443077	6817311	1414.7														
NoSample217	BoISW	443168	6817429	1373.4														
NoSample218	BoISW	442399	6816443	1482.5														
NoSample219	BoISW	442425	6816484	1491.8														
NoSample22	BoINE	444871.7	6819444	1264.198	holes filled with water or permafrost.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample220	BoISW	442551	6816642	1515.2														
NoSample221	BoISW	445313	6815623	1254.9														
NoSample222	BoISW	445060	6815308	1359.7														
NoSample223	BoISW	445394	6815737	1265														
NoSample224	BoISW	443515	6817223	1374.8														
NoSample225	BoISW	443746	6814945	1637.2														
NoSample226	BoISW	443813	6815020	1614.9														
NoSample227	BoISW	443908	6815132	1563														
NoSample228	BoISW	444062	6815325	1431.8														
NoSample229	BoISW	444219	6815524	1338														
NoSample23	BoINE	444673.9	6819365	1230.376	water filling holes	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample230	BoISW	444274	6815609	1313.5														
NoSample231	BoISW	442451.7	6817163	1477.854	doug 6 holes all rock 12 inches from bottom of vegetation	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample232	BoISW	442484.7	6817209	1472.685	50 percent rock visable the rest is just under vegetation	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample233	BoISW	442580	6817324	1448.882	tried 5 locations it goes from organics to bedrock	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample234	BoISW	442661.6	6817427	1436.54	organics covering a rock bluff [tried 5 locations]	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

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NoSample235	BoISW	442784	6815951	1447.03	doug 6 holes all wet soil to bedrock	30-40	C	10-15	Light Brown	100	0	0	0	0	Till	Wet	Mixed forest	Valley Lowland
NoSample236	BoISW	442694.6	6815830	1431.448	whole area topsoilo bed rock	30-40	C	10-15	Light Grey	60	40	0	0	0	Till	Moist	Mixed forest	Valley Lowland
NoSample237	BoISW	442755.1	6815911	1436.675		40-50	C	10-15	Dark Brown	100	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample238	BoISW	442822.7	6815667	1408.493	up on cliff no soil	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample239	BoISW	444113.3	6815730	1381.822		10-20	A	10-15	Light Brown	0	0	0	0	0	Till	Permafrost	Mixed forest	Mid Slope
NoSample24	BoINE	444802.1	6819198	1242.919	gravel.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample25	BoINE	446007.4	6819545	1480.019	rocky under surface	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample26	BoINE	445722.1	6819441	1414.625	thick organics followed by rocks.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample27	BoINE	445528.6	6819370	1366.49	rocky. holes flooded quickly.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample28	BoINE	445155.8	6819232	1309.638	thick moss and permafrost.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample29	BoINE	444975.9	6819157	1287.744	water filled hole.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample3	BoINE	445805	6820306	1572.929		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample30	BoINE	444697.3	6819060	1227.129	thick moss and permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample31	BoINE	444676.3	6818946	1224.202	thick moss and permafrost .	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample32	BoINE	445972.8	6819214	1462.149	rocky	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample33	BoINE	446492	6819201	1548.911	boulders	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample34	BoINE	446366	6819149	1511.99	thick organic layer then rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample35	BoINE	445975.9	6819023	1437.883	rocky ground	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample36	BoINE	445908.2	6818660	1382.506	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample37	BoINE	445859.8	6818642	1369.293	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample38	BoINE	445835.6	6820131	1476.174	boulders	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

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NoSample39	BoINE	445705.2	6820077	1434.877	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample4	BoINE	445788	6820279	1558.363		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample40	BoINE	445605.5	6820048	1407.034	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample41	BoINE	445560.2	6820027	1393.028	frozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample42	BoINE	445406.5	6819978	1350.982	creek and rocky ground	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample43	BoINE	445366.9	6819954	1340.463	creek	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample44	BoINE	445330.2	6819937	1339.623	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample45	BoINE	445204.5	6819675	1302.867	frozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample46	BoINE	445156.1	6819662	1296.619	frozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Permafrost	Mixed forest	Valley Lowland
NoSample47	BoINE	444970.4	6819588	1268.918	frozen and marshy	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample48	BoINE	444915.1	6819575	1257.475	frozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample49	BoINE	444788.9	6819521	1240.173	creek	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample5	BoINE	445750.4	6820268	1542.504		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample50	BoINE	445840.9	6819806	1461.591	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample51	BoINE	445662.6	6819740	1420.709	thick organic layer followed by wet muck, no soil	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample52	BoINE	445193	6819565	1301.164	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample53	BoINE	445010.7	6819500	1282.669	marsh	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample54	BoINE	444918	6819457	1266.192	marsh	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample55	BoINE	444863.8	6819327	1256.537	nothing but clasts	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample56	BoINE	444903.7	6819352	1268.301	nothing but gravEl	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample57	BoINE	445956.4	6819522	1469.694	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
NoSample58	BoINE	445859.8	6819501	1440.973	thick organic layer followed by rocks and water	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample59	BoINE	445767.5	6819460	1430.961	frozen	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample6	BoINE	445739.3	6820266	1538.5		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample60	BoINE	445578.8	6819393	1381.246	thick organic layer followed by rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample61	BoINE	445979.6	6818475	1371.02		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample62	BoINE	446137.5	6818759	1432.89		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample63	BoINE	445234.5	6818311	1280.866	thick moss permafrost	10-20	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample64	BoINE	445122	6818374	1257.113	permafrost under moss	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample65	BoINE	445156.8	6818386	1274.808		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample66	BoINE	446044.7	6820308	1577.416	all bedrock and moss side of a mountai	20-30	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Ridge Top
NoSample67	BoINE	445990.7	6820283	1564.883	bedrock mountain	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample68	BoINE	445947.1	6820271	1553.779	mountain	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample69	BoINE	445895.9	6820263	1550.204	organics and rock	30-40	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Ridge Top
NoSample7	BoINE	445692.7	6820225	1500.246		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample70	BoINE	445843.7	6820249	1540.78		50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
NoSample71	BoINE	445801.2	6820228	1517.869	buckbrush to organics	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
NoSample72	BoINE	445752.5	6820204	1500.013	organics bedrock	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
NoSample73	BoINE	445708.2	6820186	1477.994		50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
NoSample74	BoINE	445670.9	6820170	1464.913		50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
NoSample75	BoINE	445611.4	6820151	1443.713	buckbrush organics	50-60	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
NoSample76	BoINE	445018.6	6820044	1273.724		50-60	C	10-15	Light Brown	50	50	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample77	BoINE	444747.9	6819929	1220.451		10-20	C	10-15	Black	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample78	BoINE	444959.5	6819793	1261.369	thick moss to permafrost;	10-20	C	10-15	Light Brown	0	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample79	BoINE	445004.6	6819817	1278.226	stream near by no soil	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
NoSample8	BoINE	445484.8	6820222	1423.681		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample80	BoINE	445043.7	6819828	1280.585		50-60	C	10-15	Black	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample81	BoINE	445741.4	6819354	1420.462	all moss permafrost; and waterflow	50-60	C	10-15	Light Brown	100	0	0	0	0	Weathered bedrock	Permafrost	Mixed forest	Valley Lowland
NoSample82	BoINE	445783.6	6819999	1461.776	too many rocks , not enough soil.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample83	BoINE	445895.3	6819836	1474.25	rocky	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample84	BoINE	444706.4	6819170	1226.9	water filled holes.	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample85	BoINE	445782.3	6820430	1639.209	talus	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample86	BoINE	445644.9	6820366	1550.573		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample87	BoINE	445548.5	6820340	1483.87		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample88	BoINE	445410.7	6820289	1392.394	talus	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample89	BoINE	445358.8	6820264	1364.838	talus	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample9	BoINE	445438.9	6820191	1396.694		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample90	BoINE	445023.2	6820150	1275.426	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample91	BoINE	444933.2	6820114	1254.818	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample92	BoINE	444798.7	6820058	1228.74	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample93	BoINE	444761.8	6820051	1221.623	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample94	BoINE	446044.3	6819996	1512.149	large swampy area	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

SampleID	Area Code	UTM E NAD 83	UTM N NAD 83	elev	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Vegetation Cover	Terrain
NoSample95	BoINE	446001.8	6819964	1512.602	large swampy areas	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample96	BoINE	445770.8	6819888	1445.297	bouldery	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample97	BoINE	445675.5	6819860	1427.754	thick peat layer	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample98	BoINE	445923	6819736	1479.921	swamp thick peat	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample99	BoINE	445887.2	6819715	1472.155	thick peat	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

APPENDIX E- ROCK SAMPLES DATA

SampleID	SSample Code	AreaCode	Waypoint	gGridCode	UTM E	UTM N	Description	Area Descr.	CertName	Cu_ppm	Ni_ppm	Pb_ppm	Zn_ppm	Au_p pm	Ag_p pm	As_ ppm	Ba_ ppm
J971911	Rx-Float	BoINE	11DH-77	UTM83-9	446369	6819350	decomposed' boulder of serpentinite, rusty weath, w pervasively penetrating oxidation/fracture planes, w curved greasy shiny serp surface	Bolt NE	WH11128107	2960	1335	3.2	80	0.1	0.07	2.4	70
J971913	Rx-Float	BoINE	11DH-82	UTM83-9	446053	6819148	orange-weath leucogabbro, mostly fspar w altered amphibole and muscovite (for background metal content)	Bolt NE	WH11128107	130	124.5	0.5	21	0.1	0.02	0.5	20
J971912	Rx-Float	BoINE	11DH-82	UTM83-9	446072	6819158	orange-weath serpentinitized UMF, dk grey-green, not magnetic, wlarge xtals of cpx+opx on weathered surface	Bolt NE	WH11128107	199.5	1960	0.6	63	0.1	0.02	0.1	180
J971909	Rx-Float	BoINE	11DH-71	UTM83-9	446022	6819219	rusty UMF (serpentinite), some altered OPX? Sampled to find out background Cu-Ni values	Bolt NE	WH11128107	966	1215	0.5	127	0.1	0.03	0.8	210
J971908	Rx-Float	BoINE	11DH-48	UTM83-9			green massive volc flow w thin silica vuggy boxwork/seams/veins w strong lim-goeth-jaros alteration, <1% malachite. No vis sulph but vuggy boxwork looks like enclosed in rx matrix, not just on fracture.	Bolt NE, NE of claims	WH11128107	2080	64	0.9	148	0.1	0.03	1.5	60
J971914	Rx-Float-C	BoINE	11DH-57	UTM83-9	446242	6819576	lim-goeth-pervasively altered ferricrete, w some pale buff-coloured clasts. Same sample site as AC samples BT 001A DG09 and BT002B DG09	Bolt NE, base of kill zone	WH11128107	2630	18.2	36.5	158	0.1	0.17	5.7	120
J971910	Rx-Float-C	BoINE	11DH-77	UTM83-9	446373	6819354	ferricrete, one piece w clayey alteration of fx, otherwise pervasive lim-goeth alt. Fe smell.	Bolt NE	WH11128107	2130	171.5	20.2	58	0.1	0.21	20.4	240
J971901	Rx-Float	BoISW	11DH-37	UTM83-9	443138	6816072	interbanded dk phyllite / siltstone, crenulated. Qtz rich, foliated, w strong micaceous parting, gold coloured on weathered surface (pholog-sericite?). W loc limonite after py, in foln.	Bolt SW, drainage S of camp	WH11115566	34.8	22.2	7.4	52	0.1	0.08	13.9	400
J971907	Rx-Float	BoISW	11DH-7	UTM83-9	443303	6814865	banded carb-qtz (-ba?) vein w possible thin discontinuous seams of vfg sulphides?	Bolt SW, Campbell Range hill SW end of claims	WH11115566	44.5	4	1	10	0.1	0.04	49	100
J971902	Rx-Float	BoISW	11DH-38a	UTM83-9	443194	6815992	buff-rusty weathering strongly musc-ser altered qtz-ser schist. Qtz augens visible. Rx soft, punky, desintegrates to powder easily. No vis sulph.	Bolt SW, drainage S of camp	WH11115566	5.8	1	23.8	12	0.1	0.17	9.5	150
J971903	Rx-Float	BoISW	11DH-38b	UTM83-9	443194	6815992	buff-rusty weathering strongly musc-ser altered qtz-ser schist. Qtz augens visible. Rx soft, punky, desintegrates to powder easily. No vis sulph. More strongly altered than a. Pits: weathered out py?	Bolt SW, drainage S of camp	WH11115566	4	1	22.4	10	0.1	0.11	10.9	110

SampleID	SSample Code	AreaCode	Waypoint	gGridCode	UTM E	UTM N	Description	Area Descr.	CertName	Cu_ppm	Ni_ppm	Pb_ppm	Zn_ppm	Au_p pm	Ag_p pm	As_ ppm	Ba_ ppm
J971900	Rx-Float	BoISW	11DH-10	UTM83-9	443065	6815051	Lt green, f.g., tuffaceous? Rx w 1% vfg diss metallic sulphides? Asp? Py/po (seems too white for those)?	Bolt SW, Campbell Range hill SW end of claims	WH11115566	160	42.6	2.2	155	0.1	0.11	0.5	90
J971904	Rx-Float	BoISW	11DH-39	UTM83-9	443214	6815989	rusty weathering, greenish-yellow qtz ser schist (not as punky altered as previous sample site), w stretched qtz grains// to foln. Clusters of fg diss py (asp?) concordant w foln + diss isolated other steel-blue-gray sulphide (not hem nor mt). Total <1% s	Bolt SW, drainage S of camp	WH11115566	2	0.6	28.4	13	0.1	0.07	43.6	600
J971905	Rx-OC	BoISW	11DH-40a	UTM83-9	443237	6815987	strongly yellow-green scorodite or Fe-sulph altered qtz ser schist, strongly foliated, w qtz augens, common cm-qtz veining. 1% diss py cubes (and/or asp?), w two cm-sized patches of malachite coating.	Bolt SW, drainage S of camp	WH11115566	3.8	1.3	53.4	5	0.1	0.23	40.2	250
J971906	Rx-OC	BoISW	11DH-40b	UTM83-9	443237	6815987	~60cm below sample a, zone of qtz veining and brecciation (?), w dk mineral (Mn, pyrolusite?) and loc lim.	Bolt SW, drainage S of camp	WH11115566	2.5	0.8	35.5	8	0.1	0.23	45	240

APPENDIX F- ASSAY CERTIFICATES



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4 Canada

Submitted By: Hugh Baker
Receiving Lab: Canada-Whitehorse
Received: July 08, 2011
Report Date: August 05, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI11000506.1

CLIENT JOB INFORMATION

Project: Bolt
Shipment ID: BLT-2011-003-5
P.O. Number: quotation NA-11-435
Number of Samples: 163

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Greg Dawson
Jack Cote
Andrew Caldwell
Gilles Dessureau

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	163	Dry at 60C			WHI
SS80	163	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	160	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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

www.acmelab.com

Client:

Redtail Metals Corp

11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4 Canada

Project:

Bolt

Report Date:

August 05, 2011

Page:

2 of 7

Part 1

CERTIFICATE OF ANALYSIS

WHI11000506.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160704	Soil	0.9	47.4	7.3	48	<0.1	338.4	37.2	579	3.41	3.4	1.0	1.3	10	0.3	0.3	<0.1	59	0.55	0.028	5
1160705	Soil	1.0	36.2	7.5	99	<0.1	178.0	33.7	493	3.35	2.5	0.7	1.9	8	0.8	0.3	0.1	65	0.33	0.026	6
1160706	Soil	0.4	42.8	4.6	39	<0.1	200.1	20.1	323	2.06	1.8	<0.5	1.3	11	0.2	0.1	<0.1	37	0.51	0.025	6
1160707	Soil	1.5	25.3	5.9	62	0.1	143.7	20.0	267	2.82	1.9	<0.5	2.1	9	0.7	0.3	0.1	57	0.33	0.017	8
1160708	Soil	1.3	30.6	11.1	105	<0.1	155.3	37.4	740	3.23	2.0	0.8	1.2	8	0.8	0.3	0.1	58	0.37	0.039	7
1160709	Soil	3.4	60.8	10.6	93	0.2	44.3	10.8	333	2.98	24.0	3.3	4.4	13	0.2	2.5	0.3	30	0.03	0.041	20
1160710	Soil	1.9	52.4	13.3	106	0.3	48.1	24.8	602	5.41	20.9	0.6	3.3	10	0.5	1.9	0.2	128	0.05	0.044	16
1160711	Soil	4.4	80.4	12.6	123	0.5	56.9	14.3	605	2.95	20.6	3.1	5.5	22	0.3	6.8	0.3	20	0.03	0.038	21
1160712	Soil	5.5	115.3	19.3	111	0.4	72.0	16.4	725	3.98	26.7	2.9	5.1	21	0.2	4.3	0.4	35	0.03	0.068	21
1160713	Soil	2.2	81.3	12.1	80	0.1	65.6	14.9	1761	2.93	24.8	2.7	3.4	17	0.2	3.9	0.2	32	0.04	0.067	17
1160714	Soil	1.9	67.9	9.9	81	0.3	84.9	17.0	819	4.07	23.6	1.9	4.7	11	0.1	2.6	0.2	63	0.09	0.052	19
1160715	Soil	1.8	34.5	12.4	68	0.4	36.1	9.7	440	2.90	10.0	2.0	6.3	9	0.2	1.4	0.2	36	0.09	0.039	21
1160716	Soil	2.5	56.5	15.9	93	1.6	57.7	11.4	377	3.25	13.6	3.7	6.1	15	0.2	2.0	0.2	47	0.07	0.035	20
1160717	Soil	2.3	40.5	14.3	73	1.5	26.9	6.9	294	2.39	11.6	1.6	2.0	12	0.2	2.1	0.3	30	0.06	0.087	18
1160718	Soil	2.6	44.4	16.5	68	0.2	26.6	7.9	322	2.85	15.6	0.8	5.0	18	0.2	1.8	0.2	40	0.05	0.081	17
1160719	Soil	2.2	44.1	14.4	63	0.2	39.2	16.9	1622	2.78	23.8	3.2	2.4	15	0.2	1.8	0.2	28	0.09	0.066	18
1160720	Soil	0.8	12.4	14.1	43	<0.1	33.5	8.7	267	2.39	6.5	1.0	3.9	10	0.3	0.6	0.1	49	0.17	0.034	11
1160721	Soil	0.7	91.8	5.7	46	0.2	288.0	34.3	585	2.81	2.3	<0.5	1.1	14	0.1	0.6	<0.1	51	0.72	0.056	6
1160722	Soil	0.7	32.2	7.8	40	<0.1	277.2	29.9	368	3.20	2.2	<0.5	1.0	11	0.1	0.3	<0.1	62	0.54	0.015	4
1160723	Soil	0.4	33.3	3.9	30	<0.1	113.1	11.3	174	1.55	1.7	0.9	2.0	12	<0.1	0.2	<0.1	29	0.45	0.035	8
1160724	Soil	0.2	24.2	3.6	21	<0.1	1036	87.1	746	3.63	<0.5	<0.5	0.2	5	0.2	<0.1	<0.1	36	0.10	0.027	1
1160725	Soil	0.3	8.8	1.7	13	<0.1	30.5	5.8	123	0.61	<0.5	0.9	0.4	6	<0.1	0.1	0.1	22	0.09	0.018	2
1160726	Soil	0.8	44.7	8.9	53	<0.1	214.5	34.8	534	2.88	1.9	0.9	1.2	9	0.3	0.3	0.1	50	0.42	0.028	6
1160727	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160728	Soil	2.3	50.2	18.8	91	0.2	43.9	14.1	473	3.26	14.6	4.2	8.5	14	0.3	1.8	0.3	32	0.04	0.029	25
1160729	Soil	3.3	52.4	13.8	94	0.3	36.8	8.5	282	3.12	14.1	3.9	5.7	24	0.2	2.6	0.3	38	0.05	0.039	21
1160730	Soil	2.1	40.8	15.8	78	0.3	28.5	6.5	217	2.78	15.6	5.6	5.8	27	0.1	2.3	0.2	26	0.04	0.033	21
1160731	Soil	1.8	34.9	15.5	112	0.4	38.6	9.6	446	3.44	14.1	8.7	6.0	25	0.6	1.9	0.3	33	0.08	0.063	23
1160732	Soil	5.0	89.7	28.3	174	1.4	59.4	12.9	500	4.17	221.6	17.2	7.5	68	0.3	9.1	0.4	31	0.03	0.107	29
1160733	Soil	1.3	24.3	11.3	56	0.4	25.9	13.2	1940	2.23	11.0	0.7	3.0	12	0.7	1.0	0.3	31	0.11	0.055	18



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160704	Soil	360	3.81	117	0.085	3	2.15	0.011	0.03	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
1160705	Soil	249	1.84	128	0.086	1	1.89	0.008	0.03	0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
1160706	Soil	208	2.35	97	0.071	1	1.72	0.010	0.02	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
1160707	Soil	187	1.73	132	0.076	1	1.98	0.005	0.04	0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
1160708	Soil	212	1.74	158	0.065	2	2.12	0.006	0.04	0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
1160709	Soil	29	0.38	216	0.009	<1	0.83	0.004	0.09	<0.1	0.02	1.4	<0.1	<0.05	3	1.1	<0.2
1160710	Soil	66	1.01	338	0.006	<1	2.09	0.007	0.10	<0.1	0.03	6.1	<0.1	<0.05	7	<0.5	<0.2
1160711	Soil	21	0.17	157	0.005	1	0.55	0.004	0.10	<0.1	0.08	1.3	<0.1	<0.05	2	1.8	<0.2
1160712	Soil	38	0.47	150	0.009	<1	1.17	0.004	0.11	0.1	0.04	2.0	<0.1	<0.05	3	1.6	0.3
1160713	Soil	31	0.32	231	0.008	<1	0.87	0.005	0.08	<0.1	0.04	1.8	<0.1	<0.05	3	0.7	<0.2
1160714	Soil	98	1.12	358	0.015	<1	1.85	0.004	0.09	<0.1	0.08	3.6	<0.1	<0.05	6	0.5	<0.2
1160715	Soil	52	0.44	114	0.016	<1	1.22	0.004	0.08	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1160716	Soil	73	0.66	238	0.024	<1	1.65	0.006	0.10	0.1	0.06	2.4	<0.1	<0.05	4	0.8	<0.2
1160717	Soil	28	0.29	199	0.016	<1	1.02	0.005	0.09	<0.1	0.03	1.1	<0.1	<0.05	4	0.5	<0.2
1160718	Soil	34	0.32	144	0.017	<1	1.06	0.005	0.06	0.1	0.01	1.4	<0.1	<0.05	4	0.7	<0.2
1160719	Soil	46	0.41	296	0.019	<1	0.92	0.005	0.08	<0.1	0.69	1.2	<0.1	<0.05	3	0.7	<0.2
1160720	Soil	63	0.62	220	0.092	<1	1.30	0.004	0.04	0.2	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
1160721	Soil	350	3.18	165	0.051	3	2.39	0.013	0.04	<0.1	0.04	5.3	<0.1	<0.05	4	<0.5	<0.2
1160722	Soil	299	3.80	85	0.094	2	2.62	0.012	0.02	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
1160723	Soil	131	1.49	91	0.044	1	1.29	0.012	0.02	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1160724	Soil	1103	17.20	51	0.008	41	0.82	0.005	<0.01	<0.1	0.02	6.2	<0.1	<0.05	2	<0.5	<0.2
1160725	Soil	40	0.36	38	0.028	1	0.63	0.025	0.02	<0.1	0.01	0.6	<0.1	0.15	2	<0.5	<0.2
1160726	Soil	272	2.68	109	0.051	2	2.25	0.011	0.03	<0.1	0.02	2.5	<0.1	0.08	5	<0.5	<0.2
1160727	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160728	Soil	33	0.36	393	0.011	2	1.74	0.004	0.12	<0.1	0.04	2.1	0.1	<0.05	4	0.6	<0.2
1160729	Soil	34	0.32	225	0.011	2	1.32	0.004	0.11	<0.1	0.02	1.8	0.1	0.07	5	0.8	<0.2
1160730	Soil	23	0.51	413	0.004	2	1.69	0.007	0.09	<0.1	0.02	1.6	<0.1	0.08	5	<0.5	<0.2
1160731	Soil	43	0.60	635	0.009	1	1.40	0.008	0.12	<0.1	0.02	1.6	<0.1	0.07	5	<0.5	<0.2
1160732	Soil	31	0.44	318	0.005	<1	1.26	0.007	0.21	<0.1	0.02	2.0	0.1	0.19	5	1.4	<0.2
1160733	Soil	42	0.34	374	0.013	2	1.10	0.007	0.10	<0.1	0.04	1.4	<0.1	<0.05	4	<0.5	<0.2



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Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1160734	Soil																							
1160735	Soil																							
1160736	Soil																							
1160737	Soil																							
1160738	Soil																							
1160739	Soil																							
1160740	Soil																							
1160741	Soil																							
1160742	Soil																							
1160743	Soil																							
1160744	Soil																							
1160745	Soil																							
1160746	Soil																							
1160747	Soil																							
1160748	Soil																							
1160749	Soil																							
1160750	Soil																							
1160593	Soil																							
1160594	Soil																							
1160595	Soil																							
1160596	Soil																							
1160597	Soil																							
1160598	Soil																							
1160599	Soil																							
1160600	Soil																							
1160001	Soil																							
1160002	Soil																							
1160003	Soil																							
1160004	Soil																							
1160005	Soil																							



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160734	Soil	24	0.26	148	0.008	<1	0.83	0.004	0.13	<0.1	0.02	1.5	<0.1	<0.05	4	1.2	<0.2
1160735	Soil	38	0.32	240	0.013	<1	0.87	0.009	0.10	<0.1	0.02	1.5	0.1	0.09	4	1.9	<0.2
1160736	Soil	42	0.76	395	0.005	1	1.61	0.003	0.12	0.1	0.03	3.1	0.1	0.07	5	1.2	<0.2
1160737	Soil	23	0.26	192	0.003	<1	0.92	0.003	0.09	<0.1	0.03	1.6	<0.1	0.06	2	0.9	<0.2
1160738	Soil	54	0.69	367	0.014	2	1.59	0.006	0.11	<0.1	0.06	3.1	<0.1	0.05	5	0.6	<0.2
1160739	Soil	31	0.43	399	0.003	1	1.22	0.004	0.13	<0.1	0.05	1.6	<0.1	0.09	4	1.1	<0.2
1160740	Soil	42	0.18	324	0.004	<1	1.50	0.011	0.15	0.3	2.98	2.0	0.2	0.12	4	10.7	0.5
1160741	Soil	45	0.42	129	0.007	2	1.12	0.006	0.11	<0.1	0.02	2.1	<0.1	0.09	4	0.6	<0.2
1160742	Soil	46	0.17	222	0.007	<1	0.84	0.005	0.11	<0.1	0.04	2.6	0.1	<0.05	4	0.6	<0.2
1160743	Soil	136	1.16	152	0.024	1	1.43	0.005	0.07	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
1160744	Soil	31	0.46	234	0.007	<1	1.59	0.004	0.11	<0.1	0.03	1.7	<0.1	<0.05	5	0.6	<0.2
1160745	Soil	8	0.08	104	0.030	<1	0.68	0.028	0.03	<0.1	0.09	0.5	<0.1	0.12	2	<0.5	<0.2
1160746	Soil	50	0.40	198	0.227	2	1.27	0.011	0.07	0.1	0.07	2.6	<0.1	0.15	7	<0.5	<0.2
1160747	Soil	67	0.71	191	0.231	4	1.86	0.007	0.08	0.2	0.10	5.4	<0.1	0.12	6	<0.5	<0.2
1160748	Soil	57	0.86	140	0.163	2	1.82	0.006	0.05	0.2	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
1160749	Soil	52	0.47	103	0.190	3	1.48	0.006	0.04	0.1	0.04	3.0	<0.1	<0.05	6	<0.5	<0.2
1160750	Soil	69	0.46	183	0.064	4	1.09	0.016	0.07	0.2	0.02	1.4	<0.1	0.06	4	<0.5	<0.2
1160593	Soil	128	1.11	116	0.059	2	1.39	0.011	0.04	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1160594	Soil	139	1.48	71	0.046	2	1.33	0.013	0.03	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1160595	Soil	427	5.29	198	0.098	7	2.25	0.009	0.02	<0.1	0.03	5.2	<0.1	<0.05	5	<0.5	<0.2
1160596	Soil	278	3.10	124	0.060	3	2.21	0.011	0.03	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1160597	Soil	459	5.12	73	0.084	6	2.06	0.009	0.02	<0.1	0.02	5.3	<0.1	<0.05	4	<0.5	<0.2
1160598	Soil	375	3.99	121	0.073	6	1.86	0.007	0.03	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
1160599	Soil	479	4.05	168	0.090	8	2.19	0.013	0.04	<0.1	0.04	6.5	<0.1	<0.05	4	<0.5	<0.2
1160600	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160001	Soil	132	0.90	152	0.160	2	1.77	0.009	0.06	0.1	0.04	3.2	<0.1	<0.05	7	<0.5	<0.2
1160002	Soil	88	0.92	236	0.135	2	1.68	0.010	0.05	0.2	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
1160003	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160004	Soil	84	0.72	104	0.205	2	1.48	0.011	0.04	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
1160005	Soil	183	1.49	189	0.134	2	1.70	0.011	0.04	0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160006	Soil	0.4	428.5	12.0	82	<0.1	295.0	32.3	454	2.36	2.0	2.7	1.8	18	0.2	0.2	0.1	37	0.86	0.064	10
1160007	Soil	0.6	1082	5.6	173	<0.1	344.5	44.1	474	3.16	2.9	1.3	1.4	13	0.5	0.3	<0.1	51	0.74	0.035	6
1160008	Soil	0.3	51.4	4.9	39	<0.1	154.3	18.2	320	2.01	1.3	1.0	1.6	15	0.2	0.1	<0.1	39	0.65	0.027	7
1160009	Soil	0.7	37.9	5.5	50	<0.1	176.0	17.6	306	2.25	3.2	2.8	2.2	9	0.1	0.4	<0.1	41	0.36	0.016	8
1160010	Soil	1.1	36.6	8.0	53	0.1	123.7	17.9	309	2.42	5.1	2.5	2.9	16	0.1	0.6	0.2	43	0.35	0.025	9
1160011	Soil	1.1	36.1	9.2	62	0.2	77.8	16.5	463	2.47	7.4	2.7	3.7	15	0.2	1.0	0.2	38	0.32	0.034	13
1160012	Soil	1.6	56.6	13.2	66	0.6	95.2	16.3	488	2.54	15.9	2.5	0.8	19	0.6	1.2	0.2	43	0.26	0.061	10
1160013	Soil	1.5	49.8	13.0	80	<0.1	97.1	16.6	909	3.06	7.4	8.5	4.0	14	0.2	1.3	0.2	35	0.24	0.031	17
1160014	Soil	2.4	51.9	9.7	86	0.2	40.2	8.2	425	2.40	13.3	6.2	2.4	8	0.2	5.2	0.3	44	0.04	0.034	18
1160015	Soil	0.9	38.5	8.8	64	<0.1	107.1	15.6	464	2.28	4.7	2.8	3.0	15	0.4	0.8	0.1	40	0.45	0.033	13
1160016	Soil	0.5	111.9	7.6	78	<0.1	164.3	15.9	274	2.40	2.3	2.2	2.1	11	0.6	0.3	<0.1	55	0.45	0.012	9
1160017	Soil	0.6	1133	4.6	105	<0.1	245.4	24.0	342	2.67	2.7	2.0	1.9	15	0.5	0.3	<0.1	47	0.49	0.057	10
1160018	Soil	1.0	1291	7.6	139	<0.1	192.3	35.1	556	3.42	3.0	1.8	2.0	13	0.9	0.3	0.1	61	0.42	0.039	10
1160019	Soil	0.2	65.9	2.5	6	<0.1	24.2	1.2	25	0.28	<0.5	0.7	<0.1	11	<0.1	<0.1	<0.1	6	0.29	0.014	1
1160020	Soil	0.5	115.5	5.7	87	<0.1	371.7	35.9	452	3.15	2.6	0.5	2.1	9	0.3	0.3	<0.1	46	0.42	0.022	7
1160021	Soil	0.5	3816	4.1	112	0.1	247.6	68.7	826	2.47	2.6	1.1	0.7	16	0.4	0.3	<0.1	34	0.40	0.073	9
1160022	Soil	0.7	41.6	4.9	41	<0.1	207.7	20.5	262	2.38	3.2	1.0	2.1	10	0.1	0.3	<0.1	40	0.44	0.019	7
1160023	Soil	0.9	49.5	6.4	52	<0.1	240.6	32.4	436	3.50	4.4	1.7	2.5	10	0.2	0.4	0.1	57	0.40	0.035	8
1160024	Soil	0.6	36.1	4.6	37	<0.1	132.7	16.2	258	2.12	2.9	1.9	2.7	10	<0.1	0.3	<0.1	34	0.50	0.023	9
1160025	Soil	1.0	29.6	6.5	75	<0.1	139.9	22.6	381	3.53	3.8	1.7	2.3	11	0.5	0.4	0.2	73	0.44	0.025	8
1160026	Soil	0.9	32.3	6.3	60	<0.1	117.2	18.6	235	2.64	5.2	2.0	2.5	15	0.3	0.5	0.1	50	0.35	0.041	8
1160027	Soil	1.0	12.6	7.1	60	<0.1	49.6	11.5	229	2.55	2.2	1.1	3.3	13	0.3	0.4	0.2	65	0.28	0.024	13
1160028	Soil	0.9	33.7	6.3	56	0.1	138.8	22.3	304	2.90	4.8	1.9	2.8	17	0.2	0.5	0.1	54	0.46	0.028	9
1160029	Soil	1.0	26.7	7.0	99	0.2	115.0	19.3	396	3.67	4.6	1.9	1.2	26	0.4	0.9	0.1	83	0.45	0.054	6
1160030	Soil	1.0	39.8	11.3	66	1.0	151.4	20.7	360	3.34	6.4	9.5	3.4	16	0.2	0.9	0.2	46	0.34	0.031	11
1160031	Soil	1.6	36.2	12.8	74	0.1	87.8	15.1	503	3.17	8.3	7.4	2.8	11	0.2	1.1	0.2	43	0.27	0.034	14
1160032	Soil	1.5	25.1	13.0	63	0.2	146.8	17.1	293	3.96	12.1	4.2	2.3	12	0.1	1.2	0.2	57	0.21	0.053	9
1160033	Soil	1.6	25.4	11.3	108	0.5	83.4	13.6	379	3.07	8.3	2.4	3.8	14	0.4	0.9	0.2	59	0.20	0.045	15
1160034	Soil	1.6	32.5	14.3	99	0.1	99.2	21.1	874	4.12	14.2	3.6	3.0	11	0.4	1.6	0.3	49	0.19	0.098	14
1160035	Soil	1.9	32.2	11.9	73	0.2	74.9	12.2	415	3.27	16.5	1.8	2.5	11	0.9	1.6	0.2	53	0.22	0.066	14



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Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160006	Soil	279	2.41	129	0.060	5	1.75	0.015	0.04	0.1	0.04	5.5	<0.1	<0.05	4	<0.5	<0.2
1160007	Soil	319	3.92	93	0.059	3	2.06	0.012	0.03	<0.1	0.02	4.2	0.1	<0.05	4	0.8	<0.2
1160008	Soil	172	1.95	117	0.055	1	2.18	0.014	0.04	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
1160009	Soil	196	1.97	162	0.060	2	1.56	0.007	0.03	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1160010	Soil	135	1.38	282	0.042	1	2.23	0.011	0.04	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
1160011	Soil	95	1.00	224	0.036	1	1.81	0.008	0.04	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
1160012	Soil	113	0.74	588	0.015	<1	1.47	0.009	0.08	<0.1	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
1160013	Soil	93	0.80	199	0.016	1	1.68	0.006	0.05	<0.1	0.03	2.4	<0.1	<0.05	4	0.5	<0.2
1160014	Soil	23	0.10	71	0.012	<1	0.74	0.003	0.05	0.1	<0.01	1.2	<0.1	<0.05	4	1.0	<0.2
1160015	Soil	121	1.13	247	0.068	2	1.36	0.008	0.05	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
1160016	Soil	209	2.14	73	0.099	2	1.75	0.009	0.03	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
1160017	Soil	279	2.67	122	0.073	4	1.53	0.011	0.03	<0.1	0.03	4.7	0.4	<0.05	3	0.6	<0.2
1160018	Soil	263	1.71	96	0.072	2	1.87	0.010	0.04	0.1	0.02	3.8	0.8	<0.05	5	0.6	<0.2
1160019	Soil	11	0.13	32	0.012	<1	0.21	0.036	0.02	<0.1	0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
1160020	Soil	406	4.93	84	0.060	2	1.70	0.008	0.02	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
1160021	Soil	255	1.93	119	0.033	2	1.81	0.013	0.04	<0.1	0.03	3.7	0.4	0.06	3	0.7	<0.2
1160022	Soil	191	2.14	127	0.056	1	2.47	0.009	0.03	0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1160023	Soil	282	2.91	132	0.057	2	2.35	0.011	0.04	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1160024	Soil	145	1.91	133	0.050	<1	2.27	0.010	0.03	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
1160025	Soil	236	1.82	91	0.089	1	2.17	0.008	0.04	0.1	<0.01	2.4	<0.1	<0.05	8	<0.5	<0.2
1160026	Soil	139	1.44	194	0.048	<1	3.04	0.008	0.03	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1160027	Soil	89	0.90	91	0.077	<1	2.05	0.009	0.03	0.1	0.01	1.8	<0.1	<0.05	8	<0.5	<0.2
1160028	Soil	143	1.83	352	0.056	1	3.09	0.009	0.05	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
1160029	Soil	142	2.04	463	0.053	1	2.90	0.009	0.05	<0.1	0.03	3.9	<0.1	<0.05	8	<0.5	<0.2
1160030	Soil	137	1.40	189	0.033	1	2.43	0.008	0.03	<0.1	0.03	2.4	<0.1	<0.05	5	0.7	<0.2
1160031	Soil	131	1.10	299	0.016	<1	1.79	0.007	0.05	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
1160032	Soil	196	1.61	182	0.021	1	2.46	0.006	0.05	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
1160033	Soil	106	0.96	351	0.030	2	2.45	0.006	0.07	0.1	0.03	2.8	0.1	<0.05	7	<0.5	<0.2
1160034	Soil	164	1.24	162	0.025	<1	1.69	0.006	0.07	<0.1	0.02	2.0	<0.1	<0.05	6	0.8	<0.2
1160035	Soil	116	0.79	207	0.039	<1	1.33	0.006	0.07	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160036	Soil	2.6	55.8	15.1	97	0.3	37.2	7.5	263	2.89	16.4	7.3	6.1	30	0.3	3.7	0.3	40	0.05	0.048	22
1160037	Soil	2.5	43.7	15.4	73	0.2	37.5	10.6	516	3.40	26.7	3.7	7.3	12	0.2	2.3	0.4	30	0.04	0.055	26
1160038	Soil	2.5	36.4	14.9	66	0.2	29.9	8.2	387	3.05	24.1	4.1	6.2	14	0.2	2.0	0.4	28	0.06	0.055	27
1160051	Soil	0.8	432.0	5.5	143	<0.1	278.5	24.5	362	2.50	2.9	3.1	2.1	13	0.3	0.4	0.2	47	0.50	0.048	10
1160052	Soil	0.8	525.9	4.9	155	<0.1	270.2	25.1	401	2.45	2.8	1.7	2.0	11	0.2	0.3	0.1	44	0.48	0.045	9
1160053	Soil	1.0	1822	7.0	137	<0.1	382.5	65.6	760	3.29	3.5	1.6	1.0	10	0.5	0.3	0.1	49	0.52	0.069	7
1160054	Soil	0.7	94.9	4.2	59	<0.1	158.1	21.0	254	2.51	2.8	4.5	2.4	8	<0.1	0.3	0.2	47	0.39	0.012	8
1160055	Soil	1.0	22.1	6.4	53	0.1	79.0	16.0	308	2.81	1.9	1.9	1.9	6	0.3	0.3	0.2	72	0.22	0.033	8
1160056	Soil	0.7	960.1	4.3	53	<0.1	129.5	17.4	271	1.81	1.6	1.3	1.0	7	0.2	0.2	0.1	33	0.27	0.036	7
1160057	Soil	0.6	54.3	5.2	40	<0.1	97.9	12.9	247	1.75	2.6	1.4	3.1	11	<0.1	0.3	<0.1	34	0.43	0.035	11
1160058	Soil	0.7	53.3	4.5	44	<0.1	115.3	13.3	209	1.94	2.7	2.1	2.2	8	0.1	0.3	<0.1	43	0.43	0.014	8
1160059	Soil	0.5	29.4	5.1	37	<0.1	102.3	15.7	189	2.17	3.2	2.4	2.4	9	0.1	0.3	<0.1	54	0.45	0.014	9
1160060	Soil	0.6	25.7	4.2	38	<0.1	107.6	16.3	233	2.18	2.1	1.8	1.9	14	<0.1	0.2	<0.1	50	0.56	0.015	7
1160061	Soil	0.8	14.6	6.1	57	<0.1	60.9	13.1	236	2.27	2.5	1.9	2.8	8	0.3	0.3	0.2	62	0.29	0.023	10
1160062	Soil	0.5	23.5	4.6	45	0.4	139.2	19.7	229	2.59	2.9	1.4	1.6	20	0.3	0.3	<0.1	61	0.40	0.027	7
1160063	Soil	0.8	18.5	4.8	51	<0.1	56.6	8.4	150	2.21	1.9	1.2	1.0	13	0.4	0.4	<0.1	50	0.42	0.056	5
1160064	Soil	0.8	23.3	5.4	82	<0.1	86.9	18.8	492	2.15	1.7	1.7	0.5	15	1.0	0.5	0.1	41	0.44	0.038	8
1160065	Soil	1.8	35.8	11.0	78	0.5	81.6	15.2	260	3.19	11.6	3.9	3.5	13	0.4	1.3	0.2	53	0.14	0.056	14
1160066	Soil	2.2	46.3	12.0	82	0.4	71.0	13.8	578	2.92	10.9	6.4	5.0	15	0.1	1.4	0.2	45	0.18	0.044	16
1160067	Soil	1.2	25.4	7.2	61	0.1	74.8	10.8	189	2.63	6.9	0.8	1.7	15	0.3	1.1	0.1	48	0.28	0.042	8
1160068	Soil	1.8	40.3	13.2	89	0.5	77.2	13.6	554	3.74	19.7	5.5	2.6	8	0.5	1.5	0.2	51	0.11	0.077	12
1160069	Soil	0.8	10.8	4.1	26	0.4	14.0	3.2	260	0.63	1.6	3.2	0.2	6	0.3	0.4	0.3	19	0.11	0.025	10
1160070	Soil	2.4	88.6	13.9	102	0.5	85.0	17.8	681	3.55	22.2	4.3	5.8	10	0.3	4.0	0.3	42	0.07	0.048	19
1160071	Soil	2.6	53.4	16.1	93	0.6	42.7	10.8	399	3.21	25.4	3.7	7.9	13	0.3	2.5	0.3	34	0.03	0.047	27
1160072	Soil	2.4	68.9	13.2	97	0.6	50.6	12.4	570	3.20	12.9	10.5	3.2	47	0.1	2.2	0.3	37	0.38	0.059	17
1160073	Soil	3.4	57.9	15.0	109	0.5	37.7	13.1	1009	2.96	25.8	4.4	4.0	19	0.4	2.9	0.3	32	0.05	0.064	21
1160074	Soil	1.4	13.0	24.3	189	2.0	30.6	24.2	956	4.54	22.4	1.5	7.5	9	1.1	0.4	0.3	45	0.08	0.094	30
1160075	Soil	1.5	21.3	8.6	59	0.3	23.5	6.8	401	2.20	7.9	2.1	3.1	12	0.3	1.1	0.2	42	0.05	0.054	16
1160076	Soil	2.2	49.5	11.0	112	0.3	55.0	11.8	933	3.09	16.6	2.5	5.0	10	0.4	3.7	0.2	47	0.04	0.045	16
1160077	Soil	0.6	22.0	4.1	112	0.4	110.4	14.1	244	2.89	1.9	<0.5	1.0	11	0.5	0.4	<0.1	52	0.38	0.070	5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160036	Soil	29	0.41	187	0.018	<1	1.48	0.006	0.11	<0.1	0.03	1.7	<0.1	<0.05	5	0.9	<0.2
1160037	Soil	31	0.34	244	0.003	1	1.32	0.003	0.08	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
1160038	Soil	27	0.30	303	0.003	<1	1.29	0.004	0.08	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
1160051	Soil	268	2.58	141	0.057	3	1.60	0.007	0.03	0.1	0.02	3.9	<0.1	0.06	4	<0.5	<0.2
1160052	Soil	253	2.42	146	0.051	2	1.50	0.009	0.02	0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1160053	Soil	409	4.03	106	0.043	4	2.26	0.007	0.03	<0.1	0.02	4.5	0.3	<0.05	4	0.6	<0.2
1160054	Soil	150	1.89	146	0.054	1	2.44	0.014	0.03	<0.1	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
1160055	Soil	150	0.96	79	0.088	<1	1.58	0.008	0.03	0.2	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
1160056	Soil	146	1.32	103	0.029	2	1.72	0.010	0.03	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
1160057	Soil	109	1.31	123	0.045	<1	1.56	0.015	0.03	0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1160058	Soil	149	1.53	99	0.052	<1	2.02	0.010	0.02	0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1160059	Soil	133	1.53	117	0.060	1	2.25	0.007	0.03	0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
1160060	Soil	142	1.76	115	0.057	<1	2.48	0.009	0.02	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
1160061	Soil	91	0.97	152	0.060	<1	2.28	0.008	0.03	<0.1	<0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
1160062	Soil	182	1.75	179	0.051	<1	2.77	0.007	0.03	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1160063	Soil	82	0.77	102	0.054	<1	1.31	0.008	0.03	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1160064	Soil	129	1.14	169	0.026	1	1.64	0.009	0.04	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1160065	Soil	106	0.90	244	0.020	2	2.12	0.006	0.08	0.1	0.04	2.6	<0.1	<0.05	5	0.6	<0.2
1160066	Soil	72	0.66	427	0.023	2	1.80	0.005	0.08	0.1	0.07	3.6	<0.1	<0.05	4	0.8	<0.2
1160067	Soil	96	1.00	229	0.025	<1	1.46	0.007	0.04	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1160068	Soil	108	0.89	227	0.016	<1	1.83	0.006	0.06	<0.1	0.02	2.4	<0.1	<0.05	5	0.7	<0.2
1160069	Soil	25	0.15	85	0.015	<1	0.46	0.011	0.06	<0.1	0.01	0.5	0.1	<0.05	2	<0.5	<0.2
1160070	Soil	60	0.43	131	0.013	<1	1.58	0.004	0.10	0.1	0.07	2.8	0.1	<0.05	4	0.6	<0.2
1160071	Soil	35	0.49	185	0.004	<1	1.46	0.004	0.12	<0.1	0.03	1.9	0.1	<0.05	4	<0.5	<0.2
1160072	Soil	41	0.54	562	0.004	2	1.26	0.007	0.14	<0.1	0.30	3.3	0.1	0.08	4	0.8	<0.2
1160073	Soil	25	0.30	153	0.006	2	1.24	0.009	0.11	<0.1	0.04	1.6	<0.1	<0.05	4	0.5	<0.2
1160074	Soil	33	0.76	252	0.009	<1	2.78	0.008	0.11	<0.1	0.07	2.4	<0.1	<0.05	8	<0.5	<0.2
1160075	Soil	37	0.36	118	0.019	<1	0.96	0.007	0.07	0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
1160076	Soil	36	0.34	203	0.012	<1	1.85	0.005	0.08	0.1	0.05	2.4	0.1	<0.05	5	0.8	<0.2
1160077	Soil	170	1.52	100	0.048	<1	2.08	0.008	0.03	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1160078	Soil				0.7	27.0	5.0	53	<0.1	163.5	19.5	245	2.90	2.7	<0.5	1.4	16	0.2	0.2	<0.1	58	0.44	0.033	5
1160079	Soil				0.7	33.2	5.4	51	<0.1	111.7	19.2	248	2.26	3.7	1.8	2.2	14	<0.1	0.4	0.1	50	0.38	0.035	7
1160080	Soil				1.0	17.7	5.1	47	<0.1	63.7	10.6	169	2.37	1.7	<0.5	1.9	6	0.2	0.3	0.1	53	0.25	0.034	7
1160081	Soil				0.6	20.2	4.1	43	<0.1	81.6	15.5	180	2.65	2.2	1.2	1.1	9	0.4	0.3	<0.1	62	0.48	0.041	6
1160082	Soil				0.8	36.9	5.5	53	<0.1	112.3	16.5	289	2.27	3.2	<0.5	2.2	12	0.1	0.3	0.1	55	0.42	0.044	9
1160083	Soil				0.9	35.6	5.5	81	0.1	154.2	22.4	291	3.76	2.6	1.5	1.1	9	0.5	0.4	0.1	70	0.37	0.062	6
1160084	Soil				0.8	64.5	4.0	49	<0.1	62.3	7.8	134	1.62	2.2	5.8	0.8	7	0.3	0.3	0.2	46	0.17	0.020	5
1160085	Soil				0.8	1322	5.8	83	<0.1	209.8	30.7	502	3.44	3.4	5.2	2.3	10	0.4	0.3	0.2	46	0.37	0.051	10
1160086	Soil				0.8	3377	8.6	53	0.1	191.9	19.6	336	12.03	3.8	6.0	2.3	7	0.3	0.2	0.2	62	0.24	0.079	6
1160901	Soil				0.7	70.3	5.5	53	<0.1	183.2	23.2	375	2.77	3.3	3.2	1.8	11	0.2	0.3	0.1	36	0.53	0.023	9
1160902	Soil				0.3	60.9	4.1	45	<0.1	580.2	48.4	340	3.02	0.8	0.9	1.7	19	0.2	0.1	<0.1	32	0.68	0.033	6
1160903	Soil				0.8	58.2	6.4	68	<0.1	204.2	23.2	484	2.65	4.5	2.2	2.1	16	0.3	0.5	0.1	38	0.47	0.059	9
1160904	Soil				2.3	29.0	9.2	58	0.1	29.1	8.0	385	2.37	11.6	2.4	4.5	12	0.2	1.4	0.2	27	0.06	0.022	21
1160905	Soil				2.2	29.1	9.8	56	<0.1	27.6	7.9	379	2.36	11.5	3.8	4.4	12	0.3	1.4	0.2	30	0.06	0.024	22
1160906	Soil				1.9	41.3	13.8	81	0.1	52.6	13.2	674	2.71	9.8	9.0	5.3	11	0.2	1.3	0.3	34	0.17	0.035	19
1160907	Soil				2.0	50.1	15.9	101	0.3	91.2	16.4	991	3.46	11.1	8.8	3.4	23	0.3	1.2	0.3	41	0.43	0.057	14
1160908	Soil				1.7	56.3	12.6	89	0.1	101.6	18.3	801	3.36	10.4	3.5	4.9	16	0.3	1.4	0.2	40	0.36	0.045	18
1160909	Soil				0.6	94.2	6.2	77	0.1	307.5	32.8	571	3.41	4.0	<0.5	1.9	14	0.4	0.3	0.1	49	0.66	0.044	10
1160910	Soil				0.6	66.9	5.2	67	<0.1	259.1	25.2	440	3.00	3.7	2.2	2.1	14	0.3	0.3	0.1	46	0.76	0.044	8
1160911	Soil				0.7	5395	5.5	307	0.1	373.3	109.5	769	3.38	2.9	3.5	1.5	16	1.1	0.2	0.1	52	0.73	0.064	9
1160912	Soil				0.7	203.1	5.2	114	<0.1	387.2	38.1	500	4.09	3.0	0.9	1.3	12	0.3	0.2	0.1	40	0.73	0.041	6
1160913	Soil				0.7	48.9	5.6	52	0.1	122.4	16.3	242	2.51	2.7	1.9	2.4	11	0.3	0.3	0.1	45	0.48	0.025	9
1160914	Soil				1.5	36.0	10.6	59	0.2	72.2	13.1	265	2.86	11.6	1.9	4.2	10	0.3	1.4	0.2	35	0.20	0.021	18
1160915	Soil				0.6	39.4	7.6	60	<0.1	253.5	31.3	471	3.44	6.7	0.7	2.3	15	0.1	0.5	0.1	46	0.52	0.024	9
1160916	Soil				1.3	26.6	7.6	76	<0.1	95.0	15.3	450	2.90	6.3	<0.5	2.5	9	0.4	1.0	0.2	41	0.34	0.040	10
1160917	Soil				3.0	37.9	14.5	85	0.1	37.1	9.8	641	3.64	12.9	3.5	2.8	17	0.2	1.4	0.2	29	0.03	0.064	22
1160918	Soil				1.8	29.2	9.1	46	0.7	19.6	8.7	1431	1.79	10.0	2.5	1.2	7	0.2	1.2	0.2	23	0.03	0.052	11
1160919	Soil				1.6	34.6	10.5	60	0.3	54.6	22.7	2231	3.01	18.1	<0.5	2.4	8	0.3	1.6	0.2	48	0.18	0.071	14
1160920	Soil				2.8	102.2	16.4	116	0.2	129.2	33.9	2937	3.30	36.4	2.3	5.1	11	0.4	2.2	0.2	35	0.09	0.034	20
1160921	Soil				5.5	77.2	22.6	119	0.6	47.7	12.7	410	4.46	24.0	15.8	7.7	35	0.3	2.5	0.4	32	0.02	0.048	24



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160078	Soil	189	1.95	115	0.061	1	2.86	0.007	0.03	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1160079	Soil	125	1.46	175	0.043	<1	2.82	0.009	0.03	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
1160080	Soil	112	0.94	93	0.061	<1	1.70	0.010	0.03	0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
1160081	Soil	115	1.08	89	0.080	<1	2.45	0.010	0.02	0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
1160082	Soil	165	1.72	169	0.042	1	2.29	0.008	0.03	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
1160083	Soil	260	1.83	133	0.064	1	2.57	0.009	0.03	0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
1160084	Soil	114	0.43	50	0.083	2	0.64	0.014	0.03	<0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
1160085	Soil	345	2.34	123	0.079	3	1.63	0.006	0.03	0.1	0.04	8.3	0.8	<0.05	4	<0.5	<0.2
1160086	Soil	487	1.96	106	0.161	3	1.26	0.009	0.03	<0.1	0.02	7.2	1.5	0.07	6	1.2	<0.2
1160901	Soil	211	2.30	136	0.083	3	2.13	0.008	0.02	0.1	0.03	3.3	<0.1	<0.05	5	0.8	<0.2
1160902	Soil	483	6.32	59	0.044	4	2.08	0.008	0.02	<0.1	0.05	4.2	<0.1	<0.05	3	<0.5	<0.2
1160903	Soil	202	1.89	249	0.060	2	1.74	0.008	0.03	0.1	0.04	3.3	<0.1	<0.05	3	<0.5	<0.2
1160904	Soil	38	0.31	180	0.020	1	0.99	0.004	0.09	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	0.2
1160905	Soil	36	0.28	154	0.023	1	0.95	0.004	0.07	0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
1160906	Soil	58	0.70	450	0.021	2	1.65	0.005	0.08	0.1	0.07	3.1	0.1	<0.05	4	<0.5	<0.2
1160907	Soil	118	1.03	550	0.019	3	2.08	0.008	0.11	<0.1	0.11	4.4	0.1	<0.05	5	<0.5	<0.2
1160908	Soil	109	1.13	348	0.051	2	1.62	0.018	0.07	<0.1	0.08	4.5	<0.1	<0.05	4	<0.5	<0.2
1160909	Soil	367	3.28	159	0.097	5	1.56	0.010	0.03	0.1	0.03	6.0	<0.1	<0.05	4	<0.5	<0.2
1160910	Soil	305	3.08	134	0.113	5	1.67	0.011	0.03	<0.1	0.03	5.2	<0.1	<0.05	4	0.5	<0.2
1160911	Soil	353	3.00	113	0.092	4	2.29	0.008	0.03	<0.1	0.03	7.4	0.8	<0.05	4	1.3	<0.2
1160912	Soil	510	4.87	128	0.062	4	2.54	0.009	0.03	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
1160913	Soil	165	1.82	119	0.069	2	2.44	0.007	0.03	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
1160914	Soil	91	0.78	296	0.018	<1	1.76	0.006	0.05	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1160915	Soil	272	3.45	282	0.044	<1	2.99	0.016	0.04	<0.1	0.02	3.4	<0.1	<0.05	6	0.6	<0.2
1160916	Soil	140	1.27	155	0.063	1	1.80	0.006	0.04	<0.1	0.04	2.6	<0.1	<0.05	6	0.5	<0.2
1160917	Soil	39	0.62	273	0.007	<1	1.70	0.006	0.08	<0.1	0.04	1.6	<0.1	<0.05	5	0.7	<0.2
1160918	Soil	15	0.11	88	0.009	1	0.76	0.012	0.07	0.1	0.03	0.8	<0.1	<0.05	3	<0.5	0.2
1160919	Soil	87	0.57	102	0.057	1	1.31	0.006	0.06	0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1160920	Soil	69	0.38	286	0.039	<1	1.41	0.004	0.08	0.1	0.13	4.4	0.1	<0.05	4	<0.5	<0.2
1160921	Soil	31	0.71	335	0.003	1	2.09	0.007	0.11	<0.1	0.15	2.5	0.2	<0.05	5	1.5	0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160922	Soil	2.7	76.0	17.0	88	0.4	48.5	12.4	622	3.62	17.9	6.5	7.2	11	0.4	2.2	0.3	31	0.03	0.033	24
1160923	Soil	1.7	60.8	13.4	76	0.6	42.4	12.5	1128	3.20	7.1	3.8	3.9	10	0.3	1.5	0.2	27	0.05	0.037	22
1160924	Soil	2.1	39.2	12.1	79	0.4	40.1	10.6	595	3.18	14.6	4.4	4.2	13	0.2	1.9	0.2	34	0.04	0.040	17
1160925	Soil	2.9	69.2	12.9	109	0.4	60.7	13.3	533	3.99	14.5	3.0	5.6	17	0.3	2.2	0.2	50	0.03	0.048	19
1160926	Soil	1.1	36.7	7.9	77	0.5	103.1	15.5	351	3.95	4.8	1.7	1.9	21	1.1	0.7	0.1	48	0.44	0.148	8
1160927	Soil	0.9	21.0	6.1	76	0.1	97.0	13.1	289	2.96	1.8	<0.5	1.0	11	0.9	0.3	0.1	35	0.37	0.065	6
1160928	Soil	0.3	38.4	4.3	44	<0.1	162.4	23.1	299	2.97	2.4	<0.5	1.8	24	0.1	0.2	<0.1	48	0.66	0.018	7
1160929	Soil	0.8	27.8	4.5	59	<0.1	111.6	17.7	241	3.14	2.9	<0.5	1.9	8	0.2	0.3	<0.1	41	0.40	0.029	6
1160930	Soil	0.7	19.2	4.3	63	<0.1	76.9	11.9	279	2.66	2.0	0.7	1.4	7	0.4	0.3	0.1	35	0.40	0.060	7
1160931	Soil	0.6	37.3	5.0	50	<0.1	123.9	18.1	306	2.57	3.5	<0.5	2.5	12	0.1	0.3	<0.1	35	0.54	0.035	8
1160932	Soil	1.0	24.5	5.9	66	<0.1	102.7	15.8	296	3.15	2.2	<0.5	1.8	8	0.4	0.3	0.1	51	0.34	0.034	8
1160933	Soil	0.8	33.5	6.4	59	0.1	90.9	13.0	254	2.38	5.7	2.9	2.5	13	0.2	0.5	0.2	46	0.27	0.058	11
1160934	Soil	0.8	1179	6.8	61	0.2	258.7	29.6	551	7.62	4.5	2.1	2.2	8	0.4	0.3	0.1	76	0.30	0.065	7



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1160922	Soil	44	0.43	185	0.007	2	1.35	0.005	0.11	<0.1	0.08	2.7	0.1	<0.05	4	1.0
1160923	Soil	38	0.50	177	0.014	1	1.46	0.006	0.13	<0.1	0.05	1.9	<0.1	<0.05	5	<0.5
1160924	Soil	42	0.39	152	0.010	<1	1.15	0.006	0.08	<0.1	0.03	1.6	<0.1	<0.05	4	0.7
1160925	Soil	49	0.52	233	0.013	1	1.91	0.004	0.11	0.1	0.05	2.9	0.1	<0.05	5	0.8
1160926	Soil	146	1.47	215	0.044	<1	2.83	0.006	0.03	<0.1	0.05	3.2	<0.1	<0.05	7	<0.5
1160927	Soil	164	1.44	105	0.071	<1	2.01	0.008	0.02	<0.1	<0.01	2.3	<0.1	<0.05	7	<0.5
1160928	Soil	220	2.46	164	0.068	<1	3.41	0.009	0.02	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5
1160929	Soil	145	1.65	158	0.065	<1	2.81	0.008	0.03	0.1	0.02	2.5	<0.1	<0.05	7	<0.5
1160930	Soil	116	1.21	65	0.073	<1	1.90	0.009	0.02	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5
1160931	Soil	183	1.91	144	0.054	<1	2.40	0.008	0.03	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5
1160932	Soil	166	1.49	137	0.072	<1	2.01	0.006	0.03	0.2	0.02	2.3	<0.1	<0.05	6	<0.5
1160933	Soil	134	1.09	126	0.040	1	2.12	0.008	0.04	0.2	0.02	2.1	<0.1	0.11	5	<0.5
1160934	Soil	523	2.63	82	0.136	3	1.38	0.007	0.03	<0.1	0.02	8.8	1.4	0.16	6	1.2



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Client:

Redtail Metals Corp

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Vancouver BC V6C 3K4 Canada

Project:

Bolt

Report Date:

August 05, 2011

Page:

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Part 1

QUALITY CONTROL REPORT

WHI11000506.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1160722	Soil	0.7	32.2	7.8	40	<0.1	277.2	29.9	368	3.20	2.2	<0.5	1.0	11	0.1	0.3	<0.1	62	0.54	0.015	4
REP 1160722	QC	0.6	30.9	6.7	38	<0.1	265.5	29.0	353	3.07	2.2	<0.5	0.9	10	0.1	0.3	<0.1	60	0.51	0.014	3
1160725	Soil	0.3	8.8	1.7	13	<0.1	30.5	5.8	123	0.61	<0.5	0.9	0.4	6	<0.1	0.1	0.1	22	0.09	0.018	2
REP 1160725	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160598	Soil	0.6	36.2	4.7	50	<0.1	310.4	28.1	465	2.92	2.8	1.0	1.7	11	0.2	0.2	<0.1	44	0.53	0.022	7
REP 1160598	QC	0.6	36.6	4.8	50	<0.1	327.9	28.8	480	2.96	3.0	0.7	1.8	12	0.2	0.2	<0.1	49	0.55	0.022	8
1160009	Soil	0.7	37.9	5.5	50	<0.1	176.0	17.6	306	2.25	3.2	2.8	2.2	9	0.1	0.4	<0.1	41	0.36	0.016	8
REP 1160009	QC	0.7	38.2	5.5	49	<0.1	172.2	18.8	304	2.36	3.3	1.3	2.2	9	0.2	0.3	<0.1	42	0.35	0.015	8
1160030	Soil	1.0	39.8	11.3	66	1.0	151.4	20.7	360	3.34	6.4	9.5	3.4	16	0.2	0.9	0.2	46	0.34	0.031	11
REP 1160030	QC	1.0	38.2	11.5	65	1.0	148.9	21.2	358	3.37	6.5	3.9	3.4	15	0.2	0.9	0.2	47	0.34	0.032	11
1160051	Soil	0.8	432.0	5.5	143	<0.1	278.5	24.5	362	2.50	2.9	3.1	2.1	13	0.3	0.4	0.2	47	0.50	0.048	10
REP 1160051	QC	0.8	428.1	5.3	141	<0.1	287.4	24.0	381	2.61	3.0	2.0	2.0	13	0.2	0.3	0.1	47	0.49	0.051	10
1160074	Soil	1.4	13.0	24.3	189	2.0	30.6	24.2	956	4.54	22.4	1.5	7.5	9	1.1	0.4	0.3	45	0.08	0.094	30
REP 1160074	QC	1.7	14.4	25.1	205	2.1	32.2	25.0	969	4.55	23.0	3.4	7.9	10	1.2	0.5	0.3	49	0.07	0.097	30
1160904	Soil	2.3	29.0	9.2	58	0.1	29.1	8.0	385	2.37	11.6	2.4	4.5	12	0.2	1.4	0.2	27	0.06	0.022	21
REP 1160904	QC	2.2	29.0	9.5	59	0.1	29.2	7.6	403	2.41	11.3	1.2	4.4	12	0.2	1.5	0.2	30	0.06	0.025	21
1160920	Soil	2.8	102.2	16.4	116	0.2	129.2	33.9	2937	3.30	36.4	2.3	5.1	11	0.4	2.2	0.2	35	0.09	0.034	20
REP 1160920	QC	2.5	103.3	15.8	113	0.2	125.6	33.8	2825	3.20	35.5	7.3	4.9	11	0.2	2.1	0.2	35	0.09	0.035	20
Reference Materials																					
STD DS8	Standard	14.0	115.1	130.6	338	2.0	41.3	8.0	655	2.63	26.3	116.5	6.7	73	2.4	5.9	6.6	45	0.71	0.087	15
STD DS8	Standard	14.2	118.0	123.8	335	1.9	40.3	7.6	640	2.59	26.9	115.6	6.9	77	2.2	5.9	6.5	43	0.74	0.081	16
STD DS8	Standard	11.9	108.9	122.9	288	1.6	37.0	7.4	551	2.27	24.2	95.7	5.9	60	2.1	5.1	5.9	40	0.61	0.076	11
STD DS8	Standard	12.6	112.9	122.6	296	1.7	39.0	7.5	582	2.36	25.0	95.7	6.3	63	2.1	5.3	6.1	42	0.63	0.076	12
STD DS8	Standard	12.6	107.4	114.9	283	1.6	37.1	7.2	594	2.21	25.0	105.9	6.3	59	2.2	5.4	5.7	41	0.65	0.075	13
STD DS8	Standard	13.3	108.3	119.8	307	1.7	37.1	6.9	583	2.28	25.8	104.6	6.6	62	2.3	5.4	6.1	41	0.65	0.078	14
STD DS8	Standard	13.1	104.9	138.7	308	1.8	37.8	7.8	586	2.52	24.9	137.8	7.1	74	2.4	5.9	6.9	41	0.71	0.074	15
STD DS8	Standard	13.3	103.5	130.4	306	1.7	36.8	7.2	579	2.37	24.2	117.4	6.9	70	2.1	5.9	6.7	39	0.65	0.072	15
STD DS8	Standard	13.1	95.9	127.1	290	1.7	35.9	7.3	580	2.31	25.1	105.1	6.6	64	2.2	5.3	6.4	36	0.63	0.079	14



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Part 2

QUALITY CONTROL REPORT

WHI11000506.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1160722	Soil	299	3.80	85	0.094	2	2.62	0.012	0.02	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
REP 1160722	QC	290	3.69	82	0.089	2	2.54	0.008	0.02	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1160725	Soil	40	0.36	38	0.028	1	0.63	0.025	0.02	<0.1	0.01	0.6	<0.1	0.15	2	<0.5	<0.2
REP 1160725	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160598	Soil	375	3.99	121	0.073	6	1.86	0.007	0.03	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 1160598	QC	393	4.11	125	0.075	6	2.00	0.008	0.03	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1160009	Soil	196	1.97	162	0.060	2	1.56	0.007	0.03	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
REP 1160009	QC	202	1.99	155	0.064	2	1.55	0.008	0.03	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1160030	Soil	137	1.40	189	0.033	1	2.43	0.008	0.03	<0.1	0.03	2.4	<0.1	<0.05	5	0.7	<0.2
REP 1160030	QC	135	1.43	184	0.034	1	2.41	0.007	0.04	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
1160051	Soil	268	2.58	141	0.057	3	1.60	0.007	0.03	0.1	0.02	3.9	<0.1	0.06	4	<0.5	<0.2
REP 1160051	QC	267	2.53	147	0.055	2	1.58	0.008	0.03	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
1160074	Soil	33	0.76	252	0.009	<1	2.78	0.008	0.11	<0.1	0.07	2.4	<0.1	<0.05	8	<0.5	<0.2
REP 1160074	QC	34	0.74	256	0.015	<1	2.54	0.006	0.14	<0.1	0.08	2.5	0.1	<0.05	8	<0.5	<0.2
1160904	Soil	38	0.31	180	0.020	1	0.99	0.004	0.09	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	0.2
REP 1160904	QC	40	0.33	174	0.023	2	1.03	0.005	0.08	0.1	0.02	1.8	<0.1	<0.05	3	<0.5	0.2
1160920	Soil	69	0.38	286	0.039	<1	1.41	0.004	0.08	0.1	0.13	4.4	0.1	<0.05	4	<0.5	<0.2
REP 1160920	QC	66	0.37	293	0.038	<1	1.39	0.004	0.07	0.1	0.13	4.2	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	127	0.67	288	0.128	3	0.97	0.094	0.45	3.1	0.21	2.1	5.6	0.16	5	5.0	5.1
STD DS8	Standard	124	0.66	308	0.126	4	0.99	0.097	0.43	2.9	0.21	2.0	5.7	0.15	5	5.4	5.4
STD DS8	Standard	111	0.57	234	0.113	1	0.85	0.089	0.39	2.6	0.19	1.6	4.9	0.13	4	5.2	4.3
STD DS8	Standard	118	0.59	252	0.123	2	0.88	0.097	0.40	2.8	0.18	2.0	5.0	0.15	4	5.1	4.7
STD DS8	Standard	110	0.56	271	0.104	2	0.83	0.093	0.38	2.9	0.19	2.4	5.1	0.13	4	5.2	4.6
STD DS8	Standard	110	0.57	277	0.109	2	0.91	0.095	0.40	2.9	0.20	2.5	5.2	0.16	5	4.9	4.7
STD DS8	Standard	129	0.61	290	0.120	3	0.94	0.106	0.45	3.1	0.19	2.6	5.1	0.14	5	5.6	5.1
STD DS8	Standard	113	0.61	271	0.120	3	0.93	0.100	0.43	2.9	0.19	2.5	5.0	0.16	5	5.2	5.3
STD DS8	Standard	109	0.57	282	0.109	2	0.88	0.093	0.39	3.1	0.23	2.1	5.4	0.17	5	5.3	5.0



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Project:

Bolt

Report Date:

August 05, 2011

Page:

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Part 1

QUALITY CONTROL REPORT

WHI11000506.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS8	Standard	13.8	100.8	118.3	301	1.8	36.5	7.4	575	2.41	26.6	114.2	6.5	65	2.3	5.4	6.3	35	0.72	0.080	15
STD DS8	Standard	12.4	107.2	124.2	304	1.7	37.1	7.4	592	2.44	25.7	112.7	7.2	72	2.4	5.9	6.9	39	0.70	0.080	16
STD DS8	Standard	13.3	109.8	129.1	305	1.9	37.8	7.6	625	2.50	26.1	111.2	7.5	73	2.3	6.1	7.3	36	0.69	0.082	16
STD DS8	Standard	14.0	111.4	132.4	312	1.8	37.6	7.6	620	2.59	26.7	118.8	7.0	67	2.2	5.7	6.4	36	0.71	0.080	14
STD DS8	Standard	13.6	115.4	134.7	315	1.8	38.6	7.3	625	2.68	26.5	122.0	6.9	64	2.1	5.6	6.3	33	0.67	0.087	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.6	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: Bolt

Report Date: August 05, 2011

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QUALITY CONTROL REPORT

WHI11000506.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
STD DS8	Standard	116	0.60	280	0.112	3	0.93	0.091	0.44	3.0	0.21	2.1	5.3	0.20	5	5.1
STD DS8	Standard	116	0.60	289	0.116	2	0.98	0.120	0.41	2.9	0.20	2.8	5.5	0.13	5	4.5
STD DS8	Standard	120	0.61	286	0.119	2	0.92	0.103	0.44	2.9	0.20	2.7	5.4	0.16	5	5.8
STD DS8	Standard	119	0.55	297	0.120	2	0.98	0.111	0.46	3.1	0.22	2.8	5.6	0.05	5	3.6
STD DS8	Standard	115	0.55	289	0.121	3	0.97	0.090	0.45	3.2	0.21	2.6	5.6	0.06	5	4.3
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Submitted By: Hugh Baker
Receiving Lab: Canada-Whitehorse
Received: July 08, 2011
Report Date: August 05, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000505.1

CLIENT JOB INFORMATION

Project: Bolt
Shipment ID: BLT-2011-003-5
P.O. Number: quotation NA-11-435
Number of Samples: 304

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Jack Cote
Andrew Caldwell
Gilles Dessureau
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	304	Dry at 60C			WHI
SS80	304	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	303	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Project:

Bolt

Report Date:

August 05, 2011

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000505.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160515	Soil	0.5	42.4	5.5	50	<0.1	207.7	30.6	744	2.89	2.7	1.3	1.4	15	0.2	0.5	<0.1	65	0.72	0.028	7
1160516	Soil	0.8	32.5	8.9	49	<0.1	61.4	10.3	308	2.23	5.4	3.0	3.5	17	0.1	0.7	0.1	45	0.35	0.020	14
1160517	Soil	0.4	42.1	5.0	59	<0.1	238.1	26.7	460	3.41	3.2	2.6	1.9	16	0.2	0.4	<0.1	69	0.48	0.023	7
1160518	Soil	2.0	33.4	12.1	96	0.1	58.2	11.6	551	3.02	12.2	3.2	3.6	18	0.6	1.4	0.2	43	0.24	0.105	19
1160519	Soil	2.9	49.1	13.5	92	0.6	33.2	8.5	572	2.98	11.7	7.7	6.0	24	0.2	2.6	0.2	32	0.06	0.054	27
1160520	Soil	3.7	84.0	16.4	149	1.6	68.6	12.1	424	3.80	15.2	8.4	6.4	28	0.5	3.0	0.3	51	0.08	0.056	23
1160521	Soil	1.9	18.6	19.3	38	0.7	13.7	4.3	460	1.93	7.1	0.7	3.3	13	0.2	0.8	0.3	35	0.05	0.049	21
1160522	Soil	2.1	64.4	11.6	126	0.1	72.4	16.0	1633	3.06	26.2	1.0	5.1	13	0.3	2.4	0.3	39	0.07	0.055	18
1160523	Soil	1.5	41.6	10.2	83	0.1	52.6	12.4	1010	3.01	17.9	2.0	4.3	12	0.3	1.7	0.2	40	0.11	0.053	21
1160524	Soil	1.9	48.5	9.3	73	0.9	44.7	9.1	808	2.65	16.2	4.4	5.3	14	0.2	1.9	0.2	35	0.09	0.042	22
1160525	Soil	1.9	41.6	22.1	59	<0.1	27.1	12.7	749	2.76	17.4	4.6	5.6	11	0.2	1.3	0.3	9	0.06	0.052	28
1160526	Soil	2.9	71.3	13.9	82	0.2	38.9	10.5	469	3.08	22.5	4.3	4.9	21	0.2	2.9	0.3	23	0.05	0.080	21
1160527	Soil	4.3	59.0	15.4	87	0.3	41.7	12.7	497	3.37	45.7	1.8	4.6	11	0.4	2.3	0.3	24	0.03	0.054	22
1160528	Soil	1.1	41.9	5.0	57	<0.1	53.6	14.2	324	3.08	5.4	<0.5	3.2	16	<0.1	0.5	0.1	76	0.48	0.049	10
1160529	Soil	0.2	82.4	2.8	57	<0.1	369.0	38.5	696	4.00	3.6	<0.5	0.8	10	<0.1	0.2	<0.1	85	0.88	0.026	5
1160530	Soil	<0.1	41.0	4.1	60	<0.1	484.1	43.8	566	2.87	3.0	2.6	2.5	17	0.2	0.2	<0.1	53	0.47	0.045	10
1160531	Soil	0.8	58.0	8.2	88	<0.1	113.4	22.6	663	3.33	7.1	1.8	2.7	18	0.2	0.6	0.2	79	0.79	0.085	9
1160532	Soil	0.4	58.2	5.5	54	<0.1	95.8	14.3	298	2.13	5.7	1.5	4.1	17	0.1	0.5	<0.1	42	0.46	0.073	14
1160533	Soil	<0.1	30.9	2.1	17	<0.1	24.8	3.7	78	0.70	1.7	0.9	0.1	6	0.1	<0.1	<0.1	17	0.08	0.033	3
1160534	Soil	<0.1	65.6	4.4	53	<0.1	150.0	15.3	272	1.82	2.7	0.6	2.2	14	0.1	0.2	<0.1	42	0.46	0.030	10
1160535	Soil	0.5	79.5	6.2	97	<0.1	330.9	48.5	936	4.30	3.8	<0.5	1.1	14	0.3	0.2	<0.1	76	0.41	0.064	7
1160536	Soil	0.2	54.3	4.8	50	<0.1	313.2	22.9	324	2.82	4.5	3.9	2.1	16	0.1	0.2	<0.1	43	0.51	0.043	9
1160537	Soil	0.4	75.2	5.6	57	<0.1	371.3	31.4	438	3.38	5.2	<0.5	2.0	13	0.2	0.3	<0.1	59	0.52	0.031	8
1160538	Soil	0.3	52.7	5.6	54	<0.1	272.1	24.2	334	3.00	4.5	0.8	2.3	12	0.2	0.3	0.3	50	0.43	0.029	9
1160539	Soil	<0.1	44.4	4.3	50	<0.1	240.8	24.4	373	2.51	3.8	3.1	2.2	14	0.1	0.2	<0.1	40	0.43	0.025	9
1160540	Soil	0.7	314.8	8.0	108	<0.1	314.7	35.0	433	5.56	6.8	<0.5	1.8	12	0.5	0.4	0.1	88	0.47	0.092	8
1160541	Soil	0.5	58.1	7.2	136	<0.1	332.6	29.3	400	4.01	7.4	1.6	2.6	13	0.4	0.4	0.1	58	0.40	0.053	11
1160542	Soil	0.2	48.7	5.9	50	<0.1	136.6	17.9	393	2.63	4.2	<0.5	2.5	11	0.1	0.3	<0.1	53	0.35	0.015	9
1160543	Soil	0.5	55.5	6.6	94	<0.1	186.7	28.9	570	3.52	6.5	<0.5	1.5	11	0.4	0.4	0.1	57	0.44	0.084	9
1160544	Soil	0.7	87.0	9.4	101	<0.1	302.3	30.6	439	4.31	7.8	0.8	1.4	13	0.4	0.5	0.1	70	0.72	0.053	10



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160515	Soil	284	2.82	242	0.097	3	2.15	0.010	0.04	<0.1	0.02	4.6	<0.1	<0.05	6	0.7	<0.2
1160516	Soil	96	1.02	303	0.080	1	1.50	0.008	0.06	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
1160517	Soil	293	2.82	181	0.134	3	2.69	0.009	0.04	<0.1	0.02	5.2	<0.1	<0.05	6	0.5	<0.2
1160518	Soil	70	0.81	166	0.039	3	1.49	0.006	0.10	0.1	0.01	2.1	<0.1	<0.05	5	1.0	<0.2
1160519	Soil	32	0.42	253	0.019	2	1.20	0.004	0.14	<0.1	0.04	1.8	<0.1	<0.05	4	1.2	<0.2
1160520	Soil	66	0.61	348	0.017	2	2.03	0.005	0.15	0.1	0.11	2.8	0.1	<0.05	5	2.1	<0.2
1160521	Soil	21	0.13	205	0.009	<1	0.96	0.009	0.11	<0.1	0.03	1.3	<0.1	0.07	4	0.6	<0.2
1160522	Soil	45	0.30	176	0.015	2	1.75	0.006	0.11	<0.1	0.03	2.4	0.1	<0.05	4	1.3	0.2
1160523	Soil	50	0.48	176	0.018	2	1.49	0.004	0.13	<0.1	0.04	2.4	<0.1	<0.05	4	0.6	<0.2
1160524	Soil	48	0.39	315	0.012	2	1.45	0.005	0.14	<0.1	0.04	2.5	<0.1	<0.05	4	1.3	<0.2
1160525	Soil	7	0.04	82	0.003	2	0.26	0.004	0.13	<0.1	0.03	0.6	<0.1	<0.05	1	0.6	<0.2
1160526	Soil	22	0.23	143	0.009	1	0.65	0.004	0.11	<0.1	0.01	1.3	<0.1	<0.05	2	1.6	<0.2
1160527	Soil	18	0.14	114	0.005	<1	0.74	0.005	0.09	<0.1	0.03	1.2	0.1	<0.05	3	1.2	0.2
1160528	Soil	74	0.98	185	0.124	3	1.47	0.008	0.04	0.1	<0.01	4.4	<0.1	<0.05	5	0.5	<0.2
1160529	Soil	478	5.54	122	0.183	4	2.70	0.009	0.02	<0.1	0.01	6.8	<0.1	<0.05	7	<0.5	<0.2
1160530	Soil	442	5.77	206	0.114	8	1.43	0.009	0.02	<0.1	0.01	5.9	<0.1	<0.05	4	<0.5	<0.2
1160531	Soil	139	1.66	252	0.228	4	1.91	0.007	0.04	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
1160532	Soil	119	1.26	185	0.082	<1	1.39	0.008	0.03	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1160533	Soil	47	0.25	79	0.025	<1	0.54	0.021	0.03	<0.1	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
1160534	Soil	183	1.91	174	0.091	<1	1.21	0.011	0.02	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1160535	Soil	454	4.01	161	0.100	4	1.81	0.015	0.04	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
1160536	Soil	268	3.36	151	0.072	3	2.31	0.009	0.02	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
1160537	Soil	349	3.96	144	0.095	3	2.46	0.009	0.03	<0.1	0.02	3.7	<0.1	<0.05	5	0.5	<0.2
1160538	Soil	270	3.10	137	0.071	2	2.20	0.007	0.03	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1160539	Soil	232	3.12	119	0.067	2	2.06	0.009	0.03	<0.1	<0.01	2.7	<0.1	<0.05	4	0.5	<0.2
1160540	Soil	437	3.22	165	0.115	1	2.00	0.009	0.04	<0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
1160541	Soil	366	3.77	228	0.068	2	2.45	0.008	0.05	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
1160542	Soil	181	1.59	181	0.064	<1	2.02	0.010	0.02	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1160543	Soil	210	1.73	159	0.066	1	2.63	0.010	0.04	0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
1160544	Soil	344	3.28	287	0.062	2	3.34	0.011	0.05	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2



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Part 1

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1
1160545	Soil	<0.1	21.5	2.3	21	0.1	45.5	6.6	241	0.98	2.0	<0.5	0.3	8	<0.1	0.1	<0.1	20	0.20	0.026	4
1160546	Soil	0.4	39.9	5.5	57	<0.1	153.0	21.8	269	3.19	4.9	<0.5	2.3	17	0.3	0.3	<0.1	60	0.61	0.023	8
1160547	Soil	0.5	34.0	5.2	61	<0.1	135.6	18.3	244	3.05	5.1	<0.5	2.3	11	0.2	0.4	<0.1	55	0.54	0.038	8
1160548	Soil	0.4	30.8	4.7	60	<0.1	121.8	18.8	237	3.46	4.2	0.6	1.9	9	0.3	0.4	<0.1	53	0.50	0.050	8
1160549	Soil	0.2	24.6	4.7	73	<0.1	110.7	20.0	236	2.98	3.6	<0.5	2.0	18	0.3	0.3	<0.1	58	0.58	0.046	7
1160550	Soil	0.4	26.6	5.2	73	<0.1	110.6	19.4	238	3.05	4.4	<0.5	2.4	18	0.4	0.4	<0.1	59	0.56	0.041	8
1160951	Soil	0.3	155.2	4.5	55	<0.1	223.7	25.3	374	2.35	3.3	1.0	1.9	13	0.2	0.3	<0.1	39	0.67	0.031	7
1160952	Soil	0.4	103.3	5.9	63	<0.1	254.5	25.0	390	2.82	5.5	0.7	2.9	13	0.3	0.4	<0.1	54	0.55	0.030	10
1160953	Soil	0.4	105.3	5.1	80	<0.1	210.9	28.8	326	3.15	5.6	0.6	1.8	12	0.4	0.3	<0.1	74	0.49	0.037	7
1160954	Soil	0.4	143.2	5.9	73	<0.1	204.2	25.0	420	2.85	4.5	3.3	3.2	19	0.2	0.3	0.3	63	0.63	0.038	11
1160955	Soil	0.5	338.6	6.1	76	0.4	231.6	18.0	380	2.31	8.7	5.7	1.6	34	0.4	0.9	0.1	44	1.13	0.082	10
1160956	Soil	0.9	38.3	6.8	66	<0.1	155.1	22.7	481	2.52	10.8	<0.5	1.2	11	0.2	0.9	<0.1	49	0.37	0.038	10
1160957	Soil	0.2	45.9	7.0	77	0.2	170.5	22.3	405	2.50	4.6	1.9	2.4	25	0.3	0.4	0.1	51	0.79	0.059	9
1160958	Soil	1.1	268.7	10.1	82	0.9	201.9	25.9	1224	3.00	8.9	3.5	1.6	37	0.3	0.9	0.2	59	1.17	0.108	11
1160959	Soil	0.6	30.6	6.7	61	<0.1	121.6	18.3	378	2.39	5.4	1.1	3.6	15	0.3	0.5	<0.1	43	0.47	0.026	13
1160960	Soil	1.0	35.7	8.0	61	0.3	127.3	17.3	391	2.32	5.3	2.7	3.1	12	0.3	0.6	0.2	41	0.32	0.032	12
1160961	Soil	1.3	48.9	7.4	64	0.2	130.0	17.5	418	2.63	10.1	1.5	2.2	13	0.2	1.2	0.1	43	0.26	0.037	9
1160962	Soil	1.3	50.5	7.2	67	0.1	133.8	18.8	472	2.61	9.6	2.9	2.4	13	0.1	1.1	0.1	41	0.31	0.037	9
1160963	Soil	0.8	42.2	10.1	61	0.6	51.4	6.3	174	1.52	3.3	3.9	1.5	12	0.5	0.5	0.3	36	0.25	0.036	8
1160964	Soil	1.5	45.5	10.4	73	0.6	79.2	12.4	544	2.50	7.0	2.4	1.3	19	0.2	1.0	0.3	39	0.41	0.081	11
1160965	Soil	2.2	49.6	10.5	106	0.2	129.9	19.5	588	3.59	16.0	13.4	3.4	16	0.4	1.8	0.2	57	0.25	0.063	13
1160966	Soil	1.8	47.3	9.6	87	0.3	126.5	18.9	712	3.33	10.5	1.4	3.8	10	0.5	1.3	0.2	50	0.25	0.031	14
1160967	Soil	2.3	40.4	12.2	84	0.6	58.9	14.2	791	3.03	14.9	1.5	5.6	12	0.2	1.5	0.2	37	0.10	0.042	19
1160968	Soil	2.0	49.7	12.3	90	0.3	41.8	11.0	437	3.19	15.3	5.8	4.6	14	0.3	1.8	0.3	34	0.05	0.043	19
1160969	Soil	1.7	39.1	11.1	50	1.1	19.5	5.9	619	1.64	7.5	0.5	1.1	63	0.5	0.8	0.2	27	0.67	0.054	17
1160970	Soil	2.7	59.2	12.5	115	0.2	40.1	12.3	652	3.16	17.4	5.5	4.4	17	0.6	2.1	0.2	30	0.05	0.055	19
1160971	Soil	3.5	70.7	13.3	118	0.2	48.9	12.2	760	3.29	16.2	4.4	6.9	17	0.3	2.9	0.3	37	0.04	0.037	28
1160972	Soil	2.1	35.8	9.8	78	1.1	64.3	13.1	463	2.81	12.2	4.5	4.5	10	0.3	1.5	0.2	41	0.11	0.036	15
1160751	Soil	0.4	22.7	4.6	60	<0.1	184.4	20.9	244	2.71	3.2	1.1	1.4	11	0.3	0.4	0.1	46	0.37	0.042	6
1160752	Soil	0.8	36.7	5.1	60	<0.1	168.3	32.4	638	2.71	2.8	<0.5	1.4	11	0.3	0.4	0.1	43	0.45	0.039	8



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Vancouver BC V6C 3K4 Canada

Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000505.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160545	Soil	71	0.42	114	0.031	<1	1.26	0.026	0.02	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1160546	Soil	182	2.05	220	0.063	<1	3.49	0.011	0.03	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
1160547	Soil	178	1.79	143	0.066	<1	2.81	0.010	0.04	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
1160548	Soil	159	1.80	114	0.084	<1	3.17	0.009	0.03	0.1	0.05	2.8	<0.1	<0.05	7	<0.5	<0.2
1160549	Soil	131	1.53	154	0.084	1	3.17	0.011	0.03	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
1160550	Soil	133	1.50	175	0.082	<1	3.25	0.011	0.04	<0.1	0.04	2.9	<0.1	<0.05	6	<0.5	<0.2
1160951	Soil	198	2.53	115	0.066	2	2.01	0.013	0.03	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
1160952	Soil	225	2.81	149	0.085	<1	2.17	0.010	0.03	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
1160953	Soil	217	2.08	143	0.117	1	2.37	0.016	0.03	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
1160954	Soil	231	2.38	171	0.132	2	1.82	0.011	0.03	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
1160955	Soil	240	1.63	254	0.040	3	1.70	0.015	0.04	<0.1	0.13	5.3	0.1	0.10	3	1.6	<0.2
1160956	Soil	190	1.56	166	0.052	<1	1.46	0.011	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	0.8	<0.2
1160957	Soil	224	1.84	338	0.070	1	1.88	0.009	0.04	<0.1	0.08	4.6	<0.1	<0.05	4	<0.5	<0.2
1160958	Soil	196	1.23	624	0.026	1	1.88	0.016	0.06	<0.1	0.24	6.9	0.1	0.09	4	2.0	<0.2
1160959	Soil	152	1.41	215	0.079	1	1.40	0.009	0.03	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1160960	Soil	121	1.23	292	0.043	2	1.77	0.005	0.03	<0.1	0.03	2.5	<0.1	<0.05	4	0.9	<0.2
1160961	Soil	151	1.41	238	0.020	1	1.93	0.005	0.04	<0.1	0.08	3.3	<0.1	<0.05	4	0.8	<0.2
1160962	Soil	153	1.44	270	0.022	1	1.71	0.008	0.04	<0.1	0.06	4.0	<0.1	<0.05	3	1.4	<0.2
1160963	Soil	73	0.42	306	0.007	<1	1.35	0.011	0.05	<0.1	0.04	2.1	<0.1	<0.05	4	1.1	<0.2
1160964	Soil	97	0.74	434	0.008	<1	1.62	0.009	0.06	<0.1	0.08	3.4	<0.1	<0.05	4	1.4	<0.2
1160965	Soil	148	1.30	292	0.027	2	1.74	0.007	0.07	<0.1	0.03	3.1	<0.1	<0.05	5	1.0	<0.2
1160966	Soil	144	1.20	232	0.041	1	1.81	0.008	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	1.4	<0.2
1160967	Soil	59	0.60	337	0.011	<1	1.57	0.005	0.08	<0.1	0.06	2.9	<0.1	<0.05	4	1.5	<0.2
1160968	Soil	36	0.48	242	0.008	1	1.22	0.004	0.08	<0.1	0.03	2.1	<0.1	<0.05	4	2.3	<0.2
1160969	Soil	18	0.30	598	0.004	<1	0.93	0.009	0.07	<0.1	0.04	1.1	<0.1	<0.05	4	1.2	<0.2
1160970	Soil	28	0.38	182	0.004	<1	1.33	0.005	0.08	<0.1	0.07	1.8	<0.1	<0.05	4	1.8	<0.2
1160971	Soil	39	0.55	291	0.013	<1	1.56	0.004	0.10	<0.1	0.17	2.8	<0.1	<0.05	4	2.3	<0.2
1160972	Soil	59	0.47	250	0.033	<1	1.43	0.004	0.06	0.1	0.05	2.4	<0.1	<0.05	3	0.6	<0.2
1160751	Soil	192	2.13	196	0.033	<1	2.52	0.009	0.03	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1160752	Soil	198	2.24	97	0.063	2	2.07	0.007	0.04	0.1	0.03	2.3	<0.1	<0.05	5	1.3	<0.2



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160753	Soil	0.6	34.1	4.1	46	<0.1	169.0	18.8	304	2.15	2.6	0.5	1.1	10	0.3	0.3	<0.1	31	0.46	0.031	6
1160754	Soil	0.6	18.8	4.4	51	<0.1	145.7	18.8	219	2.72	2.6	<0.5	1.8	12	0.4	0.3	<0.1	46	0.34	0.024	6
1160755	Soil	0.4	27.3	4.0	39	<0.1	211.2	25.1	234	2.45	3.3	<0.5	2.1	7	0.2	0.3	<0.1	35	0.33	0.019	6
1160756	Soil	0.4	21.1	4.7	40	<0.1	162.0	21.2	520	2.80	3.1	1.3	1.8	10	0.2	0.4	<0.1	58	0.40	0.017	8
1160757	Soil	0.6	50.5	4.9	44	<0.1	226.3	19.4	346	2.85	3.4	<0.5	1.1	13	0.2	0.4	<0.1	52	0.55	0.032	6
1160758	Soil	1.5	25.4	10.3	72	0.2	59.3	12.6	584	2.87	8.7	<0.5	3.4	13	0.2	0.7	0.2	50	0.16	0.042	17
1160759	Soil	1.2	24.7	10.3	60	0.3	57.8	9.5	283	2.86	10.1	1.4	4.3	14	0.3	1.0	0.2	47	0.19	0.036	13
1160760	Soil	2.6	62.4	14.5	81	0.3	32.7	8.9	288	3.00	14.2	2.9	6.0	16	0.3	2.4	0.3	36	0.03	0.034	17
1160761	Soil	2.6	30.1	14.5	76	1.7	23.0	5.4	238	2.61	10.3	0.9	3.3	17	0.2	2.0	0.3	39	0.06	0.090	20
1160762	Soil	2.3	39.9	11.7	84	0.9	64.9	15.0	611	3.10	11.4	4.9	5.7	12	0.4	1.7	0.3	50	0.09	0.025	18
1160763	Soil	1.7	32.6	17.7	86	7.3	20.2	5.8	113	4.25	22.7	11.1	5.0	59	0.2	2.7	0.2	20	0.02	0.046	15
1160764	Soil	0.6	28.1	3.8	46	<0.1	238.1	26.0	478	3.39	3.4	<0.5	1.6	24	0.2	0.3	0.1	71	0.64	0.033	7
1160765	Soil	2.2	68.2	14.6	97	0.2	55.0	14.7	733	3.18	19.5	3.5	5.4	18	0.2	2.0	0.2	30	0.07	0.052	18
1160766	Soil	2.3	58.8	12.6	85	0.8	35.6	8.1	223	3.03	13.5	5.7	5.1	19	0.2	2.3	0.2	29	0.03	0.039	21
1160767	Soil	1.8	21.4	6.0	72	<0.1	63.0	12.2	340	2.74	7.3	<0.5	2.0	8	0.2	0.8	0.2	45	0.13	0.038	10
1160768	Soil	0.5	29.3	4.5	61	0.2	239.5	25.0	358	2.79	3.3	<0.5	0.8	13	0.3	0.3	0.1	44	0.42	0.033	6
1160769	Soil	2.0	45.9	17.4	93	0.5	32.1	7.5	203	3.86	17.6	2.2	5.7	39	0.1	2.0	0.2	24	0.03	0.046	16
1160770	Soil	1.0	23.3	5.7	42	<0.1	42.6	10.4	451	2.36	3.2	<0.5	1.1	15	0.2	0.4	0.1	65	0.40	0.031	10
1160771	Soil	0.8	35.2	5.3	47	<0.1	58.0	11.6	331	2.17	4.4	<0.5	3.0	16	0.2	0.5	0.1	44	0.44	0.049	13
1160772	Soil	0.9	42.0	5.1	62	<0.1	44.5	11.6	347	2.65	5.5	<0.5	2.4	14	0.2	0.6	0.1	60	0.38	0.052	9
1160773	Soil	1.5	273.1	13.4	111	0.2	52.2	20.5	817	3.67	11.8	3.7	2.6	22	0.2	0.9	0.4	92	0.79	0.104	12
1160774	Soil	1.2	72.2	7.4	83	0.1	29.1	13.7	440	2.95	4.8	3.0	1.3	11	0.3	0.6	0.2	65	0.40	0.076	10
1160775	Soil	1.1	55.5	7.0	94	<0.1	28.0	13.2	725	2.70	4.8	1.4	1.4	14	0.5	0.5	0.2	68	0.58	0.100	8
1160776	Soil	1.1	35.1	6.9	67	0.1	22.4	7.3	354	2.30	5.8	2.1	3.3	9	0.3	0.6	0.2	49	0.25	0.074	11
1160777	Soil	1.1	191.7	9.7	65	0.6	58.5	18.2	790	2.53	6.6	2.4	1.5	16	0.3	0.6	0.2	58	0.46	0.060	11
1160778	Soil	0.8	239.7	9.5	78	0.2	51.5	10.2	194	2.64	4.4	9.2	2.9	18	0.4	0.3	0.3	73	0.55	0.048	11
1160779	Soil	0.4	324.3	6.2	105	0.2	104.2	18.1	439	2.28	3.0	3.7	1.3	29	<0.1	0.2	0.1	60	1.23	0.105	11
1160780	Soil	0.6	298.8	5.8	116	0.2	101.3	14.1	301	2.22	3.2	3.4	0.8	24	0.2	0.3	0.1	57	0.94	0.097	9
1160781	Soil	0.6	372.3	6.2	125	0.1	123.4	17.6	422	2.77	3.9	3.5	1.1	25	0.2	0.3	0.2	69	1.12	0.093	12
1160782	Soil	2.1	1308	48.0	31	0.7	6.8	2.2	23	35.12	4.2	4.3	0.7	2	<0.1	0.4	0.1	83	0.01	0.038	1



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160753	Soil	173	2.13	102	0.044	<1	1.97	0.009	0.03	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
1160754	Soil	176	1.77	98	0.056	<1	1.93	0.006	0.03	0.1	<0.01	1.8	<0.1	<0.05	5	1.0	<0.2
1160755	Soil	207	2.13	112	0.053	<1	2.72	0.006	0.02	<0.1	0.03	2.3	<0.1	<0.05	4	1.0	<0.2
1160756	Soil	223	2.13	166	0.082	1	1.94	0.012	0.02	<0.1	0.02	2.6	<0.1	<0.05	5	0.9	<0.2
1160757	Soil	246	2.36	248	0.068	2	2.04	0.010	0.03	<0.1	0.04	4.1	<0.1	<0.05	5	0.6	<0.2
1160758	Soil	98	0.88	355	0.037	1	1.75	0.005	0.07	0.1	0.03	2.4	0.1	<0.05	5	0.8	<0.2
1160759	Soil	86	0.89	294	0.062	1	1.49	0.006	0.06	0.2	0.05	2.3	<0.1	<0.05	4	0.5	<0.2
1160760	Soil	31	0.36	318	0.012	<1	1.45	0.004	0.08	<0.1	0.05	2.1	0.1	<0.05	4	1.5	<0.2
1160761	Soil	23	0.25	193	0.023	<1	0.93	0.004	0.08	0.1	0.03	1.3	<0.1	<0.05	5	2.2	<0.2
1160762	Soil	79	0.65	479	0.020	<1	2.15	0.005	0.07	<0.1	0.05	3.2	0.2	<0.05	5	1.3	<0.2
1160763	Soil	25	0.81	354	0.001	1	2.09	0.010	0.09	<0.1	0.23	1.6	<0.1	0.09	5	1.8	<0.2
1160764	Soil	339	3.17	194	0.136	4	1.88	0.010	0.02	<0.1	<0.01	4.7	<0.1	<0.05	5	0.7	<0.2
1160765	Soil	45	0.53	236	0.009	<1	1.48	0.005	0.11	<0.1	0.04	2.0	<0.1	<0.05	4	1.4	<0.2
1160766	Soil	24	0.30	197	0.008	<1	1.36	0.004	0.10	<0.1	0.04	1.7	0.1	<0.05	3	1.9	<0.2
1160767	Soil	95	0.80	171	0.024	<1	1.50	0.008	0.05	0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
1160768	Soil	255	2.89	205	0.032	<1	2.83	0.005	0.03	<0.1	0.02	2.3	<0.1	<0.05	5	0.9	<0.2
1160769	Soil	29	0.82	294	0.004	<1	1.95	0.010	0.09	<0.1	0.07	1.9	<0.1	0.09	4	1.7	<0.2
1160770	Soil	94	0.86	134	0.120	<1	1.46	0.005	0.03	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
1160771	Soil	102	0.96	132	0.083	<1	1.35	0.005	0.03	0.1	0.02	3.6	<0.1	<0.05	4	0.7	<0.2
1160772	Soil	80	0.82	107	0.125	<1	1.52	0.005	0.03	0.1	0.02	3.2	<0.1	<0.05	4	0.9	<0.2
1160773	Soil	78	1.07	578	0.084	3	2.82	0.013	0.09	0.2	0.08	9.1	0.1	<0.05	7	<0.5	<0.2
1160774	Soil	58	0.64	206	0.092	1	1.51	0.006	0.05	0.1	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
1160775	Soil	52	0.52	257	0.125	2	1.46	0.012	0.06	0.2	0.06	3.9	<0.1	<0.05	5	<0.5	<0.2
1160776	Soil	39	0.40	102	0.091	<1	1.14	0.006	0.05	0.2	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
1160777	Soil	84	0.91	438	0.057	2	2.00	0.015	0.11	0.2	0.01	3.6	<0.1	<0.05	6	0.6	<0.2
1160778	Soil	94	0.84	456	0.053	1	2.64	0.007	0.07	0.1	0.05	4.4	0.2	<0.05	7	<0.5	<0.2
1160779	Soil	144	1.15	725	0.047	3	2.57	0.010	0.05	<0.1	0.10	8.4	0.2	<0.05	5	0.8	<0.2
1160780	Soil	135	1.06	523	0.050	3	2.36	0.017	0.05	<0.1	0.05	6.6	0.1	<0.05	5	0.9	<0.2
1160781	Soil	166	1.31	473	0.073	4	2.33	0.012	0.05	<0.1	0.06	7.9	<0.1	<0.05	5	1.0	<0.2
1160782	Soil	61	0.02	161	0.128	<1	0.19	0.001	0.01	<0.1	0.15	2.2	0.7	0.59	7	15.2	0.5



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1160783	Soil	1.9	939.6	12.8	15	0.2	14.9	2.3	49	26.96	5.3	2.0	0.9	4	<0.1	0.3	0.1	165	0.04	0.067	2
1160784	Soil	0.8	913.7	6.6	166	0.1	371.2	31.7	514	3.68	3.8	1.6	1.6	13	0.4	0.3	<0.1	65	0.69	0.039	8
1160785	Soil	0.5	292.0	5.6	78	0.2	383.9	42.8	643	3.34	2.8	1.1	0.9	14	0.4	0.3	<0.1	45	0.86	0.067	6
1160786	Soil	0.5	50.3	4.0	41	<0.1	159.8	18.1	230	2.13	3.5	0.9	2.0	9	<0.1	0.3	<0.1	26	0.47	0.019	7
1160787	Soil	0.4	45.0	4.8	40	<0.1	403.1	39.5	361	2.82	1.2	0.9	1.5	16	<0.1	0.2	<0.1	38	0.39	0.017	6
1160788	Soil	0.3	44.7	5.5	46	<0.1	237.1	21.6	314	2.08	3.1	1.0	2.6	15	0.2	0.3	<0.1	31	0.50	0.050	11
1160789	Soil	0.7	104.7	5.2	53	0.1	163.5	18.3	403	2.25	3.6	1.2	2.2	15	0.2	0.6	0.1	37	0.62	0.044	9
1160790	Soil	0.9	46.1	12.7	65	<0.1	74.3	15.7	736	2.91	4.6	1.1	2.2	9	0.7	0.6	0.1	50	0.44	0.034	9
1160791	Soil	1.5	73.9	9.1	81	0.3	73.9	10.4	570	2.38	9.8	4.7	2.5	21	0.7	1.0	0.2	38	0.23	0.040	23
1160792	Soil	2.2	54.0	18.4	104	0.3	39.3	9.4	372	3.01	30.0	3.4	4.6	39	0.2	3.5	0.2	32	0.17	0.043	22
1160793	Soil	1.1	39.0	9.9	67	0.1	64.9	10.2	353	2.16	8.1	3.8	5.1	20	0.2	1.2	0.1	33	0.29	0.046	17
1160794	Soil	2.2	28.8	19.0	75	0.6	22.6	6.3	458	2.56	12.9	<0.5	3.9	16	0.3	1.5	0.3	45	0.06	0.037	20
1160795	Soil	2.1	44.4	9.7	87	0.2	61.8	11.6	544	2.84	12.5	1.3	4.3	14	0.7	1.1	0.2	49	0.11	0.044	17
1160796	Soil	0.9	26.8	9.6	69	0.1	72.5	13.2	368	2.10	6.4	2.0	3.0	18	0.3	0.8	0.1	34	0.41	0.054	12
1160797	Soil	1.0	7263	7.0	190	0.2	332.5	121.9	977	3.45	3.7	3.6	1.6	13	1.1	0.3	<0.1	53	0.50	0.076	10
1160798	Soil	0.7	144.5	9.5	101	<0.1	417.0	42.0	605	4.08	3.2	0.8	0.9	11	0.3	0.2	<0.1	45	0.80	0.056	4
1160799	Soil	0.4	76.2	2.8	44	<0.1	440.5	56.2	738	3.78	2.3	1.0	1.4	12	0.1	0.2	<0.1	41	0.70	0.025	4
1160800	Soil	1.1	45.9	9.3	64	<0.1	147.1	19.0	427	2.81	7.3	3.7	3.0	14	0.2	0.8	0.2	46	0.38	0.033	11
1160801	Soil	3.2	82.3	10.6	88	0.2	34.1	7.3	329	2.18	11.7	1.8	3.1	7	0.2	1.3	0.2	39	0.02	0.029	27
1160802	Soil	1.2	30.2	12.6	52	0.1	25.5	8.7	459	2.15	28.4	1.8	7.1	19	<0.1	1.3	0.3	18	0.11	0.039	32
1160803	Soil	3.1	56.8	18.5	78	<0.1	35.1	11.4	364	3.48	32.2	3.5	7.1	18	0.2	2.4	0.4	34	0.03	0.056	29
1160804	Soil	3.9	46.9	18.2	97	0.1	33.2	13.7	1639	3.32	20.6	3.4	5.8	17	0.4	3.4	0.4	31	0.04	0.083	23
1160805	Soil	2.3	49.7	11.5	73	0.3	34.7	9.0	382	2.96	17.0	3.7	5.7	12	0.3	2.3	0.2	30	0.03	0.034	23
1160806	Soil	2.2	54.7	11.7	78	0.2	32.8	8.0	316	2.52	18.5	7.3	4.0	17	0.2	2.5	0.2	26	0.05	0.038	22
1160807	Soil	2.3	59.3	14.8	90	0.4	42.7	11.6	483	2.86	19.0	7.8	3.9	52	0.3	2.4	0.3	26	0.37	0.063	20
1160808	Soil	2.9	53.8	15.6	104	0.4	45.6	12.5	584	2.83	9.9	4.7	2.4	30	0.5	2.4	0.3	28	0.15	0.069	15
1160809	Soil	2.2	55.9	11.4	77	0.1	45.8	11.7	359	2.95	16.5	3.0	5.4	11	0.1	2.1	0.2	31	0.03	0.029	21
1160810	Soil	3.4	81.6	14.7	114	0.2	48.6	13.1	615	3.57	19.2	6.9	6.8	14	0.3	2.9	0.3	30	0.03	0.046	23
1160811	Soil	0.9	30.1	6.0	54	<0.1	89.7	15.2	269	2.37	4.9	4.2	3.1	15	0.1	0.5	0.1	44	0.39	0.036	10
1160812	Soil	0.8	22.6	6.6	54	<0.1	78.3	12.3	211	2.03	4.1	<0.5	2.0	12	0.2	0.5	0.1	37	0.35	0.038	8



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160783	Soil	157	0.07	165	0.207	<1	0.33	0.002	0.03	<0.1	0.02	4.3	3.2	0.44	10	5.7	0.4
1160784	Soil	391	4.39	136	0.091	4	1.62	0.008	0.03	<0.1	0.03	6.8	<0.1	<0.05	4	0.9	<0.2
1160785	Soil	373	3.99	139	0.054	3	1.57	0.009	0.03	<0.1	0.02	4.9	<0.1	<0.05	4	0.6	<0.2
1160786	Soil	137	2.29	126	0.036	1	2.70	0.011	0.02	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1160787	Soil	353	4.86	73	0.036	1	1.98	0.012	0.02	<0.1	<0.01	3.1	<0.1	<0.05	4	0.6	<0.2
1160788	Soil	188	2.27	180	0.038	<1	1.70	0.011	0.03	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1160789	Soil	177	1.75	231	0.040	1	1.52	0.008	0.03	<0.1	0.04	3.3	<0.1	<0.05	3	<0.5	<0.2
1160790	Soil	142	1.04	111	0.077	<1	1.51	0.012	0.04	0.1	<0.01	2.0	<0.1	<0.05	5	0.8	<0.2
1160791	Soil	87	0.68	644	0.018	2	1.50	0.005	0.10	<0.1	0.06	4.7	<0.1	<0.05	4	1.3	<0.2
1160792	Soil	19	0.51	473	0.010	<1	1.25	0.006	0.11	<0.1	0.02	1.7	<0.1	<0.05	5	1.4	0.2
1160793	Soil	65	0.71	611	0.041	1	1.16	0.006	0.05	<0.1	0.04	3.2	<0.1	<0.05	3	0.5	<0.2
1160794	Soil	27	0.32	564	0.009	<1	1.75	0.006	0.11	<0.1	0.02	2.0	0.1	<0.05	7	<0.5	<0.2
1160795	Soil	75	0.82	164	0.021	1	1.67	0.003	0.08	<0.1	0.03	2.7	0.1	<0.05	5	<0.5	<0.2
1160796	Soil	99	0.88	248	0.040	1	1.28	0.006	0.05	<0.1	0.04	2.8	<0.1	<0.05	3	0.6	<0.2
1160797	Soil	309	2.56	123	0.070	4	3.08	0.013	0.04	<0.1	0.03	9.1	1.0	<0.05	4	1.5	<0.2
1160798	Soil	541	5.96	83	0.046	3	2.42	0.012	0.03	<0.1	<0.01	3.7	<0.1	<0.05	6	0.6	<0.2
1160799	Soil	382	6.94	239	0.032	3	3.32	0.008	0.03	<0.1	<0.01	4.9	<0.1	<0.05	4	<0.5	<0.2
1160800	Soil	154	1.58	374	0.031	1	2.33	0.008	0.05	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
1160801	Soil	21	0.12	186	0.004	<1	0.91	0.004	0.11	<0.1	0.02	1.7	<0.1	<0.05	4	1.4	<0.2
1160802	Soil	26	0.35	211	0.003	<1	0.89	0.006	0.10	<0.1	0.04	1.1	<0.1	<0.05	3	0.6	<0.2
1160803	Soil	26	0.25	125	0.003	1	1.76	0.003	0.08	<0.1	0.01	2.1	0.2	<0.05	5	1.3	<0.2
1160804	Soil	23	0.33	119	0.012	<1	1.04	0.005	0.12	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
1160805	Soil	29	0.30	274	0.005	<1	1.40	0.003	0.09	<0.1	0.02	1.8	0.1	<0.05	4	0.6	<0.2
1160806	Soil	21	0.30	303	0.007	1	0.91	0.006	0.11	<0.1	0.04	1.6	<0.1	<0.05	3	1.1	<0.2
1160807	Soil	29	0.40	490	0.005	2	1.05	0.006	0.11	<0.1	0.16	2.2	0.1	<0.05	3	1.7	<0.2
1160808	Soil	49	0.39	274	0.009	<1	0.73	0.007	0.10	<0.1	0.08	1.8	<0.1	0.05	3	1.1	<0.2
1160809	Soil	42	0.55	181	0.005	1	1.05	0.004	0.09	<0.1	<0.01	2.4	<0.1	<0.05	3	0.8	<0.2
1160810	Soil	31	0.38	181	0.004	<1	1.14	0.003	0.09	<0.1	0.07	2.3	<0.1	<0.05	3	1.4	<0.2
1160811	Soil	134	1.35	151	0.047	<1	2.03	0.008	0.03	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
1160812	Soil	98	1.13	114	0.050	1	1.91	0.012	0.04	0.2	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160813	Soil	0.9	24.0	5.9	71	<0.1	89.1	14.6	232	2.98	3.2	<0.5	2.0	12	0.9	0.4	0.1	51	0.42	0.090	7
1160814	Soil	0.6	43.5	6.3	53	0.1	225.3	24.0	268	2.78	5.2	0.6	2.5	13	0.2	0.6	0.1	42	0.37	0.020	10
1160815	Soil	2.4	52.7	13.2	94	0.4	44.6	8.3	205	2.95	16.0	4.3	4.3	16	0.3	2.3	0.3	32	0.05	0.036	19
1160816	Soil	1.2	27.7	8.1	76	0.3	70.9	12.3	468	2.64	5.7	0.6	0.2	12	0.5	0.9	0.2	34	0.21	0.079	8
1160817	Soil	1.9	81.0	8.1	118	0.1	48.2	11.9	366	2.70	7.1	<0.5	2.5	11	<0.1	4.3	0.2	13	0.02	0.047	27
1160818	Soil	3.1	51.9	14.0	97	0.5	35.7	8.7	322	2.90	12.4	5.1	2.9	24	0.3	2.4	0.2	42	0.05	0.044	17
1160819	Soil	1.5	30.6	14.0	58	0.3	19.9	5.9	206	2.67	8.6	1.1	7.7	10	0.2	1.0	0.2	17	0.02	0.030	27
1160820	Soil	2.9	62.4	17.8	104	0.6	54.8	12.4	422	3.74	16.8	7.1	6.0	21	0.3	3.0	0.3	36	0.06	0.056	21
1160821	Soil	2.2	46.8	14.1	92	0.2	49.2	11.4	596	3.45	15.5	2.9	5.9	12	0.5	1.8	0.3	32	0.08	0.066	21
1160822	Soil	2.6	42.2	19.0	94	0.7	36.5	9.1	446	3.20	14.1	0.9	4.2	10	0.2	1.8	0.3	36	0.04	0.061	27
1160823	Soil	2.0	48.4	20.2	94	0.1	46.4	14.6	678	4.18	9.0	0.9	9.3	28	0.2	1.0	0.2	38	0.14	0.098	30
1160824	Soil	2.5	48.0	10.6	79	0.1	43.5	10.9	502	3.33	18.2	2.5	6.4	9	0.2	2.0	0.2	37	0.02	0.038	24
1160825	Soil	4.5	74.9	12.9	160	1.2	21.2	7.6	77	2.22	15.9	3.1	0.8	77	0.5	5.9	0.3	20	0.02	0.071	6
1160826	Soil	2.3	44.5	12.9	73	0.3	35.3	9.2	352	2.45	13.6	1.7	4.9	11	0.3	1.7	0.3	26	0.07	0.055	23
1160827	Soil	2.1	28.4	10.8	60	0.2	15.3	3.3	97	1.57	6.7	1.1	4.9	17	<0.1	1.5	0.2	35	0.03	0.029	23
1160828	Soil	2.6	57.5	17.0	84	0.3	33.6	9.3	307	3.32	9.7	3.8	7.2	20	0.1	1.8	0.3	22	0.02	0.034	25
1160829	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160830	Soil	1.4	60.5	12.2	79	0.2	44.6	9.2	404	2.03	6.9	1.8	5.0	18	0.2	0.8	0.2	29	0.34	0.064	16
1160831	Soil	1.5	153.0	12.8	87	0.2	79.5	16.1	542	2.41	8.5	1.8	3.0	21	0.2	0.9	0.2	41	0.60	0.068	17
1160832	Soil	1.2	23.2	9.0	70	<0.1	28.5	7.6	295	1.75	6.6	3.2	4.5	17	0.2	0.7	0.1	22	0.28	0.069	17
1160833	Soil	1.1	60.6	7.7	80	<0.1	120.0	19.2	521	2.54	6.0	0.6	2.6	15	0.6	0.5	0.1	51	0.48	0.029	10
1160834	Soil	1.1	106.2	8.1	89	<0.1	169.2	24.5	411	2.96	5.5	1.3	2.4	14	0.4	0.5	0.1	57	0.44	0.033	10
1160835	Soil	1.2	60.7	7.6	79	<0.1	131.9	25.4	666	2.59	5.5	<0.5	2.9	22	0.3	0.6	0.1	50	0.73	0.061	9
1160836	Soil	0.6	57.2	6.9	71	<0.1	138.5	19.1	270	2.20	3.5	1.9	3.2	21	0.3	0.4	<0.1	41	0.67	0.066	10
1160837	Soil	0.5	158.2	4.7	44	0.2	123.3	12.1	382	1.31	1.9	2.3	0.9	32	0.3	0.4	<0.1	23	1.73	0.094	8
1160838	Soil	0.3	214.2	4.2	31	0.2	150.2	10.9	237	1.28	1.1	1.2	0.7	25	<0.1	0.2	<0.1	28	1.31	0.064	5
1160839	Soil	0.8	105.8	9.0	68	<0.1	125.0	22.3	532	2.47	5.3	1.2	3.1	22	0.2	0.4	0.1	54	0.71	0.055	12
1160840	Soil	1.0	59.6	7.3	69	<0.1	119.0	17.0	292	2.33	5.6	3.1	2.9	13	0.3	0.5	0.1	44	0.39	0.038	12
1160841	Soil	1.2	30.9	7.7	62	<0.1	53.7	11.6	296	1.86	6.9	2.0	2.3	12	0.3	0.8	0.1	28	0.26	0.031	12
1160842	Soil	1.3	105.1	9.7	62	0.3	139.9	15.5	484	2.14	7.1	1.0	1.9	27	0.2	0.7	0.2	39	0.74	0.070	8



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160813	Soil	148	1.36	82	0.080	<1	2.44	0.008	0.02	0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
1160814	Soil	235	2.52	268	0.035	<1	2.66	0.007	0.03	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1160815	Soil	45	0.45	184	0.015	<1	1.29	0.004	0.10	0.1	0.03	1.9	<0.1	<0.05	4	0.8	<0.2
1160816	Soil	100	0.98	182	0.017	<1	1.52	0.008	0.07	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
1160817	Soil	7	0.04	109	0.003	<1	0.50	0.004	0.10	<0.1	0.01	0.9	<0.1	<0.05	3	1.2	<0.2
1160818	Soil	39	0.47	263	0.012	<1	1.55	0.005	0.09	0.1	0.06	2.0	0.1	<0.05	5	1.3	<0.2
1160819	Soil	17	0.36	121	0.006	<1	1.56	0.007	0.07	<0.1	0.02	1.2	<0.1	<0.05	4	0.5	<0.2
1160820	Soil	48	0.57	190	0.006	<1	1.65	0.005	0.11	<0.1	0.03	2.3	0.1	<0.05	4	1.1	<0.2
1160821	Soil	55	0.58	213	0.009	<1	1.57	0.005	0.09	<0.1	0.01	2.0	<0.1	<0.05	4	0.7	<0.2
1160822	Soil	30	0.43	128	0.008	<1	1.31	0.005	0.09	0.2	0.02	1.5	<0.1	<0.05	5	0.9	<0.2
1160823	Soil	41	1.17	220	0.051	1	2.19	0.005	0.17	<0.1	0.04	2.5	0.1	<0.05	7	0.9	<0.2
1160824	Soil	53	0.58	213	0.005	1	1.53	0.003	0.08	<0.1	0.03	2.5	<0.1	<0.05	5	1.2	<0.2
1160825	Soil	7	0.03	133	0.006	<1	0.41	0.011	0.06	<0.1	0.07	0.9	0.2	0.06	2	1.5	<0.2
1160826	Soil	30	0.27	264	0.009	<1	1.01	0.004	0.09	<0.1	0.03	1.8	<0.1	<0.05	4	0.7	<0.2
1160827	Soil	14	0.13	226	0.011	<1	0.99	0.006	0.07	<0.1	0.01	1.4	0.1	<0.05	5	0.6	<0.2
1160828	Soil	20	0.34	169	0.005	<1	1.38	0.004	0.09	<0.1	0.04	1.7	<0.1	<0.05	4	0.8	<0.2
1160829	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1160830	Soil	46	0.58	325	0.029	2	1.15	0.008	0.06	0.1	0.06	3.0	<0.1	<0.05	3	<0.5	<0.2
1160831	Soil	97	0.85	443	0.034	2	1.44	0.009	0.08	0.1	0.06	5.6	<0.1	<0.05	4	0.9	<0.2
1160832	Soil	33	0.52	216	0.032	<1	0.90	0.005	0.05	0.1	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1160833	Soil	164	1.40	219	0.077	1	1.48	0.007	0.05	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
1160834	Soil	177	1.53	308	0.089	1	1.85	0.010	0.04	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
1160835	Soil	172	1.73	313	0.094	2	1.68	0.007	0.03	<0.1	0.04	4.2	<0.1	<0.05	4	0.6	<0.2
1160836	Soil	168	1.74	180	0.097	2	1.41	0.014	0.03	<0.1	0.03	4.0	<0.1	<0.05	3	0.6	<0.2
1160837	Soil	149	0.92	210	0.043	5	1.10	0.017	0.03	<0.1	0.12	4.1	<0.1	0.17	3	2.9	<0.2
1160838	Soil	152	1.13	127	0.035	2	1.02	0.018	0.02	<0.1	0.06	2.7	<0.1	0.11	2	1.5	<0.2
1160839	Soil	145	1.39	253	0.062	2	1.60	0.009	0.04	<0.1	0.04	4.5	<0.1	<0.05	4	0.6	<0.2
1160840	Soil	131	1.21	171	0.071	2	1.58	0.009	0.05	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1160841	Soil	61	0.61	153	0.046	1	0.94	0.006	0.03	<0.1	<0.01	1.9	<0.1	<0.05	3	0.5	<0.2
1160842	Soil	126	1.03	555	0.018	1	1.59	0.012	0.06	<0.1	0.10	4.3	<0.1	0.09	4	0.8	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160843	Soil																							
1160844	Soil																							
1160845	Soil																							
1160846	Soil																							
1160847	Soil																							
1160848	Soil																							
1160849	Soil																							
1160850	Soil																							
1160618	Soil																							
1160619	Soil																							
1160620	Soil																							
1160621	Soil																							
1160622	Soil																							
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1160637	Soil																							
1160638	Soil																							
1160639	Soil																							
1160640	Soil																							



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160843	Soil	107	0.65	162	0.032	2	1.18	0.005	0.05	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1160844	Soil	552	4.04	127	0.106	2	1.47	0.007	0.04	0.1	0.03	3.7	<0.1	<0.05	5	0.7	<0.2
1160845	Soil	297	2.43	75	0.079	2	1.59	0.009	0.03	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1160846	Soil	292	2.76	93	0.050	<1	2.76	0.008	0.04	0.1	0.02	2.6	<0.1	<0.05	8	0.6	<0.2
1160847	Soil	250	2.38	261	0.036	<1	3.67	0.010	0.04	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1160848	Soil	158	1.68	134	0.054	<1	2.63	0.007	0.04	0.2	0.02	2.3	<0.1	<0.05	8	0.7	<0.2
1160849	Soil	75	0.61	100	0.017	<1	0.83	0.025	0.02	<0.1	0.02	1.5	<0.1	<0.05	2	0.9	<0.2
1160850	Soil	252	2.22	142	0.035	1	1.92	0.012	0.03	<0.1	0.05	4.3	<0.1	<0.05	4	0.9	<0.2
1160618	Soil	522	5.94	213	0.037	2	4.12	0.008	0.01	<0.1	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
1160619	Soil	378	4.07	269	0.079	4	1.82	0.006	0.03	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
1160620	Soil	299	2.64	175	0.080	1	2.49	0.007	0.03	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
1160621	Soil	110	0.86	312	0.019	1	1.79	0.005	0.10	0.1	0.05	2.4	<0.1	<0.05	4	0.7	<0.2
1160622	Soil	40	0.37	171	0.026	<1	1.47	0.004	0.08	0.2	0.03	2.0	0.1	<0.05	5	1.0	<0.2
1160623	Soil	41	0.34	327	0.015	<1	1.66	0.004	0.08	<0.1	0.05	2.2	0.1	<0.05	5	0.5	<0.2
1160624	Soil	48	0.38	170	0.015	<1	1.66	0.003	0.08	0.1	0.05	2.2	0.1	<0.05	5	0.9	<0.2
1160625	Soil	47	0.47	271	0.009	<1	2.06	0.005	0.08	<0.1	0.05	2.0	0.1	<0.05	5	0.5	<0.2
1160626	Soil	50	0.57	180	0.009	<1	1.57	0.004	0.09	<0.1	0.03	2.3	0.1	<0.05	4	0.6	<0.2
1160627	Soil	36	0.36	134	0.014	<1	0.98	0.005	0.10	<0.1	0.02	1.5	<0.1	<0.05	3	1.0	<0.2
1160628	Soil	57	0.42	124	0.010	<1	0.75	0.005	0.12	<0.1	0.04	2.0	<0.1	<0.05	4	0.6	<0.2
1160630	Soil	14	0.11	150	0.008	<1	0.54	0.004	0.13	<0.1	0.07	1.2	<0.1	0.08	2	1.5	<0.2
1160631	Soil	18	0.20	263	0.004	<1	0.71	0.003	0.10	<0.1	0.03	1.2	<0.1	0.06	2	1.1	<0.2
1160632	Soil	19	0.28	216	0.007	<1	0.66	0.005	0.09	<0.1	0.03	1.3	<0.1	0.06	2	1.2	<0.2
1160633	Soil	20	0.26	324	0.006	1	0.70	0.005	0.11	<0.1	0.03	1.5	<0.1	0.08	2	1.3	<0.2
1160634	Soil	9	0.50	205	0.002	<1	1.04	0.002	0.08	<0.1	0.04	1.2	<0.1	<0.05	2	1.4	<0.2
1160635	Soil	29	0.33	195	0.010	<1	1.25	0.004	0.09	<0.1	0.03	1.9	<0.1	<0.05	4	0.7	<0.2
1160636	Soil	121	1.28	164	0.031	<1	1.81	0.011	0.03	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1160637	Soil	183	1.78	136	0.043	<1	2.26	0.008	0.03	<0.1	0.02	2.7	<0.1	<0.05	5	0.8	<0.2
1160638	Soil	83	0.62	174	0.030	<1	2.14	0.010	0.04	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
1160639	Soil	12	0.16	48	0.017	<1	0.45	0.021	0.02	<0.1	0.02	0.5	<0.1	<0.05	2	0.7	<0.2
1160640	Soil	184	1.60	148	0.072	<1	2.15	0.007	0.03	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2



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Bolt

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160641	Soil	0.7	22.7	5.9	77	<0.1	116.3	22.6	400	2.53	2.3	<0.5	1.6	12	0.7	0.4	0.1	44	0.48	0.032	8
1160642	Soil	0.8	26.0	5.7	92	<0.1	126.1	17.1	274	2.87	2.9	0.9	1.9	9	0.7	0.5	0.1	44	0.38	0.068	8
1160643	Soil	0.8	18.2	5.2	58	<0.1	89.0	13.7	242	2.40	2.2	<0.5	1.4	8	0.2	0.5	0.1	52	0.28	0.032	7
1160644	Soil	0.7	45.5	5.1	53	<0.1	298.9	31.8	282	3.12	3.7	1.4	2.1	12	0.2	0.5	<0.1	51	0.42	0.022	8
1160645	Soil	1.0	42.1	10.2	84	0.3	166.3	41.0	886	3.02	3.1	0.7	1.9	14	0.3	0.4	0.2	64	0.38	0.037	10
1160646	Soil	1.5	30.9	8.7	78	0.2	116.0	16.7	383	3.26	7.0	1.2	2.9	10	0.2	0.7	0.2	61	0.22	0.048	11
1160647	Soil	2.3	39.5	12.1	72	0.3	24.3	5.0	136	3.08	14.6	2.4	4.1	14	0.1	2.3	0.3	41	0.04	0.039	18
1160648	Soil	2.1	30.1	12.3	60	0.6	23.3	6.8	269	2.58	8.4	2.2	5.5	11	0.1	1.5	0.2	33	0.04	0.030	21
1160649	Soil	3.1	45.6	14.7	88	0.6	37.1	8.3	275	3.18	11.8	6.7	6.4	13	0.2	2.3	0.3	44	0.03	0.030	21
1160650	Soil	3.2	78.0	14.2	138	0.4	46.3	14.5	1005	3.57	17.8	2.1	5.0	18	0.7	2.7	0.3	55	0.02	0.058	22
1161389	Soil	0.4	43.9	4.2	53	<0.1	259.3	24.3	374	2.40	1.3	2.1	2.3	16	0.2	0.2	<0.1	46	0.67	0.030	9
1161390	Soil	0.6	44.9	4.1	46	<0.1	227.3	19.5	351	2.37	1.9	<0.5	2.0	15	0.1	0.2	<0.1	41	0.60	0.036	9
1161391	Soil	1.4	104.2	6.5	58	0.1	192.9	31.2	1051	2.00	1.6	0.5	0.6	21	1.3	0.3	0.1	39	0.59	0.056	8
1161392	Soil	1.3	44.9	7.9	175	<0.1	212.2	28.6	784	4.01	3.8	1.0	1.5	13	1.2	0.5	0.1	69	0.48	0.065	9
1161393	Soil	1.1	30.8	6.5	72	0.1	187.4	21.6	289	3.34	4.3	0.7	1.3	8	0.5	0.5	0.1	56	0.30	0.044	7
1161394	Soil	0.9	43.5	5.0	44	<0.1	233.7	21.7	372	2.47	3.3	0.6	2.1	13	0.2	0.3	<0.1	42	0.57	0.025	9
1161395	Soil	1.2	36.1	5.7	65	<0.1	148.9	21.0	269	3.57	4.7	1.2	2.0	11	0.4	0.5	0.1	66	0.49	0.032	7
1161396	Soil	0.7	57.8	4.3	37	<0.1	122.4	16.2	240	2.29	2.0	<0.5	1.1	11	0.5	0.3	<0.1	41	0.60	0.019	6
1161397	Soil	0.9	32.2	4.2	52	<0.1	156.9	19.1	281	3.26	2.1	<0.5	1.2	10	0.3	0.3	<0.1	56	0.49	0.031	6
1161398	Soil	0.8	22.3	6.3	56	<0.1	120.7	16.5	247	2.65	3.9	<0.5	3.1	10	0.3	0.4	0.1	46	0.28	0.030	11
1161399	Soil	0.8	28.6	4.9	44	<0.1	264.8	24.1	279	2.65	2.8	<0.5	1.6	12	0.1	0.3	<0.1	46	0.52	0.022	7
1161400	Soil	0.6	45.8	4.0	38	<0.1	430.2	39.6	517	3.15	2.5	<0.5	1.7	13	0.2	0.3	<0.1	44	0.61	0.020	6
1161151	Soil	1.0	26.0	4.4	51	<0.1	123.9	17.0	237	3.40	2.2	0.8	1.8	12	0.3	0.4	0.1	72	0.43	0.027	7
1161152	Soil	0.5	39.9	4.2	38	<0.1	224.5	26.0	363	2.31	1.7	<0.5	1.3	10	0.1	0.2	<0.1	30	0.59	0.016	5
1161153	Soil	0.6	100.0	5.9	46	0.2	245.4	23.7	328	2.48	2.5	1.5	1.4	10	0.2	0.2	<0.1	38	0.64	0.039	8
1161154	Soil	0.7	42.7	3.6	32	<0.1	176.0	21.0	351	1.81	0.9	<0.5	0.9	12	0.1	0.2	<0.1	25	0.50	0.026	5
1161155	Soil	0.8	41.2	2.6	19	0.3	51.2	7.5	819	0.51	<0.5	<0.5	0.2	22	0.6	0.2	<0.1	10	0.99	0.054	2
1161156	Soil	0.3	46.7	3.6	35	<0.1	197.0	18.3	286	1.96	1.6	<0.5	1.6	8	0.1	0.2	<0.1	31	0.48	0.013	6
1161157	Soil	0.8	68.0	4.4	40	<0.1	229.8	28.8	495	2.72	1.7	1.6	0.7	14	0.3	0.2	<0.1	37	0.75	0.037	5
1161158	Soil	0.6	38.2	4.9	46	<0.1	192.0	21.0	335	2.39	1.4	0.7	1.3	16	0.4	0.2	<0.1	44	0.55	0.033	8



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160641	Soil	138	1.45	180	0.054	<1	2.33	0.009	0.04	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1160642	Soil	145	1.62	99	0.045	1	2.09	0.007	0.03	<0.1	0.01	2.1	<0.1	<0.05	6	0.6	<0.2
1160643	Soil	115	1.29	82	0.043	<1	2.22	0.007	0.04	<0.1	0.03	1.7	<0.1	<0.05	6	0.7	<0.2
1160644	Soil	277	2.95	247	0.035	<1	3.22	0.005	0.03	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1160645	Soil	201	1.77	252	0.022	<1	2.79	0.006	0.05	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
1160646	Soil	164	1.45	155	0.058	1	2.09	0.006	0.05	0.2	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
1160647	Soil	27	0.26	141	0.034	<1	1.01	0.004	0.08	0.2	0.03	1.5	<0.1	<0.05	5	0.6	<0.2
1160648	Soil	25	0.30	188	0.012	<1	1.31	0.004	0.08	0.2	0.06	1.5	<0.1	<0.05	4	0.8	<0.2
1160649	Soil	33	0.39	329	0.011	<1	1.66	0.004	0.09	0.1	0.04	2.2	0.1	<0.05	5	1.2	<0.2
1160650	Soil	43	0.42	194	0.010	<1	1.64	0.003	0.12	<0.1	0.05	2.3	0.1	<0.05	6	1.5	<0.2
1161389	Soil	369	3.61	121	0.097	3	1.91	0.010	0.03	<0.1	0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
1161390	Soil	302	2.72	100	0.071	3	1.71	0.013	0.03	<0.1	0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
1161391	Soil	232	1.52	231	0.041	1	1.62	0.016	0.04	<0.1	0.04	3.5	<0.1	<0.05	4	0.6	<0.2
1161392	Soil	289	2.38	183	0.085	1	2.09	0.008	0.04	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1161393	Soil	232	1.90	108	0.073	<1	1.86	0.010	0.04	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1161394	Soil	260	2.56	178	0.072	3	2.16	0.011	0.03	<0.1	<0.01	3.3	<0.1	<0.05	4	0.6	<0.2
1161395	Soil	188	1.79	195	0.086	2	2.72	0.010	0.04	0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
1161396	Soil	167	1.80	63	0.059	<1	2.07	0.013	0.03	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
1161397	Soil	195	2.15	113	0.081	2	2.43	0.011	0.03	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
1161398	Soil	141	1.46	113	0.053	<1	1.99	0.007	0.04	0.2	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1161399	Soil	201	2.39	151	0.055	1	2.92	0.014	0.03	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
1161400	Soil	388	5.04	175	0.064	5	2.65	0.009	0.03	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
1161151	Soil	176	1.68	106	0.099	1	2.78	0.010	0.04	0.1	0.03	2.4	<0.1	<0.05	8	<0.5	<0.2
1161152	Soil	219	3.16	91	0.045	<1	2.43	0.011	0.03	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1161153	Soil	296	2.94	150	0.036	1	2.54	0.011	0.04	<0.1	0.12	5.4	<0.1	<0.05	4	<0.5	<0.2
1161154	Soil	186	2.04	118	0.036	<1	2.33	0.018	0.03	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1161155	Soil	39	0.54	123	0.014	<1	0.48	0.021	0.03	<0.1	0.05	1.0	<0.1	<0.05	1	<0.5	<0.2
1161156	Soil	231	2.45	115	0.044	<1	2.12	0.008	0.02	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1161157	Soil	224	3.26	178	0.038	<1	2.98	0.011	0.03	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1161158	Soil	233	2.48	164	0.054	<1	2.50	0.016	0.03	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161159	Soil	1.2	48.2	6.3	73	<0.1	387.6	39.7	558	4.94	3.9	<0.5	1.6	11	0.4	0.3	0.1	83	0.56	0.040	6
1161160	Soil	0.4	46.9	4.0	38	<0.1	210.4	20.7	274	2.39	1.8	0.9	2.0	10	<0.1	0.2	<0.1	32	0.48	0.017	7
1161161	Soil	2.0	55.9	13.9	75	0.3	60.3	11.1	500	3.04	14.7	5.2	2.6	15	0.2	2.7	0.2	38	0.09	0.045	22
1161162	Soil	1.2	30.9	8.4	74	0.3	99.4	15.1	370	2.88	7.0	0.9	2.9	12	0.2	0.7	0.2	55	0.21	0.036	11
1161163	Soil	1.8	43.1	14.3	65	0.7	27.2	7.3	218	2.94	16.1	2.5	7.3	14	0.2	2.0	0.2	32	0.04	0.030	24
1161165	Soil	0.9	13.5	5.6	52	<0.1	39.6	8.0	161	2.16	2.3	<0.5	1.4	9	0.2	0.4	0.1	51	0.23	0.039	10
1161166	Soil	0.8	35.8	5.0	63	<0.1	172.6	25.5	601	3.10	2.5	<0.5	1.5	11	0.3	0.2	<0.1	55	0.55	0.033	6
1161167	Soil	0.9	38.8	5.9	56	<0.1	156.3	22.7	251	3.45	6.1	<0.5	2.7	10	0.1	0.4	0.2	62	0.39	0.028	8
1161168	Soil	0.9	40.5	6.9	102	<0.1	175.4	28.3	591	3.78	6.5	<0.5	2.9	9	0.4	0.4	0.2	64	0.32	0.052	9
1161169	Soil	0.8	33.6	4.9	58	<0.1	126.5	19.6	428	2.70	2.6	<0.5	1.5	10	0.5	0.3	<0.1	48	0.62	0.057	6
1161170	Soil	0.9	40.9	6.5	53	<0.1	112.9	30.8	1570	2.99	2.6	2.6	0.8	11	0.3	0.2	0.3	60	0.68	0.058	7
1161171	Soil	1.0	32.7	6.5	72	0.2	135.6	18.3	213	4.10	4.6	2.2	1.9	9	0.4	0.5	0.2	61	0.42	0.060	6
1161172	Soil	1.0	28.6	6.4	49	<0.1	132.3	18.6	338	3.06	3.2	0.5	0.9	10	0.9	0.3	0.2	39	0.47	0.055	5
1161173	Soil	1.4	66.1	9.1	112	<0.1	372.3	39.6	541	5.17	8.1	4.2	1.8	10	0.3	0.4	0.2	68	0.38	0.040	8
1161174	Soil	1.0	76.2	8.3	111	<0.1	421.1	45.0	617	5.51	9.2	5.0	1.7	10	0.4	0.5	0.2	69	0.35	0.044	9
1161175	Soil	0.4	753.1	9.1	83	<0.1	207.4	29.9	592	3.59	6.1	2.2	2.8	8	0.4	0.3	0.2	51	0.29	0.033	12
1161176	Soil	0.7	2279	7.1	125	0.3	315.2	45.8	701	4.34	5.3	4.2	2.4	11	0.5	0.3	0.2	60	0.40	0.062	8
1161177	Soil	1.4	1735	9.8	44	0.3	131.5	15.4	289	13.69	4.3	3.2	2.3	6	0.2	0.3	0.1	62	0.24	0.070	4
1161178	Soil	0.5	1287	4.0	71	<0.1	230.3	24.6	361	2.77	2.8	11.4	2.0	12	0.3	0.2	<0.1	36	0.44	0.038	9
1161179	Soil	0.7	119.7	4.3	50	<0.1	270.6	25.3	333	3.06	2.7	3.6	2.0	10	0.2	0.2	<0.1	50	0.43	0.017	9
1161180	Soil	0.9	47.0	7.1	71	<0.1	32.1	12.4	454	2.55	4.7	4.4	3.3	20	0.2	0.5	0.1	53	0.63	0.105	14
1161181	Soil	0.9	35.2	7.1	67	<0.1	32.4	13.7	519	2.78	5.3	5.5	3.8	18	0.3	0.5	0.1	63	0.81	0.083	12
1161182	Soil	1.5	33.4	6.9	65	<0.1	26.7	12.5	354	3.31	5.7	3.1	2.2	11	0.2	0.6	0.1	77	0.49	0.050	11
1161183	Soil	0.9	33.0	5.5	62	<0.1	59.0	12.1	264	3.18	4.1	2.7	2.9	11	0.2	0.3	0.1	66	0.41	0.095	11
1161184	Soil	0.8	308.1	6.8	67	<0.1	199.3	22.9	342	2.87	4.1	4.5	3.1	20	0.2	0.2	0.3	114	0.86	0.058	12
1161185	Soil	0.9	25.5	6.2	52	<0.1	39.7	8.1	271	1.48	3.3	0.8	2.7	14	0.2	0.3	0.3	37	0.36	0.034	12
1161186	Soil	1.6	42.4	11.9	80	<0.1	33.2	17.7	1060	3.38	9.1	2.4	4.7	9	0.2	0.8	0.3	62	0.17	0.090	21
1161187	Soil	1.4	68.7	9.1	94	<0.1	56.5	14.4	310	3.51	7.8	4.2	4.0	11	0.3	0.5	0.2	61	0.29	0.078	15
1161188	Soil	1.5	206.6	9.5	116	<0.1	64.6	17.7	407	3.13	6.1	1.8	3.3	12	0.2	0.5	0.2	78	0.41	0.056	12
1161189	Soil	0.8	178.1	5.4	69	0.2	304.8	34.2	429	3.17	2.0	7.4	2.0	14	0.2	0.1	<0.1	55	0.86	0.037	7



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161159	Soil	484	5.25	153	0.090	2	3.02	0.008	0.04	0.1	0.03	3.4	<0.1	<0.05	8	<0.5	<0.2
1161160	Soil	217	2.96	100	0.052	<1	2.63	0.010	0.02	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1161161	Soil	69	0.59	337	0.010	<1	1.33	0.005	0.09	<0.1	0.08	2.1	0.1	<0.05	4	<0.5	<0.2
1161162	Soil	121	1.13	222	0.048	1	2.07	0.008	0.05	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
1161163	Soil	31	0.37	177	0.016	<1	1.54	0.005	0.10	<0.1	0.03	1.7	0.1	<0.05	4	<0.5	<0.2
1161165	Soil	64	0.64	72	0.059	<1	1.44	0.011	0.04	0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
1161166	Soil	196	2.60	106	0.061	<1	3.31	0.011	0.04	<0.1	0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
1161167	Soil	176	1.65	187	0.071	3	3.34	0.007	0.04	0.1	<0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1161168	Soil	201	1.63	152	0.053	3	2.85	0.006	0.04	0.1	0.03	3.6	<0.1	<0.05	6	0.9	<0.2
1161169	Soil	166	1.91	104	0.065	<1	2.62	0.008	0.04	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1161170	Soil	178	1.98	172	0.048	2	2.70	0.010	0.03	<0.1	0.04	2.5	<0.1	0.08	7	<0.5	<0.2
1161171	Soil	196	1.61	107	0.072	2	2.92	0.007	0.03	0.1	0.05	2.9	<0.1	<0.05	7	0.7	<0.2
1161172	Soil	169	1.96	148	0.047	2	2.38	0.011	0.03	0.1	0.05	2.3	<0.1	<0.05	6	0.7	<0.2
1161173	Soil	488	4.19	164	0.058	4	1.88	0.015	0.04	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1161174	Soil	529	5.07	193	0.056	3	2.02	0.007	0.04	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
1161175	Soil	315	2.26	201	0.049	2	2.07	0.010	0.04	<0.1	0.03	5.1	0.6	<0.05	4	<0.5	<0.2
1161176	Soil	476	2.96	544	0.062	3	2.80	0.005	0.04	<0.1	0.02	12.2	0.3	<0.05	5	<0.5	<0.2
1161177	Soil	394	1.26	162	0.125	1	1.29	0.006	0.03	<0.1	0.02	6.7	1.2	0.16	7	1.1	<0.2
1161178	Soil	231	2.97	123	0.051	2	1.96	0.006	0.03	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
1161179	Soil	271	3.34	116	0.078	2	1.90	0.006	0.02	<0.1	0.02	3.1	<0.1	<0.05	5	0.6	<0.2
1161180	Soil	40	0.57	135	0.112	3	1.55	0.011	0.05	0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
1161181	Soil	46	0.62	179	0.150	2	1.61	0.012	0.04	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
1161182	Soil	52	0.60	146	0.130	2	1.91	0.007	0.05	0.2	0.05	3.2	<0.1	<0.05	6	0.9	<0.2
1161183	Soil	108	0.84	161	0.121	2	1.62	0.008	0.05	0.1	0.04	2.9	<0.1	<0.05	5	<0.5	<0.2
1161184	Soil	273	2.47	243	0.118	3	2.02	0.011	0.05	<0.1	0.09	8.6	<0.1	<0.05	5	0.6	<0.2
1161185	Soil	63	0.56	243	0.049	<1	1.08	0.008	0.06	<0.1	0.02	2.3	0.1	<0.05	3	0.5	<0.2
1161186	Soil	60	0.40	122	0.067	2	1.16	0.006	0.05	0.3	0.04	2.0	0.1	<0.05	6	0.8	<0.2
1161187	Soil	93	0.76	368	0.088	1	1.75	0.006	0.05	0.2	0.05	3.2	0.1	<0.05	6	<0.5	<0.2
1161188	Soil	113	0.76	317	0.115	1	2.14	0.007	0.06	0.2	0.04	4.5	0.1	<0.05	8	<0.5	<0.2
1161189	Soil	423	3.77	156	0.089	2	1.90	0.010	0.02	<0.1	0.13	5.8	<0.1	<0.05	5	0.8	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161190	Soil	0.5	305.2	4.0	109	0.2	252.0	27.5	433	2.59	2.3	1.0	1.4	14	0.1	0.1	<0.1	65	1.08	0.042	6
1161191	Soil	0.4	148.3	3.9	34	<0.1	1016	55.2	466	3.23	2.4	4.8	1.9	10	0.1	0.2	<0.1	38	0.42	0.019	7
1161192	Soil	0.4	95.9	4.3	43	<0.1	523.7	34.6	330	2.77	2.1	4.6	1.7	12	0.1	0.2	<0.1	47	0.53	0.037	7
1161193	Soil	0.5	206.1	5.7	50	0.2	491.5	35.5	482	2.77	2.4	2.5	1.4	12	0.3	0.2	0.1	45	0.54	0.037	7
1161194	Soil	1.1	110.4	9.1	63	0.2	154.2	20.9	401	2.73	5.9	3.6	2.8	21	0.2	0.4	0.1	61	0.82	0.051	10
1161195	Soil	1.1	34.4	7.8	65	0.1	91.6	14.4	344	1.92	4.0	4.1	3.4	19	0.2	0.4	0.1	32	0.47	0.062	13
1161196	Soil	1.4	31.0	11.4	64	<0.1	79.0	13.2	497	2.12	6.4	2.4	3.6	13	0.1	0.6	0.1	40	0.30	0.032	18
1161197	Soil	1.1	964.3	5.5	156	0.1	384.9	30.0	489	4.02	3.3	<0.5	1.3	14	0.4	0.2	<0.1	73	0.98	0.043	7
1161198	Soil	1.3	1238	5.7	162	0.2	382.9	42.3	642	4.28	2.8	2.3	1.3	13	0.5	0.2	0.1	91	0.87	0.039	7
1161199	Soil	0.7	167.0	4.9	62	<0.1	385.8	37.1	501	3.01	3.0	2.3	2.2	13	0.3	0.2	<0.1	43	0.66	0.033	9
1161200	Soil	1.2	39.9	5.4	58	<0.1	132.2	16.3	224	2.68	5.3	2.7	2.5	9	0.3	0.5	0.1	44	0.40	0.048	10
1160851	Soil	0.5	40.3	3.9	37	0.1	29.6	7.7	167	1.36	1.9	1.5	0.6	10	0.3	0.2	<0.1	38	0.24	0.034	6
1160852	Soil	0.8	123.1	6.6	60	<0.1	94.7	16.6	371	2.73	5.3	1.6	3.1	18	0.1	0.4	0.1	66	0.80	0.071	12
1160853	Soil	0.5	62.9	5.0	26	0.2	29.2	13.4	773	1.01	2.2	4.7	0.9	15	<0.1	0.2	<0.1	38	0.44	0.058	9
1160854	Soil	1.0	41.6	5.2	52	<0.1	64.7	11.1	268	1.99	3.8	5.0	3.1	17	0.1	0.3	<0.1	52	0.58	0.060	12
1160855	Soil	0.8	42.2	8.4	46	<0.1	43.7	8.9	225	2.21	3.7	2.1	3.5	10	0.4	0.3	0.2	66	0.29	0.019	12
1160856	Soil	1.3	66.1	9.8	83	0.2	82.8	13.5	299	2.48	5.8	1.5	3.7	23	0.3	0.7	0.2	60	0.76	0.064	11
1160857	Soil	1.1	64.6	8.9	66	0.1	58.0	13.1	595	2.36	4.8	1.8	2.8	20	0.2	0.5	0.3	47	0.39	0.051	11
1160858	Soil	1.2	42.5	7.2	35	0.2	41.8	9.4	474	1.04	1.5	2.1	0.7	29	0.3	0.5	0.2	28	0.75	0.074	6
1160859	Soil	0.8	54.3	8.4	67	0.3	68.5	10.4	429	1.77	3.2	2.0	2.1	31	0.3	0.5	0.1	45	0.91	0.077	10
1160860	Soil	1.3	62.5	10.9	66	0.2	60.5	12.0	648	1.88	4.2	2.0	2.2	35	0.3	0.5	0.2	44	0.91	0.081	10
1160861	Soil	1.4	1361	6.3	128	<0.1	94.5	42.0	666	6.51	3.9	4.0	2.3	21	0.6	0.3	0.1	103	0.87	0.074	7
1160862	Soil	0.9	97.7	6.4	90	<0.1	84.0	20.6	528	2.97	3.0	3.7	2.4	23	0.3	0.3	0.1	76	0.99	0.056	12
1160863	Soil	0.5	203.1	6.8	106	<0.1	46.1	25.5	413	2.26	1.3	0.8	0.7	19	0.8	0.2	0.1	70	0.50	0.034	10
1160864	Soil	1.2	1880	7.0	201	<0.1	184.0	86.1	953	3.42	4.6	1.8	2.5	27	0.5	0.3	0.1	87	0.87	0.083	14
1160865	Soil	0.8	850.0	5.8	140	<0.1	196.9	37.0	568	2.70	2.8	3.2	2.3	23	0.3	0.3	0.1	60	0.70	0.060	12
1160866	Soil	0.7	747.9	5.7	125	<0.1	160.1	24.6	437	2.41	2.9	0.9	2.1	22	0.2	0.3	0.1	55	0.53	0.053	13
1160867	Soil	2.1	523.8	9.5	117	<0.1	136.5	22.4	581	3.85	5.2	1.6	2.0	15	0.5	0.4	0.1	89	0.62	0.035	9
1160868	Soil	1.2	51.1	7.3	64	0.2	23.4	8.5	298	2.93	5.3	2.2	1.1	12	0.3	0.6	0.2	90	0.38	0.056	9
1160869	Soil	1.4	123.2	8.4	70	<0.1	20.5	8.4	232	2.96	5.0	1.6	1.2	8	0.2	0.7	0.2	87	0.31	0.076	10



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161190	Soil	335	2.69	126	0.073	3	1.57	0.007	0.02	<0.1	0.09	4.7	<0.1	<0.05	4	1.5	<0.2
1161191	Soil	792	11.78	96	0.030	8	0.95	0.014	0.02	<0.1	0.04	5.3	<0.1	<0.05	2	1.0	<0.2
1161192	Soil	454	5.32	105	0.046	2	1.34	0.009	0.02	<0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
1161193	Soil	407	5.14	120	0.042	4	1.29	0.011	0.03	<0.1	0.03	4.1	<0.1	<0.05	3	<0.5	<0.2
1161194	Soil	162	1.56	232	0.066	2	1.59	0.007	0.04	<0.1	0.11	3.9	<0.1	<0.05	4	0.8	<0.2
1161195	Soil	112	1.14	280	0.039	2	1.38	0.007	0.06	<0.1	0.08	2.6	<0.1	<0.05	3	0.5	<0.2
1161196	Soil	89	0.83	424	0.032	1	1.37	0.005	0.05	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
1161197	Soil	424	4.14	166	0.102	2	2.14	0.007	0.03	<0.1	0.05	7.4	<0.1	<0.05	5	1.3	<0.2
1161198	Soil	383	3.75	149	0.111	4	1.82	0.008	0.03	<0.1	0.03	7.4	<0.1	<0.05	5	1.2	<0.2
1161199	Soil	352	4.18	120	0.090	3	1.49	0.009	0.03	<0.1	0.02	5.0	<0.1	<0.05	4	0.6	<0.2
1161200	Soil	142	1.24	116	0.053	2	2.92	0.010	0.04	0.2	0.03	2.9	<0.1	<0.05	5	0.6	<0.2
1160851	Soil	48	0.30	209	0.059	1	0.99	0.010	0.04	<0.1	0.04	1.5	<0.1	<0.05	4	<0.5	<0.2
1160852	Soil	145	1.39	421	0.107	2	1.88	0.015	0.04	0.1	0.03	4.9	<0.1	<0.05	5	0.6	<0.2
1160853	Soil	57	0.38	421	0.028	1	0.92	0.015	0.04	<0.1	0.07	3.1	<0.1	<0.05	3	<0.5	<0.2
1160854	Soil	103	1.08	191	0.103	2	1.35	0.005	0.03	0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1160855	Soil	91	0.79	121	0.083	2	1.70	0.004	0.05	0.2	0.02	2.9	<0.1	<0.05	5	0.8	<0.2
1160856	Soil	142	1.19	377	0.100	2	1.77	0.013	0.05	0.1	0.11	5.1	<0.1	<0.05	5	0.8	<0.2
1160857	Soil	105	0.71	339	0.042	1	1.61	0.008	0.06	0.1	0.07	4.3	<0.1	<0.05	4	0.5	<0.2
1160858	Soil	61	0.43	283	0.024	2	1.05	0.017	0.03	<0.1	0.07	2.3	<0.1	0.08	3	2.2	<0.2
1160859	Soil	120	0.79	349	0.046	2	1.52	0.015	0.05	<0.1	0.11	4.3	<0.1	0.08	4	1.5	<0.2
1160860	Soil	92	0.70	400	0.037	2	1.44	0.009	0.05	<0.1	0.09	3.7	<0.1	0.07	4	2.0	<0.2
1160861	Soil	161	1.60	292	0.245	3	2.45	0.007	0.03	<0.1	0.02	7.0	0.1	<0.05	6	1.5	<0.2
1160862	Soil	155	1.38	235	0.180	3	2.28	0.017	0.06	0.1	0.03	7.1	<0.1	<0.05	6	<0.5	<0.2
1160863	Soil	92	0.81	270	0.117	2	1.92	0.010	0.03	<0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
1160864	Soil	213	2.10	381	0.154	4	2.51	0.009	0.04	<0.1	0.02	9.1	0.2	<0.05	5	1.8	<0.2
1160865	Soil	229	2.70	277	0.121	4	1.72	0.011	0.03	<0.1	0.01	6.1	<0.1	<0.05	4	1.0	<0.2
1160866	Soil	203	2.14	311	0.093	3	1.71	0.009	0.04	<0.1	0.01	5.5	<0.1	<0.05	4	0.7	<0.2
1160867	Soil	234	1.55	232	0.143	3	1.72	0.013	0.03	<0.1	0.02	5.4	<0.1	<0.05	6	1.4	<0.2
1160868	Soil	55	0.49	298	0.099	<1	1.61	0.008	0.04	<0.1	0.05	3.1	<0.1	<0.05	6	<0.5	<0.2
1160869	Soil	63	0.30	152	0.109	1	1.64	0.006	0.03	0.1	0.06	2.8	0.1	<0.05	6	0.9	<0.2



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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160870	Soil		1.3	195.5	7.7	76	<0.1	20.1	8.0	185	3.07	5.2	1.6	3.9	11	0.3	0.6	0.2	92	0.48	0.039	13
1160871	Soil		0.4	288.2	4.3	83	0.2	463.0	34.6	313	2.65	2.4	3.7	2.6	16	0.1	0.2	<0.1	57	0.75	0.047	10
1160872	Soil		1.0	92.9	6.4	56	<0.1	260.7	36.3	435	3.79	3.6	2.7	2.3	11	0.2	0.3	0.1	105	0.32	0.021	8
1160873	Soil		0.6	19.4	2.7	19	<0.1	21.4	4.8	79	2.04	1.0	0.6	0.7	5	0.2	0.1	<0.1	132	0.10	0.019	3
1160874	Soil		0.6	103.8	5.7	51	<0.1	301.7	28.2	356	3.09	2.4	<0.5	2.6	14	0.1	0.2	<0.1	77	0.60	0.030	9
1160875	Soil		0.4	219.6	4.0	53	<0.1	269.6	24.4	409	2.92	2.3	<0.5	2.0	13	0.2	0.2	0.1	77	0.74	0.029	9
1160876	Soil		0.7	87.4	4.2	39	<0.1	174.4	18.7	228	2.14	2.9	1.0	1.6	9	0.1	0.3	<0.1	41	0.47	0.015	5
1160877	Soil		0.7	98.6	4.3	44	<0.1	197.4	20.3	253	2.42	3.0	<0.5	2.0	9	0.1	0.3	<0.1	49	0.53	0.013	6
1160878	Soil		0.5	75.0	2.9	22	<0.1	53.6	7.3	186	0.67	0.7	<0.5	0.2	13	0.5	<0.1	<0.1	18	0.50	0.041	3
1160879	Soil		0.6	49.0	5.1	56	<0.1	368.0	33.9	500	3.18	2.8	<0.5	1.7	12	0.2	0.2	<0.1	58	0.49	0.026	7
1160880	Soil		0.7	29.9	6.0	93	<0.1	259.9	29.9	457	3.44	2.2	<0.5	1.9	9	0.4	0.3	0.1	59	0.32	0.027	8
1160881	Soil		1.0	36.7	5.6	48	<0.1	154.3	17.7	224	2.78	4.6	1.0	2.0	10	0.2	0.5	0.1	54	0.35	0.032	7
1160882	Soil		1.1	26.0	4.8	63	<0.1	150.2	15.1	266	1.99	1.8	<0.5	0.6	9	0.4	0.3	0.1	33	0.61	0.049	5
1160883	Soil		0.5	44.7	3.2	37	<0.1	200.4	18.6	339	2.02	2.8	<0.5	1.2	11	0.1	0.3	<0.1	31	0.55	0.033	6
1160884	Soil		0.9	47.3	4.1	50	0.1	181.4	20.0	230	2.51	4.1	0.9	2.2	10	0.2	0.3	<0.1	41	0.47	0.030	8
1160885	Soil		1.2	42.0	6.0	83	<0.1	181.1	26.8	675	2.63	3.6	<0.5	1.7	9	0.4	0.3	0.1	43	0.66	0.028	7
1160886	Soil		0.7	42.0	4.8	46	<0.1	228.2	21.9	304	2.35	3.4	3.0	2.4	12	0.1	0.3	<0.1	37	0.49	0.024	9
1160887	Soil		1.0	48.9	5.3	43	<0.1	238.8	21.7	322	1.68	2.2	1.4	0.7	14	0.2	0.2	<0.1	28	0.50	0.050	5
1160888	Soil		0.6	41.1	5.0	48	<0.1	224.9	22.8	353	2.40	2.6	1.1	2.4	14	0.2	0.2	<0.1	42	0.58	0.031	9
1160889	Soil		0.3	121.2	5.0	51	0.2	420.9	27.7	1480	2.53	2.5	3.0	1.8	24	0.3	0.3	0.1	47	0.98	0.054	9
1160890	Soil		0.9	172.4	5.6	50	<0.1	196.8	28.9	915	1.53	1.4	0.9	0.7	18	0.2	0.2	0.2	34	0.73	0.062	4
1160891	Soil		0.8	1067	7.8	78	0.2	256.2	27.2	435	2.02	2.0	2.2	1.5	18	0.3	0.2	0.2	39	0.81	0.047	8
1160892	Soil		1.3	407.8	5.7	72	0.2	96.1	15.3	209	1.87	3.7	1.4	1.2	10	0.3	0.6	0.1	40	0.22	0.028	7
1160893	Soil		1.3	44.4	11.6	63	0.1	96.8	18.3	422	2.57	4.6	10.1	3.1	13	0.2	0.6	0.2	34	0.23	0.048	11
1160894	Soil		1.3	55.6	11.0	65	0.2	111.7	16.1	612	2.27	4.6	2.3	3.8	17	0.3	0.7	0.2	34	0.34	0.049	12
1160895	Soil		1.2	28.5	7.9	48	0.2	61.6	9.8	254	1.88	4.4	1.9	2.2	15	0.2	0.7	0.1	30	0.26	0.031	9
1160896	Soil		0.3	20.2	2.6	16	0.2	28.4	2.4	49	0.52	0.6	0.6	0.2	10	0.2	0.1	<0.1	11	0.16	0.022	3
1160897	Soil		0.7	436.0	5.8	133	<0.1	249.8	17.1	281	2.03	2.0	2.5	1.9	15	0.2	0.3	0.1	42	0.51	0.060	10
1160898	Soil		0.6	400.7	4.5	143	<0.1	207.2	20.7	313	2.05	1.8	1.1	1.3	13	0.2	0.2	<0.1	38	0.36	0.043	8
1160899	Soil		0.5	166.5	4.1	77	<0.1	224.3	19.9	331	1.89	2.1	2.3	1.5	12	0.2	0.3	<0.1	38	0.46	0.037	6



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160870	Soil	56	0.33	181	0.167	2	1.33	0.008	0.03	<0.1	0.01	2.8	<0.1	<0.05	6	0.7	<0.2
1160871	Soil	507	4.47	123	0.082	5	1.55	0.010	0.03	<0.1	0.06	5.0	<0.1	<0.05	4	0.8	<0.2
1160872	Soil	300	2.51	105	0.127	2	1.49	0.014	0.03	<0.1	0.02	3.7	<0.1	<0.05	5	0.8	<0.2
1160873	Soil	35	0.16	46	0.136	<1	0.50	0.015	0.02	<0.1	0.02	1.1	<0.1	<0.05	4	0.7	<0.2
1160874	Soil	274	3.29	99	0.103	1	1.62	0.012	0.03	<0.1	0.02	4.1	<0.1	<0.05	5	0.8	<0.2
1160875	Soil	254	2.89	159	0.117	2	2.05	0.011	0.03	<0.1	0.03	5.4	<0.1	<0.05	5	1.0	<0.2
1160876	Soil	197	2.22	112	0.052	1	2.39	0.012	0.03	<0.1	0.01	2.5	<0.1	<0.05	4	1.0	<0.2
1160877	Soil	240	2.74	114	0.065	<1	2.72	0.008	0.03	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1160878	Soil	54	0.27	88	0.024	<1	0.42	0.022	0.03	<0.1	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1160879	Soil	407	4.39	99	0.097	3	1.52	0.013	0.03	<0.1	<0.01	3.7	<0.1	<0.05	4	1.0	<0.2
1160880	Soil	353	2.88	78	0.074	<1	1.92	0.008	0.03	<0.1	0.01	2.3	<0.1	<0.05	6	0.8	<0.2
1160881	Soil	236	1.74	122	0.058	<1	2.85	0.011	0.04	0.2	0.02	2.5	<0.1	<0.05	6	0.8	<0.2
1160882	Soil	193	1.55	98	0.039	<1	2.15	0.013	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
1160883	Soil	182	2.24	136	0.040	<1	2.70	0.015	0.03	<0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
1160884	Soil	205	2.42	142	0.047	1	3.40	0.009	0.03	0.1	0.04	2.6	<0.1	<0.05	5	0.9	<0.2
1160885	Soil	181	2.46	147	0.035	<1	3.08	0.014	0.04	0.1	0.02	2.3	<0.1	<0.05	7	0.8	<0.2
1160886	Soil	194	2.65	131	0.044	1	2.55	0.009	0.04	0.1	0.02	2.1	<0.1	<0.05	4	1.2	<0.2
1160887	Soil	182	1.82	162	0.023	<1	1.94	0.026	0.04	<0.1	0.03	2.6	<0.1	<0.05	3	0.7	<0.2
1160888	Soil	240	2.87	143	0.069	2	1.94	0.009	0.03	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1160889	Soil	267	2.09	318	0.041	2	2.25	0.019	0.04	<0.1	0.07	5.8	<0.1	<0.05	4	1.2	<0.2
1160890	Soil	178	1.21	189	0.018	1	1.27	0.014	0.02	<0.1	0.03	3.6	<0.1	<0.05	3	0.8	<0.2
1160891	Soil	206	1.60	182	0.031	2	1.49	0.010	0.02	<0.1	0.06	4.6	<0.1	<0.05	3	0.7	<0.2
1160892	Soil	99	0.78	141	0.029	1	1.04	0.008	0.03	0.1	0.01	1.7	<0.1	<0.05	3	0.6	<0.2
1160893	Soil	109	1.02	180	0.021	1	1.80	0.007	0.03	<0.1	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
1160894	Soil	108	0.98	278	0.028	1	1.36	0.006	0.04	<0.1	0.06	3.2	<0.1	<0.05	3	0.5	<0.2
1160895	Soil	81	0.69	197	0.021	<1	1.10	0.009	0.03	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1160896	Soil	32	0.22	143	0.009	1	0.50	0.015	0.03	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
1160897	Soil	246	1.74	186	0.056	2	1.36	0.011	0.02	<0.1	0.03	3.8	<0.1	<0.05	3	<0.5	<0.2
1160898	Soil	255	1.95	126	0.044	2	1.33	0.008	0.02	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1160899	Soil	216	1.78	109	0.067	2	1.22	0.013	0.02	<0.1	0.02	2.9	<0.1	<0.05	3	0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1160900	Soil	0.9	47.8	6.2	76	<0.1	146.9	16.7	263	2.90	4.3	1.2	1.8	9	0.4	0.4	0.1	61	0.24	0.029	8
1160701	Soil	0.8	103.9	4.8	57	0.1	304.6	24.4	400	2.75	2.1	2.7	0.8	12	0.1	0.2	<0.1	68	0.71	0.067	7
1160702	Soil	0.5	35.6	4.2	37	<0.1	266.1	20.9	275	2.34	2.1	1.8	1.9	9	<0.1	0.2	0.2	39	0.41	0.014	7
1160703	Soil	0.4	41.3	4.3	42	<0.1	252.8	21.4	327	2.35	2.1	0.7	1.4	10	0.1	0.2	<0.1	41	0.46	0.026	6



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160900	Soil	218	1.50	76	0.085	<1	1.30	0.007	0.03	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1160701	Soil	361	2.82	192	0.048	4	1.72	0.009	0.02	<0.1	0.04	5.1	<0.1	<0.05	4	0.7	<0.2
1160702	Soil	262	3.23	88	0.083	2	1.60	0.010	0.02	0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1160703	Soil	257	2.88	99	0.067	3	1.57	0.008	0.02	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1160518	Soil	2.0	33.4	12.1	96	0.1	58.2	11.6	551	3.02	12.2	3.2	3.6	18	0.6	1.4	0.2	43	0.24	0.105	19
REP 1160518	QC	1.8	33.4	12.0	97	0.1	56.8	12.1	532	2.94	12.2	1.2	3.6	18	0.6	1.3	0.2	43	0.25	0.103	19
1160525	Soil	1.9	41.6	22.1	59	<0.1	27.1	12.7	749	2.76	17.4	4.6	5.6	11	0.2	1.3	0.3	9	0.06	0.052	28
REP 1160525	QC	1.8	39.4	21.1	59	<0.1	26.7	12.2	733	2.60	17.2	<0.5	5.3	11	0.2	1.3	0.3	9	0.05	0.049	27
1160952	Soil	0.4	103.3	5.9	63	<0.1	254.5	25.0	390	2.82	5.5	0.7	2.9	13	0.3	0.4	<0.1	54	0.55	0.030	10
REP 1160952	QC	0.5	101.7	6.0	62	<0.1	251.6	24.5	387	2.77	5.4	0.6	2.9	13	0.2	0.4	<0.1	55	0.57	0.031	10
1160751	Soil	0.4	22.7	4.6	60	<0.1	184.4	20.9	244	2.71	3.2	1.1	1.4	11	0.3	0.4	0.1	46	0.37	0.042	6
REP 1160751	QC	0.6	23.5	4.7	65	<0.1	204.7	22.7	264	2.89	3.4	<0.5	1.5	13	0.2	0.3	0.1	49	0.45	0.045	6
1160772	Soil	0.9	42.0	5.1	62	<0.1	44.5	11.6	347	2.65	5.5	<0.5	2.4	14	0.2	0.6	0.1	60	0.38	0.052	9
REP 1160772	QC	0.9	43.3	5.3	63	<0.1	48.0	11.7	369	2.76	5.4	1.5	2.5	14	0.2	0.6	0.2	64	0.41	0.052	10
1160781	Soil	0.6	372.3	6.2	125	0.1	123.4	17.6	422	2.77	3.9	3.5	1.1	25	0.2	0.3	0.2	69	1.12	0.093	12
REP 1160781	QC	0.5	376.5	5.8	126	0.1	121.1	17.8	421	2.74	3.8	4.3	1.1	25	0.2	0.3	0.2	68	1.09	0.093	12
1160800	Soil	1.1	45.9	9.3	64	<0.1	147.1	19.0	427	2.81	7.3	3.7	3.0	14	0.2	0.8	0.2	46	0.38	0.033	11
REP 1160800	QC	1.1	47.6	9.4	66	<0.1	155.9	20.5	457	3.00	7.6	1.6	3.3	14	0.3	0.8	0.2	48	0.41	0.037	12
1160823	Soil	2.0	48.4	20.2	94	0.1	46.4	14.6	678	4.18	9.0	0.9	9.3	28	0.2	1.0	0.2	38	0.14	0.098	30
REP 1160823	QC	1.9	49.0	20.5	91	0.1	46.0	14.8	675	4.24	9.1	1.9	9.2	28	0.2	1.0	0.2	37	0.14	0.097	30
1160828	Soil	2.6	57.5	17.0	84	0.3	33.6	9.3	307	3.32	9.7	3.8	7.2	20	0.1	1.8	0.3	22	0.02	0.034	25
REP 1160828	QC	2.6	56.6	16.8	82	0.3	32.9	9.2	316	3.28	9.3	4.6	7.2	20	0.1	1.7	0.3	26	0.02	0.035	26
1160844	Soil	1.0	39.7	8.4	115	<0.1	358.5	44.7	574	6.04	4.5	4.5	2.1	8	0.5	0.6	0.2	97	0.32	0.065	7
REP 1160844	QC	0.9	39.9	8.7	116	<0.1	360.3	44.9	565	5.98	4.4	0.5	2.2	8	0.4	0.5	0.2	95	0.32	0.067	7
1160634	Soil	2.0	51.4	18.5	89	0.1	39.0	14.2	1285	3.07	8.9	9.8	4.8	9	0.2	2.1	0.3	10	0.10	0.087	23
REP 1160634	QC	2.0	52.7	18.1	89	0.1	38.1	13.7	1281	3.11	9.1	8.8	4.7	10	0.3	2.1	0.3	11	0.09	0.083	23
1160649	Soil	3.1	45.6	14.7	88	0.6	37.1	8.3	275	3.18	11.8	6.7	6.4	13	0.2	2.3	0.3	44	0.03	0.030	21
REP 1160649	QC	2.9	46.1	14.3	90	0.6	37.1	8.2	278	3.16	11.5	5.6	6.2	13	0.2	2.3	0.3	43	0.03	0.030	21
1161161	Soil	2.0	55.9	13.9	75	0.3	60.3	11.1	500	3.04	14.7	5.2	2.6	15	0.2	2.7	0.2	38	0.09	0.045	22
REP 1161161	QC	2.0	55.8	13.9	78	0.3	61.0	11.8	511	3.10	15.3	6.3	2.5	15	0.2	2.9	0.2	39	0.09	0.046	22
1161184	Soil	0.8	308.1	6.8	67	<0.1	199.3	22.9	342	2.87	4.1	4.5	3.1	20	0.2	0.2	0.3	114	0.86	0.058	12
REP 1161184	QC	1.0	302.9	7.3	69	<0.1	200.2	23.9	350	2.96	4.3	3.6	3.2	21	0.2	0.2	0.2	100	0.90	0.056	13



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1160518	Soil	70	0.81	166	0.039	3	1.49	0.006	0.10	0.1	0.01	2.1	<0.1	<0.05	5	1.0	<0.2
REP 1160518	QC	70	0.78	171	0.035	2	1.48	0.006	0.10	0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1160525	Soil	7	0.04	82	0.003	2	0.26	0.004	0.13	<0.1	0.03	0.6	<0.1	<0.05	1	0.6	<0.2
REP 1160525	QC	7	0.04	80	0.003	<1	0.25	0.004	0.13	<0.1	0.02	0.5	<0.1	<0.05	1	<0.5	<0.2
1160952	Soil	225	2.81	149	0.085	<1	2.17	0.010	0.03	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 1160952	QC	226	2.81	145	0.088	1	2.17	0.016	0.04	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1160751	Soil	192	2.13	196	0.033	<1	2.52	0.009	0.03	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
REP 1160751	QC	201	2.18	204	0.038	<1	2.70	0.008	0.03	<0.1	0.02	2.3	<0.1	<0.05	5	1.1	<0.2
1160772	Soil	80	0.82	107	0.125	<1	1.52	0.005	0.03	0.1	0.02	3.2	<0.1	<0.05	4	0.9	<0.2
REP 1160772	QC	84	0.86	111	0.137	1	1.57	0.005	0.04	0.1	0.03	3.3	<0.1	<0.05	4	0.6	<0.2
1160781	Soil	166	1.31	473	0.073	4	2.33	0.012	0.05	<0.1	0.06	7.9	<0.1	<0.05	5	1.0	<0.2
REP 1160781	QC	165	1.31	484	0.068	2	2.35	0.012	0.04	<0.1	0.06	7.7	0.1	<0.05	5	2.5	<0.2
1160800	Soil	154	1.58	374	0.031	1	2.33	0.008	0.05	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
REP 1160800	QC	163	1.74	386	0.035	<1	2.56	0.007	0.06	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
1160823	Soil	41	1.17	220	0.051	1	2.19	0.005	0.17	<0.1	0.04	2.5	0.1	<0.05	7	0.9	<0.2
REP 1160823	QC	41	1.17	221	0.050	<1	2.13	0.005	0.16	<0.1	0.04	2.4	0.1	<0.05	7	0.8	<0.2
1160828	Soil	20	0.34	169	0.005	<1	1.38	0.004	0.09	<0.1	0.04	1.7	<0.1	<0.05	4	0.8	<0.2
REP 1160828	QC	21	0.34	174	0.004	<1	1.39	0.004	0.09	<0.1	0.04	1.7	<0.1	<0.05	4	0.6	<0.2
1160844	Soil	552	4.04	127	0.106	2	1.47	0.007	0.04	0.1	0.03	3.7	<0.1	<0.05	5	0.7	<0.2
REP 1160844	QC	544	4.13	132	0.105	2	1.48	0.008	0.04	0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
1160634	Soil	9	0.50	205	0.002	<1	1.04	0.002	0.08	<0.1	0.04	1.2	<0.1	<0.05	2	1.4	<0.2
REP 1160634	QC	9	0.51	206	0.001	<1	1.04	0.002	0.07	<0.1	0.04	1.1	<0.1	<0.05	3	0.9	<0.2
1160649	Soil	33	0.39	329	0.011	<1	1.66	0.004	0.09	0.1	0.04	2.2	0.1	<0.05	5	1.2	<0.2
REP 1160649	QC	33	0.38	319	0.010	<1	1.61	0.007	0.09	0.1	0.04	2.1	0.1	<0.05	5	1.2	<0.2
1161161	Soil	69	0.59	337	0.010	<1	1.33	0.005	0.09	<0.1	0.08	2.1	0.1	<0.05	4	<0.5	<0.2
REP 1161161	QC	71	0.57	326	0.010	<1	1.34	0.005	0.09	<0.1	0.07	2.0	<0.1	<0.05	4	<0.5	<0.2
1161184	Soil	273	2.47	243	0.118	3	2.02	0.011	0.05	<0.1	0.09	8.6	<0.1	<0.05	5	0.6	<0.2
REP 1161184	QC	278	2.36	252	0.115	3	2.00	0.011	0.05	<0.1	0.09	8.8	<0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1161196	Soil	1.4	31.0	11.4	64	<0.1	79.0	13.2	497	2.12	6.4	2.4	3.6	13	0.1	0.6	0.1	40	0.30	0.032
REP 1161196	QC	1.3	28.9	10.6	59	0.1	74.0	12.7	469	2.04	5.7	1.7	3.4	12	0.1	0.6	0.1	37	0.27	0.029
1160855	Soil	0.8	42.2	8.4	46	<0.1	43.7	8.9	225	2.21	3.7	2.1	3.5	10	0.4	0.3	0.2	66	0.29	0.019
REP 1160855	QC	1.0	42.7	8.3	47	<0.1	46.6	8.8	238	2.20	4.0	2.2	3.4	10	0.5	0.3	0.2	66	0.31	0.021
1160875	Soil	0.4	219.6	4.0	53	<0.1	269.6	24.4	409	2.92	2.3	<0.5	2.0	13	0.2	0.2	0.1	77	0.74	0.029
REP 1160875	QC	0.5	223.8	4.3	54	<0.1	269.5	24.7	418	2.90	2.3	<0.5	2.0	13	0.1	0.2	<0.1	77	0.73	0.029
1160896	Soil	0.3	20.2	2.6	16	0.2	28.4	2.4	49	0.52	0.6	0.6	0.2	10	0.2	0.1	<0.1	11	0.16	0.022
REP 1160896	QC	0.4	20.8	2.8	17	0.2	29.5	2.6	49	0.54	0.6	0.6	0.2	11	0.2	0.2	<0.1	11	0.16	0.023
Reference Materials																				
STD DS8	Standard	11.9	108.9	122.9	288	1.6	37.0	7.4	551	2.27	24.2	95.7	5.9	60	2.1	5.1	5.9	40	0.61	0.076
STD DS8	Standard	12.6	112.9	122.6	296	1.7	39.0	7.5	582	2.36	25.0	95.7	6.3	63	2.1	5.3	6.1	42	0.63	0.076
STD DS8	Standard	12.5	98.4	116.1	286	1.8	33.8	6.5	545	2.26	24.6	114.7	6.2	66	2.1	5.6	6.5	37	0.61	0.077
STD DS8	Standard	11.8	96.0	115.7	287	1.7	33.8	6.4	560	2.28	24.4	107.4	6.2	67	2.2	5.4	6.5	36	0.65	0.071
STD DS8	Standard	13.0	107.0	127.7	315	1.8	37.1	7.3	612	2.51	27.1	118.8	7.1	70	2.2	5.7	7.2	38	0.68	0.079
STD DS8	Standard	13.2	105.7	125.2	303	1.8	35.2	7.2	582	2.35	25.3	105.9	6.9	70	2.1	5.8	6.7	38	0.64	0.074
STD DS8	Standard	13.0	106.1	128.0	310	1.9	37.3	7.3	628	2.46	25.6	112.1	7.0	76	2.1	5.8	6.6	41	0.71	0.077
STD DS8	Standard	12.5	104.7	121.8	312	1.9	38.2	7.3	615	2.43	25.5	116.1	6.7	70	2.1	5.7	6.7	40	0.70	0.078
STD DS8	Standard	12.9	110.8	127.1	315	1.9	36.9	7.7	637	2.48	27.4	119.6	6.7	71	2.2	6.0	6.4	40	0.69	0.083
STD DS8	Standard	13.8	113.1	130.2	312	1.8	39.4	7.7	612	2.48	27.5	105.3	7.3	73	2.4	6.2	6.5	38	0.71	0.083
STD DS8	Standard	12.3	106.0	118.4	288	1.7	35.5	7.3	555	2.30	25.1	111.8	6.9	64	2.3	5.4	6.4	33	0.64	0.073
STD DS8	Standard	13.2	107.0	121.0	293	1.7	36.2	7.2	565	2.28	26.2	116.1	7.2	65	2.3	5.6	6.5	36	0.67	0.076
STD DS8	Standard	12.7	104.8	126.9	307	1.7	37.6	7.4	574	2.38	24.6	116.3	6.8	66	2.1	5.4	6.7	41	0.66	0.078
STD DS8	Standard	11.8	99.1	122.8	285	1.6	35.8	7.0	542	2.25	23.8	107.3	6.6	64	2.0	5.4	6.5	39	0.65	0.074
STD DS8	Standard	11.5	91.6	111.3	275	1.6	32.6	6.5	535	2.20	23.0	104.6	6.3	69	2.1	5.0	6.0	35	0.65	0.071
STD DS8	Standard	11.7	93.0	110.0	276	1.6	30.9	6.1	551	2.17	23.3	101.2	6.5	69	2.2	5.3	6.1	36	0.67	0.071
STD DS8	Standard	14.1	116.3	133.8	313	1.8	39.5	7.7	634	2.52	26.5	121.8	7.4	70	2.4	6.1	7.0	43	0.69	0.080
STD DS8	Standard	14.4	110.9	133.0	316	1.9	38.0	7.5	620	2.43	26.5	113.7	7.6	73	2.4	5.9	7.0	41	0.72	0.078
STD DS8	Standard	14.0	106.3	124.5	302	1.8	37.8	7.2	641	2.61	26.0	112.5	6.6	66	1.9	5.2	5.4	36	0.70	0.079
STD DS8	Standard	13.4	104.7	114.0	292	1.7	33.9	7.0	581	2.39	24.7	100.9	6.1	63	1.9	5.1	4.7	27	0.68	0.073



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Project:

Bolt

Report Date:

August 05, 2011

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Part 2

QUALITY CONTROL REPORT

WHI11000505.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1161196	Soil	89	0.83	424	0.032	1	1.37	0.005	0.05	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5
REP 1161196	QC	86	0.72	406	0.028	<1	1.26	0.005	0.04	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5
1160855	Soil	91	0.79	121	0.083	2	1.70	0.004	0.05	0.2	0.02	2.9	<0.1	<0.05	5	0.8
REP 1160855	QC	94	0.79	120	0.093	2	1.70	0.005	0.05	0.2	0.02	2.9	<0.1	<0.05	5	0.7
1160875	Soil	254	2.89	159	0.117	2	2.05	0.011	0.03	<0.1	0.03	5.4	<0.1	<0.05	5	1.0
REP 1160875	QC	255	2.90	152	0.119	2	2.05	0.011	0.03	<0.1	0.03	5.6	<0.1	<0.05	5	0.8
1160896	Soil	32	0.22	143	0.009	1	0.50	0.015	0.03	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5
REP 1160896	QC	33	0.23	145	0.009	1	0.53	0.016	0.03	<0.1	0.02	0.9	<0.1	<0.05	1	<0.5
Reference Materials																
STD DS8	Standard	111	0.57	234	0.113	1	0.85	0.089	0.39	2.6	0.19	1.6	4.9	0.13	4	5.2
STD DS8	Standard	118	0.59	252	0.123	2	0.88	0.097	0.40	2.8	0.18	2.0	5.0	0.15	4	5.1
STD DS8	Standard	107	0.55	263	0.106	2	0.86	0.077	0.41	2.6	0.19	2.3	5.0	0.16	4	4.8
STD DS8	Standard	107	0.55	256	0.104	2	0.86	0.085	0.40	2.6	0.20	2.0	5.2	0.14	4	5.8
STD DS8	Standard	116	0.61	296	0.117	3	0.95	0.105	0.48	2.9	0.20	2.8	5.4	0.08	5	5.4
STD DS8	Standard	110	0.60	276	0.111	3	0.91	0.117	0.43	2.7	0.21	3.0	5.0	0.08	5	5.6
STD DS8	Standard	118	0.61	263	0.120	2	0.95	0.108	0.45	3.1	0.22	2.6	5.6	0.17	5	6.1
STD DS8	Standard	116	0.62	267	0.123	3	0.94	0.105	0.43	2.9	0.22	2.3	5.5	0.14	5	6.1
STD DS8	Standard	116	0.63	272	0.127	1	0.93	0.095	0.42	3.1	0.20	2.1	5.6	0.15	5	5.9
STD DS8	Standard	116	0.61	285	0.134	3	0.95	0.096	0.42	3.1	0.20	2.0	5.7	0.16	5	5.4
STD DS8	Standard	110	0.57	249	0.113	3	0.84	0.088	0.40	2.6	0.19	2.3	4.7	0.12	4	5.1
STD DS8	Standard	111	0.59	258	0.119	2	0.88	0.097	0.40	2.7	0.21	2.2	5.0	0.17	4	4.7
STD DS8	Standard	114	0.60	269	0.113	2	0.89	0.089	0.42	2.7	0.20	2.2	5.1	0.19	5	5.8
STD DS8	Standard	108	0.57	266	0.109	2	0.85	0.086	0.40	2.7	0.21	2.4	5.0	0.19	4	4.5
STD DS8	Standard	101	0.54	262	0.107	3	0.87	0.095	0.40	2.7	0.17	2.5	4.8	0.14	4	5.1
STD DS8	Standard	103	0.53	272	0.109	3	0.89	0.099	0.40	2.8	0.15	2.6	4.7	0.14	4	5.0
STD DS8	Standard	121	0.64	281	0.124	3	0.95	0.111	0.42	2.9	0.20	2.5	5.5	0.15	5	5.7
STD DS8	Standard	120	0.63	282	0.123	2	0.96	0.111	0.43	3.0	0.20	2.4	5.4	0.17	5	6.7
STD DS8	Standard	118	0.57	281	0.119	2	0.96	0.105	0.42	2.9	0.22	2.4	5.4	0.16	5	5.7
STD DS8	Standard	109	0.52	276	0.111	3	0.88	0.088	0.40	2.8	0.21	2.2	5.0	0.12	5	5.1



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Part 1

QUALITY CONTROL REPORT

WHI11000505.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	11.4	102.1	116.9	284	1.7	36.7	6.8	558	2.32	24.7	108.9	5.7	54	2.0	4.5	5.7	38	0.60	0.065	13
STD DS8	Standard	11.8	98.6	115.6	286	1.7	36.5	7.2	580	2.32	24.2	99.9	6.0	54	2.2	4.5	5.6	41	0.61	0.070	12
STD DS8	Standard	13.0	107.8	125.4	309	1.8	38.4	7.5	607	2.59	26.5	113.6	7.1	63	2.1	5.0	6.1	42	0.71	0.080	15
STD DS8	Standard	13.6	109.5	128.4	315	1.9	38.7	7.9	633	2.59	26.4	105.5	7.7	61	2.3	5.3	6.5	43	0.74	0.078	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Part 2

QUALITY CONTROL REPORT

WHI11000505.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	106	0.55	252	0.096	3	0.78	0.081	0.37	2.9	0.18	1.9	5.0	0.14	4	5.9	4.5
STD DS8	Standard	108	0.54	253	0.096	3	0.80	0.086	0.37	2.9	0.20	1.9	5.0	0.12	4	5.6	4.5
STD DS8	Standard	118	0.54	269	0.123	3	0.91	0.070	0.41	2.9	0.19	2.1	5.4	0.09	5	6.6	5.3
STD DS8	Standard	130	0.56	278	0.129	3	0.97	0.071	0.42	3.0	0.20	2.1	5.4	0.14	5	5.5	5.0
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Greg Dawson

Receiving Lab: Canada-Whitehorse

Received: June 29, 2011

Report Date: August 05, 2011

Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI11000355.1

CLIENT JOB INFORMATION

Project: Bolt
Shipment ID: BLT-2011-S-01
P.O. Number: NA-11-435
Number of Samples: 181

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Hugh Baker
Jack Cote
Andrew Caldwell
Gilles Dessureau

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	181	Dry at 60C			WHI
SS80	181	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	181	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Project:

Bolt

Report Date:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000355.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1178121	Soil	47.8	67.4	36.8	75	2.2	18.8	4.2	44	8.23	78.4	16.5	2.8	146	0.2	12.7	0.5	172	0.03	0.734
1178122	Soil	6.9	13.8	111.0	26	1.6	6.3	1.5	44	3.69	455.0	41.7	28.1	59	<0.1	12.6	0.5	11	0.01	0.063
1161451	Soil	1.9	200.2	80.9	196	1.8	81.4	23.2	771	3.25	53.8	6.8	2.8	81	1.5	2.8	0.2	38	1.26	0.137
1161452	Soil	0.9	53.9	9.9	83	0.1	135.4	26.8	643	5.22	22.1	2.5	1.9	5	0.3	6.6	0.1	95	0.16	0.051
1161453	Soil	2.0	62.2	10.5	95	0.1	36.5	31.1	783	4.51	14.4	4.3	1.7	13	0.2	1.3	0.2	89	0.25	0.098
1161454	Soil	2.0	29.2	9.3	87	<0.1	30.6	15.4	898	5.72	6.7	1.5	0.8	14	0.2	0.9	0.1	107	0.38	0.140
1161455	Soil	4.7	83.5	16.3	87	0.8	94.8	12.0	282	3.60	25.2	10.5	3.6	50	0.5	8.9	0.2	60	0.17	0.150
1161456	Soil	2.8	44.6	12.5	85	0.4	54.3	11.9	355	3.72	13.4	2.7	2.3	20	0.3	2.1	0.2	69	0.11	0.072
1161457	Soil	3.7	68.7	15.9	122	0.5	62.1	17.2	668	4.14	17.5	6.6	2.1	35	0.4	2.7	0.2	57	0.11	0.133
1161458	Soil	5.4	47.9	26.6	69	0.6	38.4	6.5	261	2.56	9.6	6.7	0.9	17	0.3	2.1	0.3	49	0.06	0.069
1161459	Soil	0.9	15.2	3.1	15	0.3	6.0	1.5	32	0.65	1.4	1.1	<0.1	7	<0.1	0.8	<0.1	16	0.03	0.033
1161460	Soil	2.8	78.6	18.8	88	0.9	37.6	11.6	733	3.12	13.9	3.1	0.6	24	0.2	1.9	0.3	28	0.06	0.106
1161461	Soil	4.1	86.7	23.4	128	0.5	72.1	18.7	1173	4.34	14.0	7.4	2.7	41	0.5	2.9	0.4	38	0.07	0.116
1161462	Soil	4.5	53.0	50.3	68	1.1	40.1	6.8	307	3.16	5.3	1.3	4.4	33	0.2	0.8	0.4	24	0.04	0.054
1161463	Soil	2.5	34.5	11.6	60	0.3	31.4	3.9	127	1.82	7.5	<0.5	0.6	9	<0.1	1.5	0.2	47	0.04	0.058
1161464	Soil	3.3	50.2	14.3	69	0.2	95.4	17.9	659	4.69	13.7	0.8	2.4	13	0.1	1.0	0.2	107	0.20	0.112
1160501	Soil	2.1	32.5	19.4	118	<0.1	58.6	27.1	1029	5.57	13.3	2.0	2.3	10	0.6	1.8	0.1	124	0.28	0.070
1160502	Soil	6.7	58.6	56.2	281	1.5	92.7	36.7	1285	8.38	588.7	4.2	3.1	41	1.8	34.8	0.3	61	0.64	0.103
1160503	Soil	8.9	84.3	75.9	226	0.8	79.2	22.9	1065	4.27	81.1	6.0	12.1	30	1.6	6.6	0.5	50	0.63	0.200
1160504	Soil	1.4	8.7	64.9	45	<0.1	19.8	5.6	180	2.14	10.4	0.5	7.4	15	0.4	0.9	0.2	30	0.22	0.020
1160505	Soil	1.0	8.1	21.2	41	0.2	16.8	5.5	231	2.13	7.3	<0.5	5.2	14	0.3	0.7	0.1	35	0.15	0.025
1160506	Soil	1.3	12.9	22.3	38	0.3	6.5	5.0	432	0.80	5.7	<0.5	1.7	44	0.4	0.6	<0.1	9	0.46	0.052
1160507	Soil	2.3	149.5	23.5	108	0.4	473.6	65.0	1863	7.95	75.1	29.9	2.2	17	0.4	3.9	0.1	155	0.76	0.065
1160508	Soil	1.1	81.3	9.0	100	<0.1	176.0	44.9	1412	6.62	13.8	2.8	1.5	12	0.3	3.0	<0.1	160	0.48	0.077
1160509	Soil	0.9	93.9	5.3	63	0.2	488.4	40.8	804	4.47	13.0	4.3	1.3	17	0.3	1.4	<0.1	101	0.83	0.058
1160510	Soil	2.4	90.4	21.0	83	<0.1	137.5	40.6	1296	6.13	14.0	1.7	2.1	14	0.3	1.5	0.1	174	0.34	0.070
1160511	Soil	0.4	148.1	7.1	74	0.1	279.0	57.5	2749	7.91	10.4	<0.5	0.8	14	0.4	1.3	<0.1	198	0.74	0.091
1160512	Soil	1.0	67.5	8.6	99	<0.1	82.1	36.9	1100	6.96	10.1	<0.5	1.6	9	0.3	2.0	0.1	201	0.55	0.063
1160513	Soil	0.7	85.6	5.4	74	0.1	33.7	28.8	1190	5.06	8.2	4.6	0.7	17	0.2	2.3	0.1	142	0.69	0.114
1160514	Soil	5.6	167.1	1026	863	1.3	15.7	8.6	350	3.22	67.8	3.0	5.0	31	8.3	7.5	0.8	41	0.30	0.057



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178121	Soil	22	0.04	72	0.009	<1	0.57	0.057	0.41	0.9	0.42	1.3	0.4	1.53	3	11.5	0.9
1178122	Soil	12	0.06	492	0.004	2	0.65	0.017	0.21	<0.1	0.14	0.5	1.0	0.43	2	1.8	<0.2
1161451	Soil	77	1.32	399	0.008	<1	2.21	0.017	0.07	<0.1	0.55	4.0	0.2	0.07	4	1.1	<0.2
1161452	Soil	227	1.29	50	0.014	<1	2.01	0.010	0.05	<0.1	0.12	5.9	<0.1	<0.05	6	<0.5	<0.2
1161453	Soil	30	0.67	126	0.147	3	2.06	0.011	0.06	0.3	0.10	2.9	<0.1	0.07	6	0.7	<0.2
1161454	Soil	43	0.94	130	0.213	<1	1.89	0.011	0.13	0.1	0.06	3.9	<0.1	<0.05	10	<0.5	<0.2
1161455	Soil	128	1.16	273	0.047	<1	1.58	0.010	0.11	0.1	0.12	2.4	0.1	0.14	4	3.8	<0.2
1161456	Soil	79	0.95	154	0.043	<1	1.77	0.008	0.09	0.1	0.05	2.5	0.1	<0.05	6	0.8	<0.2
1161457	Soil	66	0.97	221	0.021	<1	1.89	0.009	0.14	0.1	0.07	2.2	<0.1	<0.05	6	1.5	<0.2
1161458	Soil	46	0.30	156	0.030	<1	0.94	0.007	0.12	0.1	0.08	1.0	0.1	0.05	5	0.9	<0.2
1161459	Soil	9	0.04	41	0.013	<1	0.33	0.024	0.03	<0.1	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2
1161460	Soil	30	0.46	261	0.009	<1	1.50	0.017	0.14	0.1	0.12	0.7	<0.1	0.06	4	1.3	<0.2
1161461	Soil	39	0.50	290	0.020	<1	1.35	0.011	0.15	0.1	0.05	1.6	0.1	0.11	4	1.1	<0.2
1161462	Soil	33	0.96	188	0.018	<1	1.75	0.019	0.06	0.2	0.06	1.1	<0.1	0.07	5	<0.5	<0.2
1161463	Soil	37	0.25	133	0.012	1	1.05	0.009	0.04	<0.1	0.03	0.9	0.1	<0.05	6	<0.5	<0.2
1161464	Soil	122	1.63	62	0.129	<1	2.01	0.009	0.07	0.1	0.02	6.2	<0.1	<0.05	8	0.6	<0.2
1160501	Soil	92	1.38	92	0.212	1	2.41	0.012	0.06	0.2	0.09	4.0	<0.1	<0.05	8	<0.5	<0.2
1160502	Soil	153	1.48	197	0.020	1	2.12	0.006	0.13	<0.1	2.18	3.5	5.2	0.05	5	1.2	<0.2
1160503	Soil	56	1.36	323	0.017	<1	2.24	0.006	0.10	0.1	0.33	3.6	0.4	<0.05	4	2.1	<0.2
1160504	Soil	37	0.44	111	0.182	<1	1.43	0.006	0.05	0.7	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
1160505	Soil	35	0.43	233	0.104	<1	1.31	0.006	0.10	0.3	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1160506	Soil	7	0.08	471	0.010	<1	0.54	0.030	0.16	<0.1	0.04	0.6	<0.1	<0.05	1	<0.5	<0.2
1160507	Soil	431	3.81	124	0.064	4	3.32	0.006	0.07	0.1	0.16	15.0	<0.1	<0.05	8	1.0	<0.2
1160508	Soil	238	2.82	97	0.138	3	2.97	0.009	0.06	<0.1	0.29	10.4	<0.1	<0.05	9	<0.5	<0.2
1160509	Soil	534	4.29	70	0.084	1	3.35	0.015	0.05	<0.1	0.18	10.1	<0.1	<0.05	8	<0.5	<0.2
1160510	Soil	268	3.66	76	0.081	<1	3.98	0.010	0.06	<0.1	0.07	9.3	<0.1	<0.05	10	<0.5	<0.2
1160511	Soil	388	4.61	88	0.162	3	5.09	0.007	0.03	<0.1	0.18	19.4	<0.1	<0.05	11	<0.5	<0.2
1160512	Soil	113	1.66	155	0.254	2	2.96	0.007	0.05	<0.1	0.31	10.4	<0.1	<0.05	9	<0.5	<0.2
1160513	Soil	57	1.22	185	0.091	<1	2.52	0.016	0.04	<0.1	0.60	14.7	0.2	<0.05	7	<0.5	<0.2
1160514	Soil	24	0.37	1496	0.020	<1	1.70	0.009	0.10	0.3	0.12	1.5	1.4	<0.05	7	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161301	Soil	0.9	25.9	57.4	61	<0.1	30.5	13.8	455	2.50	13.8	0.6	7.4	15	0.4	1.5	0.2	46	0.27	0.029	17
1161302	Soil	2.1	21.2	37.4	51	0.2	26.0	12.6	789	2.96	18.1	2.2	0.6	11	0.2	2.1	0.3	61	0.14	0.099	16
1161305	Soil	1.8	30.9	9.7	56	0.1	28.4	11.1	681	3.21	6.7	<0.5	0.1	12	0.2	4.0	0.2	61	0.14	0.093	11
1161306	Soil	1.1	70.6	8.9	82	0.3	29.1	13.5	572	3.92	12.9	<0.5	1.2	19	0.2	1.8	0.1	56	0.21	0.043	9
1161307	Soil	2.0	45.9	12.9	92	0.3	50.9	18.1	724	4.57	23.4	0.9	3.1	12	0.3	6.6	0.2	81	0.16	0.054	18
1161308	Soil	3.9	40.6	15.2	95	0.5	92.4	26.6	1425	5.29	10.1	1.6	1.3	21	0.3	2.1	0.2	78	0.46	0.116	22
1161309	Soil	1.2	46.7	10.8	145	0.2	36.3	10.7	800	2.43	7.6	1.6	1.2	21	0.7	2.8	0.2	44	0.80	0.059	15
1161310	Soil	3.3	37.5	10.9	85	0.8	50.7	11.5	563	2.90	10.5	3.8	1.2	8	0.4	5.4	0.2	45	0.14	0.055	13
1161311	Soil	2.7	36.5	16.5	26	0.8	12.4	5.0	396	1.31	5.0	3.7	2.5	22	0.2	2.3	0.3	4	0.42	0.098	16
1161312	Soil	3.1	38.7	22.5	96	0.3	54.6	9.4	488	2.58	7.9	8.3	3.1	15	0.4	1.4	0.2	26	0.14	0.054	24
1161313	Soil	4.2	78.4	20.0	96	4.1	69.5	16.6	812	3.13	9.5	5.8	1.6	18	0.4	1.8	0.3	41	0.16	0.072	19
1161314	Soil	1.2	25.3	11.7	31	0.5	21.6	2.6	91	1.03	2.6	<0.5	0.4	11	0.3	1.0	0.2	24	0.08	0.031	14
1161315	Soil	2.1	31.6	11.8	76	0.3	82.2	9.5	345	3.12	10.2	3.5	3.3	15	0.2	1.6	0.2	42	0.06	0.061	15
1161316	Soil	2.4	27.8	19.3	81	0.3	44.7	8.1	253	3.13	13.4	3.5	5.6	27	0.3	1.9	0.2	43	0.09	0.052	20
1161317	Soil	17.2	85.3	27.2	71	4.3	29.2	5.3	146	4.30	41.6	25.3	7.5	59	0.4	9.7	0.3	76	0.08	0.153	20
1161318	Soil	2.7	26.0	16.5	72	0.3	35.1	7.0	351	3.51	14.8	1.6	4.0	20	0.2	2.7	0.2	62	0.09	0.067	18
1161319	Soil	4.0	93.6	17.6	135	0.3	95.2	21.7	529	4.21	17.0	5.5	6.2	26	0.5	4.3	0.3	41	0.03	0.066	20
1161320	Soil	1.7	14.7	14.3	43	0.7	8.9	2.7	130	1.07	3.4	<0.5	4.2	13	0.4	1.0	0.3	27	0.05	0.031	21
1161321	Soil	2.4	18.0	52.7	100	<0.1	11.8	4.0	233	2.03	26.3	3.0	4.0	19	0.8	5.5	0.4	28	0.16	0.032	24
1161322	Soil	3.8	27.5	60.6	144	0.5	26.0	5.9	181	2.81	41.8	<0.5	5.1	31	1.2	3.4	0.4	43	0.29	0.047	27
1161323	Soil	3.8	62.5	54.4	118	0.8	39.7	11.1	462	4.17	159.8	22.0	12.2	11	0.7	12.8	0.4	26	0.04	0.046	24
1161324	Soil	2.3	30.7	35.9	93	0.3	27.8	7.6	326	2.90	88.4	4.0	9.3	14	0.2	6.7	0.3	30	0.13	0.033	25
1161325	Soil	0.8	92.7	7.4	89	0.1	106.1	35.0	1257	5.73	11.6	4.0	1.6	15	0.2	2.6	0.2	137	0.59	0.090	10
1161326	Soil	1.3	74.0	17.4	107	0.6	223.1	32.9	973	4.00	28.5	2.9	2.3	35	0.4	3.8	0.1	85	1.25	0.121	59
1161327	Soil	1.0	58.2	7.8	84	0.1	125.8	23.5	693	4.49	5.8	0.8	1.4	11	0.5	0.9	0.1	110	0.34	0.068	7
1161328	Soil	1.2	76.6	11.8	70	0.2	152.0	24.9	718	3.41	9.9	2.5	1.5	28	0.2	1.4	0.1	73	1.14	0.077	13
1161329	Soil	1.0	237.3	697.7	305	1.3	31.5	6.7	376	1.56	10.8	2.7	1.6	121	4.4	2.5	0.2	14	1.86	0.120	47
1161330	Soil	3.2	23.9	22.4	97	0.3	35.6	11.5	352	2.43	81.5	4.7	5.9	30	1.3	5.4	0.2	16	0.34	0.033	27
1161331	Soil	2.2	14.7	55.0	63	0.3	5.9	1.6	95	0.76	14.3	1.1	0.3	6	0.4	2.4	0.2	13	0.05	0.024	30
1161332	Soil	4.2	46.4	165.0	171	0.6	13.7	3.9	156	2.29	43.6	<0.5	7.6	13	0.7	4.3	0.6	26	0.10	0.021	24



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161301	Soil	49	0.81	759	0.130	<1	1.81	0.009	0.07	0.4	0.04	2.0	0.1	<0.05	4	<0.5	<0.2
1161302	Soil	60	0.54	256	0.087	<1	1.24	0.008	0.08	0.1	0.08	0.9	0.1	<0.05	5	<0.5	<0.2
1161305	Soil	44	0.64	211	0.055	<1	1.45	0.011	0.08	<0.1	0.04	0.9	<0.1	<0.05	6	0.6	<0.2
1161306	Soil	32	0.94	407	0.056	1	2.12	0.007	0.09	0.2	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
1161307	Soil	56	1.06	555	0.062	<1	2.28	0.005	0.09	0.2	0.06	2.9	<0.1	<0.05	6	<0.5	<0.2
1161308	Soil	125	1.49	506	0.051	<1	2.46	0.006	0.15	0.1	0.04	3.3	<0.1	<0.05	8	<0.5	<0.2
1161309	Soil	43	0.77	574	0.014	3	1.48	0.012	0.08	<0.1	0.10	2.6	<0.1	0.25	5	0.8	<0.2
1161310	Soil	62	0.92	189	0.028	2	1.60	0.007	0.08	0.1	0.04	2.0	<0.1	0.21	5	<0.5	<0.2
1161311	Soil	7	0.13	787	<0.001	3	0.89	0.007	0.10	<0.1	0.31	1.3	0.1	0.18	2	2.1	<0.2
1161312	Soil	63	0.70	507	0.013	2	1.42	0.008	0.07	<0.1	0.04	1.5	<0.1	0.15	4	1.1	<0.2
1161313	Soil	79	0.47	688	0.016	1	1.40	0.010	0.07	0.1	0.13	1.8	<0.1	0.17	5	2.1	<0.2
1161314	Soil	33	0.27	338	0.024	2	0.75	0.013	0.05	<0.1	0.04	0.8	<0.1	0.18	4	0.6	<0.2
1161315	Soil	120	1.20	116	0.031	3	1.28	0.010	0.06	0.1	<0.01	1.8	<0.1	0.14	6	1.4	<0.2
1161316	Soil	89	0.96	375	0.025	5	1.49	0.005	0.08	0.2	0.02	1.7	<0.1	0.19	5	0.9	<0.2
1161317	Soil	61	0.41	268	0.025	1	1.90	0.006	0.10	0.2	0.32	2.6	0.2	0.18	6	7.6	0.3
1161318	Soil	58	0.71	337	0.043	2	1.61	0.004	0.08	0.1	0.01	2.0	<0.1	0.10	6	0.8	<0.2
1161319	Soil	75	0.84	602	0.005	2	2.07	0.009	0.07	<0.1	0.24	3.6	0.1	0.15	4	3.0	<0.2
1161320	Soil	13	0.12	196	0.019	1	0.82	0.004	0.06	0.1	0.01	0.9	<0.1	0.07	4	0.8	<0.2
1161321	Soil	14	0.32	176	0.020	2	0.76	0.006	0.10	0.2	0.03	0.9	0.2	0.07	5	0.6	<0.2
1161322	Soil	35	0.39	629	0.022	<1	1.26	0.005	0.10	0.3	0.03	1.7	0.2	0.08	6	0.7	<0.2
1161323	Soil	29	0.48	210	0.003	1	1.45	0.004	0.07	<0.1	0.25	2.4	0.4	0.06	3	2.1	<0.2
1161324	Soil	31	0.49	154	0.038	<1	1.07	0.005	0.10	0.2	0.07	1.6	0.2	<0.05	4	<0.5	<0.2
1161325	Soil	114	1.71	177	0.058	1	2.92	0.014	0.05	0.1	0.36	19.7	0.1	0.15	8	1.1	<0.2
1161326	Soil	245	2.11	144	0.008	4	2.68	0.018	0.08	0.1	0.50	9.3	<0.1	0.19	6	1.0	<0.2
1161327	Soil	200	2.14	105	0.123	2	2.73	0.008	0.07	<0.1	0.09	6.6	<0.1	0.12	8	<0.5	<0.2
1161328	Soil	161	1.90	140	0.054	5	1.87	0.014	0.05	<0.1	0.27	8.9	<0.1	0.14	5	1.0	<0.2
1161329	Soil	23	0.59	729	0.015	2	1.45	0.011	0.09	0.1	0.45	1.2	0.2	0.23	3	3.3	<0.2
1161330	Soil	24	0.69	191	0.002	1	1.03	0.005	0.09	<0.1	0.09	1.2	0.1	0.11	3	0.6	<0.2
1161331	Soil	7	0.08	135	0.005	1	0.66	0.009	0.14	0.1	0.02	0.2	0.1	0.06	3	<0.5	<0.2
1161332	Soil	23	0.55	206	0.036	1	1.15	0.010	0.11	0.2	0.07	1.2	0.2	0.07	5	0.6	<0.2



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1
1161333	Soil	2.6	13.6	44.3	62	0.3	10.7	3.3	161	2.89	45.3	<0.5	10.3	9	0.2	4.0	0.5	27	0.07	0.030	28
1161334	Soil	5.9	72.2	33.8	103	0.3	75.1	10.9	385	2.53	7.6	<0.5	0.6	15	0.3	2.9	0.3	24	0.18	0.069	16
1161335	Soil	0.2	5.4	1.6	7	<0.1	2.0	0.8	25	0.33	0.7	<0.5	<0.1	6	<0.1	0.3	<0.1	8	0.04	0.035	2
1161336	Soil	3.4	50.7	23.2	156	0.3	34.9	26.8	7947	2.26	3.0	<0.5	0.2	23	6.2	1.3	0.3	34	0.49	0.162	13
1161337	Soil	4.2	47.7	15.7	102	0.6	40.6	7.8	290	3.07	21.8	6.9	1.3	28	0.5	2.9	0.2	30	0.13	0.067	14
1161338	Soil	2.9	37.9	28.9	127	0.8	29.9	9.6	412	2.88	20.2	3.1	5.5	30	1.2	2.0	0.3	18	0.34	0.062	34
1161339	Soil	3.6	54.5	15.5	104	0.3	44.8	10.4	317	3.38	27.0	6.9	4.8	14	0.4	3.7	0.2	42	0.03	0.046	16
1161340	Soil	3.7	263.7	201.5	87	1.1	11.1	2.3	127	1.48	47.9	14.0	1.1	86	0.2	4.1	0.6	14	0.85	0.120	18
1161341	Soil	6.8	467.9	502.5	477	0.5	17.3	8.3	731	2.29	88.7	22.6	2.3	77	4.0	8.3	1.4	16	0.56	0.125	51
1161342	Soil	2.3	293.2	178.2	774	2.7	34.9	8.1	569	1.82	44.2	14.8	5.5	159	3.6	3.8	0.5	16	1.62	0.142	171
1161343	Soil	1.4	9.8	19.8	47	0.1	6.6	3.7	107	1.22	5.0	<0.5	2.6	55	0.4	0.6	0.2	11	0.13	0.032	8
1160651	Soil	2.0	10.0	27.2	49	0.2	18.6	6.0	234	2.51	9.1	1.4	3.6	8	0.3	1.0	0.2	38	0.09	0.032	14
1160652	Soil	1.3	9.5	17.1	43	0.2	16.0	5.2	215	2.42	6.8	0.7	3.3	7	0.3	0.8	0.2	42	0.08	0.049	11
1160653	Soil	2.1	12.3	24.5	45	0.3	17.4	6.6	209	2.20	7.7	1.3	4.1	7	0.3	1.0	0.2	35	0.08	0.023	12
1160654	Soil	34.2	54.0	600.3	85	9.1	5.8	2.0	65	1.72	238.1	19.1	4.0	21	0.7	15.1	0.7	18	0.05	0.037	25
1160655	Soil	3.3	36.7	29.2	54	2.3	20.8	4.9	107	3.40	225.2	11.1	2.3	14	0.9	28.7	0.3	29	0.02	0.050	8
1160656	Soil	3.6	56.0	21.5	99	0.2	48.0	15.7	2025	5.81	13.5	3.0	4.1	16	0.2	1.8	0.4	51	0.17	0.054	14
1160657	Soil	2.0	21.6	25.5	92	0.2	29.8	12.6	418	2.94	12.8	1.2	8.9	19	0.3	1.0	0.4	18	0.23	0.047	20
1160658	Soil	2.5	47.8	22.0	99	0.2	36.4	11.9	398	3.50	25.8	3.3	4.9	18	0.9	1.9	0.3	44	0.13	0.066	21
1160659	Soil	11.4	100.1	47.4	263	0.7	85.1	40.6	2559	5.52	13.4	1.7	0.6	23	2.4	4.1	0.3	49	0.10	0.161	14
1160660	Soil	1.6	23.0	12.4	114	0.7	28.3	16.5	3085	2.11	2.5	0.6	0.3	13	5.3	1.0	0.2	43	0.29	0.101	9
1160661	Soil	1.4	18.9	12.2	54	0.2	16.0	8.6	1130	1.42	2.5	0.9	0.1	8	1.5	0.8	0.2	33	0.11	0.059	7
1160662	Soil	2.4	44.1	12.9	127	0.8	40.5	13.6	646	3.23	8.9	2.0	0.6	13	2.3	3.7	0.2	57	0.09	0.107	15
1160663	Soil	1.4	35.6	7.8	77	0.2	30.7	12.6	356	2.95	8.2	4.1	3.0	13	0.3	1.9	0.1	60	0.21	0.060	11
1160664	Soil	1.1	16.6	8.1	65	0.3	20.5	9.3	433	3.75	4.2	0.8	0.7	10	0.5	1.5	0.1	92	0.18	0.111	4
1161352	Soil	1.2	23.4	19.7	49	0.2	35.9	12.3	417	2.78	6.3	1.5	2.2	10	0.3	0.8	0.3	65	0.24	0.072	12
1161353	Soil	1.0	30.8	15.7	47	0.2	37.8	14.3	537	2.82	7.9	0.7	2.8	11	0.2	0.8	<0.1	59	0.31	0.055	9
1161354	Soil	1.2	14.0	29.1	49	0.1	17.1	6.6	350	2.08	12.8	1.3	3.8	8	0.2	1.0	0.2	34	0.10	0.068	21
1161355	Soil	1.7	6.4	22.2	25	<0.1	6.0	2.0	112	1.42	75.9	1.2	13.3	4	<0.1	2.0	0.5	25	0.03	0.020	40
1161356	Soil	0.6	28.4	10.9	59	<0.1	44.7	15.5	446	3.31	3.8	<0.5	1.6	11	0.3	0.7	<0.1	91	0.28	0.061	7



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161333	Soil	20	0.28	231	0.021	<1	1.22	0.005	0.07	0.2	0.04	0.9	0.2	0.06	5	0.7	<0.2
1161334	Soil	48	0.47	317	0.009	1	0.92	0.011	0.06	0.1	0.05	0.8	<0.1	0.10	4	1.3	<0.2
1161335	Soil	3	0.04	31	0.008	<1	0.30	0.026	0.02	<0.1	0.01	0.1	<0.1	0.11	1	<0.5	<0.2
1161336	Soil	45	0.35	883	0.034	4	0.92	0.015	0.13	0.1	0.04	1.3	0.1	0.14	5	<0.5	<0.2
1161337	Soil	34	0.41	490	0.010	2	0.98	0.006	0.08	<0.1	0.04	1.3	<0.1	<0.05	3	1.1	<0.2
1161338	Soil	22	0.38	329	0.010	2	0.99	0.007	0.14	<0.1	0.08	1.9	<0.1	<0.05	3	3.8	<0.2
1161339	Soil	38	0.55	169	0.005	1	1.59	0.007	0.07	<0.1	0.02	2.3	<0.1	<0.05	5	1.0	<0.2
1161340	Soil	14	0.16	870	0.008	1	1.01	0.018	0.04	0.1	0.65	1.1	1.9	0.20	3	2.6	<0.2
1161341	Soil	17	0.34	468	0.019	2	1.43	0.025	0.08	0.2	1.14	2.2	2.0	0.16	4	2.9	0.2
1161342	Soil	26	0.41	1167	0.009	2	2.12	0.023	0.08	0.1	1.65	5.0	1.2	0.18	3	5.6	<0.2
1161343	Soil	9	0.06	188	0.023	<1	0.82	0.011	0.06	0.4	<0.01	0.9	0.1	<0.05	4	<0.5	<0.2
1160651	Soil	34	0.55	158	0.057	1	1.22	0.005	0.05	0.2	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
1160652	Soil	31	0.40	143	0.078	<1	1.00	0.005	0.05	0.2	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
1160653	Soil	30	0.52	224	0.028	<1	1.71	0.006	0.04	0.2	0.02	1.4	<0.1	<0.05	4	0.7	<0.2
1160654	Soil	8	0.09	449	0.009	<1	0.82	0.010	0.12	0.2	0.23	0.4	16.6	0.13	4	0.7	<0.2
1160655	Soil	25	0.21	128	0.005	<1	0.72	0.005	0.09	<0.1	0.15	0.8	0.5	0.10	3	1.5	<0.2
1160656	Soil	40	0.68	293	0.003	<1	1.59	0.007	0.08	<0.1	0.03	2.4	0.1	<0.05	5	1.4	0.4
1160657	Soil	23	0.54	360	0.002	1	1.25	0.004	0.13	<0.1	0.04	1.2	0.1	<0.05	4	0.6	<0.2
1160658	Soil	31	0.63	348	0.011	<1	1.28	0.005	0.13	<0.1	0.03	2.2	0.1	<0.05	5	0.9	<0.2
1160659	Soil	53	0.08	542	0.010	<1	0.83	0.007	0.08	0.2	0.04	1.3	0.1	0.06	4	1.7	0.2
1160660	Soil	47	0.42	417	0.050	1	0.94	0.007	0.10	<0.1	0.05	1.0	<0.1	<0.05	4	<0.5	<0.2
1160661	Soil	26	0.22	192	0.029	1	0.67	0.010	0.06	<0.1	0.05	0.4	<0.1	<0.05	4	<0.5	<0.2
1160662	Soil	48	0.47	320	0.031	<1	1.21	0.007	0.12	0.1	0.08	1.3	<0.1	0.08	5	0.6	<0.2
1160663	Soil	38	0.68	173	0.108	<1	1.41	0.006	0.04	0.2	0.04	2.2	<0.1	<0.05	5	0.9	<0.2
1160664	Soil	41	0.58	125	0.159	<1	1.32	0.009	0.10	0.2	0.12	1.7	<0.1	<0.05	6	<0.5	<0.2
1161352	Soil	70	0.91	179	0.163	1	1.56	0.005	0.08	0.1	0.04	2.1	<0.1	<0.05	5	<0.5	<0.2
1161353	Soil	73	1.01	188	0.180	1	1.75	0.009	0.06	0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
1161354	Soil	32	0.37	102	0.046	3	1.05	0.005	0.09	<0.1	0.04	1.0	<0.1	<0.05	3	<0.5	<0.2
1161355	Soil	12	0.11	59	0.024	<1	0.82	0.002	0.13	<0.1	<0.01	0.5	0.2	<0.05	3	<0.5	<0.2
1161356	Soil	95	1.15	127	0.259	1	1.84	0.005	0.05	<0.1	0.03	2.7	<0.1	<0.05	6	0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161357	Soil	0.6	28.9	17.8	49	<0.1	29.0	12.8	522	2.42	8.1	42.0	6.2	12	0.1	0.9	0.1	54	0.37	0.039	15
1161358	Soil	2.3	16.9	34.8	49	<0.1	19.5	7.8	243	1.87	29.7	1.7	10.9	9	0.2	1.1	0.2	37	0.21	0.030	28
1161359	Soil	5.6	29.5	28.0	89	0.2	22.6	29.6	1383	3.58	90.5	2.2	2.5	29	0.6	6.1	0.3	41	0.41	0.076	22
1161360	Soil	1.2	12.6	58.5	49	<0.1	13.8	7.1	333	1.53	80.0	2.5	19.7	5	0.2	4.3	0.4	13	0.04	0.019	46
1161361	Soil	1.3	14.6	31.5	50	0.2	16.1	5.4	280	1.93	77.1	3.0	8.7	9	0.2	2.0	0.3	22	0.07	0.033	32
1161362	Soil	2.5	14.9	35.9	50	0.2	14.0	5.6	322	1.48	67.5	5.8	11.6	10	0.3	2.5	0.3	15	0.10	0.026	47
1161363	Soil	2.0	6.4	25.3	31	<0.1	9.5	4.3	246	0.92	25.9	1.5	17.9	7	0.1	1.6	0.2	11	0.09	0.025	48
1161364	Soil	1.8	7.3	27.9	30	<0.1	9.0	5.3	304	1.00	29.9	2.9	15.2	9	<0.1	1.5	0.3	11	0.09	0.019	46
1161365	Soil	1.3	12.1	63.8	33	0.6	9.9	3.2	93	1.65	77.0	20.6	19.9	20	0.1	3.5	0.4	12	0.02	0.026	38
1161366	Soil	0.6	34.3	6.0	59	<0.1	36.8	18.9	536	3.16	4.5	1.4	3.1	12	0.2	1.1	<0.1	93	0.51	0.044	12
1161367	Soil	1.2	109.5	6.8	105	0.2	74.8	51.4	1947	7.33	16.9	9.5	2.6	16	0.2	2.9	<0.1	161	0.51	0.071	13
1161368	Soil	1.4	100.4	17.8	191	0.2	72.8	33.3	1100	5.86	20.9	4.3	2.2	11	0.4	4.3	0.2	126	0.25	0.091	29
1161369	Soil	1.1	100.7	13.8	382	0.2	77.2	46.2	1116	4.97	14.0	5.2	3.2	14	0.4	3.0	0.1	103	0.52	0.068	19
1161370	Soil	1.3	75.3	10.9	124	0.1	79.6	28.8	924	4.95	11.9	3.4	2.4	13	0.3	2.5	0.2	121	0.40	0.080	14
1161371	Soil	0.9	49.7	7.0	81	<0.1	53.9	19.6	611	3.71	7.0	2.9	1.6	12	0.2	1.7	<0.1	101	0.49	0.066	11
1161372	Soil	0.7	50.4	10.6	86	<0.1	106.5	29.1	676	4.15	10.4	6.4	2.8	8	0.3	2.2	<0.1	89	0.43	0.046	10
1161373	Soil	1.1	99.2	9.0	90	0.2	94.6	30.8	751	4.68	15.7	7.3	1.1	21	0.3	3.3	0.2	103	0.62	0.093	21
1161374	Soil	0.6	103.1	3.5	83	0.1	193.3	51.2	1566	6.63	19.0	7.9	0.7	13	0.2	3.5	<0.1	136	0.92	0.055	9
1161375	Soil	0.5	78.4	7.4	68	0.1	152.0	39.4	970	5.44	7.9	3.5	1.1	15	0.2	1.9	<0.1	132	0.59	0.035	7
1161376	Soil	1.8	22.9	21.8	53	0.2	35.0	9.8	300	3.46	15.4	1.2	4.8	10	0.2	1.2	0.2	58	0.19	0.055	17
1161377	Soil	4.8	105.2	40.6	119	0.2	70.3	28.0	1262	5.16	23.8	6.8	8.3	18	0.2	2.5	0.5	61	0.13	0.093	24
1161378	Soil	1.9	68.6	21.0	118	0.6	27.1	49.7	1527	11.25	14.1	3.3	2.9	9	0.3	2.4	0.1	236	0.10	0.123	11
1161379	Soil	7.1	77.0	21.9	170	0.6	31.8	9.2	179	3.17	20.4	8.3	1.7	41	0.2	6.6	0.4	23	0.03	0.082	9
1161380	Soil	2.1	46.2	18.4	136	0.2	41.3	15.0	598	3.59	16.1	5.5	3.1	19	0.6	1.5	0.3	46	0.20	0.052	20
1161381	Soil	3.7	86.4	12.8	103	5.3	61.0	12.2	1502	2.23	19.3	6.9	1.2	86	0.5	3.2	0.2	25	1.21	0.197	21
1161382	Soil	3.5	81.7	14.9	124	0.8	43.2	13.2	432	3.98	36.4	18.6	2.9	56	0.4	3.2	0.2	53	0.13	0.058	18
1161383	Soil	4.8	72.1	279.0	86	2.4	21.8	4.9	228	3.01	175.6	69.6	4.2	69	0.6	7.8	0.7	12	0.74	0.088	32
1161384	Soil	1.9	18.3	123.4	69	0.2	10.0	9.7	840	2.42	54.6	8.1	17.2	24	0.3	2.9	0.4	25	0.27	0.024	37
1161385	Soil	2.8	30.0	148.2	89	0.4	10.1	3.6	560	2.66	116.5	1.7	7.8	25	1.1	5.4	0.3	31	0.10	0.042	21
1161386	Soil	3.1	50.9	153.7	128	0.2	5.5	2.6	210	1.44	28.9	2.1	5.5	22	1.0	3.4	0.3	32	0.21	0.017	20



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161357	Soil	50	0.87	168	0.176	1	1.58	0.003	0.05	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
1161358	Soil	29	0.56	151	0.094	<1	1.17	0.004	0.04	0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1161359	Soil	35	0.84	381	0.020	<1	1.57	0.006	0.07	0.1	0.03	2.2	0.1	<0.05	5	0.7	<0.2
1161360	Soil	15	0.28	108	0.011	<1	1.05	0.003	0.16	<0.1	0.01	0.8	0.1	<0.05	2	<0.5	<0.2
1161361	Soil	18	0.35	137	0.017	<1	1.03	0.004	0.08	0.1	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
1161362	Soil	14	0.31	156	0.011	1	0.76	0.004	0.14	<0.1	0.04	1.0	<0.1	<0.05	2	<0.5	<0.2
1161363	Soil	11	0.22	169	0.014	<1	0.49	0.003	0.15	<0.1	0.02	0.6	<0.1	<0.05	1	<0.5	<0.2
1161364	Soil	11	0.23	182	0.014	<1	0.54	0.003	0.14	<0.1	0.03	0.7	<0.1	<0.05	1	<0.5	<0.2
1161365	Soil	13	0.14	205	0.012	<1	0.63	0.005	0.14	<0.1	0.07	0.6	0.1	0.19	1	1.0	<0.2
1161366	Soil	62	0.96	119	0.153	2	1.75	0.006	0.04	<0.1	0.10	5.9	<0.1	<0.05	6	<0.5	<0.2
1161367	Soil	72	1.35	141	0.045	1	2.20	0.006	0.04	<0.1	0.64	23.1	<0.1	<0.05	7	0.7	<0.2
1161368	Soil	73	1.19	160	0.037	1	2.42	0.005	0.06	0.1	0.17	15.9	0.1	<0.05	7	<0.5	<0.2
1161369	Soil	80	1.48	157	0.062	1	2.21	0.004	0.07	0.1	0.15	11.1	<0.1	<0.05	6	0.6	<0.2
1161370	Soil	119	1.51	163	0.107	2	2.52	0.005	0.06	0.1	0.08	8.8	<0.1	<0.05	7	<0.5	<0.2
1161371	Soil	82	1.13	145	0.119	2	2.08	0.007	0.05	<0.1	0.13	9.3	<0.1	<0.05	6	<0.5	<0.2
1161372	Soil	141	1.53	104	0.111	2	2.32	0.003	0.04	<0.1	0.06	4.9	<0.1	<0.05	6	<0.5	<0.2
1161373	Soil	129	1.46	164	0.024	<1	2.49	0.009	0.04	<0.1	0.22	14.0	<0.1	0.07	7	0.9	<0.2
1161374	Soil	251	3.48	96	0.008	<1	3.87	0.003	0.08	<0.1	0.96	20.3	<0.1	<0.05	9	1.4	<0.2
1161375	Soil	255	3.42	124	0.056	1	3.64	0.006	0.05	<0.1	0.14	8.5	<0.1	<0.05	8	0.7	<0.2
1161376	Soil	69	0.82	118	0.049	<1	1.84	0.004	0.04	0.2	0.04	2.2	0.1	<0.05	5	1.5	<0.2
1161377	Soil	77	1.18	338	0.020	<1	2.62	0.003	0.09	<0.1	0.11	3.5	0.1	<0.05	7	1.8	<0.2
1161378	Soil	22	1.36	148	0.003	1	3.68	0.003	0.03	<0.1	0.19	14.9	<0.1	<0.05	14	1.7	<0.2
1161379	Soil	10	0.02	181	0.004	1	0.44	0.005	0.12	<0.1	0.10	0.8	0.1	0.05	3	3.3	0.2
1161380	Soil	41	0.71	416	0.010	1	1.67	0.004	0.08	0.1	0.04	2.0	<0.1	<0.05	5	1.3	<0.2
1161381	Soil	50	0.38	1043	0.009	2	1.85	0.019	0.06	<0.1	0.65	2.8	0.1	0.16	3	6.2	<0.2
1161382	Soil	42	0.81	314	0.023	<1	1.99	0.004	0.11	0.2	0.11	2.4	0.1	0.05	5	2.2	<0.2
1161383	Soil	15	0.12	444	0.013	1	0.65	0.010	0.17	0.2	0.59	1.0	1.0	0.25	2	4.0	<0.2
1161384	Soil	22	0.63	338	0.043	<1	1.36	0.006	0.12	0.3	0.04	1.0	0.2	<0.05	5	1.5	<0.2
1161385	Soil	19	0.26	457	0.040	<1	0.90	0.011	0.17	0.2	0.05	0.9	0.3	0.19	4	0.9	<0.2
1161386	Soil	11	0.27	232	0.053	<1	0.60	0.008	0.11	0.3	0.02	0.6	0.4	<0.05	4	0.8	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161387	Soil	1.8	13.9	61.3	36	0.4	11.8	4.0	253	1.99	67.8	21.6	14.1	18	<0.1	3.3	0.4	13	0.05	0.057	43
1161388	Soil	2.1	13.0	54.1	37	0.7	12.5	3.9	140	2.56	85.2	11.4	21.3	17	0.1	2.7	0.5	24	0.04	0.032	43
1160601	Soil	3.0	74.1	14.5	128	0.3	91.0	13.3	431	3.99	19.0	4.5	3.3	14	0.3	1.6	0.3	63	0.06	0.049	17
1160602	Soil	0.1	2.5	1.3	4	0.6	1.1	0.4	11	0.19	<0.5	1.8	<0.1	5	<0.1	<0.1	<0.1	6	0.02	0.018	<1
1160603	Soil	2.6	28.8	12.6	51	0.8	38.6	4.9	205	2.02	12.6	17.0	3.1	17	0.2	1.4	0.2	41	0.09	0.040	18
1160604	Soil	2.5	27.9	19.3	78	0.8	26.4	8.3	489	3.85	24.4	4.1	4.2	16	0.7	2.5	0.3	54	0.06	0.079	18
1160605	Soil	3.1	37.1	188.1	47	0.3	13.4	3.7	122	2.15	76.2	4.6	1.1	11	<0.1	7.1	0.3	35	0.05	0.074	12
1160606	Soil	2.4	86.7	76.1	108	1.5	33.4	8.1	886	1.40	19.7	12.3	1.5	86	2.0	2.2	0.3	16	1.41	0.218	22
1160607	Soil	1.8	18.0	40.2	92	0.4	14.3	4.6	197	1.99	21.2	1.5	2.8	20	1.4	2.1	0.3	37	0.11	0.060	18
1160608	Soil	1.1	11.3	46.7	80	0.2	6.0	2.7	208	1.00	10.7	2.0	3.9	16	0.9	1.6	0.2	28	0.10	0.021	26
1160609	Soil	2.0	11.0	46.0	68	0.3	20.7	6.3	225	2.54	12.4	1.6	7.7	25	0.5	1.2	0.3	42	0.17	0.027	18
1160610	Soil	1.0	97.7	23.4	81	0.3	147.6	28.9	1931	4.73	30.3	11.1	1.0	54	0.7	13.2	<0.1	83	1.15	0.081	24
1160611	Soil	2.5	50.5	11.1	86	0.4	45.9	12.9	306	3.16	12.0	4.8	5.1	11	0.3	4.1	0.2	59	0.13	0.047	15
1160612	Soil	1.1	24.0	10.0	83	0.2	29.2	10.3	694	2.44	7.0	2.5	1.1	10	0.8	1.1	0.1	52	0.24	0.053	9
1160613	Soil	9.0	104.4	16.7	264	1.0	79.0	20.2	448	4.78	14.7	7.8	2.2	57	2.3	4.5	0.2	88	0.22	0.133	19
1160614	Soil	11.7	137.6	23.2	277	0.8	78.1	18.7	409	5.79	77.3	10.4	1.8	8	0.9	67.3	0.4	30	0.06	0.175	5
1160615	Soil	3.6	43.7	30.9	167	0.3	32.2	8.9	340	3.16	28.0	2.7	5.1	16	0.5	2.8	0.2	52	0.10	0.039	22
1160616	Soil	1.1	16.9	142.1	78	0.2	6.7	2.8	101	1.50	18.7	2.1	3.4	22	0.4	1.4	0.3	23	0.10	0.025	9
1160617	Soil	1.1	6.5	19.2	30	<0.1	5.1	1.9	59	0.86	5.2	<0.5	1.4	8	0.3	0.7	0.2	25	0.06	0.020	10
1160551	Soil	0.7	33.8	6.1	36	<0.1	23.9	7.8	277	1.63	3.5	2.9	1.3	14	0.1	0.6	0.1	42	0.34	0.064	9
1160552	Soil	1.5	44.9	9.1	58	<0.1	33.3	8.4	294	3.23	4.0	1.9	0.9	12	1.5	0.9	0.2	143	0.52	0.076	9
1160553	Soil	0.4	20.7	4.4	24	<0.1	19.7	5.2	166	1.19	1.6	1.4	0.2	7	0.3	0.4	<0.1	31	0.19	0.046	4
1160554	Soil	1.3	31.2	9.1	69	<0.1	48.9	19.0	828	4.30	4.3	0.7	1.3	12	1.1	1.0	0.2	131	0.49	0.067	7
1160555	Soil	1.0	37.9	9.8	83	<0.1	44.0	13.8	452	3.19	6.3	<0.5	1.5	11	0.2	0.8	0.2	77	0.43	0.051	12
1160556	Soil	1.0	26.4	9.0	56	<0.1	28.5	7.8	238	2.25	7.1	1.1	1.7	9	0.1	0.7	0.2	54	0.23	0.030	13
1160557	Soil	1.1	42.8	8.6	81	<0.1	68.1	26.9	892	4.00	5.3	1.3	0.8	13	0.3	0.9	0.2	84	0.86	0.104	8
1160558	Soil	1.2	19.4	10.4	96	<0.1	49.1	16.7	598	3.99	2.6	<0.5	1.4	12	1.0	0.8	0.3	93	0.49	0.090	9
1160559	Soil	1.0	22.0	9.4	88	<0.1	44.0	14.6	462	4.13	5.0	6.1	2.4	9	0.4	0.8	0.2	108	0.38	0.055	9
1160560	Soil	0.8	47.8	8.2	65	<0.1	51.7	13.7	397	2.65	5.5	0.8	5.3	18	<0.1	0.8	0.2	53	0.54	0.089	15
1160561	Soil	0.7	40.0	7.6	54	<0.1	42.4	12.2	400	2.20	4.2	1.1	5.1	16	0.1	0.6	0.1	47	0.45	0.069	14



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161387	Soil	16	0.14	167	0.012	1	0.81	0.004	0.13	0.1	0.10	0.7	0.2	0.15	2	1.1	<0.2
1161388	Soil	18	0.22	153	0.021	<1	1.26	0.003	0.14	0.2	0.03	1.0	0.2	0.10	3	1.2	<0.2
1160601	Soil	136	0.67	187	0.035	2	1.62	0.005	0.08	0.1	0.05	2.0	0.1	<0.05	6	2.2	<0.2
1160602	Soil	<1	<0.01	24	0.007	<1	0.10	0.020	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	0.6	<0.2
1160603	Soil	60	0.35	373	0.031	<1	0.95	0.007	0.07	0.1	0.01	1.1	<0.1	<0.05	5	0.7	<0.2
1160604	Soil	30	0.41	236	0.025	<1	1.32	0.005	0.08	0.2	0.04	1.7	0.1	<0.05	6	1.0	<0.2
1160605	Soil	19	0.14	387	0.029	<1	0.57	0.010	0.05	0.2	0.03	0.6	1.3	<0.05	4	0.8	<0.2
1160606	Soil	27	0.29	695	0.008	5	1.20	0.018	0.12	<0.1	0.69	1.6	0.2	0.18	2	5.6	<0.2
1160607	Soil	20	0.28	264	0.039	<1	0.87	0.007	0.08	0.2	0.02	1.0	0.4	<0.05	5	0.9	<0.2
1160608	Soil	10	0.23	355	0.034	<1	0.76	0.008	0.12	0.2	0.04	0.6	0.2	<0.05	4	<0.5	<0.2
1160609	Soil	36	0.68	253	0.164	1	1.39	0.005	0.08	0.5	0.01	1.5	0.2	<0.05	6	<0.5	<0.2
1160610	Soil	163	1.14	266	0.007	<1	1.84	0.015	0.05	<0.1	0.51	12.9	0.1	<0.05	4	1.9	<0.2
1160611	Soil	49	0.72	184	0.079	<1	1.62	0.005	0.07	0.3	0.07	2.6	<0.1	<0.05	5	1.2	<0.2
1160612	Soil	46	0.59	256	0.099	2	1.13	0.008	0.07	0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
1160613	Soil	47	0.90	559	0.008	<1	1.81	0.006	0.13	<0.1	0.07	3.8	0.1	0.08	6	2.5	<0.2
1160614	Soil	18	0.06	101	0.004	<1	0.35	0.005	0.05	<0.1	0.11	2.1	<0.1	<0.05	2	9.6	0.4
1160615	Soil	39	0.47	372	0.030	2	1.40	0.005	0.08	0.2	0.03	1.8	0.4	<0.05	5	1.0	<0.2
1160616	Soil	9	0.60	539	0.124	<1	1.02	0.012	0.06	0.6	0.01	0.8	0.6	<0.05	5	<0.5	<0.2
1160617	Soil	9	0.07	157	0.029	<1	0.62	0.008	0.05	0.2	0.05	0.5	<0.1	<0.05	4	0.6	<0.2
1160551	Soil	34	0.37	97	0.069	<1	1.16	0.018	0.05	0.1	0.05	2.0	<0.1	<0.05	4	0.7	<0.2
1160552	Soil	78	0.43	117	0.175	<1	1.43	0.006	0.05	0.1	0.07	4.0	<0.1	0.09	7	0.5	0.2
1160553	Soil	30	0.28	75	0.040	2	0.77	0.019	0.04	<0.1	0.05	1.3	<0.1	<0.05	3	<0.5	<0.2
1160554	Soil	118	0.92	186	0.233	<1	1.75	0.005	0.04	<0.1	0.03	4.2	<0.1	0.07	7	0.5	<0.2
1160555	Soil	72	0.85	131	0.072	<1	1.96	0.005	0.04	0.3	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
1160556	Soil	42	0.61	80	0.048	<1	1.41	0.006	0.04	0.3	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1160557	Soil	131	1.26	98	0.107	2	2.13	0.006	0.05	<0.1	0.02	6.7	<0.1	0.07	6	<0.5	<0.2
1160558	Soil	97	0.78	167	0.143	<1	1.61	0.006	0.11	0.1	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
1160559	Soil	91	0.74	194	0.164	1	1.93	0.006	0.04	0.2	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
1160560	Soil	56	1.01	129	0.084	1	1.71	0.007	0.04	0.2	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
1160561	Soil	55	0.87	146	0.111	<1	1.43	0.010	0.04	0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2



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Project:

Bolt

Report Date:

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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1160562	Soil				1.5	23.2	8.8	67	<0.1	49.8	14.6	522	5.65	6.9	1.5	2.7	6	0.3	1.1	0.2	141	0.33	0.112	6
1160563	Soil				0.6	83.5	6.0	86	<0.1	50.6	19.2	652	3.94	7.6	<0.5	0.6	16	0.3	1.4	0.1	117	0.51	0.060	8
1160564	Soil				0.6	33.9	4.3	54	<0.1	67.4	23.0	741	3.03	5.7	<0.5	0.6	7	0.2	2.2	<0.1	84	0.19	0.030	3
1160565	Soil				0.8	35.4	7.5	51	<0.1	29.3	9.2	281	2.75	5.8	<0.5	2.3	11	0.4	1.1	0.3	132	0.26	0.028	9
1160566	Soil				1.0	52.1	7.8	106	<0.1	96.5	35.6	1297	4.96	11.5	6.7	1.4	17	0.3	1.6	0.1	126	0.63	0.080	6
1160567	Soil				<0.1	21.5	14.5	61	<0.1	390.5	29.3	1148	4.20	1.4	<0.5	13.1	10	<0.1	<0.1	0.2	102	0.53	0.064	24
1160568	Soil				2.3	79.4	44.6	100	<0.1	65.4	24.9	1137	4.58	13.7	25.4	3.1	9	0.2	3.3	0.2	81	0.15	0.095	10
1160569	Soil				0.3	26.5	3.9	41	<0.1	913.0	77.3	792	3.90	3.0	<0.5	0.4	22	<0.1	0.3	<0.1	62	0.48	0.044	3
1160570	Soil				0.6	27.4	6.7	9	0.1	2.9	2.0	65	0.69	0.9	<0.5	0.4	18	0.6	0.2	<0.1	11	0.13	0.027	4
1160571	Soil				10.3	21.1	40.8	78	0.2	12.0	15.0	702	3.50	17.1	0.6	5.3	74	0.3	1.1	0.2	62	0.57	0.054	14
1160572	Soil				5.6	7.1	41.8	42	<0.1	9.6	5.6	232	1.58	5.6	<0.5	7.6	29	0.2	0.9	0.2	25	0.30	0.013	19
1160573	Soil				1.9	8.8	19.2	45	0.2	14.0	5.6	248	2.23	7.0	<0.5	5.5	10	0.2	0.7	0.2	43	0.10	0.022	16
1160574	Soil				0.6	14.8	94.1	116	0.2	7.7	6.0	219	1.05	8.4	<0.5	26.8	14	0.4	0.7	0.5	7	0.10	0.029	40
1160575	Soil				4.4	22.5	314.7	57	0.2	7.4	2.6	155	2.26	119.5	3.7	7.4	16	0.2	7.6	0.4	38	0.09	0.032	25
1160576	Soil				3.9	5.6	86.1	17	0.5	3.8	1.2	83	1.49	150.4	2.6	26.3	9	<0.1	6.8	0.5	10	0.01	0.032	59
1160577	Soil				3.5	58.3	22.0	115	0.3	56.2	15.5	497	3.96	23.9	11.9	6.5	8	0.5	3.3	0.3	45	0.05	0.034	18
1160578	Soil				14.2	122.1	41.5	84	1.5	45.3	7.0	1012	3.46	26.9	9.1	2.6	85	1.2	4.3	0.7	28	0.70	0.122	29
1160579	Soil				2.8	47.7	15.6	109	0.2	44.5	9.0	328	3.31	13.9	4.2	2.8	15	0.2	2.4	0.3	56	0.03	0.050	13
1160580	Soil				1.6	10.7	21.2	45	<0.1	15.2	6.4	280	3.09	7.9	0.7	5.9	10	0.4	0.9	0.2	59	0.12	0.034	9
1160581	Soil				2.4	24.9	26.7	59	0.3	23.8	10.2	386	2.61	7.4	3.1	1.8	23	0.3	1.0	0.2	42	0.31	0.054	24
1160582	Soil				1.5	11.7	19.3	37	0.2	11.5	5.6	208	1.90	3.7	<0.5	1.8	17	0.2	0.7	0.1	37	0.20	0.040	13
1160583	Soil				1.2	10.0	17.5	44	<0.1	9.5	3.8	285	2.04	5.0	0.8	2.4	12	0.1	0.7	0.2	32	0.14	0.082	12
1160584	Soil				1.5	12.3	19.8	53	0.1	14.0	5.2	235	3.37	8.9	<0.5	5.2	10	0.2	0.9	0.2	69	0.10	0.073	11
1160585	Soil				1.4	33.7	17.5	65	<0.1	46.7	21.9	704	3.40	7.7	1.7	5.6	13	0.2	0.8	0.1	62	0.37	0.062	13
1160586	Soil				1.5	11.9	25.4	68	0.2	19.6	8.6	275	3.00	8.7	<0.5	6.6	19	0.5	1.0	0.2	55	0.22	0.038	14
1160587	Soil				0.9	12.2	19.1	47	0.3	15.8	5.8	251	3.22	5.2	2.3	4.1	10	0.2	0.8	0.2	83	0.14	0.061	9
1160588	Soil				1.0	40.5	14.0	67	<0.1	48.4	19.6	507	3.35	6.5	2.8	5.1	13	0.2	0.8	0.1	70	0.35	0.045	12
1160589	Soil				0.8	7.1	15.6	61	0.2	11.2	4.2	182	2.34	5.7	1.9	7.2	22	0.3	0.9	0.2	33	0.17	0.047	15
1160590	Soil				1.0	14.1	14.2	68	0.1	22.3	8.5	298	3.11	5.8	1.0	4.8	14	0.4	0.8	0.2	70	0.18	0.059	12
1160591	Soil				1.1	19.7	11.9	70	0.2	41.0	15.1	487	4.45	7.2	2.8	3.1	9	0.4	0.8	0.1	90	0.21	0.065	7



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160562	Soil	126	0.92	67	0.356	2	2.33	0.009	0.05	0.2	0.07	3.4	<0.1	<0.05	8	0.5	<0.2
1160563	Soil	80	1.26	118	0.055	1	2.05	0.015	0.04	<0.1	0.58	7.1	<0.1	<0.05	7	<0.5	<0.2
1160564	Soil	90	1.24	54	0.096	1	1.07	0.011	0.04	<0.1	0.20	3.6	<0.1	<0.05	5	<0.5	<0.2
1160565	Soil	49	0.43	78	0.158	<1	0.93	0.012	0.03	0.1	0.20	3.4	<0.1	<0.05	7	<0.5	<0.2
1160566	Soil	122	1.90	110	0.084	2	1.93	0.009	0.05	<0.1	0.79	6.0	<0.1	<0.05	7	<0.5	<0.2
1160567	Soil	326	11.41	15	0.217	4	5.04	0.003	<0.01	<0.1	<0.01	3.3	<0.1	<0.05	13	<0.5	<0.2
1160568	Soil	93	0.75	153	0.103	1	1.55	0.008	0.08	0.2	0.03	2.4	<0.1	<0.05	6	1.4	<0.2
1160569	Soil	871	7.72	53	0.056	17	1.19	0.011	0.02	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
1160570	Soil	<1	0.05	62	0.026	<1	0.66	0.021	0.03	0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
1160571	Soil	20	0.80	1419	0.067	<1	1.84	0.007	0.12	0.5	0.04	3.2	0.1	<0.05	7	<0.5	<0.2
1160572	Soil	16	0.70	892	0.088	<1	1.31	0.006	0.07	0.5	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1160573	Soil	28	0.47	210	0.054	<1	1.34	0.005	0.06	0.2	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
1160574	Soil	11	0.44	629	0.016	<1	1.06	0.007	0.12	0.2	0.03	1.2	0.1	<0.05	2	<0.5	<0.2
1160575	Soil	18	0.44	234	0.074	<1	0.91	0.009	0.08	0.2	0.03	0.9	1.9	0.05	5	0.6	<0.2
1160576	Soil	7	0.07	108	0.010	<1	0.38	0.002	0.11	<0.1	<0.01	0.3	0.2	0.10	2	1.0	<0.2
1160577	Soil	54	0.71	271	0.017	<1	2.03	0.007	0.06	0.1	0.05	2.6	0.1	<0.05	5	2.3	<0.2
1160578	Soil	22	0.19	710	0.007	<1	0.77	0.006	0.07	<0.1	0.32	2.7	0.2	0.08	3	3.3	0.2
1160579	Soil	39	0.46	192	0.008	<1	1.53	0.005	0.06	<0.1	0.03	2.0	0.1	<0.05	6	1.3	<0.2
1160580	Soil	31	0.49	197	0.147	<1	1.42	0.006	0.08	0.2	<0.01	1.6	<0.1	<0.05	6	0.6	<0.2
1160581	Soil	37	0.72	469	0.068	<1	1.95	0.007	0.06	0.1	0.01	2.1	0.1	0.07	6	0.8	<0.2
1160582	Soil	23	0.51	382	0.098	<1	1.30	0.007	0.05	0.2	<0.01	1.3	<0.1	0.06	5	<0.5	<0.2
1160583	Soil	18	0.27	118	0.075	<1	1.11	0.005	0.03	0.2	<0.01	1.2	<0.1	<0.05	6	0.6	<0.2
1160584	Soil	28	0.38	84	0.125	<1	1.33	0.004	0.07	0.4	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
1160585	Soil	74	1.32	111	0.142	<1	2.12	0.005	0.04	<0.1	0.02	3.3	<0.1	<0.05	5	0.8	<0.2
1160586	Soil	35	0.68	229	0.104	<1	2.01	0.005	0.05	0.3	<0.01	2.4	<0.1	<0.05	7	0.8	<0.2
1160587	Soil	37	0.53	345	0.182	<1	1.47	0.005	0.03	0.2	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
1160588	Soil	81	1.32	194	0.177	<1	2.27	0.006	0.05	0.2	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
1160589	Soil	26	0.84	446	0.069	1	1.69	0.007	0.05	0.3	0.04	1.5	<0.1	<0.05	6	<0.5	<0.2
1160590	Soil	41	0.72	372	0.177	1	1.60	0.006	0.06	0.2	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
1160591	Soil	90	1.18	108	0.216	1	2.01	0.006	0.05	0.2	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1160592	Soil	1.6	23.8	21.9	80	0.3	23.8	11.3	845	2.92	6.4	<0.5	2.3	11	0.9	0.8	0.2	65	0.20	0.049



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1160592	Soil	55	0.70	223	0.127	<1	1.54	0.006	0.06	0.2	0.03	2.1	<0.1	<0.05	5	0.5	<0.2



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1161451	Soil	1.9	200.2	80.9	196	1.8	81.4	23.2	771	3.25	53.8	6.8	2.8	81	1.5	2.8	0.2	38	1.26	0.137	29
REP 1161451	QC	1.7	189.8	76.2	180	1.7	80.9	22.0	737	3.09	51.6	5.2	2.5	75	1.5	2.7	0.2	39	1.17	0.131	26
1160510	Soil	2.4	90.4	21.0	83	<0.1	137.5	40.6	1296	6.13	14.0	1.7	2.1	14	0.3	1.5	0.1	174	0.34	0.070	12
REP 1160510	QC	2.3	89.6	21.1	81	<0.1	137.0	40.2	1269	6.09	13.5	<0.5	2.1	14	0.2	1.4	0.1	172	0.35	0.071	12
1161316	Soil	2.4	27.8	19.3	81	0.3	44.7	8.1	253	3.13	13.4	3.5	5.6	27	0.3	1.9	0.2	43	0.09	0.052	20
REP 1161316	QC	2.3	27.0	18.3	74	0.3	43.0	7.8	220	2.88	12.0	21.4	5.4	27	0.3	1.8	0.2	39	0.09	0.050	20
1161340	Soil	3.7	263.7	201.5	87	1.1	11.1	2.3	127	1.48	47.9	14.0	1.1	86	0.2	4.1	0.6	14	0.85	0.120	18
REP 1161340	QC	3.6	248.6	209.1	87	1.0	11.6	2.6	127	1.43	45.7	9.4	1.1	84	0.3	4.0	0.5	16	0.80	0.138	17
1160660	Soil	1.6	23.0	12.4	114	0.7	28.3	16.5	3085	2.11	2.5	0.6	0.3	13	5.3	1.0	0.2	43	0.29	0.101	9
REP 1160660	QC	1.7	23.5	12.5	118	0.7	29.4	16.9	3292	2.19	2.6	<0.5	0.2	13	5.5	0.9	0.2	43	0.30	0.100	8
1161366	Soil	0.6	34.3	6.0	59	<0.1	36.8	18.9	536	3.16	4.5	1.4	3.1	12	0.2	1.1	<0.1	93	0.51	0.044	12
REP 1161366	QC	0.6	33.8	5.8	58	<0.1	36.6	18.3	520	3.13	4.2	1.9	3.0	12	0.2	1.2	<0.1	92	0.49	0.046	12
1160601	Soil	3.0	74.1	14.5	128	0.3	91.0	13.3	431	3.99	19.0	4.5	3.3	14	0.3	1.6	0.3	63	0.06	0.049	17
REP 1160601	QC	3.4	76.3	14.8	127	0.3	93.8	13.2	425	4.03	19.4	4.3	3.4	14	0.3	1.6	0.2	64	0.06	0.052	16
1160603	Soil	2.6	28.8	12.6	51	0.8	38.6	4.9	205	2.02	12.6	17.0	3.1	17	0.2	1.4	0.2	41	0.09	0.040	18
REP 1160603	QC	2.5	28.3	12.4	49	0.7	38.1	5.1	194	1.98	11.8	2.7	3.1	17	0.4	1.4	0.2	41	0.09	0.041	18
1160560	Soil	0.8	47.8	8.2	65	<0.1	51.7	13.7	397	2.65	5.5	0.8	5.3	18	<0.1	0.8	0.2	53	0.54	0.089	15
REP 1160560	QC	0.9	48.0	8.2	64	<0.1	52.0	13.6	399	2.63	5.9	1.6	5.1	17	0.1	0.8	0.2	53	0.54	0.084	15
1160581	Soil	2.4	24.9	26.7	59	0.3	23.8	10.2	386	2.61	7.4	3.1	1.8	23	0.3	1.0	0.2	42	0.31	0.054	24
REP 1160581	QC	2.3	23.8	26.4	57	0.3	21.5	10.1	376	2.57	7.3	<0.5	1.8	20	0.2	1.0	0.2	42	0.29	0.050	23
Reference Materials																					
STD DS8	Standard	14.4	102.3	120.5	302	1.8	37.5	7.7	610	2.35	27.9	113.6	6.7	63	2.3	5.6	6.4	44	0.69	0.080	15
STD DS8	Standard	12.6	105.6	119.2	311	1.8	39.0	7.8	605	2.41	28.6	117.4	6.5	66	2.6	5.5	6.2	43	0.69	0.083	15
STD DS8	Standard	12.5	99.1	117.1	302	1.7	35.2	7.4	579	2.36	26.4	114.1	6.4	63	2.3	5.4	6.2	42	0.66	0.078	14
STD DS8	Standard	13.2	101.1	118.4	306	1.8	36.4	7.5	595	2.34	26.7	108.5	6.4	62	2.2	5.3	6.2	42	0.68	0.075	15
STD DS8	Standard	13.4	114.7	124.1	319	1.8	41.6	7.9	623	2.62	27.6	109.7	6.1	61	2.3	5.3	6.2	45	0.67	0.084	13
STD DS8	Standard	14.9	123.1	132.8	344	1.8	42.9	8.2	662	2.79	30.2	116.3	6.9	69	2.5	6.2	6.7	48	0.72	0.094	14
STD DS8	Standard	12.1	107.6	126.3	300	1.8	36.5	7.4	582	2.33	25.7	102.0	6.6	62	2.6	5.7	6.8	41	0.63	0.077	12



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Project:

Bolt

Report Date:

August 05, 2011

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Part 2

QUALITY CONTROL REPORT

WHI11000355.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1161451	Soil	77	1.32	399	0.008	<1	2.21	0.017	0.07	<0.1	0.55	4.0	0.2	0.07	4	1.1	<0.2
REP 1161451	QC	74	1.31	376	0.008	1	2.17	0.016	0.06	<0.1	0.50	3.8	0.1	0.06	4	2.1	<0.2
1160510	Soil	268	3.66	76	0.081	<1	3.98	0.010	0.06	<0.1	0.07	9.3	<0.1	<0.05	10	<0.5	<0.2
REP 1160510	QC	263	3.63	77	0.085	<1	3.94	0.010	0.06	0.1	0.09	9.4	<0.1	<0.05	10	<0.5	<0.2
1161316	Soil	89	0.96	375	0.025	5	1.49	0.005	0.08	0.2	0.02	1.7	<0.1	0.19	5	0.9	<0.2
REP 1161316	QC	81	0.86	359	0.024	3	1.29	0.004	0.07	0.1	<0.01	1.6	<0.1	0.16	4	1.1	<0.2
1161340	Soil	14	0.16	870	0.008	1	1.01	0.018	0.04	0.1	0.65	1.1	1.9	0.20	3	2.6	<0.2
REP 1161340	QC	15	0.19	842	0.010	3	1.13	0.022	0.04	0.1	0.62	1.0	2.1	0.34	3	3.8	<0.2
1160660	Soil	47	0.42	417	0.050	1	0.94	0.007	0.10	<0.1	0.05	1.0	<0.1	<0.05	4	<0.5	<0.2
REP 1160660	QC	47	0.42	418	0.049	1	0.91	0.007	0.10	<0.1	0.06	0.9	<0.1	<0.05	4	<0.5	<0.2
1161366	Soil	62	0.96	119	0.153	2	1.75	0.006	0.04	<0.1	0.10	5.9	<0.1	<0.05	6	<0.5	<0.2
REP 1161366	QC	60	0.96	118	0.150	2	1.72	0.006	0.04	<0.1	0.15	5.6	<0.1	<0.05	5	<0.5	<0.2
1160601	Soil	136	0.67	187	0.035	2	1.62	0.005	0.08	0.1	0.05	2.0	0.1	<0.05	6	2.2	<0.2
REP 1160601	QC	132	0.70	186	0.034	<1	1.73	0.006	0.08	0.1	0.03	2.1	<0.1	0.05	6	1.6	<0.2
1160603	Soil	60	0.35	373	0.031	<1	0.95	0.007	0.07	0.1	0.01	1.1	<0.1	<0.05	5	0.7	<0.2
REP 1160603	QC	57	0.34	368	0.031	<1	0.95	0.007	0.06	0.2	0.02	1.2	<0.1	<0.05	5	1.0	<0.2
1160560	Soil	56	1.01	129	0.084	1	1.71	0.007	0.04	0.2	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
REP 1160560	QC	55	0.96	128	0.085	1	1.63	0.007	0.04	0.2	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
1160581	Soil	37	0.72	469	0.068	<1	1.95	0.007	0.06	0.1	0.01	2.1	0.1	0.07	6	0.8	<0.2
REP 1160581	QC	35	0.69	462	0.067	1	1.81	0.006	0.05	0.2	0.02	2.1	<0.1	<0.05	5	0.7	<0.2
Reference Materials																	
STD DS8	Standard	115	0.59	283	0.109	2	0.84	0.087	0.43	3.0	0.21	1.9	5.1	0.14	5	5.6	5.1
STD DS8	Standard	116	0.61	295	0.102	2	0.90	0.087	0.46	3.0	0.21	1.8	5.3	0.14	5	5.0	4.7
STD DS8	Standard	112	0.59	279	0.113	2	0.88	0.090	0.41	2.9	0.19	2.1	5.0	0.16	5	4.6	4.9
STD DS8	Standard	118	0.59	284	0.115	<1	0.87	0.086	0.42	2.9	0.21	1.9	5.1	0.14	5	5.3	4.8
STD DS8	Standard	122	0.63	274	0.125	2	0.92	0.089	0.43	3.1	0.20	1.9	5.2	0.15	4	5.0	4.7
STD DS8	Standard	132	0.68	308	0.129	2	0.99	0.097	0.46	3.4	0.22	2.1	5.5	0.15	5	5.7	5.0
STD DS8	Standard	113	0.58	257	0.107	3	0.84	0.084	0.40	2.8	0.19	1.7	5.1	0.16	4	5.2	4.6



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Project:

Bolt

Report Date:

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Part 1

QUALITY CONTROL REPORT

WHI11000355.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	12.7	112.1	126.1	309	1.8	37.4	7.6	598	2.36	26.3	108.3	6.8	64	2.2	5.8	6.7	42	0.65	0.080	13
STD DS8	Standard	12.3	107.7	129.7	317	1.7	35.1	6.9	573	2.27	24.7	108.8	7.0	61	2.3	6.0	6.6	35	0.66	0.086	14
STD DS8	Standard	12.9	110.5	118.6	325	1.7	37.2	7.2	618	2.39	25.8	101.3	6.8	66	2.0	5.7	6.4	39	0.69	0.079	14
STD DS8	Standard	13.5	117.8	130.9	318	1.9	39.1	7.3	609	2.41	26.8	108.4	7.0	67	2.4	5.7	6.2	44	0.69	0.079	15
STD DS8	Standard	13.5	112.1	128.9	318	1.8	36.8	7.5	624	2.43	27.0	106.1	7.0	68	2.4	5.7	5.9	44	0.72	0.085	15
STD DS8	Standard	13.3	106.3	129.2	309	1.7	37.5	7.0	592	2.28	25.1	102.8	7.3	67	1.9	5.1	6.6	39	0.64	0.078	14
STD DS8	Standard	13.0	109.2	125.9	309	1.8	38.0	7.4	636	2.44	25.1	113.7	7.4	66	2.1	5.5	6.6	41	0.68	0.075	15
STD DS8	Standard	12.8	105.9	117.5	293	1.7	37.2	7.1	596	2.38	24.9	111.6	6.1	62	2.1	5.0	6.1	41	0.64	0.069	14
STD DS8	Standard	14.3	110.7	122.0	306	1.8	38.8	7.6	610	2.43	24.8	112.3	6.6	65	2.3	5.2	6.3	44	0.68	0.076	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Part 2

QUALITY CONTROL REPORT

WHI11000355.1

		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
STD DS8	Standard	115	0.60	273	0.112	2	0.86	0.083	0.42	2.9	0.19	2.0	5.0	0.16	4	5.0	4.8
STD DS8	Standard	106	0.63	261	0.102	4	0.91	0.091	0.39	2.6	0.21	2.0	5.5	0.34	5	4.5	4.5
STD DS8	Standard	114	0.56	260	0.112	3	0.87	0.089	0.40	2.5	0.20	2.3	5.0	0.24	5	5.9	4.8
STD DS8	Standard	116	0.62	284	0.119	3	0.91	0.094	0.41	3.3	0.18	1.8	5.5	0.14	5	7.1	5.2
STD DS8	Standard	116	0.62	282	0.119	2	0.88	0.092	0.42	3.2	0.21	2.0	5.5	0.17	5	6.1	4.9
STD DS8	Standard	109	0.60	265	0.104	3	0.86	0.105	0.41	2.9	0.18	2.1	5.6	0.14	5	5.4	4.5
STD DS8	Standard	117	0.62	264	0.112	3	0.87	0.094	0.42	2.8	0.18	2.1	5.5	0.14	5	4.9	5.2
STD DS8	Standard	116	0.59	263	0.111	2	0.87	0.081	0.39	2.8	0.20	1.8	5.2	0.10	4	4.9	5.1
STD DS8	Standard	122	0.60	282	0.117	2	0.89	0.085	0.41	3.1	0.21	1.8	5.2	0.16	5	5.5	5.3
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Greg Dawson
Receiving Lab: Canada-Whitehorse
Received: June 29, 2011
Report Date: August 05, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000354.1

CLIENT JOB INFORMATION

Project: Bolt
Shipment ID: BLT-2011-S-01
P.O. Number: NA-11-435
Number of Samples: 320

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Jack Cote
Hugh Baker
Andrew Caldwell
Gilles Dessureau

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	319	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Low internal standard for sample 1178016 , but insufficient sample to recheck



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:

Bolt

Report Date:

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CERTIFICATE OF ANALYSIS

WHI11000354.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1178001	Soil																							
1178002	Soil																							
1178003	Soil																							
1178004	Soil																							
1178005	Soil																							
1178006	Soil																							
1178007	Soil																							
1178008	Soil																							
1178009	Soil																							
1178010	Soil																							
1178011	Soil																							
1178012	Soil																							
1178013	Soil																							
1178014	Soil																							
1178015	Soil																							
1178016	Soil																							
1178017	Soil																							
1178018	Soil																							
1178019	Soil																							
1178020	Soil																							
1178021	Soil																							
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1178027	Soil																							
1178028	Soil																							
1178029	Soil																							
1178030	Soil																							



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178001	Soil	27	0.71	219	0.047	1	1.25	0.007	0.05	<0.1	0.08	2.1	<0.1	0.10	4	<0.5	<0.2
1178002	Soil	39	0.56	461	0.034	2	1.33	0.011	0.07	0.1	0.06	2.8	<0.1	0.13	4	1.3	<0.2
1178003	Soil	63	1.09	239	0.152	<1	1.97	0.006	0.05	0.1	0.02	3.1	<0.1	<0.05	6	0.6	<0.2
1178004	Soil	45	0.61	146	0.146	1	1.65	0.006	0.05	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
1178005	Soil	13	0.12	458	0.006	<1	1.13	0.018	0.10	0.1	0.21	1.0	0.2	0.12	3	0.9	<0.2
1178006	Soil	69	1.28	316	0.235	1	2.01	0.006	0.05	0.1	0.01	3.5	<0.1	<0.05	6	0.6	<0.2
1178007	Soil	12	0.22	378	0.036	1	1.14	0.014	0.05	0.1	0.02	1.6	<0.1	0.08	4	0.6	<0.2
1178008	Soil	74	1.08	91	0.270	<1	2.18	0.006	0.04	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
1178009	Soil	77	1.25	224	0.304	2	2.06	0.006	0.06	<0.1	0.01	3.1	<0.1	<0.05	7	<0.5	<0.2
1178010	Soil	35	0.90	368	0.211	1	1.62	0.006	0.05	0.4	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
1178011	Soil	28	0.89	405	0.188	<1	1.35	0.006	0.03	0.3	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
1178012	Soil	16	0.50	188	0.079	<1	0.99	0.013	0.06	0.2	0.02	1.0	<0.1	0.05	4	0.6	<0.2
1178013	Soil	14	0.08	114	0.035	<1	0.72	0.006	0.06	<0.1	0.02	0.7	<0.1	<0.05	3	<0.5	<0.2
1178014	Soil	19	0.35	185	0.028	1	0.96	0.006	0.10	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
1178015	Soil	31	0.64	204	0.074	1	1.44	0.009	0.07	0.2	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1178016	Soil	26	0.51	227	0.054	1	1.14	0.007	0.13	0.3	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2
1178017	Soil	24	0.86	156	0.012	<1	1.60	0.006	0.14	0.1	0.01	1.4	0.2	<0.05	5	1.0	<0.2
1178018	Soil	9	0.20	379	0.001	1	0.86	0.013	0.24	<0.1	0.12	1.2	0.1	0.08	2	<0.5	<0.2
1178019	Soil	25	0.33	148	0.016	<1	1.20	0.014	0.15	<0.1	0.03	1.0	<0.1	0.24	5	1.5	<0.2
1178020	Soil	75	1.95	623	0.004	1	3.15	0.007	0.10	<0.1	0.04	2.3	<0.1	<0.05	8	0.6	<0.2
1178021	Soil	51	0.48	457	0.003	<1	1.60	0.013	0.27	0.3	0.47	2.0	0.5	0.51	6	6.9	0.4
1178022	Soil	26	0.48	83	0.152	1	1.43	0.010	0.06	0.1	0.02	1.8	<0.1	0.10	5	0.7	<0.2
1178023	Soil	27	0.49	99	0.164	2	1.50	0.009	0.06	0.2	0.06	2.1	<0.1	0.08	6	0.5	<0.2
1178024	Soil	289	3.50	183	0.139	2	2.96	0.006	0.10	0.1	0.03	8.6	<0.1	<0.05	9	<0.5	<0.2
1178025	Soil	80	0.97	415	0.093	1	1.67	0.016	0.15	0.2	0.13	3.5	<0.1	0.24	6	5.7	<0.2
1178026	Soil	85	1.18	491	0.017	1	1.95	0.008	0.12	<0.1	0.09	1.8	<0.1	0.12	7	0.9	<0.2
1178027	Soil	95	1.40	424	0.021	1	2.13	0.010	0.10	<0.1	0.06	2.6	0.1	0.08	6	0.7	<0.2
1178028	Soil	63	0.79	218	0.026	<1	1.62	0.006	0.09	0.1	0.04	2.5	<0.1	0.05	5	0.9	<0.2
1178029	Soil	31	0.34	123	0.022	<1	0.84	0.011	0.08	<0.1	0.02	0.8	<0.1	0.06	5	0.6	<0.2
1178030	Soil	6	0.07	39	0.015	<1	0.35	0.011	0.03	<0.1	0.01	0.3	<0.1	<0.05	3	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1178031	Soil	0.8	22.1	7.5	28	0.6	96.9	42.0	868	1.04	2.3	0.7	0.5	19	0.3	0.6	<0.1	17	0.32	0.042	13
1178032	Soil	4.0	71.9	18.0	112	1.1	55.6	5.8	200	3.12	7.9	10.4	1.6	52	0.3	1.9	0.2	63	0.06	0.085	23
1178033	Soil	4.7	54.7	15.9	112	0.8	35.6	6.5	194	3.52	18.1	5.0	3.8	35	0.5	1.8	0.2	60	0.06	0.095	20
1178034	Soil	8.1	85.8	16.1	246	1.3	56.1	6.1	222	4.11	13.6	3.9	4.0	39	0.4	2.6	0.2	98	0.11	0.156	26
1178035	Soil	5.6	50.7	28.2	52	0.7	17.5	2.3	79	2.38	11.0	2.4	1.8	22	0.2	1.9	0.3	54	0.04	0.064	26
1178036	Soil	4.0	36.0	14.7	52	0.6	72.2	6.1	181	2.79	5.3	1.3	0.2	14	0.1	2.1	0.2	47	0.04	0.058	16
1178037	Soil	1.3	25.4	11.2	32	0.3	11.9	2.4	105	0.97	4.2	3.2	0.1	11	0.3	1.3	0.2	17	0.04	0.048	9
1178038	Soil	2.8	65.7	14.3	90	0.6	32.7	7.5	285	2.60	17.2	8.2	2.2	25	0.3	3.4	0.2	23	0.05	0.064	21
1178039	Soil	4.3	90.7	21.3	137	0.8	48.6	8.1	237	3.78	21.8	8.2	2.0	35	0.3	4.4	0.3	31	0.04	0.096	20
1178040	Soil	2.4	53.5	13.9	92	0.3	50.2	10.6	493	2.90	20.2	10.5	6.0	24	0.5	3.0	0.3	36	0.09	0.069	21
1178041	Soil	2.3	34.1	12.1	89	0.5	152.1	13.6	318	3.08	43.7	4.3	3.7	19	0.2	3.0	0.2	61	0.13	0.058	15
1178042	Soil	1.0	60.0	9.0	68	0.1	59.1	19.1	446	3.12	6.2	2.8	4.2	20	0.2	1.2	0.2	73	0.61	0.077	15
1178043	Soil	0.2	8.3	1.8	11	<0.1	3.0	2.2	62	0.73	<0.5	<0.5	0.1	13	<0.1	0.1	<0.1	24	0.24	0.056	2
1178044	Soil	0.9	60.9	9.8	76	<0.1	69.1	20.6	430	3.60	7.1	1.9	4.7	19	0.2	1.1	0.2	67	0.59	0.060	14
1178045	Soil	0.7	58.0	9.6	72	<0.1	46.0	14.4	432	2.40	5.6	2.9	5.0	24	0.2	1.4	0.2	57	0.50	0.094	17
1178046	Soil	1.0	44.1	8.9	109	0.1	51.8	11.8	447	2.94	2.8	1.0	0.7	21	2.6	1.6	0.2	95	0.82	0.070	8
1178047	Soil	1.7	26.3	12.6	72	<0.1	46.5	13.9	358	4.88	8.9	2.9	3.4	10	0.5	5.2	0.2	115	0.45	0.049	10
1178048	Soil	0.6	36.6	5.1	20	0.1	16.1	3.9	136	1.12	1.4	<0.5	<0.1	14	<0.1	1.7	<0.1	28	0.50	0.104	7
1178049	Soil	1.7	20.4	10.2	79	<0.1	32.2	12.4	471	4.45	7.8	2.4	4.0	10	0.3	1.0	0.2	117	0.38	0.058	13
1178050	Soil	1.1	19.9	9.6	53	<0.1	29.4	10.3	465	2.32	1.6	<0.5	1.1	9	0.9	0.8	0.2	108	0.81	0.068	7
1161101	Soil	2.4	26.1	17.9	69	0.3	53.3	9.2	317	3.06	22.4	1.1	3.9	12	0.2	1.4	0.2	60	0.17	0.042	19
1161102	Soil	3.9	41.2	18.9	74	0.6	57.9	8.3	189	3.55	29.9	3.3	1.8	22	0.2	2.5	0.3	48	0.06	0.067	16
1161103	Soil	1.2	54.4	13.9	57	0.8	39.8	6.8	291	1.31	2.9	<0.5	0.9	30	0.9	0.7	0.2	22	0.16	0.032	10
1161104	Soil	2.3	37.9	100.1	146	0.6	30.5	7.6	356	2.82	32.8	2.3	1.9	62	0.5	4.5	0.3	36	0.56	0.066	16
1161105	Soil	1.4	13.9	14.5	48	0.6	14.4	3.1	147	1.08	3.1	0.8	1.6	10	0.3	0.7	0.2	27	0.06	0.027	16
1161106	Soil	0.9	30.1	14.3	80	0.1	88.2	23.4	579	4.98	12.3	<0.5	2.2	9	0.4	1.7	<0.1	117	0.38	0.029	11
1161107	Soil	1.7	23.3	53.7	104	0.1	49.7	18.2	797	3.76	20.6	1.0	6.0	11	0.7	2.5	0.3	74	0.21	0.031	19
1161108	Soil	1.6	48.7	62.9	120	0.1	77.5	14.5	422	3.00	17.7	6.3	4.9	22	0.4	2.4	0.2	50	0.45	0.088	22
1161109	Soil	1.3	32.3	19.6	67	<0.1	99.0	22.6	619	4.61	14.2	0.6	4.0	10	0.3	2.2	0.2	107	0.40	0.023	17
1161110	Soil	1.2	51.1	16.0	107	<0.1	119.2	31.8	962	5.86	15.6	1.2	2.4	10	0.6	2.5	0.1	122	0.38	0.084	9



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178031	Soil	62	0.36	392	0.014	<1	0.89	0.024	0.04	<0.1	0.07	1.2	<0.1	<0.05	3	<0.5	<0.2
1178032	Soil	103	0.87	752	0.012	1	1.45	0.013	0.19	0.1	0.05	1.5	0.1	0.27	6	1.8	<0.2
1178033	Soil	41	0.46	218	0.017	1	1.24	0.010	0.13	0.2	0.04	1.6	0.1	0.15	5	1.6	<0.2
1178034	Soil	54	0.66	466	0.007	<1	1.62	0.008	0.14	0.1	0.14	2.3	<0.1	0.15	6	4.6	0.3
1178035	Soil	33	0.20	229	0.015	<1	0.87	0.008	0.14	0.1	0.03	1.2	0.1	0.15	7	3.0	0.2
1178036	Soil	133	0.60	150	0.005	<1	0.94	0.009	0.08	0.1	0.03	0.3	<0.1	0.13	6	1.3	<0.2
1178037	Soil	13	0.10	185	0.009	<1	0.58	0.016	0.06	<0.1	0.04	0.2	<0.1	0.07	3	0.5	<0.2
1178038	Soil	27	0.32	228	0.013	<1	0.97	0.008	0.09	0.1	0.08	1.1	<0.1	0.12	3	1.5	<0.2
1178039	Soil	33	0.34	250	0.014	<1	1.15	0.007	0.11	0.1	0.07	1.2	<0.1	0.15	4	2.4	<0.2
1178040	Soil	51	0.55	208	0.028	<1	1.41	0.004	0.09	0.2	0.06	2.0	0.1	0.06	4	1.4	<0.2
1178041	Soil	221	0.88	218	0.056	2	1.46	0.006	0.06	0.2	0.12	2.7	0.1	<0.05	5	0.9	<0.2
1178042	Soil	78	1.02	203	0.116	2	2.01	0.008	0.06	0.2	0.06	9.3	<0.1	<0.05	5	0.7	<0.2
1178043	Soil	4	0.06	31	0.039	<1	0.33	0.036	0.02	<0.1	0.02	0.6	<0.1	0.06	2	<0.5	<0.2
1178044	Soil	100	1.16	237	0.151	1	2.17	0.008	0.06	0.1	0.04	7.5	<0.1	<0.05	6	0.6	<0.2
1178045	Soil	60	0.98	243	0.105	1	1.74	0.009	0.05	0.2	0.03	6.2	<0.1	<0.05	5	0.5	<0.2
1178046	Soil	83	0.54	206	0.158	2	1.51	0.021	0.07	<0.1	0.07	3.9	<0.1	0.15	6	0.9	<0.2
1178047	Soil	96	0.86	80	0.313	2	2.36	0.007	0.06	0.2	0.05	4.3	<0.1	<0.05	7	0.8	<0.2
1178048	Soil	27	0.30	74	0.031	<1	1.06	0.025	0.04	<0.1	0.06	2.6	<0.1	0.15	2	1.4	<0.2
1178049	Soil	82	0.59	111	0.169	1	2.01	0.007	0.05	0.3	0.05	3.8	<0.1	<0.05	6	0.8	<0.2
1178050	Soil	80	0.51	155	0.223	1	1.80	0.008	0.06	<0.1	0.07	4.0	<0.1	0.13	7	<0.5	<0.2
1161101	Soil	86	1.00	193	0.041	<1	2.01	0.006	0.08	0.1	0.04	2.9	0.1	<0.05	6	0.8	<0.2
1161102	Soil	88	0.63	216	0.024	<1	1.28	0.009	0.08	<0.1	0.04	1.3	<0.1	0.05	5	2.0	<0.2
1161103	Soil	41	0.31	274	0.021	<1	0.67	0.018	0.07	<0.1	0.03	1.1	<0.1	<0.05	3	0.7	<0.2
1161104	Soil	38	0.69	497	0.024	<1	1.19	0.013	0.09	0.2	0.09	1.5	0.1	0.07	5	1.1	<0.2
1161105	Soil	23	0.25	160	0.020	<1	0.68	0.010	0.06	0.1	0.02	0.7	<0.1	<0.05	4	0.7	<0.2
1161106	Soil	141	1.96	166	0.102	1	2.79	0.007	0.06	<0.1	0.15	5.4	<0.1	<0.05	9	<0.5	<0.2
1161107	Soil	85	1.20	214	0.086	1	1.89	0.006	0.08	0.2	0.07	3.0	0.1	<0.05	6	<0.5	<0.2
1161108	Soil	76	1.33	254	0.047	1	1.77	0.006	0.07	0.2	0.08	3.3	0.1	<0.05	5	0.8	<0.2
1161109	Soil	159	2.10	206	0.136	1	2.85	0.008	0.07	<0.1	0.10	4.9	<0.1	<0.05	8	<0.5	<0.2
1161110	Soil	204	1.99	102	0.111	<1	2.84	0.006	0.07	<0.1	0.20	7.2	<0.1	<0.05	8	<0.5	<0.2



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Client: **Redtail Metals Corp**
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4 Canada

Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000354.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1161111	Soil	1.0	24.0	9.7	94	0.1	51.4	22.3	1329	3.45	5.7	<0.5	1.2	13	1.1	1.5	0.1	87	0.54	0.070	7
1161112	Soil	1.2	94.4	22.3	135	0.2	109.1	26.0	778	4.22	16.3	4.0	2.0	65	1.2	3.2	0.1	89	1.38	0.062	19
1161113	Soil	1.2	81.8	29.1	102	0.3	95.5	28.6	785	4.27	7.6	3.0	3.2	24	0.4	1.6	0.1	94	1.07	0.053	11
1161114	Soil	0.5	110.3	9.1	45	<0.1	70.0	18.0	605	2.72	3.3	0.8	0.8	40	0.4	0.8	<0.1	60	0.99	0.065	8
1161115	Soil	0.5	29.0	7.1	30	0.4	34.8	9.7	601	2.00	3.2	<0.5	0.3	10	<0.1	0.9	<0.1	54	0.24	0.058	5
1161116	Soil	1.5	30.1	15.5	64	<0.1	72.0	15.2	544	5.35	8.7	<0.5	2.8	7	0.3	1.7	0.2	177	0.28	0.101	8
1161117	Soil	1.0	24.0	8.2	52	<0.1	42.4	10.6	321	2.91	5.0	<0.5	2.9	12	0.2	0.7	0.1	88	0.31	0.034	11
1161118	Soil	1.4	48.3	11.2	99	<0.1	90.4	23.9	526	4.52	7.5	0.5	2.5	18	0.3	1.1	0.2	112	0.67	0.042	12
1161119	Soil	1.1	43.2	10.0	75	<0.1	59.1	17.0	533	3.03	6.3	5.1	1.8	19	0.2	1.0	0.2	71	0.74	0.070	11
1161120	Soil	0.8	44.0	8.9	60	<0.1	79.5	21.2	843	3.67	3.8	<0.5	0.9	19	0.2	0.6	0.2	87	0.93	0.095	9
1161121	Soil	1.2	40.7	12.6	85	0.2	66.4	13.5	1185	2.69	27.8	3.2	2.1	16	0.6	4.5	0.2	44	0.27	0.059	13
1161122	Soil	0.6	62.5	9.7	64	0.3	12.4	11.4	804	3.71	4.5	0.8	1.0	26	0.2	0.8	0.1	48	0.53	0.104	8
1161123	Soil	1.5	39.7	11.9	37	0.6	12.6	3.5	235	1.22	4.7	1.4	1.2	8	0.3	1.1	0.2	27	0.03	0.043	32
1161124	Soil	5.9	53.4	21.6	46	1.1	18.4	2.8	79	1.78	22.2	9.9	0.8	51	0.4	3.1	0.3	35	0.06	0.075	18
1161125	Soil	1.7	36.2	12.3	48	0.4	23.0	7.1	330	1.74	6.0	1.6	0.2	18	1.0	1.0	0.2	29	0.11	0.059	11
1161126	Soil	2.6	39.3	20.5	98	0.4	50.3	12.7	782	3.97	12.9	1.3	3.5	9	0.3	2.0	0.3	78	0.08	0.069	14
1161127	Soil	1.5	40.8	10.0	45	0.5	18.9	4.4	164	1.79	5.7	2.9	0.4	11	0.1	1.5	0.2	35	0.03	0.044	12
1161128	Soil	2.2	72.1	21.6	73	1.9	46.3	16.0	912	3.22	19.1	2.3	0.5	17	0.6	1.3	0.3	53	0.13	0.074	15
1161129	Soil	2.9	51.2	15.5	88	0.5	63.4	9.4	340	2.57	17.0	5.0	1.7	22	0.4	1.6	0.2	43	0.18	0.086	18
1161130	Soil	1.8	40.4	11.3	74	0.3	94.2	15.5	479	2.70	15.0	2.8	3.6	13	0.4	1.2	0.2	47	0.09	0.032	15
1161131	Soil	1.7	32.3	12.7	63	0.2	86.6	11.0	367	4.00	5.0	0.7	2.6	11	0.2	1.1	0.3	81	0.09	0.067	10
1161132	Soil	11.5	235.9	23.5	451	3.6	210.1	69.5	1135	9.02	29.6	22.1	3.2	63	3.0	5.3	0.4	81	0.07	0.139	17
1161133	Soil	6.4	29.8	18.6	42	2.0	28.1	3.1	79	1.82	10.0	6.7	2.8	20	0.1	1.3	0.3	40	0.02	0.075	25
1161134	Soil	5.5	81.5	16.3	111	0.9	43.9	7.1	208	4.08	11.5	7.4	5.2	32	0.4	2.1	0.3	66	0.03	0.088	21
1161135	Soil	1.4	61.2	14.7	72	0.6	101.0	11.9	489	2.03	5.1	9.9	1.7	47	0.3	1.1	0.1	33	1.08	0.077	12
1161136	Soil	1.5	68.5	8.5	87	0.4	174.4	16.7	343	2.61	8.0	4.9	2.7	33	0.3	0.9	0.1	46	0.70	0.080	13
1161137	Soil	1.3	83.5	9.4	79	0.4	134.7	12.1	350	2.48	6.6	9.3	1.6	32	0.4	0.9	0.1	41	0.54	0.045	11
1161138	Soil	2.7	41.6	14.5	71	0.3	49.2	6.4	263	2.67	6.6	2.0	2.5	19	0.2	1.4	0.2	55	0.06	0.068	17
1161139	Soil	2.7	50.7	18.7	109	0.4	299.7	34.0	828	4.99	12.5	2.7	4.2	13	0.5	1.6	0.2	62	0.08	0.086	15
1161140	Soil	1.5	29.9	11.4	99	0.2	226.0	35.8	932	4.80	5.6	1.7	2.7	10	0.3	1.0	0.2	47	0.09	0.039	11



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161111	Soil	90	1.12	182	0.130	1	1.73	0.013	0.08	<0.1	0.08	3.6	<0.1	<0.05	6	<0.5	<0.2
1161112	Soil	140	1.74	305	0.083	3	2.55	0.011	0.10	0.1	0.50	7.6	0.1	0.19	6	3.3	<0.2
1161113	Soil	132	2.09	188	0.216	2	2.66	0.010	0.05	<0.1	0.11	7.0	<0.1	<0.05	7	0.9	<0.2
1161114	Soil	91	1.22	151	0.120	<1	2.00	0.023	0.05	<0.1	0.11	6.1	<0.1	0.07	5	0.7	<0.2
1161115	Soil	59	0.54	101	0.062	<1	1.17	0.025	0.05	<0.1	0.13	2.2	<0.1	0.07	3	0.7	<0.2
1161116	Soil	154	1.22	93	0.275	2	2.03	0.007	0.06	<0.1	0.06	3.7	<0.1	<0.05	10	0.5	<0.2
1161117	Soil	77	0.78	95	0.182	1	1.65	0.012	0.05	0.2	0.11	2.7	<0.1	<0.05	6	0.5	<0.2
1161118	Soil	123	1.47	118	0.210	3	2.86	0.009	0.06	0.2	0.04	3.5	<0.1	<0.05	8	<0.5	<0.2
1161119	Soil	79	0.96	174	0.100	2	1.92	0.007	0.07	0.2	0.05	3.6	<0.1	0.07	5	<0.5	<0.2
1161120	Soil	112	1.02	294	0.161	3	2.66	0.012	0.06	<0.1	0.10	4.9	0.1	0.09	7	0.8	<0.2
1161121	Soil	80	1.16	320	0.022	2	1.57	0.006	0.08	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1161122	Soil	16	0.89	481	0.016	<1	2.06	0.008	0.11	0.2	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
1161123	Soil	16	0.13	131	0.016	<1	0.89	0.006	0.04	0.1	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
1161124	Soil	21	0.13	190	0.008	<1	0.81	0.006	0.09	<0.1	0.09	0.6	0.1	0.10	3	2.6	<0.2
1161125	Soil	40	0.39	255	0.017	<1	0.96	0.007	0.07	<0.1	0.04	0.4	<0.1	<0.05	4	0.9	<0.2
1161126	Soil	91	0.73	165	0.108	1	1.73	0.004	0.06	0.2	0.04	2.3	<0.1	<0.05	7	0.6	<0.2
1161127	Soil	30	0.24	89	0.030	<1	0.97	0.011	0.05	0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
1161128	Soil	83	0.65	453	0.031	1	1.81	0.007	0.07	0.1	0.13	1.6	<0.1	<0.05	6	0.9	<0.2
1161129	Soil	82	0.75	436	0.017	2	1.70	0.006	0.06	0.1	0.11	2.3	<0.1	<0.05	5	1.2	<0.2
1161130	Soil	128	0.68	198	0.058	1	1.43	0.007	0.05	0.2	0.02	2.1	<0.1	<0.05	4	0.6	<0.2
1161131	Soil	157	0.97	86	0.189	1	1.37	0.004	0.07	0.2	0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
1161132	Soil	97	1.27	198	0.013	<1	2.52	0.005	0.06	0.1	0.17	4.6	0.2	<0.05	6	10.4	0.5
1161133	Soil	54	0.22	171	0.005	1	1.04	0.004	0.08	0.3	0.73	1.0	0.2	0.05	3	1.9	<0.2
1161134	Soil	67	0.61	178	0.030	1	1.64	0.007	0.11	0.2	0.05	2.0	0.1	0.10	5	2.3	<0.2
1161135	Soil	145	0.86	295	0.029	2	1.26	0.011	0.07	<0.1	0.12	2.3	<0.1	0.07	3	1.3	<0.2
1161136	Soil	370	1.52	146	0.032	2	1.57	0.008	0.07	<0.1	0.08	3.2	<0.1	<0.05	4	1.1	<0.2
1161137	Soil	187	1.23	241	0.045	4	1.37	0.015	0.07	0.1	0.06	2.7	<0.1	<0.05	4	0.8	<0.2
1161138	Soil	77	0.41	132	0.059	<1	1.10	0.007	0.06	0.1	<0.01	1.4	<0.1	<0.05	6	0.8	<0.2
1161139	Soil	374	3.32	198	0.043	9	1.88	0.006	0.09	0.2	0.05	2.8	<0.1	<0.05	6	1.0	<0.2
1161140	Soil	492	4.48	211	0.040	25	1.29	0.006	0.08	0.2	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161141	Soil	1.6	27.4	16.1	53	<0.1	87.9	11.0	400	3.33	6.2	1.3	5.3	12	<0.1	1.3	0.3	41	0.10	0.028	33
1161142	Soil	4.0	93.4	23.2	91	0.2	66.3	31.5	822	4.19	10.7	2.4	6.4	51	0.3	4.5	0.4	32	0.04	0.072	35
1161143	Soil	0.3	9.3	4.8	8	0.3	3.1	0.8	27	0.37	<0.5	1.6	<0.1	8	0.1	0.1	0.1	9	0.05	0.025	6
1161144	Soil	11.5	62.9	25.9	103	2.4	16.8	2.1	84	3.05	55.2	15.0	1.7	143	0.5	3.8	0.4	84	0.03	0.116	34
1161145	Soil	0.7	19.3	9.0	18	<0.1	10.9	4.4	263	1.25	0.6	0.5	0.1	6	0.3	2.2	0.1	41	0.20	0.052	3
1161146	Soil	1.2	40.9	7.2	72	0.1	39.8	14.3	778	2.57	3.7	1.6	0.6	13	1.7	1.2	0.2	81	0.49	0.075	6
1161147	Soil	0.9	46.0	14.6	57	<0.1	35.3	9.2	224	2.77	4.4	1.9	1.6	13	0.8	0.8	0.3	77	0.47	0.046	9
1161148	Soil	1.2	25.5	7.8	76	<0.1	35.9	11.2	399	3.06	6.0	2.8	1.6	12	0.5	0.8	0.2	82	0.40	0.049	13
1161149	Soil	0.2	7.8	2.9	10	<0.1	5.4	2.2	72	0.57	0.9	1.1	<0.1	9	<0.1	0.3	<0.1	17	0.18	0.041	3
1161150	Soil	1.5	64.8	8.9	75	<0.1	100.2	25.1	721	4.19	8.0	5.3	3.6	15	0.2	1.2	0.1	99	0.72	0.056	16
1161051	Soil	3.5	37.1	16.6	67	0.6	37.3	5.1	281	2.53	16.3	2.8	4.7	17	0.2	1.8	0.3	66	0.03	0.048	22
1161052	Soil	3.4	40.6	19.5	62	0.5	45.6	5.7	274	3.15	12.4	5.2	2.2	14	0.1	1.6	0.3	54	0.07	0.088	16
1161053	Soil	2.0	36.8	18.7	61	0.8	30.5	6.8	244	2.95	6.7	8.5	6.9	10	0.1	1.5	0.2	33	0.06	0.042	23
1161054	Soil	2.6	55.2	18.9	99	0.3	138.5	18.4	597	3.57	16.5	5.6	5.2	18	0.3	1.9	0.2	44	0.10	0.048	20
1161055	Soil	2.7	37.9	48.7	95	0.9	63.5	8.1	251	3.08	14.6	6.4	1.3	16	0.7	1.9	0.3	46	0.08	0.060	18
1161056	Soil	2.9	31.1	27.5	56	0.8	20.3	4.3	140	2.69	20.1	5.7	3.7	37	0.2	3.3	0.3	53	0.09	0.050	20
1161057	Soil	2.5	23.4	28.4	68	0.2	17.7	4.3	173	1.84	18.5	1.3	3.5	21	0.5	2.1	0.3	45	0.07	0.053	21
1161058	Soil	2.2	23.0	26.3	82	0.4	26.2	6.9	328	2.53	20.7	5.6	2.1	19	0.5	2.2	0.3	37	0.10	0.103	19
1161059	Soil	2.4	22.5	74.7	116	0.4	14.4	5.5	218	2.29	33.3	1.6	3.0	16	1.1	3.3	0.4	31	0.11	0.053	21
1161060	Soil	3.3	72.4	72.7	96	1.0	24.7	9.8	642	1.78	16.0	2.1	2.4	52	1.4	2.2	0.3	24	0.20	0.048	13
1161061	Soil	0.9	46.4	12.1	128	0.1	131.2	35.4	994	5.17	13.4	0.7	2.1	46	0.4	2.2	0.1	103	0.90	0.032	8
1161062	Soil	1.5	49.6	12.1	76	0.1	99.5	27.2	642	4.86	16.4	0.5	2.6	20	0.6	1.7	0.2	123	0.72	0.032	10
1161063	Soil	0.3	3.6	28.4	43	<0.1	4.4	2.6	151	0.72	5.8	1.1	10.0	12	0.4	0.4	0.3	9	0.15	0.014	47
1161064	Soil	1.6	160.0	22.1	106	0.2	93.2	39.2	1242	3.66	13.7	4.2	1.0	35	0.3	0.9	0.2	66	1.27	0.079	16
1161065	Soil	0.9	33.7	16.8	55	0.6	41.5	12.1	467	2.78	8.0	2.0	2.1	15	0.2	1.2	0.2	58	0.28	0.029	16
1161066	Soil	1.9	52.6	13.3	110	0.3	67.2	15.1	954	3.52	28.1	6.5	3.2	26	0.3	3.9	0.2	51	0.39	0.058	16
1161067	Soil	2.1	23.1	20.2	89	0.3	22.5	6.3	448	2.39	15.0	1.1	4.4	12	0.6	1.6	0.3	41	0.07	0.043	23
1161068	Soil	2.0	25.5	18.6	92	0.2	26.8	8.9	423	3.10	14.2	2.3	1.0	12	0.3	1.9	0.3	49	0.09	0.082	17
1161069	Soil	1.6	20.9	22.9	84	0.5	39.2	12.7	512	3.24	20.8	2.3	3.5	12	0.7	2.1	0.3	53	0.10	0.068	16
1161070	Soil	2.5	45.3	23.8	88	0.3	56.9	16.4	1295	3.65	26.6	1.9	2.7	27	0.4	1.8	0.3	46	0.42	0.060	19



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161141	Soil	177	1.09	167	0.026	4	1.27	0.004	0.13	0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
1161142	Soil	25	0.40	232	0.019	<1	1.30	0.005	0.18	<0.1	0.01	2.3	0.1	0.06	5	1.2	<0.2
1161143	Soil	7	0.05	64	0.009	<1	0.39	0.017	0.03	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
1161144	Soil	27	0.11	286	0.006	3	0.95	0.005	0.23	0.1	0.14	1.0	0.3	0.44	5	4.1	0.2
1161145	Soil	35	0.14	49	0.076	1	0.82	0.016	0.03	<0.1	0.06	1.5	<0.1	<0.05	3	0.7	<0.2
1161146	Soil	72	0.36	173	0.142	1	1.16	0.008	0.06	0.1	0.08	3.3	<0.1	0.08	5	<0.5	<0.2
1161147	Soil	71	0.55	159	0.156	1	1.83	0.013	0.06	0.1	0.04	3.8	<0.1	<0.05	8	<0.5	<0.2
1161148	Soil	73	0.60	145	0.113	<1	1.62	0.006	0.05	0.2	0.03	2.6	<0.1	<0.05	6	0.5	<0.2
1161149	Soil	10	0.13	42	0.033	<1	0.42	0.029	0.02	<0.1	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
1161150	Soil	130	1.31	187	0.113	3	2.40	0.007	0.05	0.2	0.14	8.7	<0.1	<0.05	7	0.5	<0.2
1161051	Soil	50	0.35	245	0.030	<1	1.27	0.006	0.08	0.1	0.03	1.6	0.1	<0.05	7	1.1	<0.2
1161052	Soil	91	0.61	191	0.036	<1	1.28	0.007	0.06	0.1	0.02	1.6	<0.1	<0.05	6	1.5	<0.2
1161053	Soil	39	0.60	184	0.015	<1	1.68	0.004	0.06	<0.1	0.05	1.7	<0.1	<0.05	5	1.0	<0.2
1161054	Soil	206	2.04	455	0.028	5	1.55	0.005	0.08	<0.1	0.03	2.3	<0.1	<0.05	4	1.0	<0.2
1161055	Soil	116	0.95	296	0.031	2	1.31	0.006	0.08	0.1	0.03	1.5	0.1	<0.05	5	0.8	<0.2
1161056	Soil	37	0.44	344	0.033	<1	1.34	0.005	0.07	0.2	0.03	1.4	0.2	<0.05	5	1.4	<0.2
1161057	Soil	30	0.31	222	0.044	2	0.96	0.018	0.13	0.2	0.02	2.7	0.2	<0.05	5	0.6	<0.2
1161058	Soil	41	0.51	393	0.025	2	1.09	0.008	0.09	0.1	0.06	1.3	<0.1	<0.05	4	1.3	<0.2
1161059	Soil	21	0.40	342	0.037	<1	1.15	0.005	0.10	0.2	0.05	1.1	0.7	<0.05	5	0.5	<0.2
1161060	Soil	21	0.23	575	0.021	1	0.87	0.012	0.11	0.2	0.10	1.2	0.1	<0.05	3	1.2	<0.2
1161061	Soil	210	2.47	305	0.135	2	2.93	0.007	0.08	<0.1	0.36	8.0	<0.1	<0.05	8	1.1	<0.2
1161062	Soil	164	1.68	310	0.139	2	2.73	0.007	0.08	0.1	0.08	6.5	<0.1	<0.05	8	<0.5	<0.2
1161063	Soil	8	0.18	145	0.007	1	0.57	0.003	0.29	<0.1	0.02	0.5	0.1	<0.05	1	<0.5	<0.2
1161064	Soil	111	1.28	150	0.087	4	2.10	0.014	0.10	0.1	0.10	5.9	<0.1	<0.05	5	1.6	<0.2
1161065	Soil	73	0.93	422	0.099	2	1.78	0.005	0.06	0.2	0.04	2.9	<0.1	<0.05	6	<0.5	<0.2
1161066	Soil	66	1.20	1015	0.016	1	2.13	0.006	0.09	<0.1	0.09	3.3	<0.1	<0.05	5	1.6	<0.2
1161067	Soil	26	0.30	206	0.019	1	1.07	0.005	0.10	<0.1	0.05	1.3	0.1	<0.05	5	0.7	<0.2
1161068	Soil	27	0.58	135	0.017	1	1.51	0.005	0.10	<0.1	0.05	1.2	<0.1	<0.05	5	0.6	<0.2
1161069	Soil	43	0.96	230	0.066	<1	1.65	0.006	0.11	0.3	0.05	2.0	<0.1	<0.05	6	0.8	<0.2
1161070	Soil	87	0.90	467	0.027	1	1.78	0.007	0.10	0.2	0.05	2.8	0.1	<0.05	5	1.1	<0.2



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000354.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1161071	Soil																							
1161072	Soil																							
1161073	Soil																							
1161074	Soil																							
1161075	Soil																							
1161076	Soil																							
1161077	Soil																							
1161078	Soil																							
1161079	Soil																							
1161080	Soil																							
1161081	Soil																							
1161082	Soil																							
1161083	Soil																							
1161084	Soil																							
1161085	Soil																							
1161086	Soil																							
1161087	Soil																							
1161088	Soil																							
1161089	Soil																							
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1161094	Soil																							
1161095	Soil																							
1161096	Soil																							
1161097	Soil																							
1161098	Soil																							
1161099	Soil																							
1161100	Soil																							



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000354.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161071	Soil	22	0.39	735	0.027	1	0.93	0.009	0.15	0.3	0.40	1.6	0.5	0.12	3	1.6	<0.2
1161072	Soil	30	0.64	438	0.101	<1	1.30	0.015	0.17	0.5	0.37	1.5	12.6	0.10	7	7.2	0.5
1161073	Soil	50	0.65	328	0.117	<1	1.95	0.005	0.06	0.3	0.02	2.4	0.2	<0.05	6	0.6	<0.2
1161074	Soil	26	0.40	161	0.098	<1	1.43	0.006	0.05	0.3	0.03	1.6	0.1	<0.05	5	<0.5	<0.2
1161075	Soil	33	0.55	448	0.087	<1	1.51	0.005	0.06	0.3	0.02	2.4	0.1	<0.05	4	<0.5	<0.2
1161076	Soil	34	0.40	184	0.024	<1	1.51	0.006	0.20	<0.1	0.02	1.9	0.2	<0.05	4	0.5	<0.2
1161077	Soil	5	0.02	209	0.333	1	0.51	0.026	0.39	0.1	0.03	0.3	0.3	0.54	<1	<0.5	<0.2
1161078	Soil	244	1.48	104	0.047	2	1.61	0.015	0.05	0.1	0.21	6.3	<0.1	<0.05	5	<0.5	<0.2
1161079	Soil	33	0.31	109	0.033	1	1.03	0.016	0.06	<0.1	0.28	2.9	<0.1	<0.05	3	<0.5	<0.2
1161080	Soil	89	1.53	165	0.151	2	2.47	0.007	0.04	0.1	0.37	7.9	<0.1	<0.05	8	0.5	<0.2
1161081	Soil	86	1.31	175	0.185	<1	1.96	0.008	0.05	0.1	0.04	5.2	<0.1	<0.05	5	<0.5	<0.2
1161082	Soil	97	1.34	145	0.151	3	2.63	0.008	0.05	0.2	0.04	4.6	<0.1	<0.05	7	<0.5	<0.2
1161083	Soil	52	1.03	136	0.135	2	1.98	0.008	0.05	0.2	0.02	7.0	<0.1	<0.05	6	<0.5	<0.2
1161084	Soil	60	1.20	105	0.161	1	1.94	0.005	0.04	0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
1161085	Soil	124	2.01	124	0.222	3	3.07	0.006	0.05	0.2	0.04	6.5	<0.1	<0.05	8	<0.5	<0.2
1161086	Soil	85	1.23	164	0.120	1	2.25	0.016	0.06	0.1	0.05	5.9	<0.1	<0.05	6	<0.5	<0.2
1161087	Soil	111	1.33	127	0.161	2	2.20	0.008	0.05	0.1	0.04	6.7	<0.1	<0.05	6	0.5	<0.2
1161088	Soil	176	2.77	145	0.278	3	3.40	0.007	0.06	<0.1	0.02	12.8	<0.1	<0.05	8	<0.5	<0.2
1161089	Soil	166	2.31	241	0.082	4	2.62	0.008	0.07	<0.1	0.30	9.9	<0.1	0.06	7	0.7	<0.2
1161090	Soil	291	3.62	130	0.267	3	3.77	0.008	0.06	<0.1	0.17	13.1	<0.1	<0.05	9	<0.5	<0.2
1161091	Soil	171	3.31	170	0.359	4	3.59	0.006	0.06	<0.1	0.09	17.4	<0.1	<0.05	10	0.6	<0.2
1161092	Soil	129	0.85	435	0.033	1	1.78	0.008	0.11	0.1	0.07	2.6	0.1	<0.05	5	1.6	<0.2
1161093	Soil	45	0.50	134	0.047	<1	1.38	0.004	0.06	0.2	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
1161094	Soil	57	0.81	285	0.051	1	1.72	0.003	0.07	0.4	0.12	2.1	0.4	<0.05	7	1.3	<0.2
1161095	Soil	48	0.60	219	0.011	1	1.47	0.004	0.12	<0.1	0.22	1.9	0.2	<0.05	6	3.3	0.2
1161096	Soil	19	0.28	384	0.019	1	1.36	0.009	0.06	0.1	0.05	1.6	0.2	<0.05	5	1.9	<0.2
1161097	Soil	75	0.52	266	0.035	1	1.23	0.004	0.10	0.2	0.02	2.0	0.1	<0.05	5	0.6	<0.2
1161098	Soil	14	0.34	206	0.042	<1	0.75	0.012	0.09	0.1	0.06	0.8	0.2	<0.05	3	<0.5	<0.2
1161099	Soil	9	0.03	344	0.005	<1	1.01	0.010	0.05	0.3	0.20	0.4	0.2	<0.05	2	<0.5	<0.2
1161100	Soil	32	0.48	268	0.011	1	1.30	0.021	0.04	<0.1	0.44	2.5	0.1	0.06	2	2.1	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1178051	Soil																							
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CERTIFICATE OF ANALYSIS

WHI11000354.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178051	Soil	34	0.68	362	0.056	1	1.44	0.007	0.07	0.2	0.04	2.6	0.1	<0.05	4	<0.5	<0.2
1178052	Soil	86	1.30	183	0.435	<1	2.48	0.006	0.05	<0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
1178053	Soil	25	0.84	551	0.114	1	1.37	0.007	0.06	0.3	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1178054	Soil	49	0.86	357	0.113	1	1.96	0.009	0.09	0.2	0.06	2.9	0.3	<0.05	6	0.6	<0.2
1178055	Soil	74	1.36	218	0.337	2	1.81	0.005	0.06	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1178056	Soil	75	1.07	205	0.294	1	1.78	0.008	0.06	0.2	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1178057	Soil	77	0.99	85	0.300	1	1.87	0.005	0.06	0.2	0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
1178058	Soil	80	1.16	66	0.435	<1	2.00	0.005	0.06	0.2	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
1178059	Soil	21	0.26	88	0.068	1	0.83	0.004	0.21	0.1	0.02	1.0	0.1	<0.05	3	<0.5	<0.2
1178060	Soil	17	0.26	82	0.043	<1	0.91	0.004	0.15	0.1	0.02	0.9	0.1	<0.05	2	<0.5	<0.2
1178061	Soil	8	0.08	281	0.032	<1	0.49	0.007	0.41	<0.1	0.06	0.6	0.1	0.71	2	<0.5	<0.2
1178062	Soil	5	0.03	264	0.006	<1	0.38	0.007	0.28	<0.1	0.04	0.4	0.2	0.44	<1	<0.5	<0.2
1178063	Soil	8	0.08	206	0.018	<1	0.50	0.003	0.17	<0.1	0.03	0.5	0.1	0.12	1	<0.5	<0.2
1178064	Soil	41	0.67	285	0.119	<1	1.40	0.005	0.12	<0.1	0.04	2.0	<0.1	0.08	3	<0.5	<0.2
1178065	Soil	6	0.04	134	0.009	<1	0.38	0.005	0.17	<0.1	0.03	0.4	0.3	0.19	<1	<0.5	<0.2
1178066	Soil	33	0.44	184	0.060	1	1.53	0.005	0.14	0.1	0.04	1.9	0.2	0.10	3	0.5	<0.2
1178067	Soil	32	0.70	647	0.022	2	1.26	0.005	0.14	<0.1	0.06	2.5	<0.1	<0.05	3	0.5	<0.2
1178068	Soil	38	0.73	377	0.016	2	1.28	0.004	0.10	<0.1	0.03	2.7	<0.1	<0.05	3	0.6	<0.2
1178069	Soil	18	0.33	436	0.006	<1	1.08	0.004	0.13	<0.1	0.06	1.6	<0.1	<0.05	3	1.1	<0.2
1178070	Soil	20	0.46	248	0.011	1	1.89	0.010	0.15	0.1	0.10	2.0	0.4	<0.05	4	0.9	<0.2
1178071	Soil	85	0.82	209	0.250	1	1.97	0.004	0.06	0.2	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
1178072	Soil	30	0.55	137	0.129	<1	1.52	0.005	0.07	0.6	0.02	1.9	<0.1	<0.05	5	0.5	<0.2
1178073	Soil	75	0.74	204	0.128	<1	2.05	0.005	0.08	0.6	0.03	2.9	0.1	<0.05	7	<0.5	<0.2
1178074	Soil	40	0.74	245	0.150	<1	1.59	0.004	0.10	0.9	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
1178075	Soil	50	1.00	279	0.148	1	1.92	0.004	0.11	0.8	0.07	2.7	0.4	<0.05	5	<0.5	<0.2
1178076	Soil	31	0.40	250	0.097	3	1.45	0.005	0.07	0.4	0.06	1.4	0.8	0.06	6	<0.5	<0.2
1178077	Soil	48	0.81	290	0.090	<1	2.20	0.004	0.05	0.4	0.06	1.9	0.2	<0.05	6	<0.5	<0.2
1178078	Soil	7	0.15	509	0.002	3	0.59	0.008	0.09	<0.1	0.15	0.8	<0.1	0.07	1	<0.5	<0.2
1178079	Soil	27	0.59	221	0.047	1	1.19	0.006	0.06	0.1	0.03	1.6	<0.1	0.05	4	<0.5	<0.2
1178080	Soil	3	0.03	76	0.054	1	0.23	0.006	0.07	0.1	0.07	0.4	<0.1	0.14	<1	<0.5	<0.2



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1178081	Soil	10.5	48.1	24.2	200	0.6	104.3	15.5	903	3.37	29.2	2.6	3.9	26	1.3	3.0	0.3	46	0.53	0.094	42
1178082	Soil	1.1	15.9	8.1	40	<0.1	24.2	6.3	212	2.85	4.6	<0.5	3.3	7	0.2	0.8	0.3	95	0.14	0.025	12
1178083	Soil	1.1	23.9	8.7	58	<0.1	52.3	12.4	356	5.18	6.3	1.9	2.4	8	0.3	1.2	0.2	192	0.29	0.030	7
1178084	Soil	1.0	31.4	8.5	95	<0.1	94.9	20.7	577	4.67	8.2	0.8	2.0	9	0.2	0.8	0.2	133	0.31	0.028	7
1178085	Soil	0.8	12.4	32.7	119	0.2	5.6	5.3	312	1.26	3.3	<0.5	0.6	25	1.7	0.5	0.2	14	0.21	0.058	19
1178086	Soil	1.2	21.6	7.3	84	<0.1	49.4	15.0	479	4.85	5.0	3.5	2.7	7	0.4	1.0	0.2	116	0.33	0.092	9
1178087	Soil	1.2	26.4	6.5	71	<0.1	66.2	18.1	470	4.58	4.2	<0.5	1.8	12	0.5	0.7	0.2	141	0.71	0.052	7
1178088	Soil	1.1	22.3	7.3	80	<0.1	84.4	23.0	618	5.47	3.3	<0.5	1.8	9	0.9	0.6	0.1	168	0.75	0.061	5
1178089	Soil	1.1	23.3	7.5	78	<0.1	68.2	19.8	550	4.22	3.0	<0.5	2.1	11	1.0	0.7	0.2	105	0.60	0.089	7
1178090	Soil	1.0	27.5	5.8	116	<0.1	88.1	21.9	654	5.53	5.7	<0.5	1.9	8	0.9	0.8	<0.1	157	0.64	0.067	5
1178091	Soil	1.0	16.6	5.8	71	<0.1	31.9	9.7	351	3.23	3.0	0.6	1.3	7	0.6	0.7	0.2	91	0.25	0.059	6
1178092	Soil	1.0	21.6	7.5	108	0.1	55.9	16.1	573	4.38	3.4	2.4	2.0	10	0.9	0.7	0.2	126	0.53	0.080	8
1178093	Soil	1.5	32.2	12.6	109	<0.1	57.2	16.6	472	5.01	6.5	<0.5	2.8	13	0.9	0.9	0.2	131	0.65	0.069	9
1178094	Soil	1.5	26.3	8.1	100	<0.1	46.0	24.8	1418	3.92	4.2	<0.5	1.8	10	0.9	0.8	0.2	106	0.55	0.084	7
1178095	Soil	1.3	28.6	11.4	92	<0.1	75.9	19.2	585	5.17	4.5	9.0	2.1	8	0.9	0.9	0.2	147	0.76	0.092	7
1178096	Soil	1.0	22.3	5.7	104	<0.1	58.6	15.2	375	3.44	4.1	<0.5	1.9	12	0.8	1.0	0.1	102	0.60	0.050	7
1178097	Soil	1.5	28.1	8.5	63	<0.1	53.9	16.6	583	4.05	7.1	3.8	3.1	14	0.2	1.0	0.1	124	0.62	0.038	10
1178098	Soil	1.1	31.0	6.0	58	<0.1	56.1	15.3	380	3.86	8.5	<0.5	2.1	12	0.4	1.4	0.1	106	0.36	0.034	7
1178099	Soil	5.5	74.4	17.6	151	0.4	72.8	13.9	490	3.45	14.9	3.8	5.4	23	0.4	1.8	0.2	64	0.17	0.065	22
1178100	Soil	4.3	58.2	14.4	121	0.7	65.4	12.0	420	3.05	12.2	4.2	3.8	20	0.4	1.5	0.2	64	0.16	0.059	21
1161401	Soil	2.0	19.6	17.2	80	<0.1	22.2	12.4	501	2.34	7.5	<0.5	3.2	29	0.3	1.5	0.2	33	0.49	0.059	27
1161402	Soil	2.5	7.5	34.6	78	0.1	9.9	6.7	228	2.13	10.4	<0.5	10.1	27	0.1	1.1	0.3	14	0.21	0.019	25
1161403	Soil	3.6	9.1	42.5	38	0.2	4.3	5.1	152	1.20	5.0	<0.5	3.5	21	0.2	0.9	0.2	18	0.16	0.021	20
1161404	Soil	1.6	12.6	16.4	58	<0.1	15.6	6.5	342	2.50	6.7	1.4	2.2	18	0.3	1.6	0.3	42	0.20	0.089	16
1161405	Soil	1.8	14.6	16.7	36	0.4	13.7	5.3	145	1.56	5.4	<0.5	0.4	15	0.2	0.9	0.2	26	0.18	0.057	19
1161406	Soil	1.6	9.5	25.4	33	0.3	8.1	4.1	154	1.50	5.0	<0.5	2.4	12	0.1	1.5	0.2	31	0.15	0.027	15
1161407	Soil	1.1	25.8	14.6	61	<0.1	43.1	14.7	440	3.18	8.2	1.4	3.4	9	0.2	1.5	0.2	75	0.23	0.043	11
1161408	Soil	1.7	20.6	24.8	62	<0.1	36.8	12.9	413	2.90	10.5	1.1	4.6	18	0.1	1.2	0.2	68	0.41	0.023	19
1161409	Soil	0.9	12.1	16.0	62	<0.1	16.0	6.2	247	2.43	9.6	<0.5	6.0	28	0.3	1.3	0.2	46	0.25	0.055	18
1161410	Soil	1.1	15.8	25.4	52	<0.1	18.5	7.3	279	2.05	12.2	1.2	8.4	18	0.1	1.2	0.2	39	0.27	0.026	22



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178081	Soil	78	1.45	303	0.009	2	1.73	0.006	0.06	<0.1	0.22	2.9	0.2	0.09	4	2.3	<0.2
1178082	Soil	46	0.37	77	0.144	1	1.46	0.002	0.03	0.2	0.04	2.0	<0.1	<0.05	7	<0.5	<0.2
1178083	Soil	107	0.81	69	0.335	2	1.79	0.004	0.02	<0.1	0.07	2.7	<0.1	<0.05	11	<0.5	<0.2
1178084	Soil	154	1.91	94	0.177	2	2.17	0.005	0.05	0.2	0.23	3.8	<0.1	<0.05	9	<0.5	<0.2
1178085	Soil	7	0.08	365	0.032	3	0.93	0.005	0.11	0.4	0.04	0.7	<0.1	<0.05	4	<0.5	<0.2
1178086	Soil	105	0.90	75	0.231	3	2.13	0.007	0.06	0.2	0.03	2.8	<0.1	<0.05	8	<0.5	<0.2
1178087	Soil	131	1.16	134	0.248	4	2.36	0.009	0.06	0.1	0.03	4.0	<0.1	<0.05	8	<0.5	<0.2
1178088	Soil	163	1.66	108	0.405	5	2.78	0.006	0.06	0.1	0.04	4.4	<0.1	<0.05	10	<0.5	<0.2
1178089	Soil	119	1.26	143	0.186	4	2.33	0.011	0.09	0.1	0.04	3.5	<0.1	<0.05	8	<0.5	<0.2
1178090	Soil	154	1.64	101	0.338	4	2.78	0.005	0.05	0.1	0.05	4.5	<0.1	<0.05	8	<0.5	<0.2
1178091	Soil	76	0.51	91	0.188	3	1.38	0.008	0.05	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
1178092	Soil	112	0.97	150	0.230	4	2.15	0.006	0.06	<0.1	0.05	3.6	<0.1	<0.05	8	<0.5	<0.2
1178093	Soil	113	1.07	150	0.228	2	2.31	0.008	0.06	0.2	0.03	4.5	<0.1	<0.05	8	0.5	<0.2
1178094	Soil	88	0.92	155	0.162	2	1.80	0.011	0.09	0.2	0.05	4.2	<0.1	<0.05	7	<0.5	<0.2
1178095	Soil	160	1.23	144	0.288	4	2.55	0.007	0.06	0.1	0.05	4.0	<0.1	<0.05	10	<0.5	<0.2
1178096	Soil	102	1.04	101	0.190	3	1.89	0.010	0.07	0.1	0.04	3.8	<0.1	<0.05	7	<0.5	<0.2
1178097	Soil	99	1.13	153	0.250	3	2.18	0.006	0.05	0.3	0.02	4.1	<0.1	<0.05	8	<0.5	<0.2
1178098	Soil	104	1.06	140	0.215	2	2.21	0.007	0.05	0.1	0.11	3.4	<0.1	<0.05	7	<0.5	<0.2
1178099	Soil	78	0.92	257	0.051	2	1.58	0.005	0.11	0.1	0.06	2.7	<0.1	<0.05	5	1.5	<0.2
1178100	Soil	69	0.81	232	0.043	3	1.48	0.005	0.09	0.1	0.06	2.2	<0.1	<0.05	5	1.1	<0.2
1161401	Soil	37	0.72	470	0.074	2	1.38	0.006	0.08	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
1161402	Soil	13	0.51	185	0.113	1	1.39	0.004	0.07	0.7	0.01	1.7	0.1	<0.05	4	<0.5	<0.2
1161403	Soil	10	0.12	251	0.035	<1	1.37	0.010	0.07	0.3	0.02	1.4	0.3	<0.05	5	<0.5	<0.2
1161404	Soil	29	0.41	196	0.095	1	1.45	0.004	0.06	0.3	0.03	1.7	<0.1	<0.05	5	0.9	<0.2
1161405	Soil	22	0.40	319	0.032	1	1.26	0.008	0.04	0.1	0.03	0.9	0.1	<0.05	4	<0.5	<0.2
1161406	Soil	17	0.22	236	0.068	<1	1.16	0.007	0.06	0.3	0.01	1.3	0.1	<0.05	5	<0.5	<0.2
1161407	Soil	88	1.10	103	0.184	2	2.21	0.006	0.05	<0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
1161408	Soil	68	1.07	551	0.218	2	1.76	0.005	0.06	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1161409	Soil	34	0.66	231	0.110	3	1.56	0.005	0.06	0.2	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
1161410	Soil	31	0.67	384	0.148	2	1.36	0.006	0.07	0.3	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1161411	Soil	1.8	19.6	24.1	73	0.3	22.7	7.9	324	2.70	31.7	2.4	9.0	15	0.5	4.8	0.3	31	0.12	0.100	20
1161412	Soil	1.2	24.0	29.7	55	0.3	14.9	5.3	190	1.93	35.2	6.0	11.2	16	0.4	2.3	0.2	23	0.14	0.022	30
1161413	Soil	1.7	20.3	28.7	54	0.3	22.7	8.1	270	2.14	34.6	5.5	12.0	22	0.2	2.7	0.3	29	0.17	0.032	23
1161414	Soil	1.7	16.3	23.5	61	0.3	17.7	5.3	231	2.23	34.1	6.2	10.6	16	0.2	2.4	0.3	29	0.09	0.048	24
1161415	Soil	5.7	14.1	50.0	48	0.4	10.2	3.8	166	1.96	81.3	4.3	12.6	17	0.5	4.1	0.4	11	0.16	0.016	25
1161416	Soil	2.3	36.4	29.1	54	0.3	18.2	10.2	784	2.50	19.6	1.9	0.9	19	0.3	2.6	0.4	45	0.31	0.057	16
1161417	Soil	3.1	53.3	18.3	100	0.5	40.2	10.8	365	3.98	18.5	4.6	3.3	10	0.5	3.1	0.3	52	0.06	0.060	20
1161418	Soil	2.0	52.5	31.2	100	0.2	30.7	11.4	312	2.78	10.5	6.3	13.5	11	<0.1	1.7	0.3	24	0.18	0.039	44
1161419	Soil	2.1	33.9	13.3	94	0.1	32.1	13.4	684	3.86	21.3	2.4	1.5	15	0.6	2.3	0.2	71	0.26	0.118	10
1161420	Soil	2.0	55.5	13.3	121	0.2	51.5	30.0	907	5.56	64.5	7.9	3.4	21	0.3	3.5	0.2	103	0.48	0.115	15
1161421	Soil	1.9	81.6	16.5	116	0.3	89.9	22.8	855	4.55	41.7	4.5	3.3	36	0.3	3.5	0.2	71	0.59	0.130	18
1161422	Soil	2.3	74.9	19.8	91	0.2	79.4	13.0	356	3.13	13.3	3.4	7.7	31	0.3	2.7	0.2	37	0.16	0.061	19
1161423	Soil	2.2	88.5	11.8	166	0.4	152.0	44.1	1311	5.83	32.3	7.0	4.7	40	0.9	2.6	0.2	124	0.52	0.139	21
1161424	Soil	7.4	108.2	24.9	173	1.2	62.8	18.4	394	3.83	30.5	12.2	5.4	96	1.2	8.6	0.4	43	0.04	0.089	28
1161425	Soil	2.2	46.1	18.9	79	0.3	29.6	9.2	423	2.62	12.1	209.5	1.2	24	0.4	2.1	0.3	28	0.09	0.068	29
1161426	Soil	3.5	77.7	31.9	107	0.3	57.5	23.5	1838	3.67	15.8	6.4	4.7	39	0.4	3.4	0.4	28	0.07	0.074	31
1161427	Soil	2.8	67.2	36.5	110	0.2	59.6	24.6	1284	3.28	16.6	8.7	12.8	35	0.4	2.9	0.3	21	0.08	0.066	35
1161428	Soil	4.1	106.9	21.4	166	0.5	73.1	23.8	1127	3.39	13.0	7.5	6.7	66	0.7	4.7	0.3	29	0.08	0.066	28
1161429	Soil	3.2	115.5	25.9	94	0.8	35.0	13.9	625	4.31	14.4	13.9	3.7	40	0.2	6.1	0.4	31	0.04	0.077	23
1161430	Soil	2.4	35.7	15.9	50	0.3	33.0	7.8	904	1.92	8.6	2.6	0.4	14	0.3	2.2	0.3	38	0.08	0.075	22
1161431	Soil	5.1	127.9	17.7	277	1.4	142.4	40.3	1519	6.29	25.3	5.4	4.1	21	0.9	3.0	0.3	93	0.16	0.119	19
1161432	Soil	0.3	12.7	2.8	16	0.2	2013	150.3	1403	3.54	4.0	5.1	0.2	4	0.1	0.9	<0.1	15	0.03	0.012	<1
1161433	Soil	5.5	43.8	16.3	63	0.6	77.2	5.2	136	2.45	3.9	2.1	1.0	51	0.2	1.8	0.2	40	0.02	0.076	15
1161434	Soil	3.5	79.6	17.1	125	0.6	382.0	29.5	469	3.66	20.4	16.0	4.7	61	0.5	1.9	0.3	39	0.09	0.082	18
1161435	Soil	1.2	35.0	22.4	72	0.2	73.6	15.5	322	3.13	16.7	2.7	8.8	19	0.1	0.6	0.3	16	0.25	0.054	17
1161436	Soil	3.6	59.0	15.5	87	0.5	35.8	11.3	378	3.66	34.5	2.5	2.0	54	0.2	3.7	0.2	49	0.04	0.139	18
1161437	Soil	1.0	24.1	8.5	63	<0.1	30.2	13.4	358	3.48	6.9	1.1	3.8	9	0.2	1.3	0.2	93	0.34	0.029	12
1161438	Soil	1.2	68.6	7.8	94	<0.1	63.4	21.6	539	3.72	8.3	1.6	3.7	15	0.2	2.1	0.1	98	0.58	0.049	12
1161439	Soil	0.7	45.4	7.2	66	<0.1	60.8	19.3	514	3.50	5.6	2.7	3.3	16	0.2	1.3	0.1	99	0.74	0.043	12
1161440	Soil	1.3	101.1	12.9	86	0.1	84.6	30.7	933	4.62	10.0	2.5	1.6	23	0.2	1.3	0.3	117	0.65	0.133	16



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Project: Bolt
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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161411	Soil	26	0.58	182	0.036	1	1.50	0.005	0.08	0.2	0.05	1.4	0.1	<0.05	4	<0.5	<0.2
1161412	Soil	16	0.49	251	0.044	1	1.25	0.004	0.06	0.2	0.03	1.2	0.2	<0.05	3	<0.5	<0.2
1161413	Soil	31	0.85	328	0.067	1	1.56	0.004	0.06	0.4	0.04	1.6	0.2	<0.05	4	0.6	<0.2
1161414	Soil	19	0.50	166	0.044	1	1.47	0.005	0.09	0.3	0.05	1.3	0.2	<0.05	5	0.7	<0.2
1161415	Soil	11	0.48	215	0.049	<1	1.16	0.004	0.08	0.5	0.11	1.1	0.2	<0.05	3	0.6	<0.2
1161416	Soil	25	0.28	358	0.023	<1	1.07	0.006	0.08	0.1	0.05	0.9	0.2	<0.05	5	<0.5	<0.2
1161417	Soil	40	0.58	192	0.024	1	1.48	0.004	0.08	0.1	0.03	1.8	<0.1	<0.05	5	1.1	<0.2
1161418	Soil	17	0.48	263	0.010	2	1.44	0.004	0.11	<0.1	0.04	1.4	0.2	<0.05	4	0.5	<0.2
1161419	Soil	46	0.70	245	0.104	1	1.50	0.008	0.07	0.1	0.03	2.4	<0.1	<0.05	6	0.8	<0.2
1161420	Soil	45	1.22	382	0.066	<1	2.44	0.005	0.09	0.2	0.04	5.9	<0.1	<0.05	8	<0.5	<0.2
1161421	Soil	102	1.37	426	0.053	2	2.36	0.007	0.15	0.2	0.06	4.2	0.1	<0.05	7	0.9	<0.2
1161422	Soil	75	1.05	238	0.066	1	1.43	0.008	0.08	<0.1	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
1161423	Soil	189	2.73	388	0.096	1	3.06	0.005	0.28	<0.1	0.09	9.7	0.2	<0.05	10	<0.5	<0.2
1161424	Soil	29	0.49	355	0.008	<1	1.59	0.010	0.16	0.1	0.21	1.5	0.1	0.18	4	2.9	0.2
1161425	Soil	21	0.38	138	0.008	1	1.29	0.006	0.13	0.1	0.06	0.7	<0.1	<0.05	4	0.7	<0.2
1161426	Soil	26	0.53	296	0.009	1	1.62	0.006	0.19	<0.1	0.08	1.5	0.1	0.07	4	0.7	<0.2
1161427	Soil	26	0.60	170	0.013	<1	1.40	0.005	0.14	<0.1	0.03	1.5	<0.1	0.06	4	0.6	<0.2
1161428	Soil	31	0.59	327	0.014	<1	1.33	0.008	0.15	<0.1	0.07	1.8	<0.1	0.07	4	1.3	0.2
1161429	Soil	31	0.61	199	0.015	<1	1.55	0.007	0.13	<0.1	0.05	1.5	0.1	0.10	4	2.1	<0.2
1161430	Soil	39	0.25	278	0.011	1	1.00	0.006	0.07	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
1161431	Soil	144	2.10	299	0.037	2	2.89	0.005	0.12	<0.1	0.09	5.3	0.1	<0.05	9	1.8	<0.2
1161432	Soil	756	10.38	47	0.004	29	0.29	0.002	<0.01	<0.1	0.04	4.2	<0.1	<0.05	<1	<0.5	<0.2
1161433	Soil	73	0.60	210	0.013	1	0.66	0.011	0.10	0.1	0.03	0.6	0.1	0.14	4	2.1	<0.2
1161434	Soil	227	2.30	311	0.012	4	1.43	0.008	0.11	<0.1	0.04	1.8	<0.1	0.10	4	1.7	<0.2
1161435	Soil	54	0.65	520	0.002	<1	1.42	0.006	0.07	<0.1	0.04	1.1	<0.1	<0.05	3	0.6	<0.2
1161436	Soil	41	0.29	142	0.019	1	1.13	0.013	0.10	0.1	0.01	1.1	0.2	0.11	6	0.9	0.2
1161437	Soil	46	0.81	85	0.150	2	1.89	0.005	0.04	0.1	0.16	3.1	<0.1	<0.05	6	0.5	<0.2
1161438	Soil	83	1.16	133	0.161	4	2.12	0.007	0.05	0.1	0.05	5.4	<0.1	<0.05	6	<0.5	<0.2
1161439	Soil	97	1.40	159	0.173	2	2.40	0.006	0.05	0.1	0.14	8.0	<0.1	<0.05	6	0.6	<0.2
1161440	Soil	108	1.33	231	0.089	4	3.14	0.008	0.07	0.1	0.12	11.3	0.1	0.08	8	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161441	Soil	0.5	90.6	4.6	74	<0.1	112.9	38.0	1062	4.92	4.8	4.1	2.1	19	0.3	1.0	<0.1	118	1.26	0.051	7
1161442	Soil	0.6	107.6	5.1	73	<0.1	128.0	34.3	1370	4.86	5.1	12.2	2.1	20	0.3	0.8	<0.1	106	0.94	0.067	9
1161443	Soil	0.3	115.6	2.6	86	<0.1	172.2	47.8	1672	6.22	22.6	16.5	1.0	11	0.2	4.6	<0.1	108	0.54	0.056	10
1161444	Soil	0.5	74.7	4.9	60	<0.1	101.1	25.9	703	3.91	15.6	10.8	1.2	16	0.1	1.7	<0.1	81	0.77	0.073	8
1161445	Soil	0.4	84.6	3.2	64	<0.1	141.3	39.6	1459	5.51	24.0	5.4	1.4	14	0.2	3.1	<0.1	113	0.91	0.043	7
1161446	Soil	0.3	76.3	2.1	70	<0.1	112.0	30.9	816	5.52	12.0	1.4	0.5	9	0.2	1.8	<0.1	99	0.24	0.025	3
1161447	Soil	0.7	102.3	2.8	91	0.1	164.0	42.3	1355	8.19	101.5	104.2	0.4	14	0.2	9.6	<0.1	111	1.01	0.070	8
1161448	Soil	0.3	76.3	1.3	52	<0.1	116.7	30.1	1981	6.94	23.5	5.9	0.4	17	0.2	2.8	<0.1	141	0.48	0.055	6
1161449	Soil	0.3	77.9	1.1	57	<0.1	140.7	35.7	1974	7.04	15.2	4.7	0.4	9	0.2	1.6	<0.1	127	0.35	0.051	5
1161450	Soil	0.2	89.6	0.9	53	<0.1	150.4	39.9	1117	6.19	4.5	1.8	0.4	16	0.2	1.7	<0.1	103	1.86	0.042	8
1161001	Soil	1.6	26.1	79.3	111	0.3	50.7	12.1	494	2.80	16.4	2.2	4.3	15	0.6	2.1	0.2	55	0.26	0.047	16
1161002	Soil	2.8	30.6	27.8	86	0.3	46.3	8.2	535	2.33	9.7	1.9	4.0	17	0.6	1.8	0.2	37	0.13	0.052	22
1161003	Soil	2.4	74.7	25.8	105	0.5	65.3	14.1	531	3.69	22.4	7.6	6.3	28	0.3	3.0	0.3	45	0.32	0.049	23
1161004	Soil	1.6	40.4	21.9	89	<0.1	75.4	22.7	762	3.91	17.2	6.9	5.9	19	0.2	2.6	0.2	70	0.42	0.039	17
1161005	Soil	6.8	33.9	68.0	98	0.4	29.0	8.0	367	5.76	27.1	1.0	8.2	11	0.5	5.3	0.3	64	0.10	0.170	15
1161006	Soil	6.5	230.8	87.2	228	0.8	59.4	17.5	421	5.56	39.1	5.5	5.7	8	0.7	7.0	0.3	70	0.11	0.043	18
1161007	Soil	4.4	90.7	87.1	208	0.5	76.8	27.6	926	4.96	24.6	5.1	3.6	14	0.9	9.0	0.2	82	0.41	0.088	16
1161008	Soil	7.5	63.4	70.2	162	0.2	65.5	23.4	837	5.09	33.7	3.2	6.2	12	0.8	5.7	0.3	67	0.36	0.128	17
1161009	Soil	0.6	43.6	12.3	76	<0.1	74.8	22.2	799	3.64	5.6	1.6	3.3	16	0.2	0.7	0.1	82	0.61	0.048	13
1161010	Soil	0.6	60.2	6.7	86	<0.1	86.7	31.6	886	4.64	3.6	<0.5	1.9	18	0.2	1.1	0.2	115	0.96	0.043	10
1161011	Soil	1.1	43.8	12.4	60	<0.1	74.9	18.0	591	3.83	9.9	1.4	2.3	13	0.5	1.1	0.2	121	0.37	0.051	8
1161012	Soil	1.1	46.8	7.6	62	<0.1	82.8	18.2	353	3.74	7.7	1.1	3.4	9	0.2	0.9	0.2	105	0.30	0.020	9
1161013	Soil	0.9	26.8	12.4	85	<0.1	83.8	23.3	630	4.19	8.0	1.3	3.8	9	0.4	0.8	0.2	107	0.37	0.034	10
1161014	Soil	1.0	41.2	12.1	101	<0.1	67.8	18.4	548	4.35	8.5	6.2	3.2	14	0.3	1.0	0.2	114	0.63	0.057	12
1161015	Soil	1.0	21.7	10.1	82	0.2	60.1	17.6	550	4.19	5.6	<0.5	2.8	11	0.5	0.6	0.2	112	0.50	0.037	9
1161016	Soil	2.4	150.3	12.3	61	0.2	127.6	22.6	759	4.34	8.9	7.1	2.4	21	<0.1	1.0	0.2	91	0.75	0.053	15
1161017	Soil	2.1	21.7	9.8	73	<0.1	66.5	15.9	484	4.84	5.2	0.7	2.1	15	0.5	1.5	0.2	193	0.58	0.031	8
1161018	Soil	0.8	33.7	9.4	83	<0.1	79.7	27.9	1221	4.25	4.8	1.0	1.7	16	0.8	0.7	0.2	110	0.65	0.051	8
1161019	Soil	1.1	27.0	9.7	73	0.1	60.6	18.8	609	3.42	3.5	1.0	1.0	15	0.7	1.0	0.2	88	0.64	0.076	9
1161020	Soil	1.0	15.4	7.4	66	<0.1	35.1	18.4	1142	2.93	1.9	<0.5	1.0	15	0.9	0.9	0.2	78	0.59	0.067	6



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161441	Soil	144	2.63	142	0.210	2	3.23	0.006	0.05	<0.1	0.04	12.6	<0.1	<0.05	9	<0.5	<0.2
1161442	Soil	171	2.81	113	0.207	2	3.37	0.006	0.06	<0.1	0.08	11.4	<0.1	<0.05	8	<0.5	<0.2
1161443	Soil	205	2.68	80	0.008	<1	2.92	0.003	0.07	<0.1	0.98	22.6	0.1	<0.05	7	<0.5	<0.2
1161444	Soil	136	1.81	124	0.036	<1	2.63	0.014	0.06	<0.1	0.57	11.9	<0.1	<0.05	6	<0.5	<0.2
1161445	Soil	180	2.13	85	0.009	2	2.82	0.006	0.06	<0.1	1.11	18.6	<0.1	<0.05	7	<0.5	<0.2
1161446	Soil	199	2.26	106	0.003	<1	2.90	0.003	0.04	<0.1	0.50	8.8	<0.1	<0.05	8	<0.5	<0.2
1161447	Soil	153	1.17	123	0.004	1	1.71	0.004	0.07	<0.1	1.39	25.4	<0.1	0.08	5	0.9	<0.2
1161448	Soil	174	1.51	169	0.002	<1	2.51	0.005	0.05	<0.1	1.97	19.5	<0.1	<0.05	6	<0.5	<0.2
1161449	Soil	178	2.29	162	0.002	<1	3.11	0.004	0.06	<0.1	2.43	18.6	<0.1	<0.05	8	<0.5	<0.2
1161450	Soil	187	1.97	39	<0.001	<1	2.70	0.007	0.02	<0.1	2.33	25.4	<0.1	<0.05	8	<0.5	<0.2
1161001	Soil	74	0.99	411	0.079	1	1.54	0.008	0.08	0.1	0.03	2.6	0.2	<0.05	5	<0.5	<0.2
1161002	Soil	65	0.50	348	0.023	<1	0.83	0.007	0.12	0.1	0.05	1.3	<0.1	0.05	4	0.9	<0.2
1161003	Soil	65	0.95	484	0.045	1	1.63	0.004	0.08	<0.1	0.15	3.5	<0.1	<0.05	4	1.4	<0.2
1161004	Soil	95	1.58	328	0.070	<1	2.16	0.005	0.07	<0.1	0.17	4.8	<0.1	<0.05	6	0.8	<0.2
1161005	Soil	55	0.64	173	0.079	<1	1.38	0.006	0.07	0.2	0.09	2.3	0.1	0.07	6	1.4	<0.2
1161006	Soil	94	1.03	289	0.030	2	2.02	0.006	0.07	0.2	0.20	3.1	0.3	<0.05	6	2.0	<0.2
1161007	Soil	93	1.36	149	0.042	1	2.12	0.005	0.07	0.1	0.24	5.2	0.2	<0.05	6	1.0	<0.2
1161008	Soil	75	1.34	177	0.088	<1	2.02	0.007	0.06	0.1	0.10	3.7	0.2	<0.05	6	1.3	<0.2
1161009	Soil	120	1.64	158	0.159	2	2.25	0.006	0.06	0.2	0.06	4.4	<0.1	<0.05	7	<0.5	<0.2
1161010	Soil	158	2.21	193	0.236	2	3.08	0.006	0.05	<0.1	0.15	6.8	<0.1	<0.05	8	<0.5	<0.2
1161011	Soil	177	1.17	108	0.160	<1	1.86	0.007	0.06	0.1	0.04	3.7	<0.1	<0.05	7	<0.5	<0.2
1161012	Soil	131	1.20	168	0.204	2	3.29	0.006	0.03	0.2	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
1161013	Soil	148	1.53	232	0.167	1	2.95	0.007	0.04	0.1	0.06	4.0	<0.1	<0.05	8	<0.5	<0.2
1161014	Soil	124	1.37	211	0.165	2	2.92	0.007	0.07	0.2	0.03	5.8	<0.1	<0.05	8	<0.5	<0.2
1161015	Soil	114	1.32	186	0.208	2	2.68	0.004	0.06	0.1	0.05	3.5	<0.1	<0.05	8	<0.5	<0.2
1161016	Soil	177	2.37	325	0.042	3	2.59	0.007	0.05	0.1	0.13	7.0	0.1	<0.05	7	0.7	<0.2
1161017	Soil	144	1.34	205	0.287	2	2.43	0.006	0.05	<0.1	0.05	3.7	<0.1	<0.05	12	<0.5	<0.2
1161018	Soil	150	1.17	240	0.128	2	2.56	0.011	0.07	0.1	0.03	3.6	<0.1	<0.05	9	<0.5	<0.2
1161019	Soil	102	1.04	253	0.109	2	2.02	0.006	0.10	0.1	0.05	3.3	<0.1	<0.05	7	<0.5	<0.2
1161020	Soil	76	0.58	171	0.178	2	1.63	0.018	0.07	0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2



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					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161021	Soil																							
1161022	Soil																							
1161023	Soil																							
1161024	Soil																							
1161025	Soil																							
1161026	Soil																							
1161027	Soil																							
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1161038	Soil																							
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1161049	Soil																							
1161050	Soil																							



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Project: Bolt
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000354.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161021	Soil	111	1.02	161	0.136	2	2.32	0.009	0.05	0.1	0.04	4.7	<0.1	<0.05	8	<0.5	<0.2
1161022	Soil	83	0.97	280	0.093	<1	1.72	0.006	0.08	0.1	0.05	2.5	<0.1	0.06	7	0.7	<0.2
1161023	Soil	28	0.30	188	0.039	<1	0.93	0.015	0.05	<0.1	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
1161024	Soil	71	0.79	95	0.124	<1	1.43	0.005	0.07	0.1	0.03	1.7	<0.1	<0.05	5	0.8	<0.2
1161025	Soil	38	0.46	151	0.038	<1	1.36	0.006	0.07	0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
1161026	Soil	32	0.26	108	0.041	1	0.96	0.006	0.06	<0.1	0.03	0.8	<0.1	<0.05	5	<0.5	<0.2
1161027	Soil	43	0.65	258	0.003	1	1.79	0.004	0.10	<0.1	0.09	1.8	0.1	<0.05	4	1.9	<0.2
1161028	Soil	288	1.69	447	0.023	2	2.18	0.008	0.10	<0.1	0.29	5.4	<0.1	0.10	6	2.0	<0.2
1161029	Soil	314	3.22	161	0.142	11	1.77	0.005	0.06	0.1	0.01	2.6	<0.1	<0.05	5	0.7	<0.2
1161030	Soil	48	0.13	324	0.023	<1	0.84	0.007	0.05	<0.1	0.01	0.7	<0.1	<0.05	7	1.0	<0.2
1161031	Soil	32	0.56	402	0.002	2	1.80	0.007	0.17	<0.1	0.17	2.2	0.2	0.11	5	8.4	<0.2
1161032	Soil	40	0.36	317	0.008	2	1.11	0.009	0.12	0.2	0.10	1.3	0.1	0.09	4	5.4	<0.2
1161033	Soil	58	0.27	135	0.044	2	1.08	0.007	0.06	0.1	0.03	1.6	<0.1	<0.05	9	0.8	<0.2
1161034	Soil	69	0.93	392	0.016	2	1.83	0.005	0.08	0.1	0.14	2.2	<0.1	<0.05	4	1.4	<0.2
1161035	Soil	85	0.95	293	0.048	1	2.31	0.005	0.07	0.2	0.10	2.5	0.2	<0.05	5	1.1	<0.2
1161036	Soil	49	0.58	270	0.020	1	2.29	0.003	0.09	0.2	0.02	2.2	0.2	<0.05	6	0.7	<0.2
1161037	Soil	37	0.70	414	0.003	2	2.16	0.006	0.21	<0.1	0.06	1.7	0.2	0.11	7	2.8	0.3
1161038	Soil	108	1.06	155	0.097	3	1.76	0.004	0.08	0.2	0.06	2.9	0.1	<0.05	6	0.5	<0.2
1161039	Soil	45	0.56	311	0.075	2	1.42	0.011	0.09	0.3	0.02	2.4	<0.1	<0.05	5	0.9	<0.2
1161040	Soil	84	0.92	359	0.093	2	1.29	0.007	0.10	0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
1161041	Soil	154	2.14	161	0.151	2	2.96	0.008	0.06	<0.1	0.07	4.2	<0.1	<0.05	9	<0.5	<0.2
1161042	Soil	147	1.74	231	0.114	2	2.65	0.012	0.10	0.1	0.03	5.2	<0.1	<0.05	8	<0.5	<0.2
1161043	Soil	80	1.10	610	0.057	2	1.80	0.008	0.10	0.1	0.19	4.5	0.1	<0.05	5	1.2	<0.2
1161044	Soil	169	1.60	272	0.141	2	1.90	0.007	0.11	0.2	0.05	3.9	<0.1	<0.05	6	<0.5	<0.2
1161045	Soil	75	0.70	189	0.033	<1	1.65	0.010	0.07	0.2	0.07	2.1	0.2	<0.05	6	0.6	<0.2
1161046	Soil	109	1.29	451	0.057	3	1.82	0.012	0.08	0.1	0.19	6.0	<0.1	0.05	5	0.8	<0.2
1161047	Soil	32	0.18	40	0.139	2	0.64	0.016	0.04	<0.1	0.07	1.2	<0.1	<0.05	4	<0.5	<0.2
1161048	Soil	20	0.49	206	0.116	2	1.20	0.006	0.07	0.6	<0.01	1.6	0.1	<0.05	5	<0.5	<0.2
1161049	Soil	20	0.51	1228	0.032	2	1.48	0.020	0.10	0.3	0.34	2.3	0.3	0.10	3	1.9	<0.2
1161050	Soil	9	0.23	205	0.051	<1	0.75	0.008	0.07	0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1178101	Soil	0.9	94.2	6.1	76	<0.1	100.5	31.0	897	4.34	9.0	2.0	3.7	17	0.2	0.9	0.1	99	1.05	0.058
1178102	Soil	0.9	80.7	5.3	44	0.1	55.1	15.5	1607	2.00	1.7	2.1	<0.1	79	0.5	0.4	<0.1	42	3.23	0.127
1178103	Soil	0.3	11.0	2.1	19	<0.1	10.0	3.7	97	1.09	1.6	<0.5	0.3	5	<0.1	0.4	<0.1	38	0.10	0.022
1178104	Soil	0.7	87.9	5.7	34	0.1	50.1	15.4	751	2.22	7.3	34.4	0.4	23	0.3	0.6	0.1	65	0.95	0.097
1178105	Soil	0.1	12.4	1.0	7	<0.1	4.4	2.3	142	0.48	1.9	2.1	<0.1	11	<0.1	0.2	<0.1	19	0.27	0.043
1178106	Soil	0.8	128.0	7.7	25	0.2	66.5	17.7	998	1.83	6.8	2.3	0.3	40	<0.1	0.6	<0.1	55	1.30	0.175
1178107	Soil	1.4	72.8	7.7	92	0.5	374.6	28.1	465	2.93	11.3	13.8	2.6	19	0.2	3.5	0.1	54	0.53	0.073
1178108	Soil	0.7	52.1	5.4	59	0.2	317.2	25.6	1084	2.18	7.9	2.2	0.9	33	0.5	1.1	<0.1	56	1.47	0.078
1178109	Soil	0.9	57.9	3.0	92	0.3	19.1	9.1	517	4.37	1.0	2.1	0.4	5	0.2	0.5	<0.1	182	0.04	0.069
1178110	Soil	1.9	37.9	9.8	86	0.1	74.0	39.9	2948	2.61	12.1	3.5	0.9	7	0.2	0.9	0.2	55	0.05	0.052
1178111	Soil	3.6	43.1	11.0	73	0.5	102.4	14.0	360	3.26	9.2	2.2	1.8	10	0.3	1.2	0.2	51	0.06	0.063
1178112	Soil	1.2	44.7	12.9	76	0.2	95.8	13.2	565	3.30	10.5	4.8	6.4	9	0.1	0.8	0.2	37	0.08	0.020
1178113	Soil	4.8	52.5	24.8	30	1.5	10.7	2.8	108	3.00	12.8	134.1	6.4	34	0.2	2.3	0.4	43	0.03	0.058
1178114	Soil	2.0	24.9	13.2	73	0.7	36.4	11.3	330	3.14	12.1	14.0	5.0	11	0.3	0.9	0.2	59	0.12	0.044
1178115	Soil	0.2	7.0	1.3	4	0.7	1.5	0.9	18	0.34	<0.5	2.4	<0.1	6	<0.1	0.1	<0.1	10	0.06	0.036
1178116	Soil	3.8	56.1	19.9	98	0.4	46.3	11.1	311	3.69	27.5	9.8	6.0	47	0.5	2.8	0.3	49	0.05	0.054
1178117	Soil	2.3	20.7	13.2	62	<0.1	21.1	5.9	277	2.41	5.9	0.9	3.1	9	0.3	1.3	0.2	50	0.07	0.078
1178118	Soil	1.3	19.2	14.5	35	0.2	12.5	3.2	150	1.21	3.4	1.5	0.5	8	0.6	0.7	0.2	33	0.07	0.023
1178119	Soil	2.1	36.1	19.9	93	0.2	47.4	13.7	468	3.58	14.0	9.5	2.5	15	0.4	2.3	0.2	49	0.12	0.062
1178120	Soil	1.7	13.0	20.5	56	0.4	26.7	7.4	372	3.23	11.7	0.8	4.7	13	0.5	1.4	0.2	67	0.17	0.095



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178101	Soil	125	1.84	158	0.189	18	2.78	0.009	0.06	0.1	0.05	11.7	<0.1	<0.05	8	<0.5	<0.2
1178102	Soil	84	0.88	127	0.057	8	1.51	0.008	0.03	<0.1	0.12	2.3	<0.1	0.21	4	0.9	<0.2
1178103	Soil	22	0.16	28	0.073	2	0.41	0.023	0.03	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
1178104	Soil	81	0.91	113	0.045	2	1.68	0.020	0.04	<0.1	0.08	4.8	<0.1	0.11	5	0.7	<0.2
1178105	Soil	7	0.08	29	0.026	<1	0.39	0.045	0.02	<0.1	0.01	0.7	<0.1	<0.05	1	<0.5	<0.2
1178106	Soil	80	0.58	228	0.022	2	1.63	0.019	0.04	<0.1	0.18	4.5	<0.1	0.12	4	1.0	<0.2
1178107	Soil	611	2.24	164	0.034	2	2.06	0.007	0.06	<0.1	0.07	3.8	<0.1	<0.05	5	0.7	<0.2
1178108	Soil	1784	1.89	142	0.016	1	1.57	0.012	0.02	<0.1	0.03	5.1	<0.1	<0.05	3	<0.5	<0.2
1178109	Soil	3	1.26	52	0.015	<1	2.17	0.008	0.02	<0.1	<0.01	8.2	<0.1	<0.05	11	<0.5	0.3
1178110	Soil	79	0.32	107	0.039	1	1.13	0.010	0.05	<0.1	0.02	1.4	0.1	<0.05	6	0.6	<0.2
1178111	Soil	148	1.25	134	0.015	3	1.45	0.007	0.06	<0.1	0.03	1.7	<0.1	<0.05	5	0.8	<0.2
1178112	Soil	119	1.20	332	0.020	2	2.18	0.005	0.07	<0.1	0.03	2.1	<0.1	<0.05	5	0.6	<0.2
1178113	Soil	26	0.27	245	0.020	1	1.20	0.004	0.14	<0.1	0.04	1.4	0.1	0.06	5	1.9	<0.2
1178114	Soil	60	0.79	213	0.067	3	1.93	0.006	0.07	0.2	0.05	2.6	0.1	<0.05	6	<0.5	<0.2
1178115	Soil	3	0.04	19	0.011	<1	0.38	0.031	0.02	<0.1	0.03	0.2	<0.1	<0.05	1	<0.5	<0.2
1178116	Soil	51	0.71	335	0.013	<1	2.08	0.005	0.10	0.1	0.06	2.2	0.1	0.06	5	1.9	<0.2
1178117	Soil	30	0.33	120	0.069	<1	1.26	0.008	0.06	0.1	<0.01	1.4	<0.1	<0.05	6	0.7	<0.2
1178118	Soil	20	0.20	208	0.033	<1	1.01	0.010	0.06	<0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
1178119	Soil	61	0.80	228	0.028	<1	1.85	0.004	0.07	0.1	0.04	2.1	<0.1	<0.05	5	1.1	<0.2
1178120	Soil	52	0.62	245	0.070	<1	1.61	0.005	0.07	0.2	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2



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Project:

Bolt

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Part 1

QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1178010	Soil	0.6	13.6	17.6	48	<0.1	17.7	8.4	279	2.22	6.7	1.6	6.5	31	0.2	0.7	0.1	44	0.43	0.028	18
REP 1178010	QC	0.5	13.2	16.8	43	<0.1	17.3	7.8	255	2.01	6.4	1.0	6.0	29	0.2	0.7	0.1	40	0.40	0.027	17
1178025	Soil	7.9	72.5	15.1	146	1.4	60.6	14.9	526	3.99	24.8	12.8	4.0	55	0.6	6.0	0.2	80	0.23	0.096	16
REP 1178025	QC	7.4	72.8	15.5	141	1.4	59.0	14.4	495	3.85	24.5	14.7	3.9	52	0.5	5.7	0.2	77	0.22	0.091	15
1161102	Soil	3.9	41.2	18.9	74	0.6	57.9	8.3	189	3.55	29.9	3.3	1.8	22	0.2	2.5	0.3	48	0.06	0.067	16
REP 1161102	QC	3.7	42.2	20.8	74	0.6	58.9	8.4	220	3.57	30.2	4.1	1.9	22	<0.1	2.7	0.3	49	0.07	0.074	18
1161112	Soil	1.2	94.4	22.3	135	0.2	109.1	26.0	778	4.22	16.3	4.0	2.0	65	1.2	3.2	0.1	89	1.38	0.062	19
REP 1161112	QC	1.0	87.8	21.3	120	0.2	100.6	25.1	717	4.00	15.6	2.3	2.0	58	1.0	3.0	0.1	81	1.24	0.057	17
1161126	Soil	2.6	39.3	20.5	98	0.4	50.3	12.7	782	3.97	12.9	1.3	3.5	9	0.3	2.0	0.3	78	0.08	0.069	14
REP 1161126	QC	2.6	38.8	18.9	98	0.4	48.8	12.7	804	4.16	12.9	1.4	3.5	9	0.3	2.0	0.2	82	0.09	0.070	14
1161146	Soil	1.2	40.9	7.2	72	0.1	39.8	14.3	778	2.57	3.7	1.6	0.6	13	1.7	1.2	0.2	81	0.49	0.075	6
REP 1161146	QC	1.3	43.3	7.5	73	0.1	41.1	14.8	818	2.63	4.6	3.8	0.6	14	1.6	1.2	0.2	81	0.47	0.081	7
1161060	Soil	3.3	72.4	72.7	96	1.0	24.7	9.8	642	1.78	16.0	2.1	2.4	52	1.4	2.2	0.3	24	0.20	0.048	13
REP 1161060	QC	3.3	72.7	72.7	97	0.9	25.4	9.7	660	1.85	16.7	3.5	2.7	53	1.4	2.3	0.3	27	0.21	0.048	15
1161077	Soil	1.9	4.6	79.8	6	0.5	1.6	0.7	21	3.18	14.8	0.8	9.6	100	<0.1	2.6	<0.1	6	0.02	0.050	18
REP 1161077	QC	1.7	4.5	77.6	4	0.5	1.7	0.7	20	3.08	13.9	<0.5	9.5	100	<0.1	2.7	<0.1	6	0.02	0.048	18
1178052	Soil	0.6	31.6	7.0	55	0.2	40.5	24.9	880	3.91	2.6	1.3	1.8	15	0.2	0.5	0.1	120	0.33	0.041	7
REP 1178052	QC	0.6	30.6	6.9	54	0.2	38.1	23.2	854	3.77	2.5	4.2	1.8	15	0.3	0.5	<0.1	116	0.34	0.042	7
1178062	Soil	0.9	6.9	55.6	7	0.3	2.1	0.7	21	1.66	35.4	4.1	26.4	26	<0.1	2.5	0.5	3	<0.01	0.023	50
REP 1178062	QC	1.0	6.7	58.8	7	0.3	2.0	0.6	20	1.72	37.0	5.0	27.4	26	<0.1	2.4	0.5	3	<0.01	0.024	47
1178091	Soil	1.0	16.6	5.8	71	<0.1	31.9	9.7	351	3.23	3.0	0.6	1.3	7	0.6	0.7	0.2	91	0.25	0.059	6
REP 1178091	QC	1.0	17.3	6.1	74	<0.1	33.0	10.0	361	3.32	2.9	0.5	1.3	7	0.6	0.8	0.2	91	0.25	0.058	7
1161410	Soil	1.1	15.8	25.4	52	<0.1	18.5	7.3	279	2.05	12.2	1.2	8.4	18	0.1	1.2	0.2	39	0.27	0.026	22
REP 1161410	QC	1.1	15.5	19.3	52	<0.1	18.2	7.2	276	2.05	12.4	2.1	8.2	19	0.1	1.2	0.2	39	0.28	0.025	22
1161416	Soil	2.3	36.4	29.1	54	0.3	18.2	10.2	784	2.50	19.6	1.9	0.9	19	0.3	2.6	0.4	45	0.31	0.057	16
REP 1161416	QC	2.4	36.6	28.8	52	0.4	19.1	9.9	782	2.55	19.7	2.5	0.9	19	0.3	2.5	0.4	45	0.33	0.058	16
1161428	Soil	4.1	106.9	21.4	166	0.5	73.1	23.8	1127	3.39	13.0	7.5	6.7	66	0.7	4.7	0.3	29	0.08	0.066	28
REP 1161428	QC	4.1	109.4	21.2	171	0.5	71.8	23.9	1140	3.41	12.8	7.6	6.5	66	0.6	5.0	0.3	29	0.07	0.067	26



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Part 2

QUALITY CONTROL REPORT

WHI11000354.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1178010	Soil	35	0.90	368	0.211	1	1.62	0.006	0.05	0.4	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 1178010	QC	32	0.85	345	0.194	1	1.50	0.006	0.04	0.4	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1178025	Soil	80	0.97	415	0.093	1	1.67	0.016	0.15	0.2	0.13	3.5	<0.1	0.24	6	5.7	<0.2
REP 1178025	QC	79	0.95	389	0.089	1	1.65	0.016	0.14	0.2	0.14	3.4	0.1	0.25	6	4.6	0.2
1161102	Soil	88	0.63	216	0.024	<1	1.28	0.009	0.08	<0.1	0.04	1.3	<0.1	0.05	5	2.0	<0.2
REP 1161102	QC	89	0.68	229	0.033	2	1.40	0.009	0.10	0.1	0.04	1.5	<0.1	0.07	5	2.4	<0.2
1161112	Soil	140	1.74	305	0.083	3	2.55	0.011	0.10	0.1	0.50	7.6	0.1	0.19	6	3.3	<0.2
REP 1161112	QC	128	1.62	275	0.075	4	2.30	0.010	0.09	0.1	0.49	7.0	0.1	0.13	6	2.4	<0.2
1161126	Soil	91	0.73	165	0.108	1	1.73	0.004	0.06	0.2	0.04	2.3	<0.1	<0.05	7	0.6	<0.2
REP 1161126	QC	91	0.75	163	0.108	2	1.71	0.004	0.06	0.2	0.04	2.3	<0.1	<0.05	7	0.9	<0.2
1161146	Soil	72	0.36	173	0.142	1	1.16	0.008	0.06	0.1	0.08	3.3	<0.1	0.08	5	<0.5	<0.2
REP 1161146	QC	75	0.39	176	0.168	<1	1.17	0.008	0.07	0.2	0.08	3.2	<0.1	0.08	5	0.5	<0.2
1161060	Soil	21	0.23	575	0.021	1	0.87	0.012	0.11	0.2	0.10	1.2	0.1	<0.05	3	1.2	<0.2
REP 1161060	QC	22	0.25	615	0.028	2	0.92	0.013	0.14	0.2	0.09	1.2	0.2	<0.05	4	1.3	<0.2
1161077	Soil	5	0.02	209	0.333	1	0.51	0.026	0.39	0.1	0.03	0.3	0.3	0.54	<1	<0.5	<0.2
REP 1161077	QC	4	0.02	192	0.322	<1	0.50	0.026	0.38	0.1	0.05	0.4	0.3	0.22	<1	0.6	<0.2
1178052	Soil	86	1.30	183	0.435	<1	2.48	0.006	0.05	<0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
REP 1178052	QC	85	1.26	179	0.440	1	2.38	0.006	0.05	<0.1	0.02	4.4	<0.1	<0.05	8	<0.5	<0.2
1178062	Soil	5	0.03	264	0.006	<1	0.38	0.007	0.28	<0.1	0.04	0.4	0.2	0.44	<1	<0.5	<0.2
REP 1178062	QC	5	0.03	266	0.005	<1	0.38	0.010	0.29	<0.1	0.03	0.4	0.2	0.48	<1	<0.5	<0.2
1178091	Soil	76	0.51	91	0.188	3	1.38	0.008	0.05	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
REP 1178091	QC	79	0.53	92	0.191	3	1.39	0.008	0.05	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
1161410	Soil	31	0.67	384	0.148	2	1.36	0.006	0.07	0.3	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
REP 1161410	QC	30	0.66	377	0.149	2	1.36	0.006	0.07	0.2	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
1161416	Soil	25	0.28	358	0.023	<1	1.07	0.006	0.08	0.1	0.05	0.9	0.2	<0.05	5	<0.5	<0.2
REP 1161416	QC	26	0.29	359	0.023	<1	1.07	0.007	0.08	0.1	0.04	1.0	0.2	<0.05	5	<0.5	<0.2
1161428	Soil	31	0.59	327	0.014	<1	1.33	0.008	0.15	<0.1	0.07	1.8	<0.1	0.07	4	1.3	0.2
REP 1161428	QC	31	0.58	321	0.013	1	1.32	0.008	0.14	<0.1	0.08	1.6	<0.1	0.07	4	1.1	<0.2



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Part 1

QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1161003	Soil	2.4	74.7	25.8	105	0.5	65.3	14.1	531	3.69	22.4	7.6	6.3	28	0.3	3.0	0.3	45	0.32	0.049
REP 1161003	QC	2.3	74.7	24.9	107	0.5	66.0	13.5	534	3.53	22.0	6.8	6.0	28	0.3	2.9	0.2	43	0.30	0.046
1161017	Soil	2.1	21.7	9.8	73	<0.1	66.5	15.9	484	4.84	5.2	0.7	2.1	15	0.5	1.5	0.2	193	0.58	0.031
REP 1161017	QC	1.9	20.9	9.5	72	<0.1	63.4	15.3	464	4.72	4.6	0.7	2.1	15	0.5	1.4	0.2	192	0.60	0.032
1161040	Soil	1.2	16.8	18.3	119	0.2	43.8	15.7	892	2.46	7.0	2.4	3.9	18	1.5	1.1	0.1	60	0.47	0.045
REP 1161040	QC	1.1	17.2	18.8	116	0.1	44.9	15.4	883	2.43	7.4	0.6	3.8	18	1.5	1.1	0.1	61	0.47	0.044
1178103	Soil	0.3	11.0	2.1	19	<0.1	10.0	3.7	97	1.09	1.6	<0.5	0.3	5	<0.1	0.4	<0.1	38	0.10	0.022
REP 1178103	QC	0.3	11.5	2.0	18	<0.1	10.0	3.9	96	1.17	1.9	1.1	0.3	5	<0.1	0.3	<0.1	40	0.10	0.025
Reference Materials																				
STD DS8	Standard	13.1	117.5	125.1	337	1.8	38.4	7.6	620	2.50	27.1	109.9	7.3	73	2.6	6.8	7.4	41	0.68	0.083
STD DS8	Standard	14.2	123.4	131.5	355	1.9	41.6	8.0	663	2.68	29.1	110.7	7.6	79	2.8	6.6	7.3	44	0.73	0.084
STD DS8	Standard	14.2	121.5	132.6	337	2.1	40.8	8.2	658	2.63	28.0	128.3	6.7	64	2.5	5.7	6.7	45	0.72	0.086
STD DS8	Standard	14.4	121.7	122.1	337	1.8	41.0	8.2	659	2.62	29.3	125.8	7.1	66	2.5	5.5	6.6	45	0.75	0.084
STD DS8	Standard	12.6	98.9	115.6	307	1.6	35.0	7.1	598	2.32	25.2	97.0	6.6	66	2.1	5.6	6.1	38	0.62	0.072
STD DS8	Standard	13.3	108.9	124.6	325	1.7	37.5	7.5	623	2.44	26.5	112.9	7.4	72	2.6	6.2	6.7	41	0.74	0.076
STD DS8	Standard	12.6	106.6	132.1	302	1.7	36.8	7.1	584	2.34	24.4	111.0	7.0	68	2.4	5.5	7.3	39	0.66	0.073
STD DS8	Standard	12.9	105.0	131.0	302	1.6	35.0	7.3	567	2.37	24.9	106.6	7.0	69	2.3	5.8	7.1	40	0.66	0.074
STD DS8	Standard	13.6	113.4	127.4	352	1.8	41.8	7.6	647	2.62	27.2	115.6	7.5	72	2.5	6.3	7.0	42	0.71	0.084
STD DS8	Standard	13.5	107.0	129.6	326	1.8	38.5	7.4	614	2.43	26.0	104.0	7.4	72	2.6	5.9	6.9	41	0.67	0.080
STD DS8	Standard	13.2	108.7	128.5	320	1.8	37.7	7.2	610	2.44	26.9	106.5	7.2	73	2.5	6.2	6.7	41	0.70	0.081
STD DS8	Standard	13.7	111.7	132.0	336	1.8	39.3	7.6	629	2.51	27.6	109.8	7.2	75	2.8	6.2	6.9	42	0.70	0.081
STD DS8	Standard	13.3	118.8	124.6	320	1.8	38.9	7.7	592	2.45	25.8	102.1	6.4	65	2.4	5.9	6.7	42	0.68	0.082
STD DS8	Standard	14.2	116.7	123.2	317	1.8	38.2	7.6	605	2.44	25.8	107.7	6.8	66	2.6	6.1	6.9	43	0.67	0.078
STD DS8	Standard	13.4	115.2	124.5	312	1.8	38.4	7.7	594	2.41	24.1	110.6	6.8	68	2.4	6.0	7.3	44	0.66	0.078
STD DS8	Standard	14.6	122.0	125.7	327	1.8	40.4	8.0	616	2.48	26.4	114.5	7.3	69	2.7	6.1	7.0	46	0.69	0.080
STD DS8	Standard	14.4	124.3	123.8	331	1.9	41.7	8.6	644	2.53	27.8	114.1	6.7	64	2.3	5.2	6.0	46	0.70	0.089
STD DS8	Standard	14.5	124.3	124.5	337	2.0	43.4	8.6	647	2.61	27.3	112.3	6.7	64	2.3	5.3	5.9	45	0.73	0.087
STD DS8	Standard	12.5	102.0	138.2	306	1.7	35.2	7.2	593	2.37	25.6	115.0	7.0	70	2.2	5.8	6.5	41	0.66	0.076
STD DS8	Standard	12.6	99.7	130.9	300	1.5	37.7	7.0	586	2.32	23.7	110.7	6.7	67	2.2	5.3	6.1	38	0.63	0.074



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Part 2

QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161003	Soil	65	0.95	484	0.045	1	1.63	0.004	0.08	<0.1	0.15	3.5	<0.1	<0.05	4	1.4	<0.2
REP 1161003	QC	61	0.91	481	0.038	<1	1.55	0.004	0.07	<0.1	0.14	3.4	<0.1	<0.05	5	1.0	<0.2
1161017	Soil	144	1.34	205	0.287	2	2.43	0.006	0.05	<0.1	0.05	3.7	<0.1	<0.05	12	<0.5	<0.2
REP 1161017	QC	141	1.28	202	0.281	<1	2.35	0.006	0.05	<0.1	0.05	3.9	<0.1	<0.05	12	<0.5	<0.2
1161040	Soil	84	0.92	359	0.093	2	1.29	0.007	0.10	0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
REP 1161040	QC	85	0.88	360	0.095	2	1.34	0.008	0.11	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1178103	Soil	22	0.16	28	0.073	2	0.41	0.023	0.03	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
REP 1178103	QC	22	0.16	28	0.076	2	0.47	0.025	0.03	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.62	296	0.119	3	0.94	0.092	0.42	3.0	0.19	2.1	5.4	0.17	5	6.7	5.5
STD DS8	Standard	124	0.66	283	0.120	2	0.99	0.101	0.45	2.8	0.21	2.0	5.7	0.17	5	5.9	5.6
STD DS8	Standard	126	0.64	292	0.116	4	0.95	0.091	0.45	3.3	0.19	2.0	5.7	0.20	5	5.0	5.1
STD DS8	Standard	129	0.65	294	0.125	3	0.98	0.091	0.45	3.1	0.22	2.3	5.5	0.16	5	5.3	5.5
STD DS8	Standard	110	0.58	260	0.113	2	0.86	0.090	0.40	2.7	0.18	1.9	4.8	0.20	5	4.6	4.7
STD DS8	Standard	118	0.64	271	0.118	2	0.95	0.094	0.43	2.9	0.19	2.0	5.2	0.17	5	5.2	5.2
STD DS8	Standard	114	0.60	258	0.114	3	0.87	0.082	0.40	2.9	0.19	1.7	5.2	0.13	4	4.2	5.1
STD DS8	Standard	112	0.59	259	0.115	2	0.88	0.082	0.39	3.0	0.19	1.8	5.1	0.14	4	4.8	5.8
STD DS8	Standard	122	0.63	284	0.128	3	0.99	0.102	0.43	2.9	0.20	2.2	5.7	0.17	5	6.1	5.4
STD DS8	Standard	118	0.60	270	0.116	2	0.91	0.081	0.41	3.0	0.20	2.0	5.7	0.15	5	5.7	5.3
STD DS8	Standard	115	0.62	286	0.117	3	0.93	0.089	0.43	3.2	0.18	2.2	5.6	0.14	5	5.1	5.3
STD DS8	Standard	120	0.63	290	0.121	3	1.00	0.093	0.45	3.1	0.21	2.1	5.6	0.16	5	5.8	5.4
STD DS8	Standard	119	0.59	274	0.127	2	0.90	0.080	0.41	3.0	0.21	2.0	5.4	0.15	5	5.2	4.9
STD DS8	Standard	119	0.59	277	0.133	2	0.90	0.087	0.40	3.1	0.20	2.1	5.2	0.15	5	5.5	4.9
STD DS8	Standard	122	0.59	280	0.131	3	0.90	0.090	0.41	3.2	0.19	2.2	5.5	0.12	5	4.7	4.9
STD DS8	Standard	126	0.61	279	0.141	2	0.94	0.094	0.41	3.0	0.19	2.4	5.4	0.12	5	5.2	5.0
STD DS8	Standard	130	0.63	259	0.121	4	0.90	0.095	0.44	3.0	0.20	2.1	5.3	0.15	5	6.6	5.0
STD DS8	Standard	128	0.63	268	0.121	5	0.88	0.091	0.48	2.9	0.19	2.2	5.1	0.16	5	6.2	5.4
STD DS8	Standard	110	0.60	268	0.110	3	0.82	0.082	0.41	2.8	0.17	1.8	5.0	0.11	4	4.4	4.9
STD DS8	Standard	106	0.57	265	0.110	2	0.92	0.079	0.39	2.7	0.21	1.8	4.9	0.11	4	5.0	4.8



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Project: Bolt

Report Date: August 05, 2011

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QUALITY CONTROL REPORT

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		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	13.7	118.8	137.5	337	1.9	39.7	8.2	649	2.59	27.6	109.5	7.4	73	2.2	6.0	7.3	45	0.68	0.082	15
STD DS8	Standard	13.4	114.3	135.8	321	1.9	40.0	8.0	636	2.58	26.4	106.8	7.6	72	2.4	5.9	7.3	43	0.70	0.081	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Vancouver BC V6C 3K4 Canada

Project: Bolt

Report Date: August 05, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000354.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
STD DS8	Standard	129	0.66	295	0.126	3	0.94	0.088	0.43	3.2	0.23	2.1	5.7	0.10	5	5.4
STD DS8	Standard	123	0.63	283	0.123	3	0.92	0.108	0.43	3.1	0.23	2.2	5.8	0.08	5	6.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Vancouver BC V6C 3K4 Canada

Submitted By: Greg Dawson
Receiving Lab: Canada-Whitehorse
Received: June 29, 2011
Report Date: August 05, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000347.1

CLIENT JOB INFORMATION

Project: Bolt
Shipment ID: BLT-2011-S-01
P.O. Number
Number of Samples:

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Hugh Baker
Jack Cote
Andrew Caldwell
Gilles Dessureau

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	53	Dry at 60C			WHI
SS80	53	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	53	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Vancouver BC V6C 3K4 Canada

Project: Bolt
Report Date: August 05, 2011

Page: 2 of 3 **Part** 1

CERTIFICATE OF ANALYSIS

WHI11000347.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1178123	Soil	0.8	4.8	3.7	7	<0.1	4.2	0.8	23	0.25	<0.5	1.3	<0.1	7	0.1	0.2	<0.1	8	0.04	0.018	4
1178124	Soil	0.9	16.6	9.8	12	0.2	5.1	1.0	20	0.21	<0.5	0.8	0.1	23	0.7	0.2	<0.1	5	0.21	0.020	12
1178125	Soil	0.7	10.2	28.6	31	0.4	2.7	1.5	98	0.52	0.8	<0.5	2.6	11	0.3	0.3	0.2	14	0.09	0.010	9
1178126	Soil	2.0	129.9	52.8	256	0.5	35.0	13.7	616	2.58	22.8	6.9	4.6	78	3.2	2.5	0.3	41	0.81	0.054	33
1178127	Soil	1.7	32.0	71.1	100	0.3	11.0	5.2	336	1.15	12.6	5.9	1.4	20	0.9	1.1	0.2	20	0.20	0.029	11
1178128	Soil	3.2	32.1	204.1	69	0.3	12.0	4.6	234	2.98	89.5	7.1	7.1	14	0.3	4.6	0.5	41	0.13	0.128	22
1178129	Soil	2.8	65.5	58.2	156	0.8	37.3	9.8	348	2.89	24.0	6.0	3.9	36	0.6	2.8	0.3	46	0.41	0.062	36
1178130	Soil	2.1	17.1	17.2	53	0.3	16.3	4.4	156	1.90	9.1	1.5	2.2	15	0.2	1.5	0.2	39	0.11	0.030	19
1178131	Soil	1.8	54.6	13.9	98	2.2	25.5	6.1	470	1.75	12.3	3.8	0.6	37	0.7	1.2	0.2	29	0.51	0.182	31
1178132	Soil	10.8	53.8	30.2	118	2.2	31.5	6.2	273	3.19	24.0	12.2	0.9	179	1.6	4.3	0.4	62	0.20	0.241	21
1159001	Soil	0.6	7.5	33.5	50	0.1	10.5	5.9	112	0.67	7.3	<0.5	4.8	21	0.2	0.6	<0.1	6	0.23	0.049	32
1159002	Soil	1.3	10.5	74.3	60	0.3	9.5	15.1	268	1.49	12.3	<0.5	11.8	36	0.3	1.2	<0.1	10	0.17	0.056	34
1159003	Soil	1.6	4.8	41.7	32	0.2	4.8	1.6	85	1.63	8.5	<0.5	7.3	47	0.4	1.4	0.2	26	0.61	0.039	21
1159004	Soil	9.3	114.3	330.2	197	0.6	18.0	6.1	214	3.95	61.4	7.2	7.1	18	0.7	6.0	0.7	43	0.16	0.073	17
1159005	Soil	49.3	259.2	1096	312	0.4	8.6	3.2	353	4.36	122.8	1.9	6.9	21	1.0	27.7	0.9	118	0.13	0.065	16
1159006	Soil	2.5	4.6	53.2	9	2.5	4.6	0.9	20	1.21	111.2	13.6	12.2	10	<0.1	6.7	0.3	14	0.02	0.026	40
1159007	Soil	3.0	40.8	21.4	99	0.1	62.9	18.5	680	4.96	18.3	<0.5	3.4	31	0.3	2.3	0.2	66	0.35	0.079	17
1159008	Soil	1.5	33.9	18.6	76	0.2	55.4	16.0	386	3.96	11.5	1.5	4.2	13	0.5	1.5	0.2	82	0.21	0.039	14
1159009	Soil	5.5	111.4	23.7	415	0.3	189.9	39.2	3834	5.43	21.4	7.4	1.3	26	9.2	4.2	0.3	46	0.31	0.179	13
1159010	Soil	2.0	32.4	15.7	92	0.3	33.3	12.2	586	2.91	4.8	<0.5	1.6	13	2.2	2.6	0.3	81	0.20	0.129	14
1159011	Soil	1.5	30.6	16.5	72	0.7	36.0	13.0	473	3.46	6.5	0.6	1.1	16	1.1	2.0	0.2	79	0.28	0.076	11
1159012	Soil	2.3	35.3	12.2	91	0.5	47.5	12.9	500	4.13	10.6	1.6	3.8	18	0.6	2.0	0.2	80	0.26	0.096	16
1161344	Soil	1.1	55.7	12.7	56	<0.1	144.0	39.8	1082	4.40	7.4	0.9	0.7	8	0.2	1.7	<0.1	104	0.46	0.053	4
1161345	Soil	0.9	8.4	24.7	29	0.2	4.7	1.0	55	0.70	0.8	<0.5	0.3	22	0.5	0.4	<0.1	6	0.05	0.072	18
1161346	Soil	1.9	5.8	19.5	35	0.2	11.5	4.2	192	1.17	3.6	0.8	3.7	16	0.2	0.4	0.1	33	0.20	0.030	17
1161347	Soil	1.8	6.3	24.8	45	0.3	11.5	4.7	196	1.69	7.3	<0.5	8.4	28	0.2	0.8	0.2	26	0.31	0.024	25
1161348	Soil	1.1	5.7	25.9	50	<0.1	9.6	3.8	190	1.85	8.0	<0.5	5.2	23	0.5	0.9	0.2	38	0.26	0.020	19
1161349	Soil	1.0	220.0	371.4	211	1.0	10.9	2.2	253	0.70	18.0	4.5	0.4	111	2.6	2.5	0.1	8	1.83	0.106	29
1161350	Soil	0.9	289.9	1491	131	1.5	24.0	5.3	776	1.01	13.4	4.8	1.2	92	1.7	1.5	0.2	11	1.60	0.136	51
1161251	Soil	0.4	37.5	143.5	42	0.4	7.6	3.1	254	0.47	4.4	2.2	0.2	40	1.0	0.6	<0.1	9	0.63	0.055	6



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Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1178123	Soil	6	0.01	64	0.007	<1	0.13	0.016	0.02	<0.1	0.02	0.3	<0.1	0.06	<1	<0.5	<0.2
1178124	Soil	6	0.02	227	0.006	<1	0.25	0.012	0.02	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5	<0.2
1178125	Soil	6	0.13	319	0.011	<1	0.56	0.011	0.04	<0.1	<0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
1178126	Soil	93	1.14	773	0.068	1	1.52	0.009	0.06	0.3	0.39	8.6	0.9	0.06	5	1.7	<0.2
1178127	Soil	21	0.40	417	0.028	<1	0.91	0.010	0.05	0.2	0.09	1.2	1.1	<0.05	3	<0.5	<0.2
1178128	Soil	26	0.56	248	0.089	<1	1.19	0.008	0.08	0.2	0.11	1.4	2.0	0.10	6	<0.5	<0.2
1178129	Soil	43	0.67	952	0.013	<1	1.75	0.008	0.10	0.2	0.26	2.9	0.2	0.05	6	1.0	<0.2
1178130	Soil	21	0.26	354	0.020	1	1.20	0.008	0.05	<0.1	0.02	1.3	0.2	<0.05	5	0.6	<0.2
1178131	Soil	26	0.36	832	0.004	1	1.47	0.017	0.06	<0.1	0.35	0.9	0.2	0.08	4	1.3	<0.2
1178132	Soil	33	0.21	600	0.015	1	0.68	0.007	0.26	<0.1	0.16	1.2	0.3	0.42	4	6.7	0.3
1159001	Soil	9	0.12	358	0.023	<1	0.56	0.007	0.18	0.2	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1159002	Soil	12	0.14	427	0.030	<1	0.64	0.009	0.25	0.2	0.02	1.5	0.1	0.14	2	<0.5	<0.2
1159003	Soil	14	0.22	208	0.157	1	1.09	0.009	0.06	0.3	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
1159004	Soil	38	0.67	629	0.065	<1	2.09	0.010	0.08	0.3	0.20	2.2	0.9	0.10	6	1.6	<0.2
1159005	Soil	50	2.22	289	0.159	<1	1.96	0.007	0.07	0.4	0.05	2.5	0.4	0.09	19	4.1	1.2
1159006	Soil	7	0.01	404	0.030	<1	0.26	0.008	0.19	0.1	0.13	0.3	0.6	0.32	2	1.2	<0.2
1159007	Soil	103	1.12	571	0.039	<1	1.94	0.008	0.13	0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
1159008	Soil	101	1.11	286	0.159	2	2.33	0.006	0.06	0.1	0.04	3.5	0.1	<0.05	7	<0.5	<0.2
1159009	Soil	172	0.60	404	0.008	1	1.16	0.007	0.09	<0.1	0.06	2.9	0.1	0.07	4	2.6	<0.2
1159010	Soil	62	0.50	265	0.102	<1	1.25	0.008	0.10	<0.1	0.02	2.7	<0.1	<0.05	8	<0.5	<0.2
1159011	Soil	54	0.78	881	0.130	<1	1.58	0.007	0.10	<0.1	0.06	2.7	<0.1	0.06	6	<0.5	<0.2
1159012	Soil	70	0.88	413	0.130	2	1.72	0.008	0.12	0.2	0.05	3.0	<0.1	<0.05	7	0.5	<0.2
1161344	Soil	208	2.77	76	0.163	1	2.68	0.013	0.03	<0.1	0.06	6.2	<0.1	<0.05	7	<0.5	<0.2
1161345	Soil	6	0.04	268	0.006	<1	0.48	0.022	0.10	<0.1	0.02	<0.1	<0.1	0.09	2	<0.5	<0.2
1161346	Soil	28	0.37	156	0.089	<1	0.95	0.007	0.10	0.2	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
1161347	Soil	24	0.42	188	0.069	1	1.47	0.008	0.08	0.3	0.02	2.0	0.1	<0.05	5	<0.5	<0.2
1161348	Soil	21	0.33	141	0.085	<1	1.58	0.007	0.05	0.2	0.01	1.8	0.1	<0.05	7	<0.5	<0.2
1161349	Soil	6	0.17	260	0.011	3	0.89	0.033	0.04	<0.1	0.39	0.6	0.4	0.22	2	3.4	<0.2
1161350	Soil	11	0.22	792	0.009	<1	1.52	0.032	0.03	<0.1	0.56	1.3	0.3	0.15	3	3.9	<0.2
1161251	Soil	4	0.07	284	0.014	1	0.45	0.040	0.03	<0.1	0.09	0.5	<0.1	0.10	1	<0.5	<0.2



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Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1161252	Soil	2.5	30.2	117.7	148	0.6	18.7	6.5	430	3.64	59.5	<0.5	8.0	21	0.6	3.9	0.5	49	0.15	0.046
1161253	Soil	7.4	28.6	725.3	42	0.7	12.9	2.5	85	2.45	182.1	4.0	7.0	21	<0.1	5.6	0.6	46	0.08	0.075
1161254	Soil	2.3	37.1	36.8	91	0.5	31.3	12.5	753	3.77	29.7	3.4	2.4	14	0.6	2.9	0.4	43	0.12	0.115
1161255	Soil	1.7	110.6	9.5	22	0.6	27.8	5.9	1277	0.79	3.5	<0.5	0.5	96	1.6	1.0	0.1	8	2.37	0.181
1161256	Soil	1.3	27.3	10.5	56	0.6	12.3	5.4	336	1.33	5.0	<0.5	0.2	18	1.4	0.8	0.2	29	0.16	0.053
1161257	Soil	0.6	29.6	10.6	19	0.3	5.7	1.7	38	0.84	1.9	0.5	0.2	9	0.7	0.4	0.3	29	0.03	0.052
1161258	Soil	0.7	29.6	5.7	29	0.4	14.5	5.6	246	0.97	3.1	1.1	0.5	29	0.3	1.0	<0.1	21	0.36	0.075
1161259	Soil	0.8	8.2	7.1	17	0.1	5.6	1.5	43	0.56	2.8	<0.5	0.3	6	0.4	0.5	0.1	28	0.06	0.020
1161260	Soil	1.7	22.6	15.0	102	0.2	42.1	13.7	805	3.27	13.8	1.0	3.5	10	0.7	2.0	0.2	84	0.14	0.077
1161261	Soil	1.0	30.0	5.1	19	0.7	9.1	4.0	192	0.93	2.1	<0.5	<0.1	8	0.2	0.4	<0.1	19	0.08	0.087
1160665	Soil	7.2	35.5	15.9	130	0.1	55.2	14.5	475	4.08	13.9	2.0	4.3	8	0.9	2.9	0.3	60	0.17	0.047
1160666	Soil	8.7	29.3	15.5	111	0.1	33.1	14.3	522	3.84	17.0	1.6	8.1	5	0.8	2.5	0.4	52	0.06	0.050
1160667	Soil	1.8	6.9	38.2	61	<0.1	7.5	8.7	357	1.71	5.1	<0.5	5.6	8	0.3	0.6	0.3	7	0.10	0.042
1160668	Soil	6.2	63.3	67.1	179	0.8	26.7	13.2	386	3.06	17.9	3.1	4.3	26	0.2	1.2	0.3	27	0.33	0.121
1160669	Soil	3.2	23.1	45.5	229	0.2	10.7	6.8	137	1.16	4.1	<0.5	0.9	17	0.6	0.5	0.2	20	0.23	0.037
1160670	Soil	2.1	16.9	19.8	42	0.4	10.9	3.6	168	1.23	2.6	<0.5	1.0	18	0.6	0.6	0.2	23	0.17	0.041
1160671	Soil	1.3	12.1	16.8	40	0.1	10.0	3.6	274	2.60	8.5	<0.5	1.8	11	0.2	0.8	0.2	57	0.38	0.113
1160672	Soil	1.8	17.9	27.4	61	0.1	26.8	8.9	289	3.05	16.2	0.6	7.1	14	0.4	1.3	0.2	53	0.16	0.029
1160673	Soil	1.3	15.8	18.8	71	0.8	31.6	10.7	410	3.12	11.2	1.4	5.3	9	0.5	1.1	0.2	64	0.17	0.048
1160674	Soil	1.6	13.1	37.3	64	<0.1	18.2	6.5	237	2.23	23.3	1.3	6.4	14	0.2	1.5	0.2	38	0.12	0.041
1160675	Soil	1.9	17.8	42.0	75	0.3	16.8	5.1	204	2.39	26.5	2.1	5.7	34	0.5	1.8	0.2	35	0.35	0.028
1160676	Soil	0.9	15.7	44.0	67	0.1	14.6	5.7	258	1.72	10.7	1.3	13.1	29	0.4	1.1	0.3	18	0.16	0.021
1160677	Soil	3.2	32.9	141.7	70	0.4	13.1	5.2	237	3.16	77.2	3.9	6.8	17	0.2	3.9	0.4	60	0.11	0.059



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161252	Soil	35	0.57	491	0.054	1	1.96	0.006	0.09	0.3	0.15	2.1	0.7	0.06	7	0.6	<0.2
1161253	Soil	23	0.33	254	0.101	<1	0.73	0.018	0.10	0.3	0.04	1.0	0.8	0.18	6	1.0	<0.2
1161254	Soil	37	0.63	245	0.025	<1	1.64	0.010	0.11	0.2	0.06	1.9	0.1	<0.05	6	0.8	<0.2
1161255	Soil	14	0.19	715	0.010	2	0.83	0.023	0.03	<0.1	0.31	1.1	<0.1	0.23	2	4.1	<0.2
1161256	Soil	15	0.14	355	0.010	<1	0.68	0.018	0.07	<0.1	0.04	0.5	<0.1	<0.05	4	0.5	<0.2
1161257	Soil	13	0.03	125	0.011	<1	1.15	0.013	0.02	<0.1	0.03	0.2	<0.1	<0.05	6	<0.5	<0.2
1161258	Soil	23	0.23	331	0.013	<1	0.72	0.020	0.04	<0.1	0.09	1.2	<0.1	0.06	2	1.1	<0.2
1161259	Soil	14	0.08	93	0.026	<1	0.54	0.013	0.06	<0.1	0.02	0.4	<0.1	<0.05	4	<0.5	<0.2
1161260	Soil	70	0.66	256	0.088	<1	1.77	0.008	0.09	0.1	0.03	3.3	<0.1	<0.05	8	<0.5	<0.2
1161261	Soil	17	0.19	147	0.010	<1	1.09	0.024	0.04	<0.1	0.04	0.5	<0.1	<0.05	3	<0.5	<0.2
1160665	Soil	61	1.41	121	0.025	1	2.36	0.006	0.05	<0.1	0.02	2.4	0.1	<0.05	6	0.7	<0.2
1160666	Soil	49	1.07	123	0.014	<1	2.56	0.004	0.06	0.1	0.09	2.1	0.2	<0.05	6	1.0	0.2
1160667	Soil	8	0.36	533	0.003	<1	0.86	0.006	0.06	<0.1	0.03	0.5	<0.1	<0.05	3	<0.5	<0.2
1160668	Soil	31	0.46	567	0.009	2	2.17	0.010	0.05	0.2	0.33	2.5	0.4	0.06	5	1.1	<0.2
1160669	Soil	17	0.27	188	0.036	1	1.15	0.007	0.06	0.2	0.02	0.8	0.3	<0.05	5	<0.5	<0.2
1160670	Soil	17	0.28	403	0.032	1	1.04	0.011	0.06	0.2	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
1160671	Soil	22	0.28	90	0.112	<1	1.06	0.009	0.05	0.2	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
1160672	Soil	56	0.88	192	0.077	1	2.25	0.006	0.08	0.2	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
1160673	Soil	70	0.81	193	0.114	2	2.14	0.008	0.06	0.2	0.04	2.3	0.1	<0.05	6	<0.5	<0.2
1160674	Soil	32	0.62	208	0.068	<1	1.42	0.005	0.12	0.2	<0.01	1.3	0.2	<0.05	5	<0.5	<0.2
1160675	Soil	33	0.63	870	0.063	<1	1.34	0.007	0.10	0.3	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
1160676	Soil	19	0.85	829	0.048	<1	1.66	0.008	0.08	0.3	0.02	1.2	0.1	<0.05	5	<0.5	<0.2
1160677	Soil	41	0.76	207	0.124	<1	1.34	0.007	0.11	0.4	0.07	1.3	1.3	0.10	7	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11000347.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1178126	Soil	2.0	129.9	52.8	256	0.5	35.0	13.7	616	2.58	22.8	6.9	4.6	78	3.2	2.5	0.3	41	0.81	0.054	33
REP 1178126	QC	2.2	127.3	51.9	263	0.5	35.9	14.5	582	2.59	23.9	6.9	4.9	82	3.4	2.5	0.3	41	0.78	0.056	34
1159008	Soil	1.5	33.9	18.6	76	0.2	55.4	16.0	386	3.96	11.5	1.5	4.2	13	0.5	1.5	0.2	82	0.21	0.039	14
REP 1159008	QC	1.6	34.8	18.4	75	0.2	57.8	16.4	392	4.03	11.8	<0.5	4.1	13	0.5	1.5	0.2	84	0.21	0.039	14
1161348	Soil	1.1	5.7	25.9	50	<0.1	9.6	3.8	190	1.85	8.0	<0.5	5.2	23	0.5	0.9	0.2	38	0.26	0.020	19
REP 1161348	QC	1.1	5.6	26.0	50	<0.1	10.0	3.9	190	1.90	8.3	1.6	5.1	22	0.5	0.9	0.2	37	0.25	0.020	19
1160676	Soil	0.9	15.7	44.0	67	0.1	14.6	5.7	258	1.72	10.7	1.3	13.1	29	0.4	1.1	0.3	18	0.16	0.021	38
REP 1160676	QC	0.9	15.4	43.2	66	0.1	14.3	5.8	258	1.72	9.9	2.0	13.1	29	0.3	1.1	0.3	17	0.17	0.019	38
Reference Materials																					
STD DS8	Standard	13.6	113.0	122.7	326	1.9	38.6	8.0	628	2.50	28.1	123.8	7.7	69	2.6	6.2	6.9	44	0.71	0.092	17
STD DS8	Standard	14.4	117.8	124.1	332	1.8	39.7	8.2	633	2.57	28.5	118.7	7.7	71	2.6	6.2	7.0	45	0.73	0.092	18
STD DS8	Standard	14.1	105.5	123.2	319	1.8	38.3	7.7	625	2.48	27.9	110.4	6.5	65	2.5	5.6	6.4	43	0.70	0.090	14
STD DS8	Standard	13.4	108.0	119.0	323	1.7	38.2	7.4	616	2.42	26.7	102.1	6.4	65	2.4	5.4	6.5	41	0.71	0.080	14
STD DS8	Standard	13.5	106.7	127.6	303	1.7	39.3	7.8	618	2.51	25.7	111.3	6.8	65	2.1	5.4	6.0	42	0.69	0.080	15
STD DS8	Standard	13.6	103.3	122.4	295	1.6	35.8	7.2	566	2.27	25.3	97.3	6.6	64	2.2	5.4	5.5	39	0.66	0.076	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Part 2

QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1178126	Soil	93	1.14	773	0.068	1	1.52	0.009	0.06	0.3	0.39	8.6	0.9	0.06	5	1.7	<0.2
REP 1178126	QC	92	1.23	775	0.073	<1	1.55	0.010	0.06	0.4	0.42	8.5	0.9	<0.05	5	1.1	<0.2
1159008	Soil	101	1.11	286	0.159	2	2.33	0.006	0.06	0.1	0.04	3.5	0.1	<0.05	7	<0.5	<0.2
REP 1159008	QC	101	1.11	292	0.157	<1	2.36	0.004	0.06	0.1	0.04	3.4	0.1	<0.05	7	0.5	<0.2
1161348	Soil	21	0.33	141	0.085	<1	1.58	0.007	0.05	0.2	0.01	1.8	0.1	<0.05	7	<0.5	<0.2
REP 1161348	QC	21	0.33	136	0.082	<1	1.56	0.005	0.05	0.2	0.01	1.8	0.1	<0.05	6	<0.5	<0.2
1160676	Soil	19	0.85	829	0.048	<1	1.66	0.008	0.08	0.3	0.02	1.2	0.1	<0.05	5	<0.5	<0.2
REP 1160676	QC	18	0.85	809	0.047	2	1.61	0.009	0.08	0.2	0.01	1.3	0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	111	0.61	314	0.124	3	0.91	0.092	0.44	3.0	0.21	2.4	5.7	0.14	5	5.3	5.3
STD DS8	Standard	116	0.63	312	0.132	3	0.93	0.096	0.44	3.0	0.22	2.6	5.6	0.18	5	5.9	5.1
STD DS8	Standard	120	0.62	280	0.114	3	0.91	0.104	0.45	2.8	0.19	2.0	5.4	0.19	5	5.0	4.9
STD DS8	Standard	117	0.57	270	0.115	4	0.89	0.096	0.44	2.7	0.18	2.1	5.1	0.15	5	4.8	5.0
STD DS8	Standard	119	0.61	258	0.115	3	0.90	0.086	0.42	2.8	0.20	1.9	5.3	0.12	5	5.3	5.0
STD DS8	Standard	108	0.57	247	0.109	3	0.82	0.082	0.40	2.5	0.20	1.9	5.1	0.13	4	4.8	4.8
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

APPENDIX G- STATEMENT OF EXPENDITURES

Redtail Metals- Bolt property- Bolt and BLT claims
Statement of Expenditures- 2011

December 08 2011

	Bolt total
Contract geochemical survey	\$71,725.75
Helicopter	\$11,133.41
Acme Labs Soil + rx Assays	<u>\$20,788.77</u>

total \$103,647.93

total number of samples: 1021 soils
15 rocks

Signed:

Danièle Héon B.Sc, P.Geo.

Senior Geologist
Redtail Metals Corp.