

**Surface Work 2011
On the
Culvert Property**

Culvert 1	YC29100
Culvert 2	YC31957
Culvert 3	YC71979
Culvert 4 to 6	YC31958 to YC31960
Culvert 7 to 8	YC71980 to YC71981
Culvert 9 to 12	YC31961 to YC31964
Culvert 13 to 16	YC71982 to YC71985
Culvert 17 to 57	YC73335 to YC73375
Culvert 58 to 70	YC73422 to YC3434
Culvert 71	YC73863
Culvert 72	YC94980
Culvert 73 to 75	YD17372 to YD17374

**Watson Lake Mining District, Yukon
NTS Sheet 105H15 & 105H16 (Shannon Creek & Tungsten)
61°57'N. Lat., 128°25'W. Long.**

Operated by:



(Under option from Gary Lee and Robert Scott)

**By
Mark Fekete, P.Geo.
and
Marty Huber, B.Sc., GIT
December 15, 2011**

Summary

In 2011 Stakeholder Gold Corp completed a surface exploration program on the 75-claim (1,553ha) Culvert property located in the Little Hyland River Valley approximately 205km north of Watson Lake in the Watson Lake Mining District of southeastern Yukon. The work included soil geochemical sampling and limited prospecting. The goal of the work was to identify potential gold-bearing structures by outlining geochemical trends.

The Culvert property is held 100% by Stakeholder Gold Corp. under the terms of an option agreement with Gary Lee and Robert Scott, both of Whitehorse Yukon, subject to 3% royalty on mineral production. Fuel, supplies and equipment can be trucked in from Watson Lake on the all-weather Nahanni Range Road. Access to most parts of the Property is by helicopter.

Placer gold was first found on the Culvert property by Robert Scott in 1984. From 2006 to 2008, stream sediment, soil and rock sampling was completed followed in 2009 by line cutting, magnetic and VLF-type electromagnetic surveys, trenching, blasting, and soil and rock sampling. The most significant result of this previous work was the discovery of the Culvert showing in the creek draining the southeastern corner of the Property approximately 2.5km from the Nahanni Range Road.

The showing consists of a series of northwest-trending quartz-carbonate veins hosted in intensely sericite altered phyllites. Grab samples have returned values up to 22.8gpt Au. Stakeholder is exploring for high-grade gold in quartz-carbonate veins similar to the 3Ace project located approximately 16km south of the Property where spectacular gold values have been announced recently. Quartz-carbonate lode gold deposits are generally related to structures including faults, shear zones, stockworks and extension fractures.

The Property lies within the Selwyn Basin and is underlain by two main lithological units separated by the regional northwest trending March Fault that follows the Little Hyland Valley. The eastern part of the Property is underlain by the Upper Proterozoic to Lower Cambrian Vampire Formation whereas the western part of the Property is underlain by Upper Proterozoic to Lower Cambrian Narchilla Formation of the Hyland Group. Intrusive rocks are exposed at some places north and south of the Property belonging to the mid-Cretaceous Selwyn Plutonic Suite. The Property has not been mapped in any detail. Prospecting samples include phyllites, schists and argillites. Strong sericite, carbonate and phyllic (muscovite) alteration is often noted in the wallrocks adjacent to quartz-carbonate veins such as at the Culvert showing.

A total of 1,768 soil samples including field duplicates were collected with hand augers at 50m sample intervals on lines spaced 100m apart using GPS traverse lines. The lines were laid out at 070° azimuth in an attempt to cross the trend of the structure exposed at the Culvert showing at 90° angles. Samples were analyzed at ISO 9001 accredited Acme Analytical Laboratories Ltd. in Vancouver, B.C.

Excellent gold values up to 791ppb Au were obtained within a clearly definable, northwest trending gold anomaly continuous over 1.7km from the south boundary. The anomaly is up to 250m wide and carries on discontinuously up to the northern boundary for a total strike extent of 3km on the Property. The gold shows various correlations and is sometimes coincident with arsenic, copper and silver. The 2011 results generally agree with the conclusions of previous work except that it appears that geochemical trend southeast of the showing is more prospective than the trend to the northwest where most of the previous work has been focused.

It is recommended that the grid be extended to the northwest and southeast as far as the Property boundaries. Magnetic and VLF-type electromagnetic surveys should be completed as well as geological mapping, prospecting and sampling with the aim of gaining a better understanding of possible structural controls on the gold mineralization. Drilling is also recommended to test at depth the gold-bearing structure exposed at the Culvert showing. The estimated cost of the exploration program is \$600,000.

Certificate of Qualifications

I, Mark Fekete, having my place of residence at 178 Dennison Boulevard in Val d'Or in the Province of Quebec do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of British Columbia in 1986, I have been engaged as a Geologist continuously since 1986 and I am a Member in good standing of the Order of Geologists of Quebec (OGQ #553) and the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC #31440), and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Culvert property on numerous occasions including most recently in August 2011;
3. I wrote and I am, as the senior author and qualified person, responsible for the contents of this technical report entitled "Surface Work 2011 on the Culvert Property, Watson Lake Mining District, Yukon, NTS Sheet 105H15 & 105H16 (Shannon Creek & Tungsten), 61°57'N. Lat., 128°25'W. Long.," based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I am an Officer and Director, and I beneficially hold a number of shares in Stakeholder Gold Corp.;
6. I hold no direct interest in the Culvert property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-101,1 and according to Form 43-101F1.

Respectfully submitted this 15th day of December 2011,

(s) "**Mark Fekete**"

Mark Fekete, P.Geo.

Certificate of Qualifications

I, Marty Huber, having my place of residence at 16 Flax Mill Dr. in Conestogo in the Province of Ontario do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from Acadia University in May 2011, I have been engaged as a Geologist in Training (“GIT”) continuously since May 2011 and I am not a “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Culvert property on numerous occasions including most recently in August 2011;
3. I co-wrote this technical report entitled “Surface Work 2011 On the Culvert Property, Watson Lake Mining District, Yukon, NTS Sheet 105H15 & 105H16 (Shannon Creek & Tungsten), 61°57’N. Lat., 128°25’W. Long.,” under the supervision of Mark Fekete, P.Geo.;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I do not beneficially hold a number of shares in Stakeholder Gold Corp.;
6. I hold no direct interest in the Culvert property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-101,1 and according to Form 43-101F1.

Respectfully submitted this 15th day of December 2011,

(s) “Marty Huber”

Marty Huber, GIT

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1. Introduction and Terms of Reference

Breakaway Exploration Management Inc. (“Breakaway”) was retained by Stakeholder Gold Corp. (“Stakeholder”) to write a technical report (the “Report”) describing the surface exploration work carried out on the Culvert property (“Culvert” or the “Property”) in Yukon in 2011. The Report describes a soil geochemical survey.

The goal of the surface work was to determine if the gold mineralization exposed at the Culvert showing could be traced by soil geochemistry, and to identify areas of anomalous gold-in-soil trends that may be related to the gold bearing structures similar to Northern Tiger’s 3Ace property located about 16km south of the Culvert property.

The Report is based primarily on the results of the work completed on Culvert in 2011 but also contains information obtained from a review of relevant reports and maps cited throughout the Report. The Report was prepared by Geologist in Training Marty Huber (the “Junior Author”) under the supervision of Professional Geologist Mark Fekete (the “Senior Author”). The Authors have visited and personally inspected the property on numerous occasions. The Senior Author is the designated “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101. The main purpose of the Report is to complete statutory assessment work filings required under the Yukon Quartz Mining Act. It is not intended to and does not fully comply with National Instrument 43-101. The Report contains specific recommendations and proposes a budget for further work.

The metric system is used for all units of measure mentioned in the Report and all dollar amounts are in Canadian funds unless otherwise stated. All figures presented in the Report are plotted in map projection UTM WGS84 Zone 9N unless otherwise stated.

2. Reliance on Other Experts

The Authors may have relied on technical data and interpretations found in various sources cited throughout the report. The Authors may not have verified this information and take no responsibility for its accuracy or completeness. Reference to the compliance or non-compliance with NI 43-101 standards of historical information and data referred to in this Report are made where appropriate. The Authors do not offer any opinion concerning legal, title, environmental, political or other non-technical issues that may be relevant to the Report. The Report may contain links to several web-sites. The Authors take no responsibility for the functionality or content of these websites.

3. Location and Property Description

The Property covers an approximate area of 1,553 hectares within the Watson Lake Mining District, in southeast Yukon. It is located within the Little Hyland River Valley, some 205km north of Watson Lake (Figure 1). The approximate center of the Property is described by 61°57’00” North Latitude and 128°25’00” West Longitude on N.T.S. Sheets 115H15 & 115H16 (Shannon Creek & Tungsten). The Property includes 75 contiguous, un-surveyed mineral titles (Figure 2) jointly recorded to Gary Lee and Robert Scott (the “Vendors”) of Whitehorse, Yukon, and more fully described in Table 1 below.

Table 1 - List of Claims

Claim Name No.	Tag No.	Expiry Date	#
Culvert 1	YC29100	22-Apr-26	1
Culvert 2	YC31957	11-Mar-24	1
Culvert 3	YC71979	17-Mar-25	1
Culvert 4 to 6	YC31958 to YC31960	11-Mar-24	3
Culvert 7 to 8	YC71980 to YC71981	17-Mar-25	2
Culvert 9 to 12	YC31961 to YC31964	11-Mar-24	4
Culvert 13 to 16	YC71982 to YC71985	17-Mar-25	4
Culvert 17 to 57	YC73335 to YC73375	16-Mar-22	41

Culvert 58 to 70	YC73422 to YC3434	16-Mar-22	13
Culvert 71	YC73863	22-Mar-22	1
Culvert 72	YC94980	16-May-22	1
Culvert 73 to 75	YD17372 to YD17374	28-Mar-16	3
			75

On November 5, 2010 Stakeholder entered into an option agreement with the Vendors. Under the terms of the agreement, Stakeholder has the option to earn 100% interest in the property for total consideration of \$280,000 cash, 1,300,000 treasury shares and \$525,000 exploration work scheduled over a four-year period subject to a 3.0% Net Smelter Returns royalty (“the Royalty”) on smeltable materials. Stakeholder will have the right to buy back the first 1.5% of the Royalty for \$1,000,000.

The mineral claims included in the Property were acquired under the Yukon Quartz Mining Act which grants only the hard rock mineral rights to the claim holder. The surface rights for the area of the Property are held by the Crown. To maintain the claims in good standing, a minimum of \$100 assessment work per claim must be completed annually. There are provisions to apply for more than one year work at a time up to a maximum of five years, to apply work from one claim to other adjoining claims (grouping) up to a maximum of 750 contiguous claims and to pay cash in lieu of work up to a maximum of five years. The Quartz Mining Land Use Regulations consist of a classification system based on varying levels of specific activities. These threshold levels categorize exploration activities into four classes of operation. Classes 1 through 4 represent activities with increasing potential to cause adverse environmental impacts.

Activities within a Class 1 program are defined as “grassroots” exploration with low potential to cause adverse environmental effects, and where activities and reclamation are completed within a year. A Class 1 program does not require government approval but the operator must comply with the certain operating conditions. An assessment under the Yukon Environmental and Socio Economic Assessment Act (“YESAA”) is not required for a Class 1 program. The work described in this Report was completed as a Class 1 program.

Class 2 programs are considered to represent the upper level of “grassroots” exploration activities. A notification submitted through the Mining Lands Office which outlines the activities and how they will be reclaimed is required. These programs comprise activities that have a moderate potential to cause adverse environmental effects and therefore require an assessment through YESAA. All work and reclamation must be completed within one year.

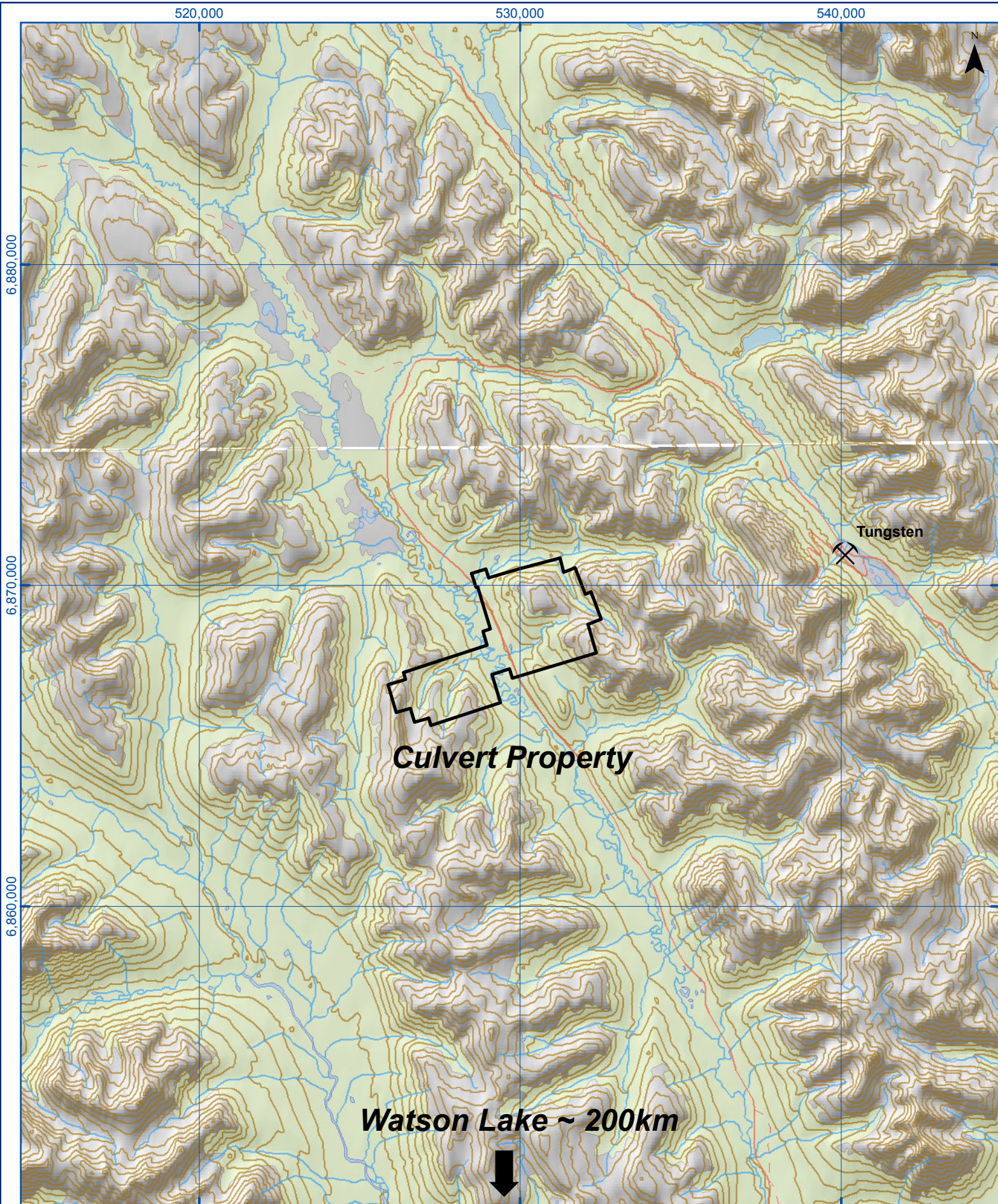
All Class 3 and Class 4 programs require submission of a detailed “Operating Plan” to the Mining Lands Office. A YESAA assessment is required. The Operating Plan must be approved before any exploration activities can be undertaken. Operating Plans may entail multi-year exploration programs to allow greater flexibility for the operator.

The work described in this Report was completed as a Class 1 Program.

4. Accessibility, Local Resources, Infrastructure, Physiography and Climate

Access to the Property is relatively good (Figure 2) compared to other parts of the Watson Lake Mining District as it is reachable via the all-weather Nahanni Range Road that leads to the mining village of Tungsten 10km east of the Property. To get to the Property from Watson Lake one takes the Robert Campbell Highway and then the Nahanni Range Road until Kilometre 165. From there, an ATV trail leads into the southeastern portion of the Property. Access to the rest of the Property is by helicopter.

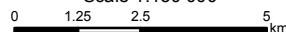
Culvert is located in an isolated part of Yukon with relatively few local resources or infrastructure. The Property must be worked from an exploration camp set up on or near the Property. A camp can be supported from Watson Lake on the Alaska Highway, where services are limited, or from Whitehorse where a full range of services are available including line-cutting, geophysics, drilling, assaying, aircraft charters etc.



Mine

CULVERT PROPERTY
Figure 1. GENERAL LOCATION

Universal Transverse Mercator Zone 9
World Geodetic System 1984
Scale 1:150 000



Culvert Property
Figure 1. General Location
Stakeholder Gold Corp.
NTS Sheet: 105H & 105I
Date: December 10, 2011

526000

528000

530000

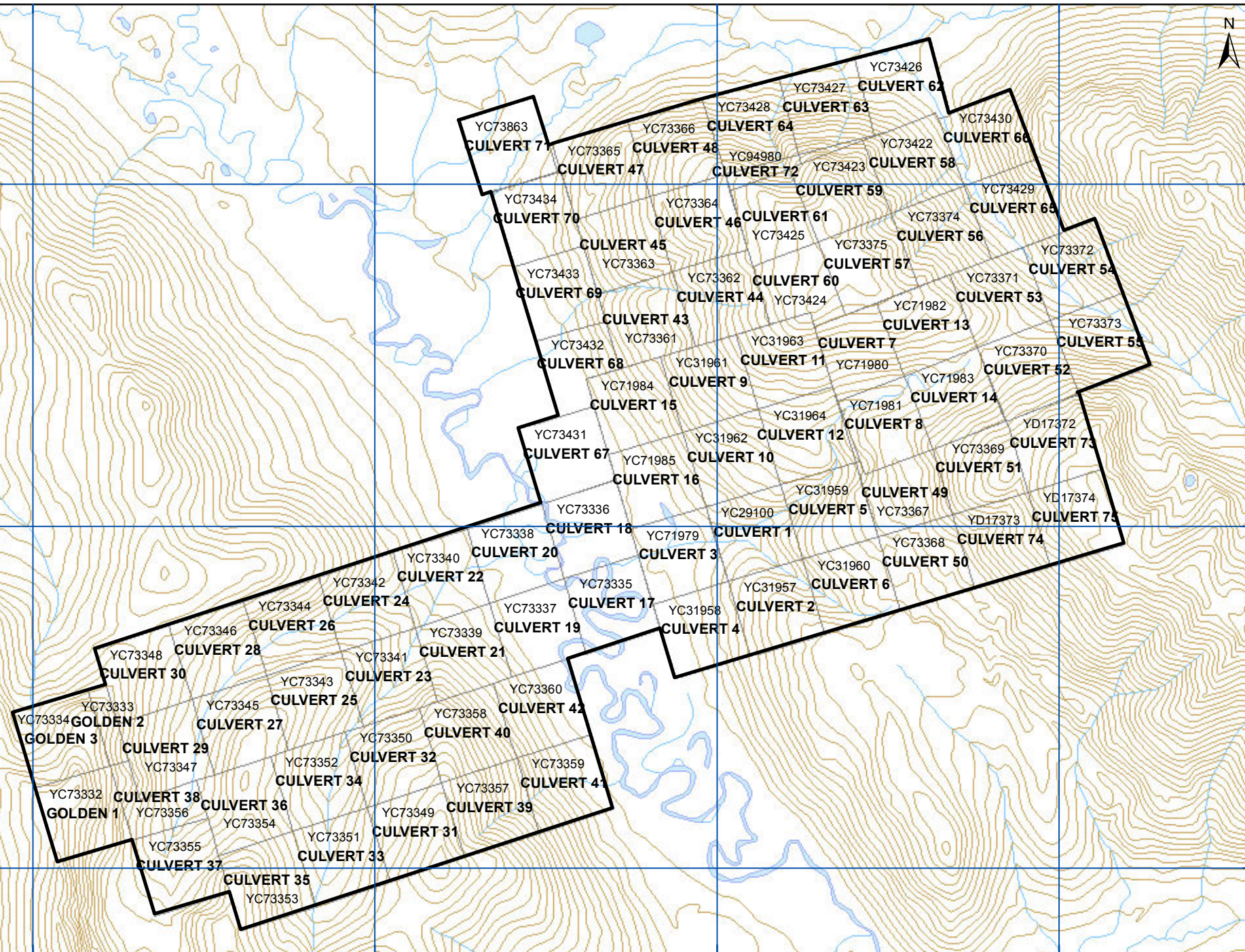
532000



6870000

6860000

6860000

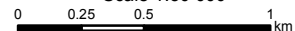


CULVERT PROPERTY
Figure 2. CLAIM MAP

Universal Transverse Mercator Zone 9

World Geodetic System 1984

Scale 1:30 000



Culvert Property
 Figure 2. Claim Map
 Stakeholder Gold Corp.
 NTS Sheet: 105H/15 & 16
 Date: November 2, 2011

The Property is situated in the northwest trending Logan Mountains along the border between Yukon and the Northwest Territories. The topography is characterized by broad, U-shaped valleys separated by steep sloped mountainous peaks and ridges. Elevations on the Property range from 1200 to 1750 meters above sea level. Most of the Property lies above the tree-line where steeper slopes are covered by talus and felsenmeer and the flatter areas are covered by typical alpine moss and lichens. Thick willow, dwarf birch and alder brush mark the tree-line and lower elevations show patchy scrub forests of fir, spruce and pine.

The Little Hyland River valley typically has higher annual precipitation compared to the rest of the Yukon with approximately 450mm. Snow generally begins to accumulate in the alpine areas in late September and begins receding in early May. In the summer months temperatures can be as high as +30°C and as low as -50°C in the winter months. Due to the northerly latitude of the region, summer days are long and winter days very short. The best season for exploration is during the summer months from mid-May to mid-October. Although it is possible to work during the winter months, costs rise exponentially due to cold temperatures, inclement weather and short daylight hours.

5. Exploration History

The following exploration history of the Property has been compiled in part from the Yukon Energy and Mines and Resources Library and Yukon Geological Survey MINFILE database. It relies mainly on the exploration history related by Casselman and Halle (2010). There is limited exploration work documented on the Property although there has been a long history of exploration in the area. In 1954 a large tungsten deposit was discovered east of the Property leading to extended exploration in the region and recurrent production from the Cantung Mine beginning in 1962.

The only documented mineral showing within a 5km radius of the area of the Property, listed in Table 2 below, is located approximately 3km to the south. The Ricardo showing is described as gossan originally staked by Canada Tungsten Mining Corporation Ltd in 1961. There is no record of Canada Tungsten doing any additional work on the property and it was later allowed to lapse. It was subsequently staked in 1980 by A. Black and again in 1981 by E. Broadhagen as the Lynx claims. In both instances there was no record of work performed and the claims were allowed to lapse.

Table 2 – MINFILE Showings

MINFILE No.	MINEFILE Name	Link
105H057	Ricardo	105H057

Gold was first found on the Culvert property by Robert Scott in 1984 while panning below the culvert where the creek that drains the southeastern corner of the Property crosses the Nahanni Range road. No claims were staked to cover this discovery until 2005 when the initial claims of the present Property were recorded. From 2006 to 2008, additional claims were staked and the Vendors prospected, collected stream sediment, soil and rock samples that returned anomalous gold and arsenic values, and eventually discovered gold in bedrock at the present Culvert showing (Casselman, 2007 and Casselman, 2008). In 2009 exploration work focused around the area of the new showing and included line cutting, magnetic and VLF-type electromagnetic surveys, trenching, blasting, and soil and rock sampling (Casselman, 2010).

6. Geology

6.1. Introduction

The following geological description is derived directly from Casselman and Halle (2010), and was originally sourced from regional compilation maps by Gordey and Makepeace (2000) and descriptions by Héon (2007) and Hart (2002).

6.2. Regional Geological Setting

The Property lies within the Selwyn Basin in the eastern Yukon which is part of the cordilleran miogeocline and is characterized by thick accumulations of clastic sediments, with a significant component of black shales and cherts (Héon, 2007). These deep water basin-type rocks interfinger with and are bound

by and grade into shallower-water platform-type carbonates. The Selwyn Basin is bounded to the north by the Dawson Fault, grades into the Mackenzie Platform to the east and into the Cassiar Platform to the southwest. It is thought that the Selwyn Basin may be bounded by Mesozoic thrust fault separating it from Yukon-Tanana Terrane in the Anvil district, and is offset to the southwest by the Tintina Fault. The sediments range in age from Precambrian to Jurassic (Héon, 2007) and lie within the Omineca Belt of the Northern Cordillera (Hart, 2002).

6.3. Property Geology

Compilation work by Gordey and Makepeace (2000) indicates that the Culvert property is underlain by two main lithological units separated by the regional northwest trending March Fault that follows the Little Hyland Valley (Figure 4). The eastern part of the Property is underlain by the Upper Proterozoic to Lower Cambrian Vampire Formation (uPCV). This is a sedimentary series of dark brown, fine-grained and thinly-bedded, argillaceous sandstone and siltstone with minor, interbedded, medium to coarse grained, white to light grey orthoquartzite, phyllite, slate and argillite. The western portion of the Property is underlain by Upper Proterozoic to Lower Cambrian Narchilla Formation of the Hyland Group (PCHn). This series includes thinly to thickly bedded brown to pale green shale, fine- to coarse-grained quartz rich sandstone, quartz-pebble conglomerate, minor argillaceous limestone, phyllite, quartz-feldspar and mica psammite, gritty psammite, and minor marble.

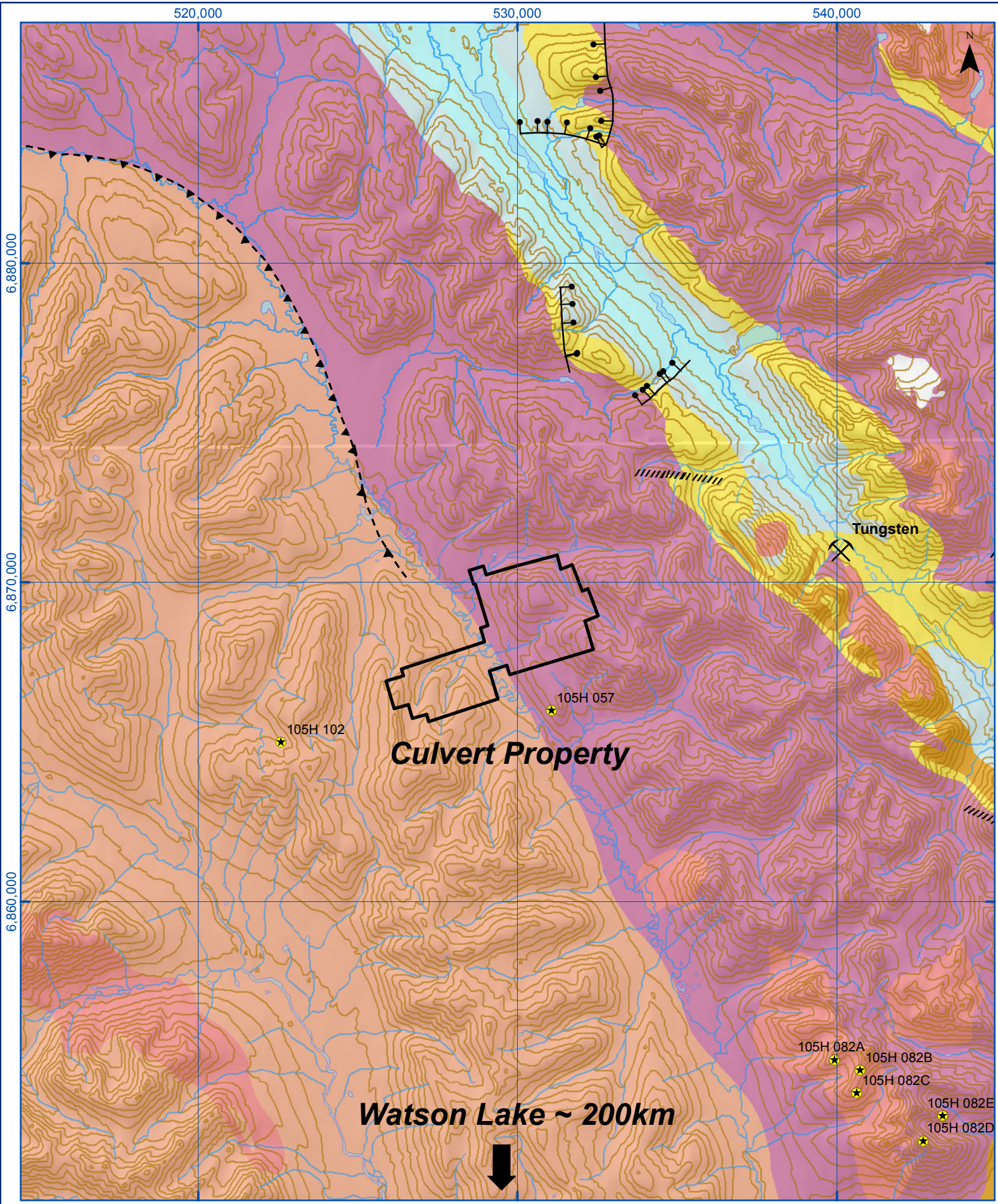
Intrusive rocks are exposed at some places north and south of the Property belonging to the mid-Cretaceous Selwyn Plutonic Suite (mKgS). These rocks include K-feldspar porphyry, biotite monzonite and granodiorite. Regional airborne magnetic data suggests that these intrusive rocks may be more extensive and may underlie much of the layered rocks in the area. The magnetic data also shows that numerous moderate to strong, northwest-trending magnetic features transect the Property. Casselman and Halle (2010) suggests that these may be caused by sharp lithological, alteration or structural contacts.

The Property has not been mapped in any detail. Sample descriptions of rocks collected by the Vendors indicate that the Property is generally underlain by phyllites, schists and argillites (Casselman and Halle, 2010). Strong sericite, carbonate and phyllic (muscovite) alteration is often noted in the wallrocks adjacent to quartz-carbonate veins such as at the Culvert showing.

7. Deposit Types

The CanTung Mine, located in the Northwest Territories 10 km east of the Property, is the most significant mineral deposit in the area. It has produced tungsten periodically since 1962 and is currently operated by North American Tungsten Corp. Reserves are stated at 2.5-million tonnes grading 1.11% tungsten oxide indicated and 0.4-million tonnes grading 0.84% tungsten oxide inferred (www.natungsten.com). The deposit-type consists of tungsten-rich skarns formed in carbonaceous Selwyn Basin sedimentary rocks along the margins of mid-Cretaceous granodiorite intrusions. Stakeholder's exploration effort on the Culvert property is not directed towards skarn-type tungsten deposits similar to the CanTung deposit. Rather, Stakeholder is exploring for high-grade gold in quartz-carbonate veins similar to the 3Ace project located approximately 16km south of the Property.

Gold only deposits derived from bedrock sources are generally classified as lode gold-type. This type of deposit is extremely important accounting for 60% of historical gold production in Canada (Poulsen, 1996). Lode gold deposits are found in a variety of tectonic terranes but occur mainly in areas where there is an abundance of volcanic and clastic sedimentary rocks of low to medium metamorphic grade. The classification of lode gold deposits remains problematic due to the variety of the host rock lithological and tectonic settings. The Little Hyland River area of Yukon has not seen much historical exploration work for gold so it is too early to categorize known showings like Culvert and 3Ace.



- ★ Mineral Occurrence
- ⛏ Mine

CULVERT PROPERTY
Figure 3. REGIONAL GEOLOGY

Universal Transverse Mercator Zone 9
 World Geodetic System 1984
 Scale 1:150 000
 0 1.25 2.5 5 km

Culvert Property
 Figure 3. Regional Geology
 Stakeholder Gold Corp.
 NTS Sheet: 105H & 105I
 Date: December 10, 2011

MID-CRETACEOUS



mKS
Selwyn Suite

ORDOVICIAN TO LOWER DEVONIAN



ODR
Road River - Selwyn

UPPER CAMBRIA TO SILURIAN



CSH
Haywire

UPPER CAMBRIAN AND ORDOVICIAN



COR
Rabbitkettle

LOWER CAMBRIAN



ICG
Gull Lake

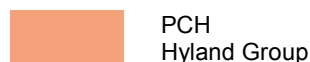


ICS
Sekwi

UPPER PROTEROZOIC TO LOWER CAMBRIAN



uPCV
Vampire Formation

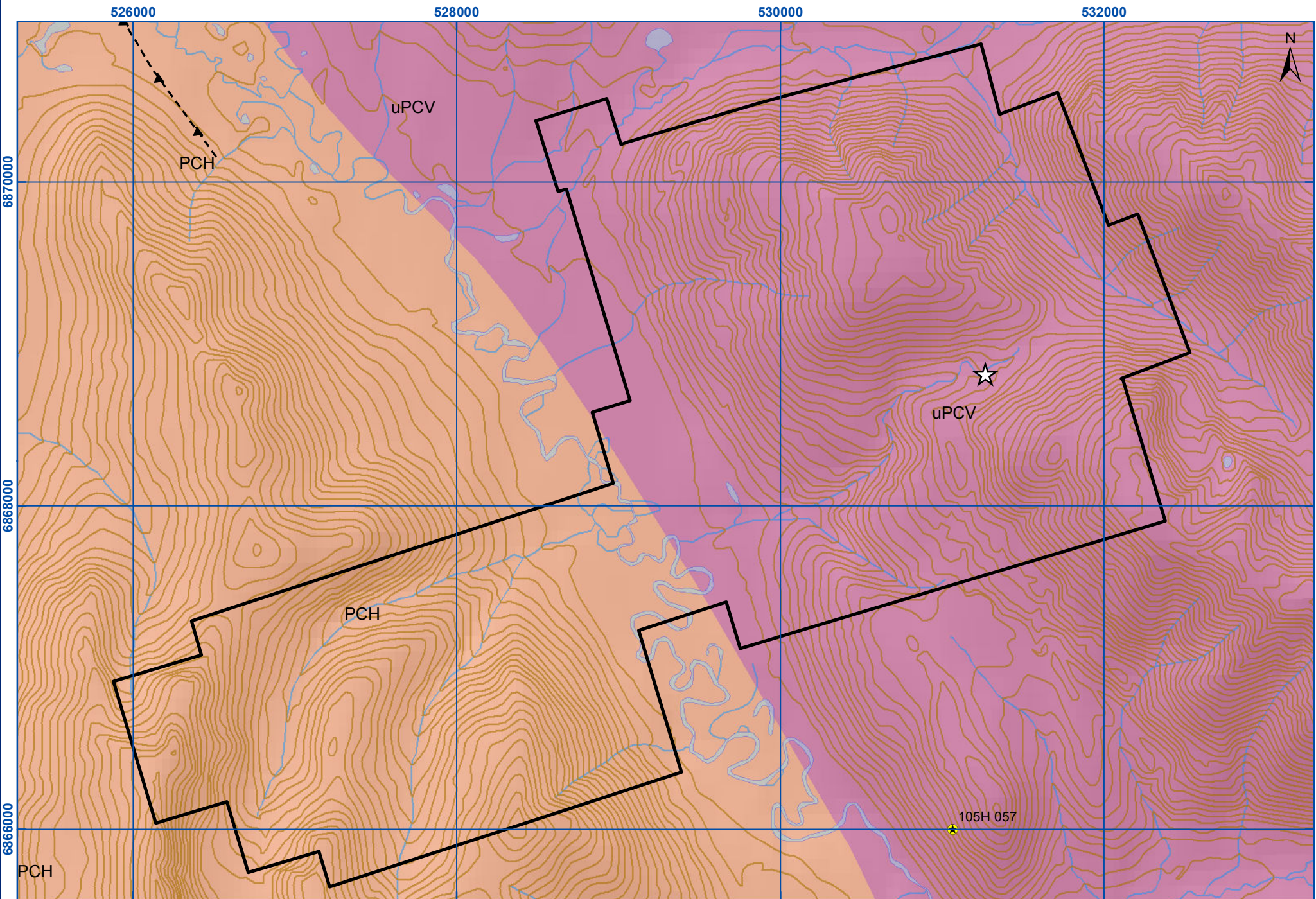


PCH
Hyland Group

SYMBOLS

	Fault, sense of movement uncertain (defined, approximate, assumed, extrapolated)
	Fault, dextral (defined, approximate, assumed, extrapolated)
	Fault, sinistral (defined, extrapolated)
	Fault, thrust, upright (defined, approximate, assumed, extrapolated)
	Fault, thrust, overturned (defined, approximate, assumed, extrapolated)
	Fault, normal/reverse (defined, approximate, assumed, extrapolated)

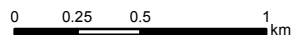
Figure 3 continued. Legend for Regional Geology



- ☆ Culvert Showing
- ★ Mineral Occurance

CULVERT PROPERTY **Figure 4. PROPERTY GEOLOGY**

Universal Transverse Mercator Zone 9
 World Geodetic System 1984
 Scale 1:30 000



Culvert Property
 Figure 4. Property Geology
 Stakeholder Gold Corp.
 NTS Sheet: 105H/15 & 16
 Date: November 25, 2011

However, in a broad sense, the gold in these showings is contained in quartz-carbonate veins that appear to be associated with brittle to ductile deformation zones. This style of mineralization is recognized globally as a sub-type of lode gold deposits (Robert, 1996). Typically this sub-type consists of simple to complex vein systems within narrow, linear fault or shear zones in deformed volcanic, sedimentary and granitic rocks consistent with low to medium-grade metamorphic processes at intermediate crustal depths in compressive tectonic settings. They are often erroneously referred to as mesothermal gold.

The Little Hyland River area is essentially a clastic sedimentary terrane. Canadian examples of similar sedimentary terranes with quartz-carbonate lode gold-type deposits include Meguma sequence in Nova Scotia, the Yellowknife district in the Northwest Territories, and the Sheep Creek district and Barkerville terrane, both in British Columbia.

Regional exploration for this type of gold mineralization must focus on major ductile or brittle fault zones. At the property scale exploration should focus on shear zones, faults, stockwork zones and extensional fractures that are secondary or adjacent to the major fault zone, and are generally slightly to moderately discordant to host rock bedding or foliation. Features such as small felsic intrusions and dykes, iron formations or mafic intrusive bodies that interrupt the main fault zone are often good places to look for quartz-carbonate zones. At the outcrop level, gold-bearing quartz-carbonate veins typically contain one or more of arsenopyrite, fuchsite, pyrite, scheelite and tourmaline. Sericite, silica, carbonate and sulphide alteration of wall rock is typical and the wall rocks often contain significant gold value.

Quartz-carbonate vein-type deposits by nature have relatively low sulphide contents and therefore do not respond readily to most geophysical methods. Geophysical surveys can be used indirectly to identify favourable structures such as faults or shear zones. Rock, soil and stream sediment geochemical surveys are generally more useful. Finally, gold mineralization related to quartz-carbonate veins is notoriously inconsistent along strike and down dip. Numerous close spaced drill holes are required to build resources.

8. Mineralization

The Culvert showing, located in the creek draining the southeastern corner of the property approximately 2.5km from the Nahanni Range Road, is the most significant gold occurrence found on the Property to date. The showing consists of a series of northwest-trending quartz carbonate veins, each up to one metre wide, hosted in intensely sericite altered phyllites (Casselman and Halle, 2010). Grab samples have returned values up to 22.8 grams per tonne (gpt Au). The gold appears to be related to arsenopyrite mineralization that ranges from semi-massive, fine-grained fracture fillings to medium-grained disseminations to local clusters of euhedral needles, and medium to coarse-grained euhedral pyrite. Malachite staining has been reported suggesting that some of the sulphides may be chalcopyrite. Gold values up to 1.3gpt Au have been obtained from mineralized bedrock lacking quartz veins. Casselman and Halle (2010) concluded that, based on the soil geochemical, prospecting and geophysical data, the gold-bearing structure exposed at the Culvert showing trends northwest.

9. 2011 Exploration Work

9.1. Introduction

Exploration work in 2011 included a detailed soil geochemical survey over the entire area of the Property with the goal of tracing the gold-bearing structure exposed at the Culvert showing. Limited prospecting and sampling was completed as well. Field work commenced on July 29, 2011 and was completed on August 14, 2011. Final results from the analytical work were delivered released received on November 21, 2011. The Junior Author compiled the field data into digital maps and wrote this Report up to December 15, 2011. A detailed Statement of Work is included herein as Appendix A.

9.2. Sampling and Analytical Procedures

The soil geochemical and limited prospecting work was done by a four-man crew on foot with helicopter set-outs from a camp located on the Nahanni Range Road south of the Property. The work program was planned under the supervision of the Senior Author and managed on a day-to-day basis by the Junior

Author. A total of 1,768 soil samples including field duplicates were collected with hand augers at 50m sample intervals on lines spaced 100m apart using GPS traverse lines. The lines were laid out at 070° azimuth in an attempt to cross the trend of the structure exposed at the Culvert showing at 90° angles.

Sample locations were tagged in the field and recorded with HP iPAQ 200 series field computers running GeoInfoMobile and Tierra Mapper software paired with Holux GPS receivers in map datum UTM WGS84 Zone 9N. Sample locations (Figure 5 and 6) and descriptions are included as Appendix B. A data CD is also included. Soil sample material varied from colluvium to lithosoil. Sample depth varied from 5 to 120cm with an average depth of 36cm.

Soil samples were placed in Kraft-type paper bags with the appropriate sample numbers marked in indelible ink. Batches of samples were subsequently dried, sealed in rice bags and shipped to Acme Analytical Laboratories Ltd. (“Acme”) in Vancouver, B.C. for analysis. Samples were dried and sieved to - 80 mesh size and analyzed for 36 elements (including gold) by 15 gram Aqua Regia digestion, ICP-MS finish (Appendix C). Acme is accredited under ISO 9001.

9.3. Data Verification

It is the Authors opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the soil and rock samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Authors have relied upon the adequacy and accuracy of the analytical results provided by Acme. Independent verification of those results has not been undertaken. No unusual variances were observed in the field duplicates. The Junior Author reconciled the field data with the analytical results and found no irregularities.

9.4. Results

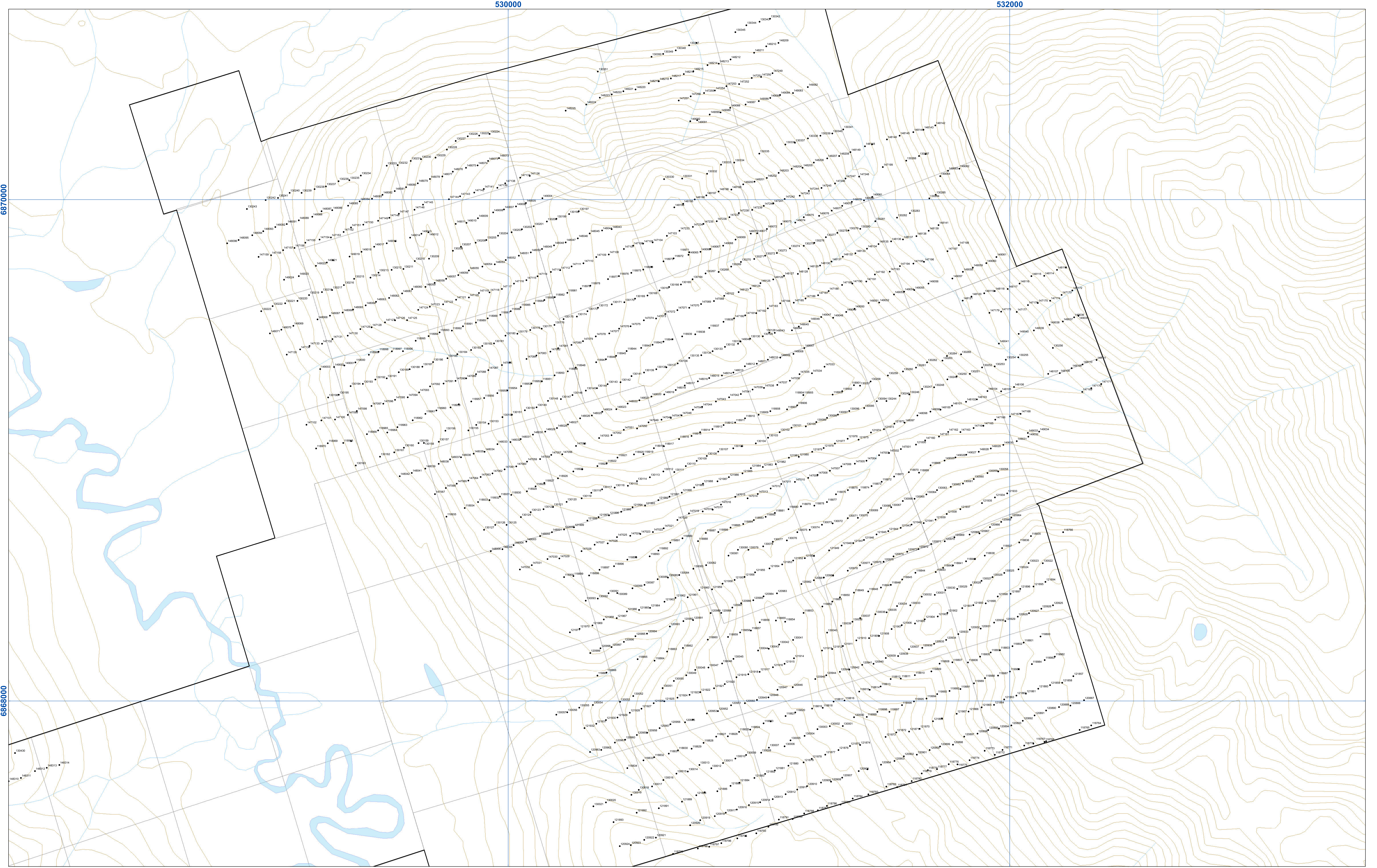
The soil samples returned gold values ranging from below the detection limit (i.e. <5ppb Au) to a maximum of 791ppb Au. The gold values when plotted clearly outline a significant northwest trending gold anomaly continuous over 1.7km from the south boundary of the Property (Figure 7). The anomaly is up to 250m wide and carries on discontinuously further to the northwest bringing the total strike extent of the zone on the Property to just over three kilometres. The anomaly clearly lines up with the Culvert showing. A second narrow gold anomaly roughly 500m long is outlined in the northwest corner of the Property.

Arsenic values correlate well with gold displaying a similar but more continuous trend (Figure 8). However the arsenic anomaly is strongest and more continuous over the discontinuous portion of the gold anomaly whereas the arsenic anomaly becomes patchy and discontinuous over the better part of the gold anomaly. Copper (Figure 9) and silver (Figure 10) both form more widely dispersed anomalous zones roughly coincident with the better part of the gold anomaly. However, copper and silver values are very low over the more northerly, discontinuous, arsenic-rich part of the gold anomaly. Antimony forms a linear anomaly parallel to and south west of this section of the anomaly but show no correlation to gold whatsoever (Figure 11). There is a strong antimony anomaly on the eastern portion of the property that requires further exploration. The western part of the Property west of the Little Hyland River shows no significant anomalies for any metals.

10. Adjacent Properties

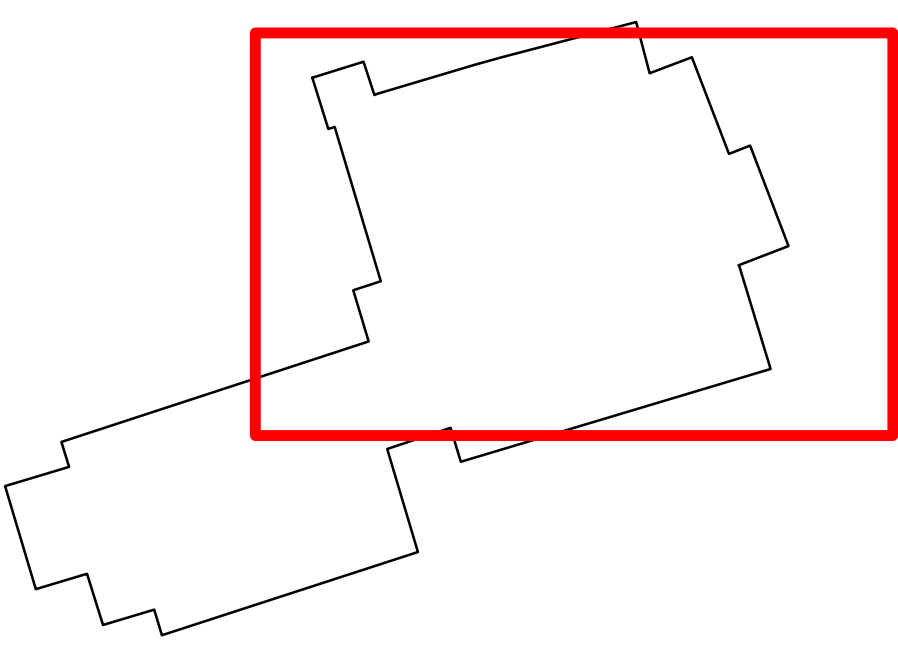
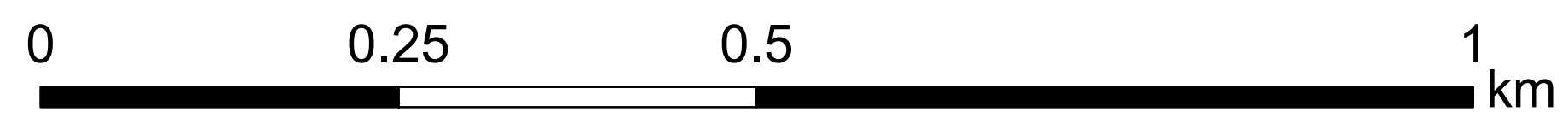
The most significant gold mineralization adjacent to the Culvert property is found on the 3Ace project located approximately 16km south of the Property. In November 2010, Northern Tiger Resources Inc. announced a new discovery at 3Ace by drilling 4.3gpt Au over 30.3m from 49.1m in its first hole and 14.8gpt Au over 10.9m from 24.6m in its second hole including 145.2gpt Au over 1.05m from 28.15m (Northern Tiger News Release November 4, 2010). The gold mineralization at 3Ace is found in quartz-carbonate veins related to a regional scale deformation zone.

The Authors have not verified the information made public on adjacent properties and cautions that **any such information is not necessarily indicative of the mineralization on the Culvert property.**

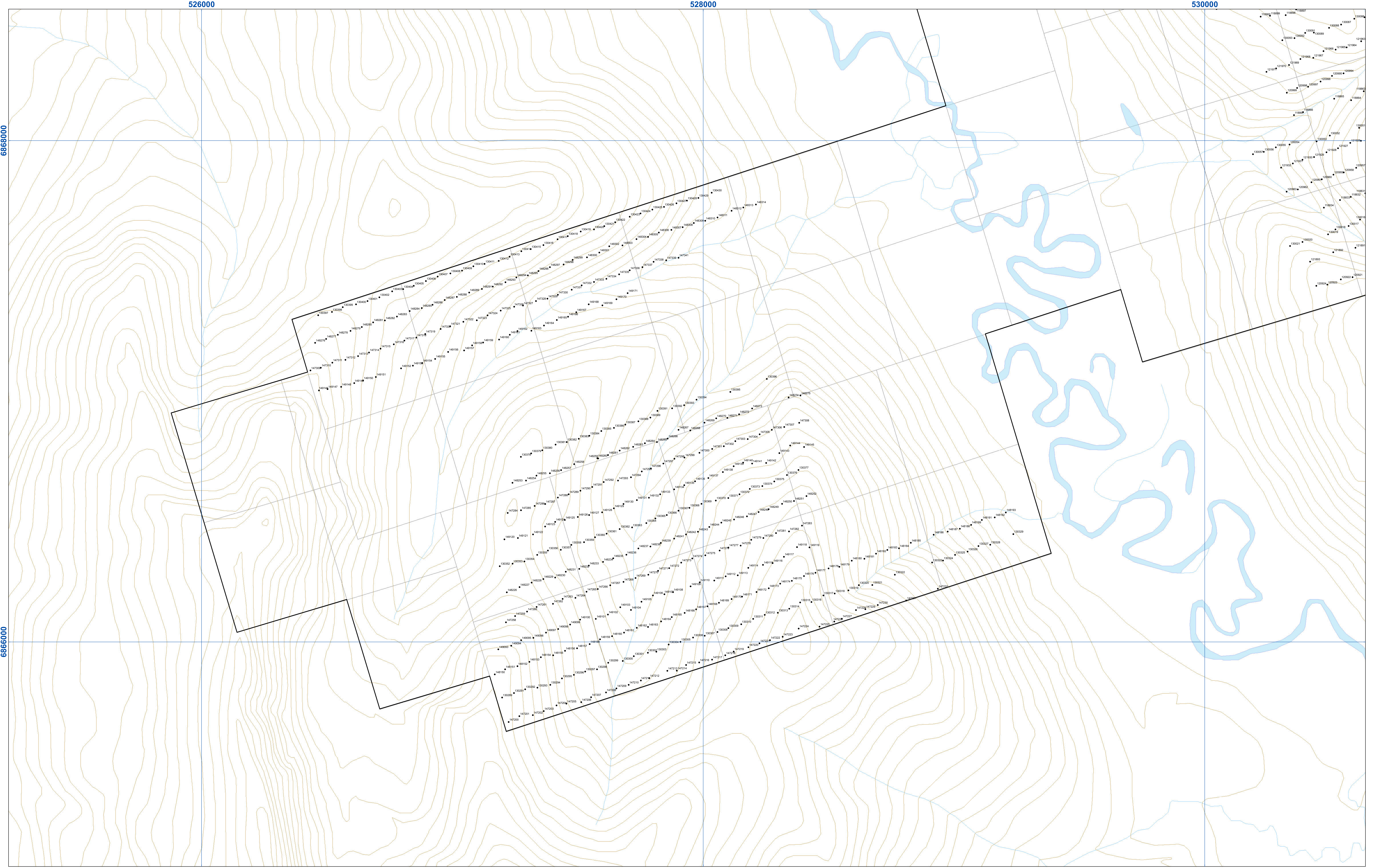


CULVERT PROPERTY
Figure 5. SAMPLE LOCATIONS I

Universal Transverse Mercator Zone 9
World Geodetic System 1984
Scale 1:4 500

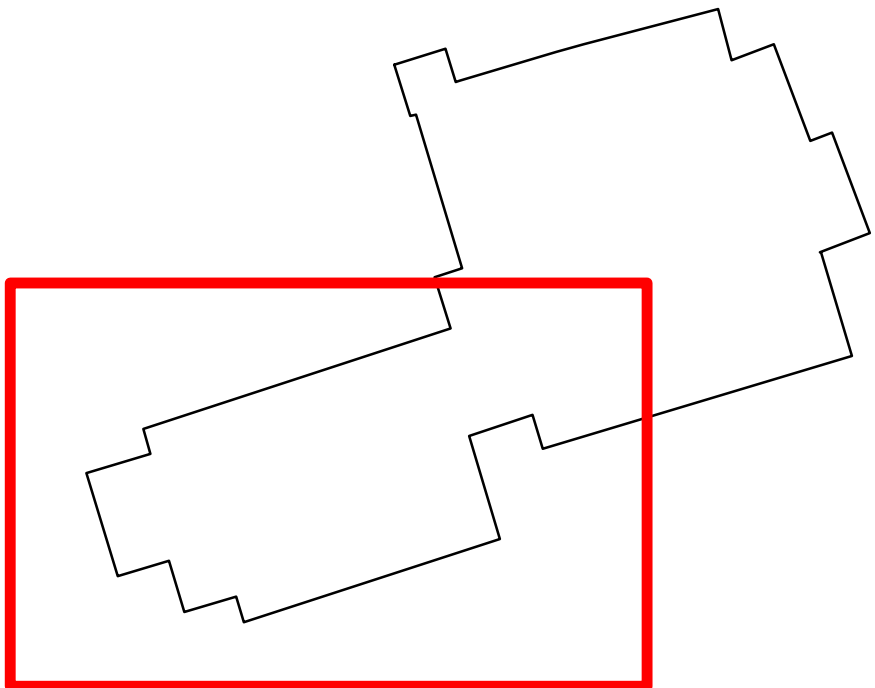
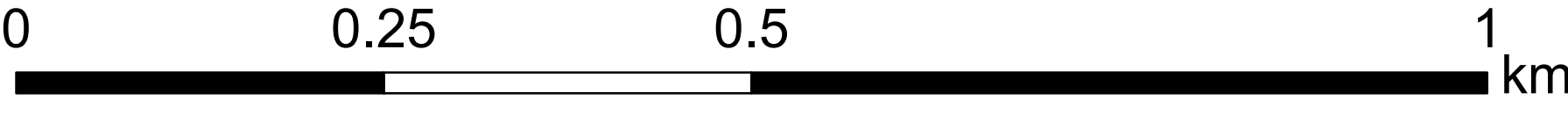


Culvert Property
Figure 5. Sample Locations I
Stakeholder Gold Corp.
NTS Sheet: 105H/15 & 16
Date: November 2, 2011



CULVERT PROPERTY
Figure 6. SAMPLE LOCATIONS II

Universal Transverse Mercator Zone 9
World Geodetic System 1984
Scale 1:4 500



Culvert Property
Figure 6. Sample Locations II
Stakeholder Gold Corp.
NTS Sheet: 105H/15 & 16
Date: November 2, 2011

11. Mineral Processing and Metallurgical Testing

To date no mineral processing or metallurgical testing has been completed at Culvert.

12. Mineral Resource and Mineral Reserve Estimates

To date no mineral resource or mineral reserve estimates have been completed at Culvert. The Property is at a “grassroots” level of exploration such that it is too early to make any resource or reserve estimates.

13. Other Relevant Data and Information

The Authors are not aware of any other relevant data and information or explanation to make this report more understandable and not misleading.

14. Interpretation of Results and Conclusions

Excellent gold values up to 791ppb Au were obtained within a clearly definable, northwest trending gold anomaly continuous over 1.7km from the south boundary. The anomaly is up to 250m wide and carries on discontinuously up to the northern boundary to give a total strike extent of 3km on the Property. The gold shows various correlations and is sometimes coincident with arsenic, copper and silver.

The gold mineralization observed seen so far at Culvert is evidently an example of quartz-carbonate lode gold deposit-type and clearly has the potential to develop into a significant resource. This type of deposit is amenable to traditional “boot and hammer” prospecting. Further exploration of the Property will have to pay close attention to areas prospective for this deposit type including faults, shear zones, stockworks and extension fractures. Workers should note any occurrence of arsenopyrite, fuchsite, pyrite, scheelite and tourmaline mineralization as well as sericite, silica, carbonate and sulphide alteration. Sharp geophysical contrasts should be investigated as possible deformation zones and magnetic lows should be investigated for alteration of iron-bearing magnetic minerals to more prospective oxide or carbonate minerals.

The 2011 results generally agree with the conclusions of previous work reported by Casselman and Halle (2010) with one important distinction. The 2011 results are stronger and more continuous southeast of the showing rather than to the northwest where most of the previous prospecting, geophysical and geochemical work has been focused. Assuming that the soil sample results reflect a bedrock source, it appears that geochemical trend southeast of the showing is more prospective than the trend to the northwest.

15. Recommendations

The 2011 soil geochemical survey met its primary goal of tracing the gold-bearing structure exposed at the Culvert showing. It is the Authors’ opinion that the Culvert property is of sufficient merit to recommend that exploration work continue.

It is recommended that the grid be extended to the northwest and southeast as far as the Property boundaries. Lines should be cut at 100m spacings at least 500m on each side of the centre baseline. Magnetic and VLF-type electromagnetic surveys should be completed as well as geological mapping, prospecting and sampling. All of these surveys should be undertaken with the aim of gaining a better understanding of possible structural controls on the gold mineralization. Drilling is also recommended to test at depth the gold-bearing structure exposed at the Culvert showing. The estimated cost of the exploration program is \$600,000 outlined in the following table:

Table 3 - Estimated Budget

Surface work	\$100,000
Drilling (1000m)	\$500,000
Total	\$600 000

16. References

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- Yukon Geological Survey - MINFILE Database # 105H 057
<http://servlet.gov.yk.ca/ygsmin/occurrence.do?occurrenceID=105H%20057>

526000

528000

530000

532000



Soil Au ppb

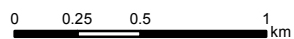
- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 60
- > 60



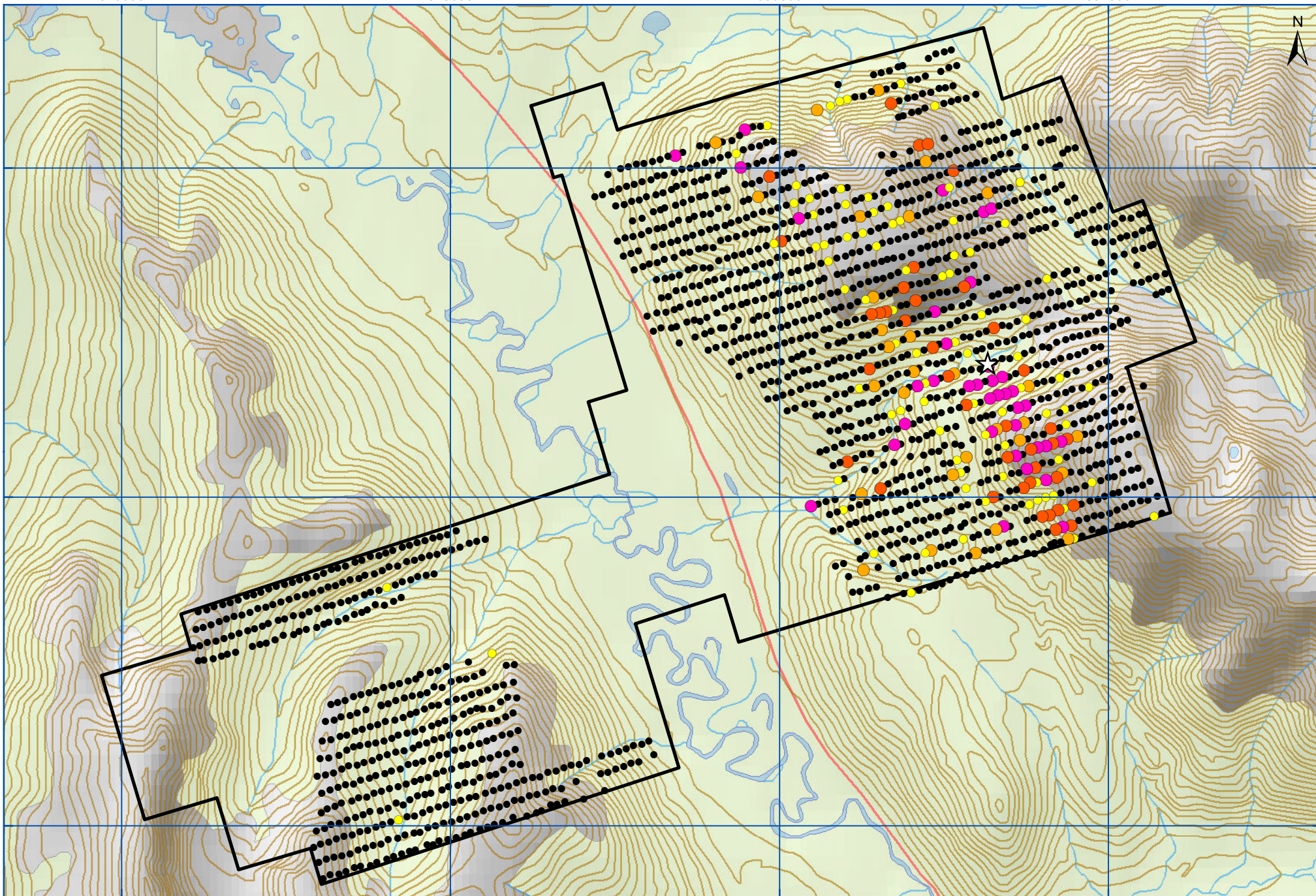
Culvert Showing

CULVERT PROPERTY **Figure 7. DETAILED GOLD ANOMALY MAP**

Universal Transverse Mercator Zone 9
 World Geodetic System 1984
 Scale 1:30 000



Culvert Property
 Figure 7. Detailed Gold Anomaly Map
 Stakeholder Gold Corp.
 NTS Sheet: 105H/15 & 16
 Date: November 25, 2011



526000

528000

530000

532000



6870000

6868000

6866000

Soil As ppm

- 0 - 28.1
- 28.1 - 73.2
- 73.2 - 116.4
- 116.4 - 186.1
- > 186.1



Culvert Showing

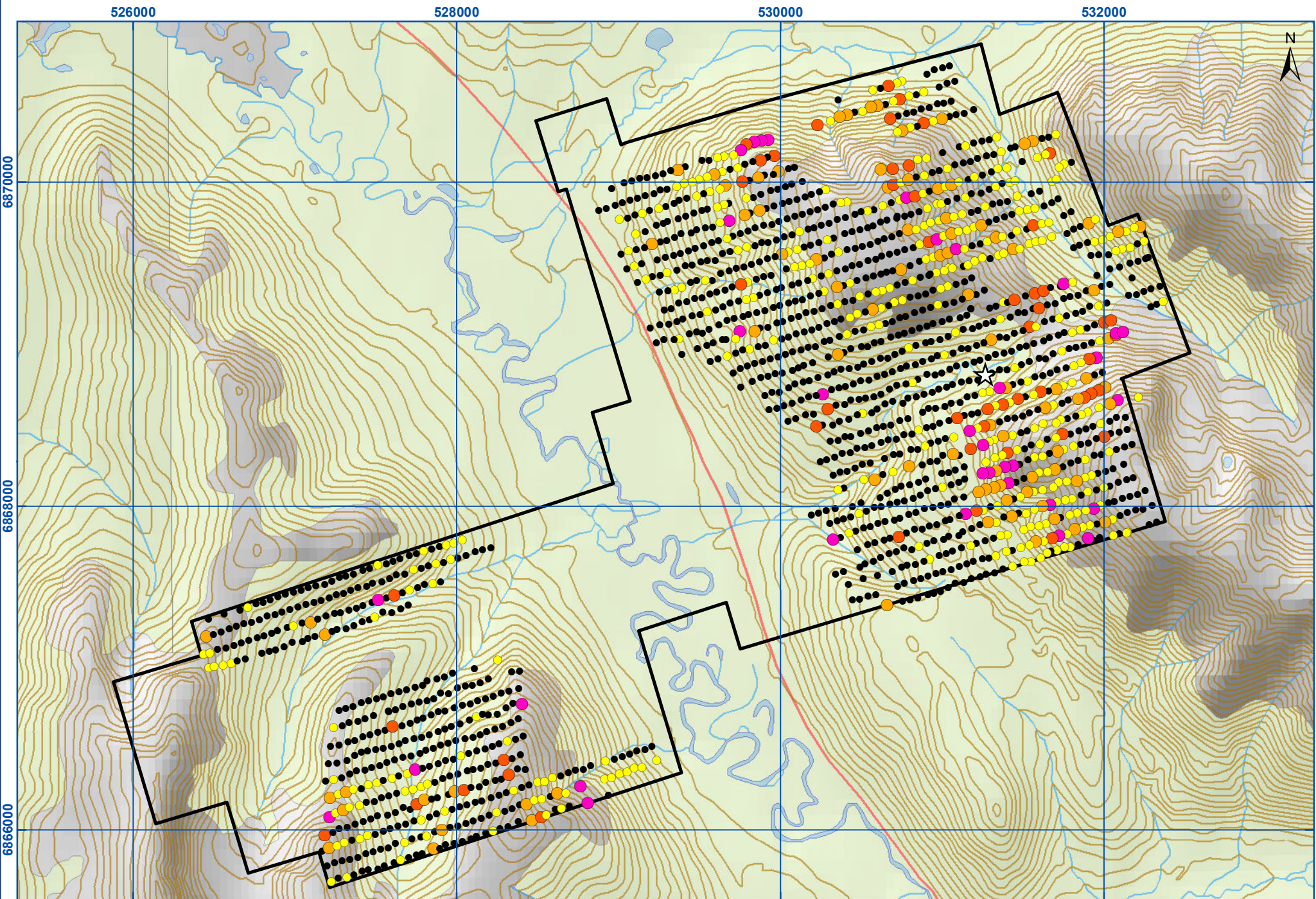
CULVERT PROPERTY Figure 8. DETAILED ARSENIC ANOMOLY MAP

Universal Transverse Mercator Zone 9
World Geodetic System 1984
Scale 1:30 000

0 0.25 0.5 1 km



Culvert Property
Figure 8. Detailed Arsenic Anomaly Map
Stakeholder Gold Corp.
NTS Sheet: 105H/15 & 16
Date: November 25, 2011



Soil Cu ppm

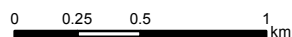
- 0 - 40.3
- 40.3 - 65.5
- 65.5 - 85.7
- 85.7 - 116.9
- > 116.9



Culvert Showing

CULVERT PROPERTY
Figure 9. DETAILED COPPER ANOMALY MAP

Universal Transverse Mercator Zone 9
 World Geodetic System 1984
 Scale 1:30 000



Culvert Property
 Figure 9. Detailed Copper Anomaly Map
 Stakeholder Gold Corp.
 NTS Sheet: 105H/15 & 16
 Date: November 25, 2011

526000

528000

530000

532000



Soil Ag ppm

● 0 - 0.1

● 0.1 - 0.2

● 0.2 - 0.3

● 0.3 - 0.4

● > 0.4



Culvert Showing

CULVERT PROPERTY **Figure 10. DETAILED SILVER ANOMOLY MAP**

Universal Transverse Mercator Zone 9

World Geodetic System 1984

Scale 1:30 000

0 0.25 0.5 1 km

Culvert Property
 Figure 10. Detailed Silver Anomaly Map
 Stakeholder Gold Corp.
 NTS Sheet: 105H/15 & 16
 Date: November 25, 2011

526000

528000

530000

532000



Soil Sb ppm

- 0 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.1
- > 1.1



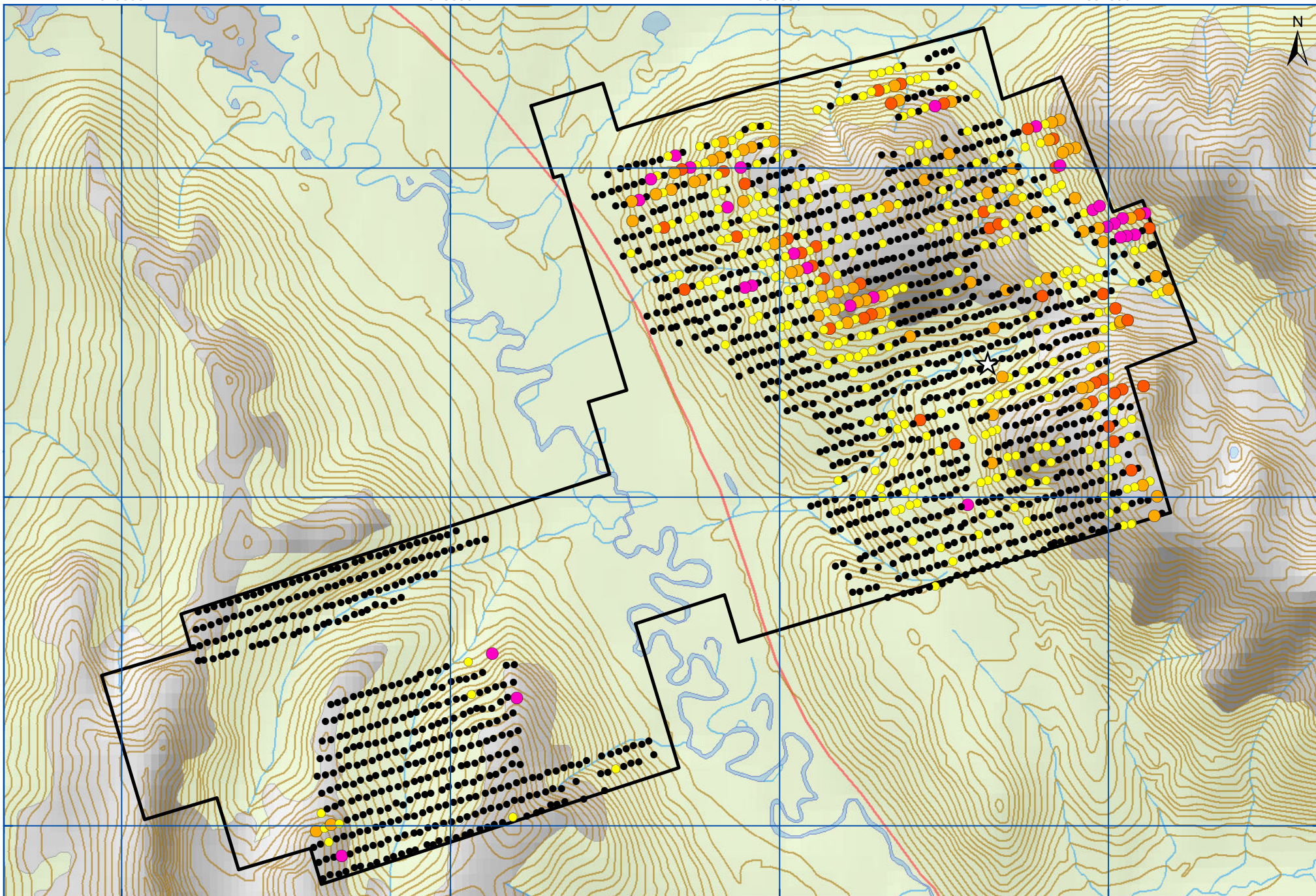
Culvert Showing

CULVERT PROPERTY
Figure 11. DETAILED ANTIMONY ANOMOLY MAP

Universal Transverse Mercator Zone 9
 World Geodetic System 1984
 Scale 1:30 000

0 0.25 0.5 1 km

Culvert Property
 Figure 11. Detailed Antimony Anomaly Map
 Stakeholder Gold Corp.
 NTS Sheet: 105H/15 & 16
 Date: November 25, 2011



Appendix A - List of Claims

Claim List for Cert of Work 2011 Culvert

Type	Claim Information			Expiry Date	Work Done		Renewal		
	Grant No.	Claim Name	Claim No.		Soil Geochem Survey		Years	Annual Fee	Total
Quartz	YC29100	CULVERT	1	4/22/2022 0:00	\$ 1,850.49		4	\$ 25.00	\$ 100.00
Quartz	YC31957	CULVERT	2	3/11/2021 0:00	\$ 1,850.49		3	\$ 25.00	\$ 75.00
Quartz	YC71979	CULVERT	3	3/17/2022 0:00	\$ -		3	\$ 25.00	\$ 75.00
Quartz	YC31958	CULVERT	4	3/11/2021 0:00	\$ -		3	\$ 25.00	\$ 75.00
Quartz	YC31959	CULVERT	5	3/11/2021 0:00	\$ 1,850.49		3	\$ 25.00	\$ 75.00
Quartz	YC31960	CULVERT	6	3/11/2021 0:00	\$ 1,850.49		3	\$ 25.00	\$ 75.00
Quartz	YC71980	CULVERT	7	3/17/2022 0:00	\$ 1,850.49		3	\$ 25.00	\$ 75.00
Quartz	YC71981	CULVERT	8	3/17/2022 0:00	\$ 1,850.49		3	\$ 25.00	\$ 75.00
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Quartz	YD17373	CULVERT	74	3/28/2016 0:00	\$ 1,850.49		0	\$ 25.00	\$ -
Quartz	YD17374	CULVERT	75	3/28/2016 0:00	\$ 1,850.49		0	\$ 25.00	\$ -
Quartz	YC73332	GOLDEN	1	3/16/2018 0:00	\$ -		4	\$ 25.00	\$ 100.00
Quartz	YC73333	GOLDEN	2	3/16/2018 0:00	\$ -		4	\$ 25.00	\$ 100.00
Quartz	YC73334	GOLDEN	3	3/16/2018 0:00	\$ -		4	\$ 25.00	\$ 100.00
				Column Total	\$ 112,879.70				\$ 7,100.00

Appendix B - Statement of Work Expenditures

I, Mark Fekete

of Val d'Or, Quebec

Phone 819-874-8182

make oath and say that:

Office Date Stamp

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work, on the following mineral claim(s): (Here list claims on which work was actually done by number and name)

See attached schedule

situated at Little Highland River Claim sheet No. 105H16

in the Watson Lake Mining District, to the value of at least 112,879.70 dollars,

since the 23rd day of July 2011,

to represent the following mineral claims under the authority of Grouping Certificate No. .
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

See attached schedule

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56).

The work included a soil geochemical survey over the entire block of 75 claims. The work began July 23 and continued until September 10, 2011. A total of 1768 samples were collected.

Sworn before me at _____ this _____ day of _____ 20____.

Notary Public

Owner or Authorized Agent

Supplier	Invoice	Date			Geochem							Total
					Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Total
Name	Ref No.	Date	Month	Project	5150	5151	5152	5153	5154	5155	5156	Total
Heli-Dynamics	11829	14-Aug-11	08-11	Culvert				1,620.00				1,620.00
Heli-Dynamics	11828	13-Aug-11	08-11	Culvert				1,080.00				1,080.00
Heli-Dynamics	11827	11-Aug-11	08-11	Culvert				1,215.00				1,215.00
Heli-Dynamics	10473		08-11	Culvert				1,080.00				1,080.00
Heli-Dynamics	11825	10-Aug-11	08-11	Culvert				1,080.00				1,080.00
Heli-Dynamics	11823	9-Aug-11	08-11	Culvert				945.00				945.00
Heli-Dynamics	11821		08-11	Culvert				1,350.00				1,350.00
Heli-Dynamics	10470	6-Aug-11	08-11	Culvert				1,215.00				1,215.00
Heli-Dynamics	10468	5-Aug-11	08-11	Culvert				1,350.00				1,350.00
Heli-Dynamics	10466	4-Aug-11	08-11	Culvert				1,350.00				1,350.00
Heli-Dynamics	10464	3-Aug-11	08-11	Culvert				1,350.00				1,350.00
Heli-Dynamics	10462	2-Aug-11	08-11	Culvert				1,350.00				1,350.00
Heli-Dynamics	10460	1-Aug-11	08-11	Culvert				675.00				675.00
Heli-Dynamics	11712	31-Jul-11	08-11	Culvert				1,215.00				1,215.00
Heli-Dynamics	11710	30-Jul-11	08-11	Culvert				1,215.00				1,215.00
Heli-Dynamics	11709	29-Jul-11	08-11	Culvert				1,215.00				1,215.00
Super Save Propane	201427	26-Jul-11	07-11	Culvert			645.00					645.00
Twilite	345001	4-Sep-11	09-11	Culvert	1,500.00							1,500.00
Breakaway	693	22-Aug-11	08-11	Culvert	36,900.00							36,900.00
Breakaway	693	22-Aug-11	08-11	Culvert		3,020.89						3,020.89
Breakaway	693	22-Aug-11	08-11	Culvert			4,827.52					4,827.52
Breakaway	693	22-Aug-11	08-11	Culvert				14,488.49				14,488.49
Breakaway	693	22-Aug-11	08-11	Culvert					1,960.00			1,960.00
Estimated Acme				Culvert							30,232.80	30,232.80
bottom					38,400.00	3,020.89	5,472.52	33,793.49	1,960.00	0.00	30,232.80	112,879.70

Appendix C - Sample Locations and Descriptions

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118764	29/07/2011	DrewMacPhail	532325	6867903	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	20	Dry	Good	AlpineBare
118765	29/07/2011	DrewMacPhail	532279	6867885	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	60	Dry	Good	AlpineBare
118766	29/07/2011	DrewMacPhail				Lithosoil	Brown	Sand	RidgeAlpine	C	20	Dry	Good	AlpineBare
118767	29/07/2011	DrewMacPhail	532145	6867839	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
118768	29/07/2011	DrewMacPhail	532139	6867837	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	20	Dry	Good	AlpineBare
118769	29/07/2011	DrewMacPhail	532094	6867830	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	20	Dry	Excellent	AlpineBare
118770	29/07/2011	DrewMacPhail	532058	6867822	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	20	Dry	Good	AlpineBare
118771	29/07/2011	DrewMacPhail	531971	6867805	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	25	Dry	Excellent	AlpineBare
118772	29/07/2011	DrewMacPhail	531940	6867785	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	35	Dry	Good	AlpineBare
118773	29/07/2011	DrewMacPhail	531900	6867802	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	20	Dry	Excellent	AlpineBare
118774	29/07/2011	DrewMacPhail	531840	6867764	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
118775	29/07/2011	DrewMacPhail	531791	6867747	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	20	Dry	Good	AlpineBare
118776	29/07/2011	DrewMacPhail	531757	6867748	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	20	Dry	Excellent	AlpineBare
118777	29/07/2011	DrewMacPhail	531710	6867728	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Dry	Excellent	AlpineBare
118778	29/07/2011	DrewMacPhail	531673	6867724	UTMZ9N WGS84	Colluvium	Brown	Silt	SteepSW	C	60	Moist	Excellent	AlpineBare
118779	29/07/2011	DrewMacPhail	531649	6867711	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Excellent	AlpineBare
118780	29/07/2011	DrewMacPhail	531609	6867681	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Moist	Good	AlpineBare
118781	29/07/2011	DrewMacPhail	531551	6867656	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Dry	Good	AlpineBare
118782	29/07/2011	DrewMacPhail	531508	6867659	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
118783	29/07/2011	DrewMacPhail	531436	6867628	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	B	35	Dry	Poor	AlpineBare
118784	29/07/2011	DrewMacPhail	531374	6867611	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Dry	Excellent	AlpineBare
118785	29/07/2011	DrewMacPhail	531325	6867587	UTMZ9N WGS84	Colluvium	Brown		ModerateSW	C	60	Moist	Good	AlpineBare
118786	29/07/2011	DrewMacPhail	531271	6867581	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	50	Moist	Good	AlpineBare
118787	29/07/2011	DrewMacPhail	531235	6867564	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	B	40	Moist	Good	AlpineBare
118788	29/07/2011	DrewMacPhail	531180	6867552	UTMZ9N WGS84	Colluvium	Brown	Sand	Flat	C	30	Moist	Excellent	SubAlpineBrush
118789	29/07/2011	DrewMacPhail	531134	6867529	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	50	Moist	Excellent	AlpineBare
118791	29/07/2011	DrewMacPhail	531079	6867527	UTMZ9N WGS84	Colluvium	Brown	Sand	Drainage	C	45	Moist	Excellent	AlpineBare
118792	29/07/2011	DrewMacPhail	531038	6867498	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Moist	Good	AlpineBare
118793	29/07/2011	DrewMacPhail	530989	6867472	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Dry	Good	AlpineBare
118794	29/07/2011	DrewMacPhail	530947	6867462	UTMZ9N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Good	AlpineBare
118795	29/07/2011	DrewMacPhail	530914	6867452	UTMZ9N WGS84	Colluvium	Brown	Sand	Flat	C	50	Moist	Excellent	AlpineBare
118796	29/07/2011	DrewMacPhail	530850	6867433	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	35	Moist	Good	AlpineBare
118797	29/07/2011	DrewMacPhail	530801	6867419	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	50	Moist	Good	AlpineBare
118798	29/07/2011	DrewMacPhail	530756	6867411	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist	Good	AlpineBare
118799	29/07/2011	DrewMacPhail	530658	6867390	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	B	50	Dry	Good	AlpineBare
118800	30/07/2011	DrewMacPhail	532122	6868257	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateSW	C	30	Moist	Excellent	AlpineBare
118801	30/07/2011	DrewMacPhail	532055	6868233	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118802	30/07/2011	DrewMacPhail	532011	6868219	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	20	Moist	Good	AlpineBare
118803	30/07/2011	DrewMacPhail	531961	6868203	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118804	30/07/2011	DrewMacPhail	531924	6868193	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118805	30/07/2011	DrewMacPhail	531882	6868177	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Dry	Excellent	AlpineBare
118806	30/07/2011	DrewMacPhail	531833	6868154	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118807	30/07/2011	DrewMacPhail	531771	6868154	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118808	30/07/2011	DrewMacPhail	531720	6868149	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118809	30/07/2011	DrewMacPhail	531687	6868118	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118810	30/07/2011	DrewMacPhail	531621	6868103	UTMZ9N WGS84	Soil	Brown	Sand	SteepSW	C	20	Moist	Excellent	AlpineBare
118811	30/07/2011	DrewMacPhail	531565	6868089	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	20	Moist	Good	AlpineBare
118812	30/07/2011	DrewMacPhail	531525	6868088	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118813	30/07/2011	DrewMacPhail	531485	6868058	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	20	Moist	Good	AlpineBare
118814	30/07/2011	DrewMacPhail	531442	6868045	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	20	Moist	Good	AlpineBare
118815	30/07/2011	DrewMacPhail	531400	6868038	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	20	Moist	Good	AlpineBare
118816	30/07/2011	DrewMacPhail	531341	6868002	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Dry	Good	AlpineBare
118817	30/07/2011	DrewMacPhail	531298	6867998	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118818	30/07/2011	DrewMacPhail	531254	6867973	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare
118819	30/07/2011	DrewMacPhail	531212	6867970	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118820	30/07/2011	DrewMacPhail	531145	6867954	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	10	Moist	Good	AlpineBare
118821	30/07/2011	DrewMacPhail	531106	6867940	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Good	AlpineBare
118822	30/07/2011	DrewMacPhail	531047	6867919	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C		Dry	Good	AlpineBare
118823	30/07/2011	DrewMacPhail	531018	6867911	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Dry	Good	AlpineBare
118824	30/07/2011	DrewMacPhail	530965	6867886	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	20	Moist	Good	AlpineBare
118825	30/07/2011	DrewMacPhail	530921	6867877	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	10	Moist	Good	AlpineBare
118826	30/07/2011	DrewMacPhail	530876	6867859	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Good	AlpineBare
118827	30/07/2011	DrewMacPhail	530829	6867858	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Good	AlpineBare
118828	30/07/2011	DrewMacPhail	530779	6867833	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	20	Moist	Good	AlpineBare
118829	30/07/2011	DrewMacPhail	530731	6867809	UTMZ9N WGS84	Colluvium	Brown	Sand	Flat	C	30	Moist	Good	AlpineBare
118830	30/07/2011	DrewMacPhail	530677	6867803	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	25	Dry	Good	AlpineBare
118831	30/07/2011	DrewMacPhail	530640	6867790	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	25	Moist	Excellent	AlpineBare
118832	30/07/2011	DrewMacPhail	530582	6867775	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118833	30/07/2011	DrewMacPhail	530539	6867763	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118834	30/07/2011	DrewMacPhail	530475	6867732	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118835	31/07/2011	DrewMacPhail	532084	6868658	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118836	31/07/2011	DrewMacPhail	532038	6868632	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118837	31/07/2011	DrewMacPhail	531969	6868610	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118838	31/07/2011	DrewMacPhail	531900	6868580	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118839	31/07/2011	DrewMacPhail	531861	6868566	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Excellent	AlpineBare
118840	31/07/2011	DrewMacPhail	531826	6868557	UTMZ9N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	30	Moist	Excellent	AlpineBare
118841	31/07/2011	DrewMacPhail	531774	6868541	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118842	31/07/2011	DrewMacPhail	531734	6868531	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118843	31/07/2011	DrewMacPhail	531705	6868514	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118844	31/07/2011	DrewMacPhail	531624	6868511	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Moist	Good	AlpineBare
118845	31/07/2011	DrewMacPhail	531571	6868485	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	10	Moist	Good	AlpineBare
118846	31/07/2011	DrewMacPhail	531526	6868463	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	10	Moist	Excellent	AlpineBare
118847	31/07/2011	DrewMacPhail	531486	6868453	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	B	60	Moist	Good	AlpineBare
118848	31/07/2011	DrewMacPhail	531436	6868437	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	10	Moist	Good	AlpineBare
118849	31/07/2011	DrewMacPhail	531379	6868432	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118850	31/07/2011	DrewMacPhail	531323	6868413	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Frozen	Good	AlpineBare
118851	31/07/2011	DrewMacPhail	531292	6868396	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118852	31/07/2011	DrewMacPhail	531253	6868377	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118853	31/07/2011	DrewMacPhail	531178	6868351	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare
118854	31/07/2011	DrewMacPhail	531104	6868316	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	10	Moist	Good	AlpineBare
118855	31/07/2011	DrewMacPhail	531067	6868321	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateE	C	30	Dry	Good	AlpineBare
118856	31/07/2011	DrewMacPhail	531003	6868314	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	25	Moist	Good	AlpineBare
118857	31/07/2011	DrewMacPhail	530968	6868281	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	10	Moist	Good	AlpineBare
118858	31/07/2011	DrewMacPhail	530925	6868273	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	B	60	Moist	Good	AlpineBare
118859	31/07/2011	DrewMacPhail	530876	6868256	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	10	Moist	Good	AlpineBare
118860	31/07/2011	DrewMacPhail	530796	6868245	UTMZ9N WGS84	Colluvium	Brown	Clay	ModerateSW	B	30	Moist	Good	AlpineBare
118862	31/07/2011	DrewMacPhail	530697	6868211	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	10	Moist	Excellent	AlpineBare
118863	31/07/2011	DrewMacPhail	530634	6868197	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	10	Moist	Good	AlpineBare
118864	31/07/2011	DrewMacPhail	530583	6868161	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
118865	31/07/2011	DrewMacPhail	530516	6868167	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Good	AlpineBare
118866	31/07/2011	DrewMacPhail	530392	6868113	UTMZ9N WGS84	Colluvium	Brown	Sand	Drainage	C	35	Moist	Good	AlpineBare
118867	31/07/2011	DrewMacPhail	530356	6868102	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepE	C	10	Moist	Good	AlpineBare
118868	01/08/2011	DrewMacPhail	531684	6868940	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	35	Moist	Good	AlpineBare
118869	01/08/2011	DrewMacPhail	531638	6868911	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	10	Moist	Excellent	AlpineBare
118870	01/08/2011	DrewMacPhail	531597	6868913	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Moist	Good	AlpineBare
118871	01/08/2011	DrewMacPhail	531539	6868895	UTMZ9N WGS84		Brown	Sand	ModerateNW	C	10	Moist	Excellent	AlpineBare
118872	01/08/2011	DrewMacPhail	531489	6868875	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	10	Moist	Excellent	AlpineBare
118873	01/08/2011	DrewMacPhail	531449	6868857	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Moist	Excellent	AlpineBare
118874	01/08/2011	DrewMacPhail	531401	6868842	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Moist	Good	AlpineBare
118875	01/08/2011	DrewMacPhail	531354	6868842	UTMZ9N WGS84	Colluvium	Brown	Sand	Flat	C	30	Moist	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118876	01/08/2011	DrewMacPhail	531307	6868825	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	35	Moist	Good	AlpineBare
118877	01/08/2011	DrewMacPhail	531271	6868794	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	20	Moist	Excellent	AlpineBare
118878	01/08/2011	DrewMacPhail	531221	6868779	UTMZ9N WGS84	Colluvium	Brown	Sand	Drainage	C	20	Moist	Excellent	AlpineBare
118879	01/08/2011	DrewMacPhail	531167	6868776	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	10	Moist	Good	AlpineBare
118880	01/08/2011	DrewMacPhail	531118	6868765	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Moist	Good	AlpineBare
118881	01/08/2011	DrewMacPhail	531063	6868750	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	20	Moist	Excellent	AlpineBare
118882	01/08/2011	DrewMacPhail	531027	6868735	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Moist	Good	AlpineBare
118883	01/08/2011	DrewMacPhail	530980	6868722	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Moist	Good	AlpineBare
118884	01/08/2011	DrewMacPhail	530937	6868706	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	35	Moist	Excellent	AlpineBare
118885	01/08/2011	DrewMacPhail	530886	6868692	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	45	Moist	Good	AlpineBare
118886	01/08/2011	DrewMacPhail	530838	6868674	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Dry	Excellent	AlpineBare
118887	01/08/2011	DrewMacPhail	530788	6868671	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	10	Dry	Good	AlpineBare
118888	01/08/2011	DrewMacPhail	530757	6868638	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	45	Moist	Good	AlpineBare
118889	01/08/2011	DrewMacPhail	530695	6868649	UTMZ9N WGS84	Colluvium	Grey	Sand	SteepSE	C	10	Moist	Good	AlpineBare
118891	01/08/2011	DrewMacPhail	530647	6868632	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Moist	Good	AlpineBare
118892	01/08/2011	DrewMacPhail	530599	6868600	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Good	AlpineBare
118893	01/08/2011	DrewMacPhail	530564	6868577	UTMZ9N WGS84	Colluvium	Brown	Gravel	ModerateSE	C	50	Moist	Excellent	AlpineBare
118894	01/08/2011	DrewMacPhail	530510	6868574	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	C	30	Moist	Good	SubAlpineAlder
118895	01/08/2011	DrewMacPhail	530475	6868564	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Moist	Good	SubAlpineAlder
118896	01/08/2011	DrewMacPhail	530422	6868538	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Moist	Good	AlpineBare
118897	01/08/2011	DrewMacPhail	530364	6868523	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	35	Moist	Good	SubAlpineAlder
118898	01/08/2011	DrewMacPhail	530323	6868501	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	30	Moist	Good	SubAlpineAlder
118899	01/08/2011	DrewMacPhail	530260	6868498	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	SubAlpineAlder
118900	01/08/2011	DrewMacPhail	530223	6868494	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Moist	Good	SubAlpineBrush
118901	02/08/2011	DrewMacPhail	531379	6869260	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	10	Moist	Good	AlpineBare
118902	02/08/2011	DrewMacPhail	531332	6869236	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	C	20	Moist	Excellent	AlpineBare
118903	02/08/2011	DrewMacPhail	531294	6869222	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	C	10	Moist	Good	AlpineBare
118904	02/08/2011	DrewMacPhail	531177	6869221	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	B	50	Moist	Excellent	AlpineBare
118905	02/08/2011	DrewMacPhail	531177	6869221	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	C	10	Moist	Good	AlpineBare
118906	02/08/2011	DrewMacPhail	531152	6869179	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	C	30	Moist	Good	AlpineBare
118907	02/08/2011	DrewMacPhail	531112	6869163	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	C	35	Moist	Good	AlpineBare
118908	02/08/2011	DrewMacPhail	531045	6869156	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	C	40	Moist	Good	AlpineBare
118909	02/08/2011	DrewMacPhail	530999	6869142	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	30	Moist	Good	AlpineBare
118910	02/08/2011	DrewMacPhail	530944	6869127	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	10	Moist	Good	AlpineBare
118911	02/08/2011	DrewMacPhail	530905	6869111	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	40	Moist	Excellent	AlpineBare
118912	02/08/2011	DrewMacPhail	530859	6869101	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	30	Moist	Good	AlpineBare
118913	02/08/2011	DrewMacPhail	530814	6869085	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	50	Moist	Good	AlpineBare
118914	02/08/2011	DrewMacPhail	530766	6869072	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	60	Moist	Good	AlpineBare
118915	02/08/2011	DrewMacPhail	530731	6869058	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	60	Moist	Good	AlpineBare
118916	02/08/2011	DrewMacPhail	530681	6869045	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	60	Moist	Excellent	AlpineBare
118917	02/08/2011	DrewMacPhail	530621	6869017	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	40	Dry	Good	AlpineBare
118918	02/08/2011	DrewMacPhail	530581	6869008	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	60	Moist	Good	AlpineBare
118919	02/08/2011	DrewMacPhail	530539	6868985	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	60	Moist	Good	AlpineBare
118920	02/08/2011	DrewMacPhail	530502	6868984	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	35	Moist	Good	AlpineBare
118921	02/08/2011	DrewMacPhail	530436	6868971	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	SubAlpineBrush
118922	02/08/2011	DrewMacPhail	530393	6868948	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	35	Moist	Good	AlpineBare
118923	02/08/2011	DrewMacPhail	530356	6868937	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	35	Moist	Excellent	AlpineBare
118924	02/08/2011	DrewMacPhail	530295	6868924	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	50	Moist	Good	AlpineBare
118925	02/08/2011	DrewMacPhail	530260	6868916	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	10	Dry	Good	AlpineBare
118926	02/08/2011	DrewMacPhail	530198	6868888	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Excellent	AlpineBare
118927	02/08/2011	DrewMacPhail	530144	6868870	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	C	50	Moist	Good	AlpineBare
118928	02/08/2011	DrewMacPhail	530109	6868856	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	10	Dry	Good	AlpineBare
118929	02/08/2011	DrewMacPhail	530075	6868837	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateS	C	20	Dry	Good	AlpineBare
118930	02/08/2011	DrewMacPhail	530012	6868822	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepS	B	30	Moist	Good	AlpineBare
118931	02/08/2011	DrewMacPhail	529967	6868816	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118932	02/08/2011	DrewMacPhail	529925	6868802	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Good	SubAlpineBrush
118933	02/08/2011	DrewMacPhail	529880	6868794	UTMZ9N WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	40	Moist	Good	AlpineBare
118934	02/08/2011	DrewMacPhail	529827	6868770	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	35	Moist	Excellent	AlpineBare
118935	02/08/2011	DrewMacPhail	529754	6868735	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare
118936	03/08/2011	DrewMacPhail	530859	6869513	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	40	Dry	Excellent	AlpineBare
118937	03/08/2011	DrewMacPhail	530802	6869488	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
118938	03/08/2011	DrewMacPhail	530746	6869463	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	35	Dry	Good	AlpineBare
118939	03/08/2011	DrewMacPhail	530694	6869455	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	45	Dry	Good	AlpineBare
118940	03/08/2011	DrewMacPhail	530655	6869443	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	40	Dry	Excellent	AlpineBare
118941	03/08/2011	DrewMacPhail	530619	6869433	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	30	Dry	Good	AlpineBare
118942	03/08/2011	DrewMacPhail	530576	6869421	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	40	Moist	Good	AlpineBare
118943	03/08/2011	DrewMacPhail	530530	6869408	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	40	Moist	Excellent	AlpineBare
118944	03/08/2011	DrewMacPhail	530472	6869396	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	30	Moist	Good	AlpineBare
118945	03/08/2011	DrewMacPhail	530430	6869377	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	B	40	Dry	Good	AlpineBare
118946	03/08/2011	DrewMacPhail	530390	6869363	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	60	Moist	Excellent	AlpineBare
118947	03/08/2011	DrewMacPhail	530351	6869351	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Dry	Good	AlpineBare
118948	03/08/2011	DrewMacPhail	530269	6869330	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	35	Moist	Good	AlpineBare
118949	03/08/2011	DrewMacPhail	530238	6869315	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Moist	Good	AlpineBare
118950	03/08/2011	DrewMacPhail	530185	6869299	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Dry	Good	AlpineBare
118951	03/08/2011	DrewMacPhail	530135	6869275	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	45	Moist	Excellent	AlpineBare
118952	03/08/2011	DrewMacPhail	530093	6869266	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	45	Dry	Good	AlpineBare
118953	03/08/2011	DrewMacPhail	530052	6869256	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	40	Moist	Good	AlpineBare
118954	03/08/2011	DrewMacPhail	529997	6869239	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Moist	Good	AlpineBare
118955	03/08/2011	DrewMacPhail	529957	6869228	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Good	AlpineBare
118956	03/08/2011	DrewMacPhail	529904	6869209	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	45	Dry	Excellent	AlpineBare
118957	03/08/2011	DrewMacPhail	529853	6869195	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	C	30	Moist	Good	SubAlpineBrush
118958	03/08/2011	DrewMacPhail	529803	6869183	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	A	45	Moist	Good	AlpineBare
118959	03/08/2011	DrewMacPhail	529770	6869171	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepW	B	30	Moist	Good	SubAlpineBrush
118960	03/08/2011	DrewMacPhail	529714	6869159	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Good	AlpineBare
118961	03/08/2011	DrewMacPhail	529670	6869146	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Excellent	AlpineBare
118962	03/08/2011	DrewMacPhail	529619	6869120	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Moist	Excellent	AlpineBare
118963	03/08/2011	DrewMacPhail	529558	6869092	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Good	AlpineBare
118964	03/08/2011	DrewMacPhail	529518	6869071	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Moist	Excellent	AlpineBare
118965	03/08/2011	DrewMacPhail	529482	6869079	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
118966	03/08/2011	DrewMacPhail	529437	6869065	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Excellent	AlpineBare
118967	03/08/2011	DrewMacPhail	529373	6869036	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Moist	Good	AlpineBare
118968	03/08/2011	DrewMacPhail	529342	6869029	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
118969	03/08/2011	DrewMacPhail	529281	6869028	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Dry	Good	AlpineBare
118970	03/08/2011	DrewMacPhail	529234	6869007	UTMZ9N WGS84	Glacial	Brown	Sand	ModerateSW	C	30	Moist	Excellent	AlpineBare
118971	04/08/2011	DrewMacPhail	530722	6869790	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	25	Moist	Excellent	AlpineBare
118972	04/08/2011	DrewMacPhail	530660	6869766	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	50	Moist	Good	AlpineBare
118973	04/08/2011	DrewMacPhail	530619	6869754	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118974	04/08/2011	DrewMacPhail	530572	6869732	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Good	AlpineBare
118975	04/08/2011	DrewMacPhail	530491	6869708	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Moist	Excellent	AlpineBare
118976	04/08/2011	DrewMacPhail	530442	6869695	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	50	Dry	Excellent	AlpineBare
118977	04/08/2011	DrewMacPhail	530398	6869683	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Excellent	AlpineBare
118978	04/08/2011	DrewMacPhail	530327	6869657	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
118979	04/08/2011	DrewMacPhail	530289	6869645	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Excellent	AlpineBare
118980	04/08/2011	DrewMacPhail	530539	6869721	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	20	Moist	Excellent	AlpineBare
118981	04/08/2011	DrewMacPhail	530236	6869628	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Good	AlpineBare
118982	04/08/2011	DrewMacPhail	530186	6869611	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Excellent	AlpineBare
118983	04/08/2011	DrewMacPhail	530144	6869600	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	C	30	Moist	Good	AlpineBare
118984	04/08/2011	DrewMacPhail	530104	6869586	UTMZ9N WGS84	Colluvium	Brown		ModerateSW	C	45	Dry	Excellent	AlpineBare
118985	04/08/2011	DrewMacPhail	530050	6869571	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Moist	Excellent	AlpineBare
118986	04/08/2011	DrewMacPhail	530010	6869555	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	100	Dry	Excellent	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118987	04/08/2011	DrewMacPhail	529969	6869541	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	C	55	Moist	Excellent	AlpineBare
118988	04/08/2011	DrewMacPhail	529918	6869527	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	45	Moist	Excellent	AlpineBare
118989	04/08/2011	DrewMacPhail	529872	6869509	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Good	AlpineBare
118991	04/08/2011	DrewMacPhail	529820	6869495	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Moist	Good	AlpineBare
118992	04/08/2011	DrewMacPhail	529775	6869478	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist	Excellent	AlpineBare
118993	04/08/2011	DrewMacPhail	529726	6869470	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
118994	04/08/2011	DrewMacPhail	529682	6869455	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Dry	Excellent	AlpineBare
118995	04/08/2011	DrewMacPhail	529631	6869437	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Excellent	ForestBlackSpruce
118996	04/08/2011	DrewMacPhail	529580	6869396	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Excellent	AlpineBare
118997	04/08/2011	DrewMacPhail	529536	6869395	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW		60	Moist	Excellent	AlpineBare
118998	04/08/2011	DrewMacPhail	529483	6869393	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Excellent	SubAlpineBrush
118999	04/08/2011	DrewMacPhail	529444	6869382	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Moist	Excellent	SubAlpineBrush
119000	04/08/2011	DrewMacPhail	529391	6869351	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Moist	Good	AlpineBare
119982	29/07/2011	MartyHuber	532179	6868177	UTMZ9N WGS84	Lithosol	Brown	Gravel	ModerateSW	C	30	Dry	Good	AlpineBare
119983	29/07/2011	MartyHuber	532139	6868163	UTMZ9N WGS84	Lithosol	Brown	Sand	ModerateSW	C	10	Dry	Good	AlpineBare
119984	29/07/2011	MartyHuber	532088	6868147	UTMZ9N WGS84	Lithosol	Brown	Sand	Flat	C	20	Dry	Good	AlpineBare
119985	29/07/2011	MartyHuber	532036	6868127	UTMZ9N WGS84	Lithosol	Brown	Sand	ModerateSW	C	20	Dry	Good	AlpineBare
119986	29/07/2011	MartyHuber	532000	6868118	UTMZ9N WGS84	Lithosol	BrownDark	Sand	SteepSW	C	20	Dry	Good	AlpineBare
119987	29/07/2011	MartyHuber	531953	6868102	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	30	Dry	Good	AlpineBare
119988	29/07/2011	MartyHuber	531901	6868091	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	25	Dry	Good	AlpineBare
119989	29/07/2011	MartyHuber	531857	6868070	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	10	Dry	Good	AlpineBare
119991	29/07/2011	MartyHuber	531803	6868048	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	15	Dry	Good	AlpineBare
119992	29/07/2011	MartyHuber	531760	6868041	UTMZ9N WGS84	Lithosol	Brown	Gravel	SteepSW	C	20	Dry	Good	AlpineBare
119993	29/07/2011	MartyHuber	531711	6868028	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	20	Dry	Good	AlpineBare
119994	29/07/2011	MartyHuber	531668	6868010	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
119995	29/07/2011	MartyHuber	531618	6867999	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepW	C	25	Dry	Good	AlpineBare
119996	29/07/2011	MartyHuber	531570	6867984	UTMZ9N WGS84	Lithosol	Brown	Sand	DrainageSeasonal	C	25	Dry	Good	AlpineBare
119997	29/07/2011	MartyHuber	531520	6867957	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
119998	29/07/2011	MartyHuber	531472	6867957	UTMZ9N WGS84	Lithosol	Brown	Silt	SteepW	C	25	Dry	Good	AlpineBare
119999	29/07/2011	MartyHuber	531430	6867937	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepW	C	25	Dry	Good	AlpineBare
120000	29/07/2011	MartyHuber	531379	6867935	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepW	C	35	Dry	Good	AlpineBare
120887	29/07/2011	SteveCrowell	532296	6868003	UTMZ9N WGS84	Lithosol	Brown	Gravel	RidgeAlpine	B	30	Moist	Good	AlpineBare
120888	29/07/2011	SteveCrowell	532242	6867982	UTMZ9N WGS84	Lithosol	BrownDark	Gravel	RidgeAlpine	C	55	Moist	Good	AlpineBare
120889	29/07/2011	SteveCrowell	532196	6867976	UTMZ9N WGS84	Lithosol	Grey	Gravel	RidgeAlpine	C	40	Moist	Excellent	AlpineBare
120890	29/07/2011	SteveCrowell	532145	6867962	UTMZ9N WGS84	Lithosol	BrownLight	Gravel	SteepSW	C	60	Moist	Excellent	AlpineBare
120891	29/07/2011	SteveCrowell	532099	6867942	UTMZ9N WGS84	Lithosol	BrownLight	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
120892	29/07/2011	SteveCrowell	532052	6867921	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	110	Moist	Excellent	AlpineBare
120893	29/07/2011	SteveCrowell	532006	6867902	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	40	Moist	Excellent	AlpineBare
120894	29/07/2011	SteveCrowell	531957	6867890	UTMZ9N WGS84	Lithosol	BrownLight	Sand	SteepSW	C	45	Moist	Excellent	AlpineBare
120895	29/07/2011	SteveCrowell	531914	6867884	UTMZ9N WGS84	Lithosol	BrownLight	Silt	SteepSW	C	40	Moist	Excellent	AlpineBare
120896	29/07/2011	SteveCrowell	531871	6867870	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
120897	29/07/2011	SteveCrowell	531818	6867858	UTMZ9N WGS84	Lithosol	Brown		SteepSW	C	50	Moist	Good	AlpineBare
120898	29/07/2011	SteveCrowell	531773	6867826	UTMZ9N WGS84	Lithosol	BrownLight	Sand	SteepSW	C	50	Moist	Excellent	AlpineBare
120899	29/07/2011	SteveCrowell	531722	6867818	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	50	Moist	Excellent	AlpineBare
120900	29/07/2011	SteveCrowell	531681	6867804	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	40	Moist	Excellent	AlpineBare
120901	29/07/2011	SteveCrowell	531629	6867786	UTMZ9N WGS84	Lithosol	BrownLight	Sand	SteepSW	C	120	Moist	Excellent	AlpineBare
120902	29/07/2011	SteveCrowell	531578	6867779	UTMZ9N WGS84	Lithosol	Brown	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
120903	29/07/2011	SteveCrowell	531540	6867761	UTMZ9N WGS84	Lithosol	BrownLight	Sand	SteepSW	C	70	Moist	Excellent	SubAlpineAlder
120904	29/07/2011	SteveCrowell	531486	6867746	UTMZ9N WGS84	Lithosol	BrownLight	Silt	Flat	C	30	Moist	Excellent	SubAlpineBrush
120905	29/07/2011	SteveCrowell	531433	6867727	UTMZ9N WGS84	Lithosol	RustyOrange	Silt	ModerateSW	C	50	Moist	Excellent	SubAlpineBrush
120906	29/07/2011	SteveCrowell	531398	6867721	UTMZ9N WGS84	Lithosol	Brown	Sand	ModerateSW	C	60	Moist	Good	SubAlpineBrush
120907	29/07/2011	SteveCrowell	531332	6867694	UTMZ9N WGS84	Lithosol	BrownLight	Sand	Flat	B	40	Moist	Poor	SubAlpineBrush
120908	29/07/2011	SteveCrowell	531287	6867678	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSE	B	60	Moist	Good	SubAlpineBrush
120909	29/07/2011	SteveCrowell	531247	6867675	UTMZ9N WGS84	Lithosol	RustyOrange	Silt	Flat	C	30	Moist	Excellent	SubAlpineBrush
120910	29/07/2011	SteveCrowell	531192	6867660	UTMZ9N WGS84	Lithosol	BrownLight	Sand	Flat	C	40	Moist	Good	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
120911	29/07/2011	SteveCrowell	531153	6867647	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	60	Dry	Excellent	SubAlpineBrush
120912	29/07/2011	SteveCrowell	531106	6867628	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	60	Moist	Excellent	SubAlpineBrush
120913	29/07/2011	SteveCrowell	531055	6867608	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Moist	Good	SubAlpineBrush
120914	29/07/2011	SteveCrowell	531005	6867596	UTMZ9N WGS84	Lithosoil	RustyRed	Sand	Flat	C	40	Moist	Good	SubAlpineBrush
120915	29/07/2011	SteveCrowell	530960	6867585	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	B	35	Moist	Good	SubAlpineBrush
120916	29/07/2011	SteveCrowell	530912	6867567	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	B	30	Moist	Good	SubAlpineBrush
120917	29/07/2011	SteveCrowell	530868	6867554	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	60	Dry	Excellent	SubAlpineBrush
120918	29/07/2011	SteveCrowell	530824	6867541	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	B	45	Moist	Good	SubAlpineBrush
120919	29/07/2011	SteveCrowell	530766	6867525	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	Flat	C	40	Moist	Good	ForestPine
120920	29/07/2011	SteveCrowell	530726	6867505	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	B	30	Moist	Good	SubAlpineBrush
120921	29/07/2011	SteveCrowell	530589	6867455	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateN	C	60	Moist	Excellent	AlpineBare
120922	29/07/2011	SteveCrowell	530542	6867446	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	40	Moist	Good	AlpineBare
120923	29/07/2011	SteveCrowell	530489	6867425	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Moist	Excellent	AlpineBare
120924	29/07/2011	SteveCrowell	530445	6867421	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	B	30	Moist	Poor	AlpineBare
120925	30/07/2011	SteveCrowell	532172	6868382	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	20	Moist	Good	AlpineBare
120926	30/07/2011	SteveCrowell	532126	6868368	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	RidgeAlpine	C	20	Moist	Good	AlpineBare
120927	30/07/2011	SteveCrowell	532077	6868350	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateNW	C	40	Moist	Good	AlpineBare
120928	30/07/2011	SteveCrowell	532032	6868337	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	30	Moist	Excellent	AlpineBare
120929	30/07/2011	SteveCrowell	531982	6868318	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	40	Moist	Good	AlpineBare
120930	30/07/2011	SteveCrowell	531938	6868313	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	20	Moist	Good	AlpineBare
120931	30/07/2011	SteveCrowell	531884	6868289	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	40	Dry	Excellent	AlpineBare
120932	30/07/2011	SteveCrowell	531841	6868285	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateW	C	45	Moist	Good	AlpineBare
120933	30/07/2011	SteveCrowell	531795	6868267	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	ModerateW	C	40	Moist	Good	AlpineBare
120934	30/07/2011	SteveCrowell	531746	6868243	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	35	Moist	Excellent	AlpineBare
120935	30/07/2011	SteveCrowell	531699	6868228	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSE	C	40	Moist	Excellent	AlpineBare
120936	30/07/2011	SteveCrowell	531651	6868212	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepS	C	20	Moist	Good	AlpineBare
120937	30/07/2011	SteveCrowell	531598	6868207	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepS	C	20	Moist	Good	AlpineBare
120938	30/07/2011	SteveCrowell	531555	6868179	UTMZ9N WGS84	Lithosoil	BrownDark	Silt	ModerateSW	C	25	Moist	Good	AlpineBare
120939	30/07/2011	SteveCrowell	531506	6868172	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Flat	C	30	Moist	Good	AlpineBare
120940	30/07/2011	SteveCrowell	531457	6868148	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	60	Dry	Excellent	AlpineBare
120941	30/07/2011	SteveCrowell	531411	6868144	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	20	Moist	Good	AlpineBare
120942	30/07/2011	SteveCrowell	531360	6868125	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepSW	C	40	Moist	Good	AlpineBare
120943	30/07/2011	SteveCrowell	531323	6868117	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	30	Moist	Good	AlpineBare
120944	30/07/2011	SteveCrowell	531268	6868103	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepSW	C	20	Wet	Good	AlpineBare
120945	30/07/2011	SteveCrowell	531224	6868088	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	45	Moist	Excellent	AlpineBare
120946	30/07/2011	SteveCrowell	531134	6868055	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	ModerateSE	C	35	Moist	Good	SubAlpineBrush
120947	30/07/2011	SteveCrowell	531074	6868045	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSE	C	40	Dry	Excellent	SubAlpineBrush
120948	30/07/2011	SteveCrowell	531038	6868014	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Flat	C	60	Moist	Good	SubAlpineBrush
120949	30/07/2011	SteveCrowell	530992	6868004	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateSW	C	20	Dry	Excellent	SubAlpineBrush
120950	30/07/2011	SteveCrowell	530944	6867991	UTMZ9N WGS84	Lithosoil	RustyRed	Silt	ModerateSW	C	20	Moist	Good	SubAlpineBrush
120951	30/07/2011	SteveCrowell	530889	6867983	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	30	Dry	Excellent	SubAlpineBrush
120952	30/07/2011	SteveCrowell	530836	6867960	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	40	Moist	Good	SubAlpineBrush
120953	30/07/2011	SteveCrowell	530792	6867951	UTMZ9N WGS84	Lithosoil	Tan	Silt	ModerateSW	C	40	Moist	Excellent	SubAlpineBrush
120954	30/07/2011	SteveCrowell	530736	6867926	UTMZ9N WGS84	Lithosoil	RustyRed	Silt	Flat	C	40	Moist	Good	SubAlpineBrush
120955	30/07/2011	SteveCrowell	530705	6867915	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	ModerateSW	C	40	Moist	Excellent	SubAlpineBrush
120956	30/07/2011	SteveCrowell	530647	6867907	UTMZ9N WGS84	Lithosoil	RustyRed	Silt	ModerateSW	C	45	Moist	Excellent	SubAlpineBrush
120957	30/07/2011	SteveCrowell	530604	6867892	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	ModerateSW	C	40	Moist	Good	SubAlpineBrush
120958	30/07/2011	SteveCrowell	530554	6867873	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	ModerateSW	C	60	Dry	Good	SubAlpineBrush
120959	30/07/2011	SteveCrowell	530513	6867864	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	40	Moist	Good	SubAlpineBrush
120960	30/07/2011	SteveCrowell	530467	6867845	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	45	Moist	Good	SubAlpineBrush
120961	31/07/2011	SteveCrowell	530425	6867834	UTMZ9N WGS84	Lithosoil	Tan	Silt	SteepSW	C	50	Moist	Excellent	SubAlpineBrush
120962	30/07/2011	SteveCrowell	530371	6867805	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	40	Moist	Excellent	SubAlpineBrush
120963	30/07/2011	SteveCrowell	530326	6867797	UTMZ9N WGS84	Lithosoil	BrownDark	Silt	Flat	B	40	Moist	Poor	ForestMixed
120964	31/07/2011	SteveCrowell	532006	6868732	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepN	C	20	Moist	Good	AlpineBare
120965	31/07/2011	SteveCrowell	531966	6868715	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepN	C	20	Wet	Good	AlpineBare

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
120966	31/07/2011	SteveCrowell	531921	6868694	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepN	C	20	Moist	Good	AlpineBare
120967	31/07/2011	SteveCrowell	531879	6868669	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Moist	Excellent	AlpineBare
120968	31/07/2011	SteveCrowell	531840	6868664	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Excellent	AlpineBare
120969	31/07/2011	SteveCrowell	531779	6868653	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNW	C	40	Moist	Excellent	AlpineBare
120970	31/07/2011	SteveCrowell	531741	6868637	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	35	Moist	Poor	AlpineBare
120971	31/07/2011	SteveCrowell	531686	6868627	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateNW	C	30	Moist	Excellent	AlpineBare
120972	31/07/2011	SteveCrowell	531635	6868606	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Good	AlpineBare
120973	31/07/2011	SteveCrowell	531591	6868595	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNW	C	40	Moist	Good	AlpineBare
120974	31/07/2011	SteveCrowell	531537	6868577	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Good	AlpineBare
120975	31/07/2011	SteveCrowell	531497	6868555	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepNW	C	40	Moist	Good	AlpineBare
120976	31/07/2011	SteveCrowell	531449	6868545	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	40	Moist	Good	AlpineBare
120977	31/07/2011	SteveCrowell	531403	6868541	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	30	Moist	Excellent	AlpineBare
120978	31/07/2011	SteveCrowell	531354	6868520	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateNW	C	20	Moist	Good	AlpineBare
120979	31/07/2011	SteveCrowell	531296	6868500	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateNW	C	60	Moist	Excellent	AlpineBare
120980	31/07/2011	SteveCrowell	531259	6868492	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepW		20	Moist	Excellent	AlpineBare
120981	31/07/2011	SteveCrowell	531219	6868482	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	50	Moist	Excellent	AlpineBare
120982	31/07/2011	SteveCrowell	531169	6868467	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepW	C	20	Moist	Good	SubAlpineBrush
120983	31/07/2011	SteveCrowell	531072	6868429	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Depression	C	40	Moist	Excellent	SubAlpineBrush
120984	31/07/2011	SteveCrowell	531018	6868418	UTMZ9N WGS84	Lithosoil	RustyOrange	Gravel	Flat	C	30	Moist	Good	SubAlpineBrush
120985	31/07/2011	SteveCrowell	530977	6868402	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	40	Moist	Excellent	SubAlpineBrush
120986	31/07/2011	SteveCrowell	530929	6868390	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	30	Moist	Poor	SubAlpineBrush
120987	31/07/2011	SteveCrowell	530894	6868373	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	35	Moist	Excellent	SubAlpineBrush
120988	31/07/2011	SteveCrowell	530850	6868351	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	SteepSW	C	40	Moist	Excellent	SubAlpineBrush
120989	31/07/2011	SteveCrowell	530807	6868351	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	60	Moist	Good	SubAlpineBrush
120991	31/07/2011	SteveCrowell	530737	6868323	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	40	Moist	Good	SubAlpineBrush
120992	31/07/2011	SteveCrowell	530699	6868319	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	60	Moist	Excellent	SubAlpineBrush
120993	31/07/2011	SteveCrowell	530644	6868297	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	35	Moist	Good	ForestMixed
120994	31/07/2011	SteveCrowell	530553	6868268	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	SteepNE	C	40	Dry	Excellent	SubAlpineBrush
120995	31/07/2011	SteveCrowell	530507	6868258	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepNE	C	60	Moist	Good	SubAlpineBrush
120996	31/07/2011	SteveCrowell	530461	6868236	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepNE	C	40	Moist	Good	SubAlpineBrush
120997	31/07/2011	SteveCrowell	530412	6868215	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	SteepNE	C	60	Moist	Excellent	SubAlpineBrush
120998	31/07/2011	SteveCrowell	530368	6868210	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	20	Moist	Poor	SubAlpineBrush
120999	31/07/2011	SteveCrowell	530327	6868191	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Moist	Poor	SubAlpineBrush
121000	01/08/2011	SteveCrowell	531626	6869023	UTMZ9N WGS84	Lithosoil	BrownDark	Silt	Flat	C	40	Moist	Good	SubAlpineBrush
121857	29/07/2011	DarcyHudson	532254	6868099	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	RidgeAlpine	C	60	Moist	Good	AlpineBare
121858	29/07/2011	DarcyHudson	532209	6868073	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	B	50	Moist	Good	AlpineBare
121859	29/07/2011	DarcyHudson	532161	6868063	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	B	55	Moist	Good	AlpineBare
121860	29/07/2011	DarcyHudson	532114	6868049	UTMZ9N WGS84	Lithosoil	Brown	Gravel	RidgeAlpine	B	50	Moist	Poor	AlpineBare
121861	29/07/2011	DarcyHudson	532064	6868029	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	RidgeAlpine	B	45	Moist	Poor	AlpineBare
121862	29/07/2011	DarcyHudson	532027	6868022	UTMZ9N WGS84	Colluvium	BrownDark	Sand	SteepSW	C	60	Moist	Good	AlpineBare
121863	29/07/2011	DarcyHudson	531978	6868006	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepW	C	60	Moist	Good	AlpineBare
121864	29/07/2011	DarcyHudson	531937	6867985	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	60	Moist	Good	AlpineBare
121865	29/07/2011	DarcyHudson	531888	6867975	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	65	Moist	Good	AlpineBare
121866	29/07/2011	DarcyHudson	531835	6867958	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	60	Moist	Good	AlpineBare
121867	29/07/2011	DarcyHudson	531788	6867949	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	65	Moist	Good	AlpineBare
121868	29/07/2011	DarcyHudson	531730	6867931	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	50	Moist	Good	AlpineBare
121869	29/07/2011	DarcyHudson	531694	6867919	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	B	50	Moist	Good	AlpineBare
121870	29/07/2011	DarcyHudson	531640	6867889	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	45	Moist	Excellent	AlpineBare
121871	29/07/2011	DarcyHudson	531599	6867878	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	B	40	Moist	Good	AlpineBare
121872	29/07/2011	DarcyHudson	531548	6867874	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	45	Moist	Excellent	AlpineBare
121873	29/07/2011	DarcyHudson	531505	6867857	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	50	Moist	Excellent	AlpineBare
121874	29/07/2011	DarcyHudson	531403	6867825	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepW	B	45	Moist	Good	AlpineBare
121875	29/07/2011	DarcyHudson	531363	6867820	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	55	Moist	Good	SubAlpineAlder
121876	29/07/2011	DarcyHudson	531317	6867804	UTMZ9N WGS84	Colluvium	Tan	Silt	Ridge	C	65	Moist	Good	SubAlpineAlder
121877	29/07/2011	DarcyHudson	531264	6867786	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	45	Dry	Good	SubAlpineAlder

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
121878	29/07/2011	DarcyHudson	531210	6867769	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	B	45	Moist	Good	SubAlpineAlder
121879	29/07/2011	DarcyHudson	531178	6867755	UTMZ9N WGS84	Colluvium	BrownDark	Sand	SteepSW	C	90	Dry	Good	SubAlpineAlder
121880	29/07/2011	DarcyHudson	531118	6867741	UTMZ9N WGS84	Colluvium	BrownLight	Sand	Depression	C	55	Dry	Good	SubAlpineAlder
121881	29/07/2011	DarcyHudson	531063	6867723	UTMZ9N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	55	Moist	Good	SubAlpineAlder
121882	29/07/2011	DarcyHudson	531025	6867709	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	B	35	Dry	Poor	SubAlpineAlder
121883	29/07/2011	DarcyHudson	530982	6867693	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	65	Moist	Good	SubAlpineAlder
121884	29/07/2011	DarcyHudson	530922	6867674	UTMZ9N WGS84	Colluvium	Tan	Clay	ModerateSW	C	70	Moist	Good	SubAlpineAlder
121885	29/07/2011	DarcyHudson	530887	6867662	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	75	Moist	Good	ForestMixed
121886	29/07/2011	DarcyHudson	530834	6867640	UTMZ9N WGS84	Colluvium	BrownDark	Sand	ModerateSW	B	40	Moist	Poor	ForestMixed
121887	29/07/2011	DarcyHudson	530783	6867636	UTMZ9N WGS84	Colluvium	BrownDark	Silt	SteepSW	C	65	Moist	Good	ForestMixed
121888	29/07/2011	DarcyHudson	530750	6867624	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	90	Moist	Good	ForestMixed
121889	29/07/2011	DarcyHudson	530693	6867598	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	100	Moist	Good	ForestMixed
121891	29/07/2011	DarcyHudson	530601	6867572	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	B	35	Moist	Poor	SubAlpineAlder
121892	29/07/2011	DarcyHudson	530512	6867554	UTMZ9N WGS84	Colluvium	Brown	Gravel	ModerateNW	B	70	Moist	Poor	SubAlpineAlder
121893	29/07/2011	DarcyHudson	530420	6867517	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	45	Moist	Good	SubAlpineAlder
121894	30/07/2011	DarcyHudson	532142	6868475	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	45	Moist	Good	AlpineBare
121895	30/07/2011	DarcyHudson	532094	6868457	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	AlpineBare
121896	30/07/2011	DarcyHudson	532042	6868447	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Moist	Good	AlpineBare
121897	30/07/2011	DarcyHudson	532003	6868427	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	35	Moist	Good	AlpineBare
121898	30/07/2011	DarcyHudson	531952	6868417	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	45	Moist	Good	AlpineBare
121899	30/07/2011	DarcyHudson	531904	6868390	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare
121900	30/07/2011	DarcyHudson	531854	6868382	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	AlpineBare
121901	30/07/2011	DarcyHudson	531811	6868370	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Excellent	AlpineBare
121902	30/07/2011	DarcyHudson	531751	6868351	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	45	Moist	Good	AlpineBare
121903	30/07/2011	DarcyHudson	531713	6868337	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	40	Moist	Good	AlpineBare
121904	30/07/2011	DarcyHudson	531661	6868326	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	50	Moist	Good	AlpineBare
121905	30/07/2011	DarcyHudson	531622	6868309	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	AlpineBare
121906	30/07/2011	DarcyHudson	531569	6868303	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	50	Moist	Good	AlpineBare
121907	30/07/2011	DarcyHudson	531529	6868287	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	AlpineBare
121908	30/07/2011	DarcyHudson	531479	6868260	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare
121909	30/07/2011	DarcyHudson	531439	6868251	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepSW	C	25	Moist	Good	AlpineBare
121910	30/07/2011	DarcyHudson	531388	6868242	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	AlpineBare
121911	30/07/2011	DarcyHudson	531334	6868219	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	40	Moist	Excellent	AlpineBare
121912	30/07/2011	DarcyHudson	531292	6868207	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	AlpineBare
121913	30/07/2011	DarcyHudson	531252	6868201	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	AlpineBare
121914	30/07/2011	DarcyHudson	531139	6868170	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	40	Moist	Good	AlpineBare
121915	30/07/2011	DarcyHudson	531102	6868148	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	45	Moist	Good	SubAlpineAlder
121916	30/07/2011	DarcyHudson	531056	6868134	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	45	Moist	Excellent	SubAlpineAlder
121917	30/07/2011	DarcyHudson	531003	6868117	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	SubAlpineAlder
121918	30/07/2011	DarcyHudson	530957	6868107	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	30	Moist	Good	SubAlpineAlder
121919	30/07/2011	DarcyHudson	530910	6868095	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	45	Moist	Good	SubAlpineAlder
121920	30/07/2011	DarcyHudson	530863	6868067	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	SubAlpineAlder
121921	30/07/2011	DarcyHudson	530821	6868051	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Moist	Good	SubAlpineBrush
121922	30/07/2011	DarcyHudson	530766	6868035	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Excellent	SubAlpineAlder
121923	30/07/2011	DarcyHudson	530723	6868025	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	50	Moist	Good	SubAlpineAlder
121924	30/07/2011	DarcyHudson	530675	6868013	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Good	SubAlpineAlder
121925	30/07/2011	DarcyHudson	530623	6867999	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Moist	Good	ForestMixed
121926	30/07/2011	DarcyHudson	530580	6867991	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	45	Moist	Good	ForestMixed
121927	30/07/2011	DarcyHudson	530531	6867970	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	50	Moist	Excellent	SubAlpineAlder
121928	30/07/2011	DarcyHudson	530485	6867953	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Excellent	ForestMixed
121929	30/07/2011	DarcyHudson	530436	6867935	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	ForestMixed
121930	30/07/2011	DarcyHudson	530390	6867924	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineAlder
121931	30/07/2011	DarcyHudson	530351	6867909	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Good	SubAlpineAlder
121932	30/07/2011	DarcyHudson	530304	6867892	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	60	Wet	Excellent	SubAlpineAlder
121933	31/07/2011	DarcyHudson	531990	6868828	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Moist	Excellent	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
121934	31/07/2011	DarcyHudson	531941	6868812	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepW	C	25	Moist	Good	AlpineBare
121935	31/07/2011	DarcyHudson	531889	6868790	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	40	Moist	Excellent	AlpineBare
121936	31/07/2011	DarcyHudson				Lithosoil	Brown	Sand	SteepW	C	40	Moist	Good	AlpineBare
121937	31/07/2011	DarcyHudson	531803	6868765	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	30	Moist	Good	AlpineBare
121938	31/07/2011	DarcyHudson	531749	6868746	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	30	Moist	Good	AlpineBare
121939	31/07/2011	DarcyHudson	531704	6868723	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	30	Moist	Good	AlpineBare
121941	31/07/2011	DarcyHudson	531657	6868710	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Moist	Good	AlpineBare
121942	31/07/2011	DarcyHudson	531609	6868704	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Moist	Good	AlpineBare
121943	31/07/2011	DarcyHudson	531565	6868691	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	40	Moist	Good	AlpineBare
121944	31/07/2011	DarcyHudson	531515	6868677	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	30	Moist	Good	AlpineBare
121945	31/07/2011	DarcyHudson	531469	6868665	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	45	Moist	Good	AlpineBare
121946	31/07/2011	DarcyHudson	531419	6868643	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Moist	Poor	AlpineBare
121947	31/07/2011	DarcyHudson	531376	6868630	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	30	Moist	Good	AlpineBare
121948	31/07/2011	DarcyHudson	531330	6868621	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	40	Moist	Good	AlpineBare
121949	31/07/2011	DarcyHudson	531280	6868601	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Moist	Good	AlpineBare
121950	31/07/2011	DarcyHudson	531220	6868579	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	30	Moist	Good	AlpineBare
121951	31/07/2011	DarcyHudson	531183	6868570	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	45	Moist	Good	SubAlpineAlder
121952	31/07/2011	DarcyHudson	531136	6868560	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Ridge	C	30	Moist	Excellent	AlpineBare
121953	31/07/2011	DarcyHudson	531093	6868545	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Moist	Good	BurnNew
121954	31/07/2011	DarcyHudson	531042	6868529	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	SubAlpineAlder
121955	31/07/2011	DarcyHudson	530984	6868513	UTMZ9N WGS84	Lithosoil	Brown	Sand	Depression	C	35	Dry	Good	AlpineBare
121956	31/07/2011	DarcyHudson	530943	6868495	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Frozen	Excellent	SubAlpineAlder
121957	31/07/2011	DarcyHudson	530903	6868483	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	35	Moist	Excellent	SubAlpineAlder
121958	31/07/2011	DarcyHudson	530855	6868468	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Excellent	SubAlpineAlder
121959	31/07/2011	DarcyHudson	530813	6868446	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	35	Moist	Good	SubAlpineAlder
121960	31/07/2011	DarcyHudson	530762	6868443	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Moist	Excellent	SubAlpineAlder
121961	31/07/2011	DarcyHudson	530716	6868414	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	30	Moist	Good	SubAlpineAlder
121962	31/07/2011	DarcyHudson	530667	6868412	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	30	Moist	Good	ForestMixed
121963	31/07/2011	DarcyHudson	530623	6868396	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	30	Dry	Good	SubAlpineAlder
121964	31/07/2011	DarcyHudson	530566	6868372	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineAlder
121965	31/07/2011	DarcyHudson	530522	6868363	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	25	Moist	Good	SubAlpineAlder
121966	31/07/2011	DarcyHudson	530473	6868357	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	40	Dry	Good	SubAlpineAlder
121967	31/07/2011	DarcyHudson	530433	6868330	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	ForestMixed
121968	31/07/2011	DarcyHudson	530381	6868325	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	50	Moist	Good	ForestMixed
121969	31/07/2011	DarcyHudson	530336	6868301	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Good	SubAlpineAlder
121970	31/07/2011	DarcyHudson	530285	6868288	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateS	B	20	Moist	Poor	ForestMixed
121971	31/07/2011	DarcyHudson	530246	6868274	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Moist	Poor	ForestMixed
121972	01/08/2011	DarcyHudson	531540	6869106	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	30	Moist	Good	AlpineBare
121973	01/08/2011	DarcyHudson	531498	6869084	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	25	Moist	Good	AlpineBare
121974	01/08/2011	DarcyHudson	531446	6869071	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	30	Moist	Good	SubAlpineAlder
121975	01/08/2011	DarcyHudson	531397	6869042	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateE	C	20	Moist	Good	SubAlpineAlder
121976	01/08/2011	DarcyHudson	531354	6869046	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	35	Dry	Good	SubAlpineAlder
121977	01/08/2011	DarcyHudson	531303	6869027	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepE	C	20	Dry	Poor	SubAlpineAlder
121978	01/08/2011	DarcyHudson	531258	6869009	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepE	C	45	Dry	Good	ForestMixed
121979	01/08/2011	DarcyHudson	531212	6868994	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	20	Moist	Poor	ForestMixed
121980	01/08/2011	DarcyHudson	531159	6868974	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	35	Dry	Good	SubAlpineAlder
121981	01/08/2011	DarcyHudson	531119	6868971	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	45	Dry	Good	ForestMixed
121982	01/08/2011	DarcyHudson	531067	6868945	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	30	Dry	Good	SubAlpineAlder
121983	01/08/2011	DarcyHudson	531015	6868933	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	50	Dry	Good	SubAlpineAlder
121984	01/08/2011	DarcyHudson	530968	6868929	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepE	C	50	Moist	Good	ForestMixed
121985	01/08/2011	DarcyHudson	530934	6868908	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepE	C	50	Dry	Good	ForestMixed
121986	01/08/2011	DarcyHudson	530880	6868893	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	45	Dry	Good	ForestMixed
121987	01/08/2011	DarcyHudson	530835	6868876	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Dry	Good	ForestMixed
121988	01/08/2011	DarcyHudson	530777	6868867	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	15	Moist	Good	ForestMixed
121989	01/08/2011	DarcyHudson	530741	6868852	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	50	Moist	Good	ForestMixed

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
121990	01/08/2011	DarcyHudson	530692	6868831	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Dry	Good	SubAlpineAlder
121991	01/08/2011	DarcyHudson	530643	6868815	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
121992	01/08/2011	DarcyHudson	530599	6868801	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	SubAlpineAlder
121993	01/08/2011	DarcyHudson	530546	6868779	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	50	Dry	Excellent	SubAlpineAlder
121994	01/08/2011	DarcyHudson	530496	6868773	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
121995	01/08/2011	DarcyHudson	530451	6868755	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Excellent	SubAlpineAlder
121996	01/08/2011	DarcyHudson	530402	6868741	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	35	Moist	Good	SubAlpineAlder
121997	01/08/2011	DarcyHudson	530360	6868733	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	30	Dry	Good	SubAlpineAlder
121998	01/08/2011	DarcyHudson	530316	6868720	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	20	Dry	Poor	SubAlpineAlder
121999	01/08/2011	DarcyHudson	530262	6868693	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateSE	C	20	Moist	Poor	SubAlpineAlder
122000	01/08/2011	DarcyHudson	530223	6868684	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	20	Dry	Good	SubAlpineAlder
130001	29/07/2011	MartyHuber	531334	6867900	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
130002	29/07/2011	MartyHuber	531282	6867900	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	AlpineBare
130003	29/07/2011	MartyHuber	531233	6867887	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
130004	29/07/2011	MartyHuber	531182	6867861	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130005	29/07/2011	MartyHuber	531126	6867843	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	25	Dry	Good	AlpineBare
130006	29/07/2011	MartyHuber	531102	6867819	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	25	Dry	Good	AlpineBare
130007	29/07/2011	MartyHuber	531040	6867814	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	30	Dry	Good	AlpineBare
130008	29/07/2011	MartyHuber	531009	6867794	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130009	29/07/2011	MartyHuber	530948	6867785	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Frozen	Good	AlpineBare
130010	29/07/2011	MartyHuber	530906	6867770	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	B	35	Dry	Good	SubAlpineBrush
130011	29/07/2011	MartyHuber	530857	6867753	UTMZ9N WGS84	Lithosoil	Brown	Silt	Drainage	B	45	Dry	Poor	SubAlpineBrush
130012	29/07/2011	MartyHuber	530810	6867732	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	40	Dry	Good	AlpineBare
130013	29/07/2011	MartyHuber	530763	6867745	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
130014	29/07/2011	MartyHuber	530716	6867719	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	45	Dry	Good	SubAlpineBrush
130015	29/07/2011	MartyHuber	530671	6867710	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	30	Dry	Good	SubAlpineBrush
130016	29/07/2011	MartyHuber	530619	6867685	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Good	SubAlpineBrush
130017	29/07/2011	MartyHuber	530574	6867659	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	20	Dry	Good	SubAlpineBrush
130018	29/07/2011	MartyHuber	530521	6867646	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	25	Dry	Good	AlpineBare
130019	29/07/2011	MartyHuber	530492	6867626	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	C	40	Dry	Good	AlpineBare
130020	29/07/2011	MartyHuber	530390	6867596	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	15	Dry	Poor	AlpineBare
130021	29/07/2011	MartyHuber	530340	6867580	UTMZ9N WGS84	Lithosoil	Grey	Silt	RidgeAlpine	B	10	Moist	Poor	AlpineBare
130022	30/07/2011	MartyHuber	532132	6868550	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	20	Dry	Good	AlpineBare
130023	30/07/2011	MartyHuber	532075	6868550	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	20	Dry	Good	AlpineBare
130024	30/07/2011	MartyHuber	532035	6868525	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	20	Dry	Good	AlpineBare
130025	30/07/2011	MartyHuber	531978	6868511	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	35	Dry	Good	AlpineBare
130026	30/07/2011	MartyHuber	531931	6868494	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130027	30/07/2011	MartyHuber	531887	6868480	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	20	Dry	Good	AlpineBare
130028	30/07/2011	MartyHuber	531845	6868463	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
130029	30/07/2011	MartyHuber	531791	6868447	UTMZ9N WGS84	Lithosoil	Brown	Silt	CliffBase	C	40	Dry	Good	AlpineBare
130030	30/07/2011	MartyHuber	531743	6868442	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	45	Dry	Good	AlpineBare
130031	30/07/2011	MartyHuber	531701	6868423	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	20	Dry	Good	AlpineBare
130032	30/07/2011	MartyHuber	531649	6868416	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateW	C	15	Dry	Good	AlpineBare
130033	30/07/2011	MartyHuber	531604	6868382	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	20	Dry	Good	AlpineBare
130034	30/07/2011	MartyHuber	531550	6868379	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	15	Dry	Good	AlpineBare
130035	30/07/2011	MartyHuber	531509	6868354	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	40	Dry	Good	AlpineBare
130036	30/07/2011	MartyHuber	531464	6868346	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	20	Dry	Good	AlpineBare
130037	30/07/2011	MartyHuber	531404	6868330	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	40	Dry	Good	AlpineBare
130038	30/07/2011	MartyHuber	531373	6868316	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	20	Dry	Good	AlpineBare
130039	30/07/2011	MartyHuber	531328	6868300	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	20	Dry	Good	AlpineBare
130040	30/07/2011	MartyHuber	531272	6868273	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	20	Dry	Good	AlpineBare
130041	30/07/2011	MartyHuber	531136	6868244	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	C	20	Dry	Good	AlpineBare
130042	30/07/2011	MartyHuber	531080	6868226	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	20	Dry	Good	AlpineBare
130043	30/07/2011	MartyHuber	531039	6868208	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	20	Dry	Good	AlpineBare
130044	30/07/2011	MartyHuber	530997	6868201	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	40	Dry	Good	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130045	30/07/2011	MartyHuber	530898	6868168	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	25	Dry	Good	AlpineBare
130046	30/07/2011	MartyHuber	530853	6868150	UTMZ9N WGS84	Colluvium	Orange	Sand	Drainage	C	30	Moist	Good	AlpineBare
130047	30/07/2011	MartyHuber	530799	6868134	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	25	Moist	Good	SubAlpineBrush
130048	30/07/2011	MartyHuber	530746	6868124	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	40	Dry	Excellent	SubAlpineBrush
130049	30/07/2011	MartyHuber	530710	6868102	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	30	Dry	Good	SubAlpineBrush
130050	30/07/2011	MartyHuber	530661	6868080	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130051	30/07/2011	MartyHuber	530616	6868051	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	30	Dry	Good	SubAlpineBrush
130052	30/07/2011	MartyHuber	530499	6868020	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepN	B	20	Dry	Good	SubAlpineBrush
130053	30/07/2011	MartyHuber	530446	6867997	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Dry	Good	SubAlpineBrush
130054	30/07/2011	MartyHuber	530338	6867984	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	30	Dry	Good	SubAlpineBrush
130055	30/07/2011	MartyHuber	530283	6867973	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSE	C	20	Dry	Good	SubAlpineBrush
130056	31/07/2011	MartyHuber	530235	6867955	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	20	Dry	Good	SubAlpineBrush
130057	31/07/2011	MartyHuber	530192	6867946	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Wet	Good	AlpineBare
130058	31/07/2011	MartyHuber	531954	6868916	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Wet	Good	AlpineBare
130059	31/07/2011	MartyHuber	531911	6868909	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	15	Dry	Good	AlpineBare
130060	31/07/2011	MartyHuber	531856	6868886	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Dry	Good	AlpineBare
130061	31/07/2011	MartyHuber	531813	6868867	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Dry	Good	AlpineBare
130062	31/07/2011	MartyHuber	531765	6868855	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	40	Dry	Good	AlpineBare
130063	31/07/2011	MartyHuber	531710	6868841	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Moist	Good	AlpineBare
130064	31/07/2011	MartyHuber	531667	6868824	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Dry	Good	AlpineBare
130065	31/07/2011	MartyHuber	531620	6868806	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	B	20	Dry	Good	AlpineBare
130066	31/07/2011	MartyHuber	531573	6868798	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	40	Dry	Good	AlpineBare
130067	31/07/2011	MartyHuber	531527	6868773	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	40	Moist	Good	AlpineBare
130068	31/07/2011	MartyHuber	531487	6868770	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	15	Dry	Good	AlpineBare
130069	31/07/2011	MartyHuber	531435	6868751	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	45	Dry	Excellent	AlpineBare
130070	31/07/2011	MartyHuber	531395	6868731	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	40	Dry	Good	AlpineBare
130071	31/07/2011	MartyHuber	531354	6868730	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	25	Dry	Good	AlpineBare
130072	31/07/2011	MartyHuber	531294	6868709	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	B	40	Dry	Good	AlpineBare
130073	31/07/2011	MartyHuber	531251	6868703	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	25	Dry	Good	AlpineBare
130074	31/07/2011	MartyHuber	531202	6868683	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	20	Dry	Good	AlpineBare
130075	31/07/2011	MartyHuber	531153	6868673	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	30	Dry	Good	AlpineBare
130076	31/07/2011	MartyHuber	531111	6868641	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	20	Dry	Good	AlpineBare
130077	31/07/2011	MartyHuber	531055	6868636	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	35	Dry	Good	AlpineBare
130078	31/07/2011	MartyHuber	531017	6868617	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	B	30	Dry	Poor	AlpineBare
130079	31/07/2011	MartyHuber	530958	6868603	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateN	C	20	Dry	Good	SubAlpineBrush
130080	31/07/2011	MartyHuber	530916	6868603	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateN	C	20	Dry	Good	SubAlpineBrush
130081	31/07/2011	MartyHuber	530879	6868580	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateNW	C	25	Dry	Good	SubAlpineBrush
130082	31/07/2011	MartyHuber	530789	6868542	UTMZ9N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	15	Moist	Poor	SubAlpineBrush
130083	31/07/2011	MartyHuber	530738	6868528	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateNW	C	25	Dry	Good	SubAlpineBrush
130084	31/07/2011	MartyHuber	530682	6868502	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	45	Dry	Good	SubAlpineBrush
130085	31/07/2011	MartyHuber	530637	6868492	UTMZ9N WGS84	Lithosoil	Brown	Sand	Drainage	C	30	Dry	Good	SubAlpineBrush
130086	31/07/2011	MartyHuber	530596	6868486	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateE	C	45	Dry	Good	SubAlpineBrush
130087	31/07/2011	MartyHuber	530543	6868463	UTMZ9N WGS84	Lithosoil	Orange	Sand	RidgeAlpine	C	25	Dry	Good	SubAlpineBrush
130088	31/07/2011	MartyHuber	530496	6868450	UTMZ9N WGS84	Lithosoil	Orange	Sand	RidgeAlpine	C	30	Dry	Good	SubAlpineBrush
130089	31/07/2011	MartyHuber	530435	6868431	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130091	31/07/2011	MartyHuber	530400	6868430	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130092	31/07/2011	MartyHuber	530357	6868409	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	35	Dry	Poor	SubAlpineBrush
130093	31/07/2011	MartyHuber	530309	6868400	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	30	Dry	Poor	SubAlpineBrush
130094	01/08/2011	MartyHuber	531470	6869196	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	20	Dry	Good	AlpineBare
130095	01/08/2011	MartyHuber	531419	6869168	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	20	Dry	Good	AlpineBare
130096	01/08/2011	MartyHuber	531360	6869157	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	25	Dry	Good	AlpineBare
130097	01/08/2011	MartyHuber	531315	6869143	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	20	Dry	Good	AlpineBare
130098	01/08/2011	MartyHuber	531271	6869129	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	25	Dry	Good	AlpineBare
130099	01/08/2011	MartyHuber	531229	6869113	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	20	Dry	Good	AlpineBare
130100	01/08/2011	MartyHuber	531187	6869096	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	20	Dry	Good	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130101	01/08/2011	MartyHuber	531130	6869090	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	20	Dry	Good	SubAlpineBrush
130102	01/08/2011	MartyHuber	531082	6869073	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	35	Dry	Good	SubAlpineBrush
130103	01/08/2011	MartyHuber	531036	6869050	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	30	Dry	Good	SubAlpineBrush
130104	01/08/2011	MartyHuber	530987	6869027	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	40	Dry	Good	SubAlpineBrush
130105	01/08/2011	MartyHuber	530932	6869016	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	SubAlpineBrush
130106	01/08/2011	MartyHuber	530897	6869008	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	30	Dry	Good	SubAlpineBrush
130107	01/08/2011	MartyHuber	530837	6868995	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	SubAlpineBrush
130108	01/08/2011	MartyHuber	530792	6868977	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	35	Dry	Good	SubAlpineBrush
130109	01/08/2011	MartyHuber	530752	6868958	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	SubAlpineBrush
130110	01/08/2011	MartyHuber	530708	6868937	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	SubAlpineBrush
130111	01/08/2011	MartyHuber	530663	6868913	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepS	C	40	Dry	Good	SubAlpineBrush
130112	01/08/2011	MartyHuber	530619	6868916	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	SubAlpineBrush
130113	01/08/2011	MartyHuber	530565	6868893	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateS	C	40	Dry	Good	SubAlpineBrush
130114	01/08/2011	MartyHuber	530513	6868877	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	30	Dry	Good	SubAlpineBrush
130115	01/08/2011	MartyHuber	530477	6868858	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	25	Dry	Good	SubAlpineBrush
130116	01/08/2011	MartyHuber	530425	6868851	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	35	Dry	Good	SubAlpineBrush
130117	01/08/2011	MartyHuber	530374	6868844	UTMZ9N WGS84	Lithosoil	Brown	Sand	Depression	C	20	Dry	Good	SubAlpineBrush
130118	01/08/2011	MartyHuber	530331	6868831	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	30	Dry	Good	SubAlpineBrush
130119	01/08/2011	MartyHuber	530293	6868808	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Dry	Good	SubAlpineBrush
130120	01/08/2011	MartyHuber	530233	6868794	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateS	C	30	Dry	Good	SubAlpineBrush
130121	01/08/2011	MartyHuber	530179	6868774	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	20	Dry	Good	AlpineBare
130122	01/08/2011	MartyHuber	530141	6868765	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateSW	C	35	Dry	Good	SubAlpineBrush
130123	01/08/2011	MartyHuber	530090	6868753	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	10	Dry	Good	SubAlpineBrush
130124	01/08/2011	MartyHuber	530051	6868733	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130125	01/08/2011	MartyHuber	529993	6868703	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130126	01/08/2011	MartyHuber	529948	6868703	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	SubAlpineBrush
130127	01/08/2011	MartyHuber	529904	6868683	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130128	02/08/2011	MartyHuber	531041	6869470	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepE	C	40	Dry	Good	AlpineBare
130129	02/08/2011	MartyHuber	531015	6869455	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepE	C	20	Dry	Good	AlpineBare
130130	02/08/2011	MartyHuber	530965	6869445	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	15	Dry	Good	AlpineBare
130131	02/08/2011	MartyHuber	530916	6869425	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	25	Dry	Good	AlpineBare
130132	02/08/2011	MartyHuber	530864	6869412	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	10	Dry	Good	AlpineBare
130133	02/08/2011	MartyHuber	530815	6869395	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
130134	02/08/2011	MartyHuber	530770	6869380	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	45	Dry	Good	AlpineBare
130135	02/08/2011	MartyHuber	530722	6869369	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	15	Dry	Good	AlpineBare
130136	02/08/2011	MartyHuber	530676	6869347	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	10	Dry	Good	AlpineBare
130137	02/08/2011	MartyHuber	530631	6869331	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	15	Dry	Good	AlpineBare
130138	02/08/2011	MartyHuber	530590	6869323	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	15	Dry	Good	AlpineBare
130139	02/08/2011	MartyHuber	530542	6869310	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	10	Dry	Good	AlpineBare
130141	02/08/2011	MartyHuber	530492	6869296	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	15	Dry	Good	AlpineBare
130142	02/08/2011	MartyHuber	530448	6869272	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	45	Dry	Good	AlpineBare
130143	02/08/2011	MartyHuber	530397	6869264	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
130144	02/08/2011	MartyHuber	530354	6869248	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130145	02/08/2011	MartyHuber	530310	6869238	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	45	Dry	Excellent	AlpineBare
130146	02/08/2011	MartyHuber	530256	6869221	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	35	Dry	Good	AlpineBare
130147	02/08/2011	MartyHuber	530210	6869204	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130148	02/08/2011	MartyHuber	530159	6869197	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	15	Dry	Good	AlpineBare
130149	02/08/2011	MartyHuber	530113	6869172	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Dry	Good	AlpineBare
130150	02/08/2011	MartyHuber	530067	6869160	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Dry	Good	AlpineBare
130151	02/08/2011	MartyHuber	530015	6869143	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
130152	02/08/2011	MartyHuber	529977	6869132	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	SubAlpineBrush
130153	02/08/2011	MartyHuber	529922	6869106	UTMZ9N WGS84	Lithosoil	Tan	Sand	Depression	C	30	Dry	Good	SubAlpineBrush
130154	02/08/2011	MartyHuber	529873	6869102	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Dry	Good	SubAlpineBrush
130155	02/08/2011	MartyHuber	529841	6869079	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	15	Dry	Good	AlpineBare
130156	02/08/2011	MartyHuber	529750	6869078	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130157	02/08/2011	MartyHuber	529723	6869034	UTMZ9N WGS84	Lithosoil	Brown	Sand	Depression	C	40	Dry	Good	SubAlpineBrush
130158	02/08/2011	MartyHuber	529664	6869030	UTMZ9N WGS84	Lithosoil	Brown	Sand	Depression	C	30	Dry	Good	SubAlpineBrush
130159	02/08/2011	MartyHuber	529643	6869029	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130160	02/08/2011	MartyHuber	529584	6869010	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	SubAlpineBrush
130161	02/08/2011	MartyHuber	529546	6868991	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	35	Dry	Good	SubAlpineBrush
130162	02/08/2011	MartyHuber	529489	6868975	UTMZ9N WGS84	Lithosoil	Orange	Sand	SteepW	C	20	Dry	Good	SubAlpineBrush
130163	02/08/2011	MartyHuber	529392	6868939	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Poor	SubAlpineBrush
130164	03/08/2011	MartyHuber	530735	6869682	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	15	Dry	Good	AlpineBare
130165	03/08/2011	MartyHuber	530689	6869662	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
130166	03/08/2011	MartyHuber	530641	6869651	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
130167	03/08/2011	MartyHuber	530603	6869638	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	35	Dry	Good	AlpineBare
130168	03/08/2011	MartyHuber	530555	6869617	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
130169	03/08/2011	MartyHuber	530506	6869605	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	20	Dry	Good	AlpineBare
130170	03/08/2011	MartyHuber	530463	6869591	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	25	Dry	Good	AlpineBare
130171	03/08/2011	MartyHuber	530413	6869583	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	45	Dry	Good	AlpineBare
130172	03/08/2011	MartyHuber	530358	6869569	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	35	Dry	Good	AlpineBare
130173	03/08/2011	MartyHuber	530316	6869555	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	40	Dry	Good	AlpineBare
130174	03/08/2011	MartyHuber	530274	6869534	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	20	Dry	Good	AlpineBare
130175	03/08/2011	MartyHuber	530221	6869524	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Good	AlpineBare
130176	03/08/2011	MartyHuber	530184	6869500	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	AlpineBare
130177	03/08/2011	MartyHuber	530134	6869485	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	AlpineBare
130178	03/08/2011	MartyHuber	530088	6869480	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	AlpineBare
130179	03/08/2011	MartyHuber	530037	6869465	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Dry	Good	SubAlpineBrush
130180	03/08/2011	MartyHuber	529989	6869457	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	20	Dry	Good	SubAlpineBrush
130181	03/08/2011	MartyHuber	529943	6869427	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	SubAlpineBrush
130182	03/08/2011	MartyHuber	529897	6869416	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Dry	Good	SubAlpineBrush
130183	03/08/2011	MartyHuber	529852	6869400	UTMZ9N WGS84	OrganicHumus	Brown	Sand	SteepW	C	20	Dry	Good	SubAlpineBrush
130184	03/08/2011	MartyHuber	529797	6869383	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	35	Dry	Good	ForestMixed
130185	03/08/2011	MartyHuber	529758	6869368	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	B	40	Dry	Good	ForestMixed
130186	03/08/2011	MartyHuber	529700	6869352	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	45	Frozen	Good	ForestMixed
130187	03/08/2011	MartyHuber	529658	6869334	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
130188	03/08/2011	MartyHuber	529607	6869323	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	SubAlpineBrush
130189	03/08/2011	MartyHuber	529564	6869312	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
130191	03/08/2011	MartyHuber	529516	6869287	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	35	Dry	Good	SubAlpineBrush
130192	03/08/2011	MartyHuber	529470	6869282	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130193	03/08/2011	MartyHuber	529421	6869265	UTMZ9N WGS84	Lithosoil	Orange	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
130194	03/08/2011	MartyHuber	529372	6869256	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
130195	03/08/2011	MartyHuber	529324	6869221	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	SubAlpineBrush
130196	03/08/2011	MartyHuber	529282	6869211	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130197	04/08/2011	MartyHuber	530281	6869954	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	B	20	Dry	Good	AlpineBare
130198	04/08/2011	MartyHuber	530243	6869942	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	15	Dry	Good	AlpineBare
130199	04/08/2011	MartyHuber	530192	6869923	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
130200	04/08/2011	MartyHuber	530154	6869913	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	AlpineBare
130201	04/08/2011	MartyHuber	530102	6869894	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	45	Dry	Good	AlpineBare
130202	04/08/2011	MartyHuber	530055	6869882	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	20	Dry	Good	AlpineBare
130203	04/08/2011	MartyHuber	530014	6869870	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130204	04/08/2011	MartyHuber	529959	6869856	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130205	04/08/2011	MartyHuber	529913	6869839	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	AlpineBare
130206	04/08/2011	MartyHuber	529870	6869828	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
130207	04/08/2011	MartyHuber	529812	6869812	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	AlpineBare
130208	04/08/2011	MartyHuber	529780	6869796	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Dry	Good	AlpineBare
130209	04/08/2011	MartyHuber	529684	6869765	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	20	Dry	Good	AlpineBare
130210	04/08/2011	MartyHuber	529628	6869755	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
130211	04/08/2011	MartyHuber	529582	6869723	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130212	04/08/2011	MartyHuber	529535	6869720	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130213	04/08/2011	MartyHuber	529483	6869709	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Poor	AlpineBare
130214	04/08/2011	MartyHuber	529451	6869689	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	B	20	Dry	Good	SubAlpineBrush
130215	04/08/2011	MartyHuber	529386	6869684	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130216	04/08/2011	MartyHuber	529345	6869659	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	45	Dry	Good	SubAlpineBrush
130217	04/08/2011	MartyHuber	529298	6869640	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130218	04/08/2011	MartyHuber	529258	6869631	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	15	Dry	Good	SubAlpineBrush
130219	04/08/2011	MartyHuber	529206	6869620	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130220	04/08/2011	MartyHuber	529160	6869596	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	SubAlpineBrush
130221	04/08/2011	MartyHuber	529111	6869587	UTMZ9N WGS84	Lithosoil	Tan	Silt	SteepW	C	45	Dry	Good	SubAlpineBrush
130222	04/08/2011	MartyHuber	529061	6869575	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	35	Dry	Good	SubAlpineBrush
130223	04/08/2011	MartyHuber	529015	6869555	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateW	C	40	Dry	Good	SubAlpineBrush
130224	05/08/2011	MartyHuber	529926	6870262	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	25	Dry	Good	AlpineBare
130225	05/08/2011	MartyHuber	529885	6870256	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	B	25	Dry	Good	AlpineBare
130226	05/08/2011	MartyHuber	529839	6870253	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	B	25	Dry	Good	AlpineBare
130227	05/08/2011	MartyHuber	529791	6870234	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	15	Dry	Good	AlpineBare
130228	05/08/2011	MartyHuber	529756	6870200	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	15	Dry	Good	AlpineBare
130229	05/08/2011	MartyHuber	529711	6870168	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	35	Dry	Good	AlpineBare
130230	05/08/2011	MartyHuber	529652	6870162	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	40	Dry	Good	AlpineBare
130231	05/08/2011	MartyHuber	529611	6870155	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	20	Dry	Good	AlpineBare
130232	05/08/2011	MartyHuber	529559	6870138	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	30	Dry	Good	AlpineBare
130233	05/08/2011	MartyHuber	529516	6870135	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	B	25	Dry	Good	SubAlpineBrush
130234	05/08/2011	MartyHuber	529412	6870096	UTMZ9N WGS84	Lithosoil	Brown	Sand	DrainageSeasonal	B	20	Wet	Good	AlpineBare
130235	05/08/2011	MartyHuber	529367	6870077	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	20	Dry	Good	AlpineBare
130236	05/08/2011	MartyHuber	529324	6870073	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	AlpineBare
130237	05/08/2011	MartyHuber	529273	6870053	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	SubAlpineBrush
130238	05/08/2011	MartyHuber	529228	6870042	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130239	05/08/2011	MartyHuber	529176	6870027	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130240	05/08/2011	MartyHuber	529129	6870027	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Good	SubAlpineBrush
130241	05/08/2011	MartyHuber	529082	6870007	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	20	Dry	Poor	SubAlpineBrush
130242	05/08/2011	MartyHuber	529033	6869999	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	30	Dry	Poor	SubAlpineBrush
130243	05/08/2011	MartyHuber	528958	6869963	UTMZ9N WGS84	Lithosoil	Grey	Sand	Flat	C	35	Dry	Good	SubAlpineBrush
130244	06/08/2011	MartyHuber	531508	6869197	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	10	Dry	Good	AlpineBare
130245	06/08/2011	MartyHuber	531561	6869218	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	30	Dry	Good	AlpineBare
130246	06/08/2011	MartyHuber	531599	6869223	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSE	C	20	Dry	Good	AlpineBare
130247	06/08/2011	MartyHuber	531650	6869245	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	35	Dry	Good	AlpineBare
130248	06/08/2011	MartyHuber	531698	6869251	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	25	Dry	Good	SubAlpineBrush
130249	06/08/2011	MartyHuber	531751	6869283	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	30	Dry	Good	SubAlpineBrush
130250	06/08/2011	MartyHuber	531788	6869295	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	30	Dry	Good	SubAlpineBrush
130251	06/08/2011	MartyHuber	531841	6869305	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	30	Dry	Good	SubAlpineBrush
130252	06/08/2011	MartyHuber	531890	6869331	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	30	Dry	Good	SubAlpineBrush
130253	06/08/2011	MartyHuber	531940	6869334	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	20	Dry	Good	SubAlpineBrush
130254	06/08/2011	MartyHuber	531984	6869361	UTMZ9N WGS84	Soil	Brown	Silt	Flat	A	20	Dry	Poor	SubAlpineBrush
130255	06/08/2011	MartyHuber	532034	6869371	UTMZ9N WGS84	Lithosoil	Brown	Sand	Drainage	C	25	Wet	Good	DrainageBrush
130256	06/08/2011	MartyHuber	532172	6869409	UTMZ9N WGS84	Soil	Brown	Silt	SteepW	B	40	Dry	Poor	SubAlpineBrush
130257	06/08/2011	MartyHuber	531403	6869258	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateS	C	10	Dry	Good	AlpineBare
130258	06/08/2011	MartyHuber	531445	6869275	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateS	C	20	Dry	Good	AlpineBare
130259	06/08/2011	MartyHuber	531514	6869298	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	20	Dry	Good	AlpineBare
130260	06/08/2011	MartyHuber	531574	6869315	UTMZ9N WGS84	TalusFine	Brown	Silt	ModerateE	B	20	Dry	Good	AlpineBare
130261	06/08/2011	MartyHuber	531626	6869330	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	25	Dry	Good	AlpineBare
130262	06/08/2011	MartyHuber	531670	6869351	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	20	Dry	Good	AlpineBare
130263	06/08/2011	MartyHuber	531732	6869358	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	20	Dry	Good	AlpineBare
130264	06/08/2011	MartyHuber	531750	6869377	UTMZ9N WGS84	TalusFine	Brown	Sand	ModerateE	B	20	Dry	Good	AlpineBare
130265	06/08/2011	MartyHuber	531806	6869383	UTMZ9N WGS84	TalusFine	Brown	Sand	ModerateE	B	20	Dry	Good	DrainageBrush
130267	08/08/2011	MartyHuber	530787	6869705	UTMZ9N WGS84	TalusFine	Brown	Sand	SteepE	B	15	Dry	Good	AlpineBare
130268	08/08/2011	MartyHuber	530839	6869711	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	10	Dry	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130269	08/08/2011	MartyHuber	530889	6869733	UTMZ9N WGS84	TalusFine	Brown	Sand	SteepE	C	15	Dry	Good	AlpineBare
130270	08/08/2011	MartyHuber	530928	6869752	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	20	Dry	Good	AlpineBare
130271	08/08/2011	MartyHuber	530981	6869764	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepE	C	20	Dry	Good	AlpineBare
130272	08/08/2011	MartyHuber	531024	6869776	UTMZ9N WGS84	TalusFine	BrownLight	Sand	SteepE	C	10	Dry	Good	AlpineBare
130273	08/08/2011	MartyHuber	531071	6869787	UTMZ9N WGS84	TalusFine	Grey	Sand	SteepE	C	20	Dry	Good	AlpineBare
130274	08/08/2011	MartyHuber	531124	6869805	UTMZ9N WGS84	TalusFine	Brown	Sand	ModerateN	C	15	Dry	Good	AlpineBare
130275	08/08/2011	MartyHuber	531179	6869816	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	35	Dry	Good	AlpineBare
130276	08/08/2011	MartyHuber	531221	6869828	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	B	45	Dry	Good	AlpineBare
130277	08/08/2011	MartyHuber	531267	6869850	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	B	25	Dry	Good	AlpineBare
130278	08/08/2011	MartyHuber	531312	6869867	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	25	Dry	Good	AlpineBare
130279	08/08/2011	MartyHuber	531357	6869877	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	40	Dry	Good	AlpineBare
130280	08/08/2011	MartyHuber	531404	6869883	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	B	40	Dry	Good	AlpineBare
130281	08/08/2011	MartyHuber	531464	6869914	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	C	15	Wet	Good	AlpineBare
130282	08/08/2011	MartyHuber	531550	6869928	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	20	Dry	Good	SubAlpineBrush
130283	08/08/2011	MartyHuber	531602	6869946	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	10	Dry	Good	SubAlpineBrush
130284	08/08/2011	MartyHuber	531679	6870005	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepW	B	10	Dry	Poor	SubAlpineBrush
130285	08/08/2011	MartyHuber	531704	6870019	UTMZ9N WGS84	TalusFine	Brown	Sand	SteepW	C	10	Dry	Good	AlpineBare
130286	08/08/2011	MartyHuber	531664	6870182	UTMZ9N WGS84	TalusFine	Brown	Sand	SteepW	B	15	Dry	Good	SubAlpineBrush
130287	08/08/2011	MartyHuber	531638	6870174	UTMZ9N WGS84	TalusFine	Grey	Sand	SteepW	B	10	Dry	Good	SubAlpineBrush
130288	08/08/2011	MartyHuber	531587	6870156	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepW	B	10	Dry	Good	SubAlpineBrush
130289	09/08/2011	MartyHuber	527198	6865779	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	30	Dry	Good	AlpineBare
130291	09/08/2011	MartyHuber	527246	6865796	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	20	Dry	Good	AlpineBare
130292	09/08/2011	MartyHuber	527290	6865811	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	25	Dry	Good	AlpineBare
130293	09/08/2011	MartyHuber	527339	6865817	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Dry	Good	AlpineBare
130294	09/08/2011	MartyHuber	527390	6865829	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	35	Dry	Good	AlpineBare
130295	09/08/2011	MartyHuber	527437	6865854	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	35	Dry	Good	AlpineBare
130296	09/08/2011	MartyHuber	527484	6865869	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	30	Dry	Good	AlpineBare
130297	09/08/2011	MartyHuber	527529	6865882	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	35	Moist	Good	AlpineBare
130298	09/08/2011	MartyHuber	527577	6865891	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	B	30	Dry	Good	SubAlpineBrush
130299	09/08/2011	MartyHuber	527621	6865917	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	25	Dry	Good	ForestMixed
130300	09/08/2011	MartyHuber	527679	6865924	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	C	25	Wet	Good	DrainageBrush
130301	09/08/2011	MartyHuber	527724	6865943	UTMZ9N WGS84	Lithosoil	Grey	Sand	Flat	C	35	Dry	Good	AlpineBare
130302	09/08/2011	MartyHuber	527779	6865957	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	B	25	Dry	Good	AlpineBare
130303	09/08/2011	MartyHuber	527813	6865961	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	40	Dry	Good	ForestMixed
130304	09/08/2011	MartyHuber	527863	6865990	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	B	25	Dry	Good	SubAlpineBrush
130305	09/08/2011	MartyHuber	527909	6866000	UTMZ9N WGS84	Lithosoil	Green	Sand	ModerateW	C	45	Dry	Good	AlpineBare
130306	09/08/2011	MartyHuber	527960	6866018	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepW	C	35	Dry	Good	AlpineBare
130307	09/08/2011	MartyHuber	528006	6866025	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	B	40	Dry	Good	AlpineBare
130308	09/08/2011	MartyHuber	528057	6866040	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepW	C	35	Dry	Good	AlpineBare
130309	09/08/2011	MartyHuber	528101	6866055	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepW	C	40	Dry	Good	AlpineBare
130310	09/08/2011	MartyHuber	528152	6866071	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepW	C	30	Dry	Good	AlpineBare
130311	09/08/2011	MartyHuber	528199	6866092	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepW	C	65	Dry	Good	AlpineBare
130312	09/08/2011	MartyHuber	528246	6866108	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepW	C	40	Dry	Good	AlpineBare
130313	09/08/2011	MartyHuber	528298	6866117	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepW	C	50	Dry	Good	AlpineBare
130314	09/08/2011	MartyHuber	528343	6866133	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepW	C	50	Dry	Good	AlpineBare
130315	09/08/2011	MartyHuber	528387	6866158	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	30	Dry	Good	AlpineBare
130316	09/08/2011	MartyHuber	528432	6866159	UTMZ9N WGS84	TalusFine	Grey	Silt	CliffBase	C	20	Dry	Good	AlpineBare
130317	09/08/2011	MartyHuber	528479	6866185	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepE	C	40	Dry	Good	AlpineBare
130318	09/08/2011	MartyHuber	528524	6866194	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepE	C	35	Dry	Good	AlpineBare
130319	09/08/2011	MartyHuber	528579	6866206	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepE	C	50	Dry	Good	AlpineBare
130320	09/08/2011	MartyHuber	528621	6866227	UTMZ9N WGS84	TalusFine	Brown	Silt	DrainageSeasonal	B	15	Dry	Good	AlpineBare
130321	09/08/2011	MartyHuber	528674	6866228	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	B	25	Dry	Good	AlpineBare
130322	09/08/2011	MartyHuber	528764	6866269	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepNE	B	20	Dry	Good	AlpineBare
130323	09/08/2011	MartyHuber	528913	6866317	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	B	30	Dry	Good	ForestMixed
130324	09/08/2011	MartyHuber	528956	6866325	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	30	Dry	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130325	09/08/2011	MartyHuber	529004	6866348	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	40	Dry	Good	ForestBlackSpruce
130326	09/08/2011	MartyHuber	529054	6866361	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	30	Dry	Good	ForestBlackSpruce
130327	09/08/2011	MartyHuber	529098	6866382	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	40	Dry	Good	ForestBlackSpruce
130328	09/08/2011	MartyHuber	529145	6866388	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	40	Dry	Good	ForestBlackSpruce
130329	09/08/2011	MartyHuber	529237	6866431	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	30	Dry	Good	SubAlpineBrush
130330	10/08/2011	MartyHuber	530622	6870082	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepE	B	10	Dry	Good	AlpineBare
130331	10/08/2011	MartyHuber	530694	6870084	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepNE	B	10	Wet	Good	AlpineBare
130332	10/08/2011	MartyHuber	530793	6870103	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepE	B	10	Dry	Good	AlpineBare
130333	10/08/2011	MartyHuber	530849	6870139	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepE	B	15	Dry	Good	AlpineBare
130334	10/08/2011	MartyHuber	530902	6870148	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepE	B	20	Dry	Good	AlpineBare
130335	10/08/2011	MartyHuber	531001	6870183	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	25	Dry	Good	AlpineBare
130336	10/08/2011	MartyHuber	531105	6870220	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	20	Dry	Good	AlpineBare
130337	10/08/2011	MartyHuber	531143	6870227	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	20	Dry	Good	AlpineBare
130338	10/08/2011	MartyHuber	531195	6870244	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	25	Dry	Good	AlpineBare
130339	10/08/2011	MartyHuber	531245	6870255	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	30	Dry	Good	SubAlpineBrush
130340	10/08/2011	MartyHuber	531292	6870264	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	35	Dry	Good	SubAlpineBrush
130341	10/08/2011	MartyHuber	531336	6870280	UTMZ9N WGS84	Lithosoil	Brown	Silt	Drainage	B	20	Dry	Good	DrainageBrush
130342	10/08/2011	MartyHuber	531044	6870721	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	B	40	Wet	Good	DrainageBrush
130343	10/08/2011	MartyHuber	531002	6870709	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	B	30	Dry	Good	DrainageBrush
130344	10/08/2011	MartyHuber	530950	6870696	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	B	40	Moist	Good	DrainageBrush
130345	10/08/2011	MartyHuber	530906	6870668	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	B	30	Wet	Good	DrainageBrush
130346	10/08/2011	MartyHuber	530751	6870625	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateN	B	20	Dry	Good	SubAlpineBrush
130347	10/08/2011	MartyHuber	530721	6870616	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateN	B	20	Dry	Poor	SubAlpineBrush
130348	10/08/2011	MartyHuber	530668	6870596	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateN	B	20	Dry	Good	AlpineBare
130349	10/08/2011	MartyHuber	530618	6870581	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateN	B	30	Dry	Good	SubAlpineBrush
130350	10/08/2011	MartyHuber	530571	6870570	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateN	B	20	Dry	Good	SubAlpineBrush
130351	10/08/2011	MartyHuber	530357	6870511	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateN	B	25	Dry	Poor	SubAlpineBrush
130352	11/08/2011	MartyHuber	527189	6866303	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	B	35	Dry	Good	AlpineBare
130353	11/08/2011	MartyHuber	527240	6866312	UTMZ9N WGS84	Lithosoil	Grey	Silt	RidgeAlpine	C	40	Dry	Good	AlpineBare
130354	11/08/2011	MartyHuber	527287	6866322	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateE	C	45	Dry	Good	AlpineBare
130355	11/08/2011	MartyHuber	527338	6866347	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	C	50	Dry	Good	AlpineBare
130356	11/08/2011	MartyHuber	527381	6866365	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	50	Dry	Good	AlpineBare
130357	11/08/2011	MartyHuber	527432	6866368	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	C	50	Dry	Good	SubAlpineBrush
130358	11/08/2011	MartyHuber	527474	6866387	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	C	55	Dry	Good	AlpineBare
130359	11/08/2011	MartyHuber	527525	6866398	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateE	C	30	Dry	Good	ForestMixed
130360	11/08/2011	MartyHuber	527569	6866418	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateE	C	40	Dry	Good	ForestMixed
130361	11/08/2011	MartyHuber	527615	6866432	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateE	C	40	Dry	Good	ForestMixed
130362	11/08/2011	MartyHuber	527667	6866451	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateE	C	50	Moist	Good	ForestMixed
130363	11/08/2011	MartyHuber	527717	6866457	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateE	C	45	Dry	Good	ForestMixed
130364	11/08/2011	MartyHuber	527773	6866474	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateW	C	35	Dry	Good	ForestMixed
130365	11/08/2011	MartyHuber	527810	6866493	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateW	C	40	Dry	Good	ForestMixed
130366	11/08/2011	MartyHuber	527855	6866507	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	B	65	Dry	Good	AlpineBare
130367	11/08/2011	MartyHuber	527901	6866524	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	B	55	Dry	Good	AlpineBare
130368	11/08/2011	MartyHuber	527945	6866535	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	55	Dry	Good	SubAlpineBrush
130369	11/08/2011	MartyHuber	527993	6866551	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	B	55	Dry	Good	AlpineBare
130370	11/08/2011	MartyHuber	528050	6866564	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	B	45	Dry	Good	AlpineBare
130371	11/08/2011	MartyHuber	528100	6866574	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	B	45	Dry	Good	AlpineBare
130372	11/08/2011	MartyHuber	528145	6866589	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	45	Dry	Good	AlpineBare
130373	11/08/2011	MartyHuber	528186	6866611	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	40	Dry	Good	AlpineBare
130374	11/08/2011	MartyHuber	528236	6866622	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	30	Dry	Good	AlpineBare
130375	11/08/2011	MartyHuber	528283	6866640	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	35	Dry	Good	AlpineBare
130376	11/08/2011	MartyHuber	528334	6866666	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	40	Dry	Good	AlpineBare
130377	11/08/2011	MartyHuber	528380	6866686	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	35	Dry	Good	AlpineBare
130378	13/08/2011	MartyHuber	527273	6866738	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	20	Dry	Good	AlpineBare
130379	13/08/2011	MartyHuber	527314	6866752	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	B	20	Dry	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
130380	13/08/2011	MartyHuber	527359	6866765	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	45	Dry	Good	SubAlpineBrush
130381	13/08/2011	MartyHuber	527411	6866788	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	50	Dry	Good	SubAlpineBrush
130382	13/08/2011	MartyHuber	527456	6866798	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	50	Dry	Good	SubAlpineBrush
130383	13/08/2011	MartyHuber	527504	6866811	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	45	Dry	Good	SubAlpineBrush
130384	13/08/2011	MartyHuber	527546	6866822	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	45	Dry	Good	SubAlpineBrush
130385	13/08/2011	MartyHuber	527594	6866842	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	30	Dry	Good	SubAlpineBrush
130386	13/08/2011	MartyHuber	527644	6866854	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	55	Dry	Good	SubAlpineBrush
130387	13/08/2011	MartyHuber	527690	6866867	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	45	Dry	Good	SubAlpineBrush
130388	13/08/2011	MartyHuber	527742	6866880	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	40	Dry	Good	AlpineBare
130389	13/08/2011	MartyHuber	527789	6866895	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	35	Dry	Good	SubAlpineBrush
130391	13/08/2011	MartyHuber	527818	6866922	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	55	Dry	Good	SubAlpineBrush
130392	13/08/2011	MartyHuber	527876	6866932	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	45	Dry	Good	SubAlpineBrush
130393	13/08/2011	MartyHuber	527924	6866945	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	40	Dry	Good	ForestMixed
130394	13/08/2011	MartyHuber	527974	6866966	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	25	Dry	Poor	ForestMixed
130395	13/08/2011	MartyHuber	528108	6866997	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateN	B	30	Dry	Good	SubAlpineBrush
130396	13/08/2011	MartyHuber	528254	6867049	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepN	B	5	Dry	Good	AlpineBare
130397	14/08/2011	MartyHuber	526465	6867304	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateW	C	25	Dry	Good	AlpineBare
130398	14/08/2011	MartyHuber	526520	6867316	UTMZ9N WGS84	Lithosoil	Green	Silt	RidgeAlpine	C	35	Dry	Good	AlpineBare
130399	14/08/2011	MartyHuber	526563	6867336	UTMZ9N WGS84	Lithosoil	Grey	Silt	RidgeAlpine	C	45	Dry	Good	AlpineBare
130400	14/08/2011	MartyHuber	526616	6867347	UTMZ9N WGS84	Lithosoil	Green	Silt	RidgeAlpine	C	50	Dry	Good	AlpineBare
130401	14/08/2011	MartyHuber	526662	6867360	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	45	Dry	Good	AlpineBare
130402	14/08/2011	MartyHuber	526709	6867375	UTMZ9N WGS84	Lithosoil	Grey	Sand	RidgeAlpine	C	35	Dry	Good	SubAlpineBrush
130403	14/08/2011	MartyHuber	526760	6867399	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	65	Dry	Good	SubAlpineBrush
130404	14/08/2011	MartyHuber	526804	6867407	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	45	Dry	Good	SubAlpineBrush
130405	14/08/2011	MartyHuber	526846	6867421	UTMZ9N WGS84	Lithosoil	Green	Silt	ModerateSE	C	55	Dry	Good	SubAlpineBrush
130406	14/08/2011	MartyHuber	526894	6867440	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	50	Dry	Good	SubAlpineBrush
130407	14/08/2011	MartyHuber	526941	6867457	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	50	Dry	Good	SubAlpineBrush
130408	14/08/2011	MartyHuber	526992	6867470	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	35	Dry	Good	SubAlpineBrush
130409	14/08/2011	MartyHuber	527038	6867481	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	40	Dry	Good	SubAlpineBrush
130410	14/08/2011	MartyHuber	527084	6867499	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	65	Dry	Good	SubAlpineBrush
130411	14/08/2011	MartyHuber	527128	6867508	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	45	Dry	Good	SubAlpineBrush
130412	14/08/2011	MartyHuber	527185	6867520	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	40	Dry	Good	SubAlpineBrush
130413	14/08/2011	MartyHuber	527228	6867537	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	60	Dry	Good	SubAlpineBrush
130414	14/08/2011	MartyHuber	527275	6867558	UTMZ9N WGS84	Lithosoil	Tan	Silt	ModerateSE	B	65	Dry	Good	SubAlpineBrush
130415	14/08/2011	MartyHuber	527313	6867567	UTMZ9N WGS84	TalusFine	Brown	Silt	SteepSE	B	10	Dry	Good	AlpineBare
130416	14/08/2011	MartyHuber	527363	6867583	UTMZ9N WGS84	Lithosoil	Tan	Silt	SteepSE	B	50	Dry	Good	SubAlpineBrush
130417	14/08/2011	MartyHuber	527419	6867606	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSE	B	40	Dry	Good	SubAlpineBrush
130418	14/08/2011	MartyHuber	527460	6867619	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSE	B	50	Dry	Good	SubAlpineBrush
130419	14/08/2011	MartyHuber	527511	6867637	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	35	Dry	Good	SubAlpineBrush
130420	14/08/2011	MartyHuber	527564	6867646	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	40	Dry	Good	SubAlpineBrush
130421	14/08/2011	MartyHuber	527606	6867659	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	45	Dry	Good	SubAlpineBrush
130422	14/08/2011	MartyHuber	527649	6867675	UTMZ9N WGS84	TalusFine	Brown	Silt	ModerateSE	B	25	Dry	Good	SubAlpineBrush
130423	14/08/2011	MartyHuber	527707	6867696	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	40	Dry	Good	SubAlpineBrush
130424	14/08/2011	MartyHuber	527750	6867709	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	45	Dry	Good	SubAlpineBrush
130425	14/08/2011	MartyHuber	527797	6867725	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	50	Dry	Good	SubAlpineBrush
130426	14/08/2011	MartyHuber	527844	6867736	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	B	50	Dry	Good	SubAlpineBrush
130427	14/08/2011	MartyHuber	527893	6867750	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepE	B	35	Dry	Good	SubAlpineBrush
130428	14/08/2011	MartyHuber	527935	6867760	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	45	Dry	Good	SubAlpineBrush
130429	14/08/2011	MartyHuber	527981	6867771	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	45	Dry	Good	ForestMixed
130430	14/08/2011	MartyHuber	528034	6867792	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateE	B	35	Dry	Good	ForestMixed
147001	01/08/2011	SteveCrowell	531566	6869005	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	Flat	C	30	Moist	Good	SubAlpineBrush
147002	01/08/2011	SteveCrowell	531519	6868989	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Flat	C	40	Moist	Excellent	ForestPine
147003	01/08/2011	SteveCrowell	531479	6868981	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	40	Moist	Excellent	SubAlpineBrush
147004	01/08/2011	SteveCrowell	531429	6868959	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateNE	C	30	Moist	Good	SubAlpineBrush
147005	01/08/2011	SteveCrowell	531382	6868947	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	40	Moist	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147006	01/08/2011	SteveCrowell	531329	6868936	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	40	Moist	Good	ForestPine
147007	01/08/2011	SteveCrowell	531283	6868919	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	Flat	C	40	Moist	Excellent	SubAlpineBrush
147008	01/08/2011	SteveCrowell	531234	6868902	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	B	20	Moist	Poor	SubAlpineBrush
147009	01/08/2011	SteveCrowell	531196	6868890	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	30	Moist	Good	SubAlpineBrush
147010	01/08/2011	SteveCrowell	531143	6868874	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	35	Moist	Good	SubAlpineBrush
147011	01/08/2011	SteveCrowell	531089	6868866	UTMZ9N WGS84	Lithosoil	RustyOrange	Silt	Flat	C	20	Moist	Excellent	ForestPine
147012	01/08/2011	SteveCrowell	531047	6868848	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	30	Moist	Good	SubAlpineBrush
147013	01/08/2011	SteveCrowell	530995	6868826	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Flat	C	20	Moist	Good	SubAlpineBrush
147014	01/08/2011	SteveCrowell	530955	6868808	UTMZ9N WGS84	Lithosoil	BrownDark	Silt	Flat	C	25	Moist	Good	SubAlpineBrush
147015	01/08/2011	SteveCrowell	530905	6868815	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Flat	B	30	Moist	Good	SubAlpineBrush
147016	01/08/2011	SteveCrowell	530848	6868784	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateNW	B	20	Moist	Poor	SubAlpineBrush
147017	01/08/2011	SteveCrowell	530816	6868763	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	ModerateNW	B	30	Moist	Good	SubAlpineBrush
147018	01/08/2011	SteveCrowell	530776	6868756	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNW	C	40	Dry	Excellent	SubAlpineBrush
147019	01/08/2011	SteveCrowell	530721	6868749	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepNW	C	50	Moist	Good	SubAlpineBrush
147020	01/08/2011	SteveCrowell	530675	6868722	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepNW	C	45	Moist	Excellent	SubAlpineBrush
147021	01/08/2011	SteveCrowell	530620	6868689	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepNW	C	20	Moist	Poor	SubAlpineBrush
147022	01/08/2011	SteveCrowell	530577	6868674	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepNW	C	55	Moist	Excellent	SubAlpineBrush
147023	01/08/2011	SteveCrowell	530527	6868666	UTMZ9N WGS84	Lithosoil	RustyOrange	Gravel	ModerateNW	C	40	Moist	Excellent	SubAlpineBrush
147024	01/08/2011	SteveCrowell	530487	6868659	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNW	C	40	Dry	Excellent	SubAlpineBrush
147025	01/08/2011	SteveCrowell	530434	6868654	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateNW	C	35	Moist	Excellent	SubAlpineBrush
147026	01/08/2011	SteveCrowell	530397	6868629	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	SubAlpineBrush
147027	01/08/2011	SteveCrowell	530345	6868623	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateS	C	40	Moist	Good	SubAlpineBrush
147028	01/08/2011	SteveCrowell	530293	6868598	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateS	B	40	Moist	Poor	SubAlpineBrush
147029	01/08/2011	SteveCrowell	530204	6868568	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateS	C	30	Moist	Good	SubAlpineBrush
147030	01/08/2011	SteveCrowell	530157	6868566	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepS	C	40	Moist	Good	SubAlpineBrush
147031	01/08/2011	SteveCrowell	530094	6868542	UTMZ9N WGS84	Lithosoil	Tan	Sand	Flat	C	40	Dry	Excellent	SubAlpineBrush
147032	01/08/2011	SteveCrowell	530047	6868525	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepS	C	40	Moist	Good	SubAlpineBrush
147033	02/08/2011	SteveCrowell	531262	6869334	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	20	Moist	Good	AlpineBare
147034	02/08/2011	SteveCrowell	531211	6869308	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Flat	C	45	Moist	Good	AlpineBare
147035	02/08/2011	SteveCrowell	531162	6869304	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	10	Moist	Good	AlpineBare
147036	02/08/2011	SteveCrowell	531123	6869278	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Moist	Excellent	AlpineBare
147037	02/08/2011	SteveCrowell	531073	6869261	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Moist	Excellent	SubAlpineBrush
147038	02/08/2011	SteveCrowell	531020	6869249	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Moist	Good	SubAlpineBrush
147039	02/08/2011	SteveCrowell	530975	6869242	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepE	C	80	Moist	Excellent	SubAlpineBrush
147041	02/08/2011	SteveCrowell	530928	6869225	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	50	Moist	Excellent	SubAlpineBrush
147042	02/08/2011	SteveCrowell	530881	6869212	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	60	Moist	Good	SubAlpineBrush
147043	02/08/2011	SteveCrowell	530828	6869195	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Moist	Excellent	SubAlpineBrush
147044	02/08/2011	SteveCrowell	530773	6869173	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Moist	Excellent	SubAlpineBrush
147045	02/08/2011	SteveCrowell	530736	6869162	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	65	Moist	Excellent	SubAlpineBrush
147046	02/08/2011	SteveCrowell	530691	6869139	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	80	Moist	Excellent	SubAlpineBrush
147047	02/08/2011	SteveCrowell	530649	6869130	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	40	Moist	Excellent	SubAlpineBrush
147048	02/08/2011	SteveCrowell	530611	6869122	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	40	Moist	Excellent	SubAlpineBrush
147049	02/08/2011	SteveCrowell	530560	6869111	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Moist	Excellent	SubAlpineBrush
147050	02/08/2011	SteveCrowell	530514	6869087	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	50	Dry	Excellent	SubAlpineBrush
147051	02/08/2011	SteveCrowell	530461	6869082	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	35	Moist	Good	SubAlpineBrush
147052	02/08/2011	SteveCrowell	530412	6869060	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	10	Moist	Poor	SubAlpineBrush
147053	02/08/2011	SteveCrowell	530363	6869049	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147054	02/08/2011	SteveCrowell	530304	6869026	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Moist	Poor	SubAlpineBrush
147055	02/08/2011	SteveCrowell	530271	6869018	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147056	02/08/2011	SteveCrowell	530216	6868984	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	20	Moist	Good	SubAlpineBrush
147057	02/08/2011	SteveCrowell	530172	6868982	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	20	Moist	Good	SubAlpineBrush
147058	02/08/2011	SteveCrowell	530127	6868965	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Good	SubAlpineBrush
147059	02/08/2011	SteveCrowell	530075	6868955	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	SubAlpineBrush
147060	02/08/2011	SteveCrowell	530032	6868936	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147061	02/08/2011	SteveCrowell	529986	6868924	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147062	02/08/2011	SteveCrowell	529937	6868908	UTMZ9N WGS84	Lithosoil	RustyRed	Sand	SteepSW	C	35	Moist	Excellent	SubAlpineBrush
147063	02/08/2011	SteveCrowell	529890	6868894	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147064	02/08/2011	SteveCrowell	529841	6868880	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	35	Moist	Excellent	SubAlpineBrush
147065	02/08/2011	SteveCrowell	529795	6868867	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	50	Moist	Excellent	SubAlpineBrush
147066	02/08/2011	SteveCrowell	529751	6868849	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	45	Moist	Excellent	SubAlpineBrush
147067	02/08/2011	SteveCrowell	529708	6868825	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	20	Moist	Good	SubAlpineBrush
147068	03/08/2011	SteveCrowell	530821	6869595	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateNE	C	30	Moist	Excellent	AlpineBare
147069	03/08/2011	SteveCrowell	530769	6869584	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	35	Moist	Excellent	AlpineBare
147070	03/08/2011	SteveCrowell	530722	6869569	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	20	Moist	Good	AlpineBare
147071	03/08/2011	SteveCrowell	530675	6869560	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	30	Moist	Excellent	AlpineBare
147072	03/08/2011	SteveCrowell	530626	6869544	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
147073	03/08/2011	SteveCrowell	530590	6869526	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
147074	03/08/2011	SteveCrowell	530541	6869519	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
147075	03/08/2011	SteveCrowell	530488	6869494	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Excellent	AlpineBare
147076	03/08/2011	SteveCrowell	530442	6869485	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
147077	03/08/2011	SteveCrowell	530403	6869466	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
147078	03/08/2011	SteveCrowell	530349	6869454	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
147079	03/08/2011	SteveCrowell	530298	6869435	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	25	Moist	Excellent	AlpineBare
147080	03/08/2011	SteveCrowell	530253	6869420	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	35	Moist	Good	SubAlpineBrush
147081	03/08/2011	SteveCrowell	530199	6869407	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147082	03/08/2011	SteveCrowell	530168	6869393	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Moist	Excellent	SubAlpineBrush
147083	03/08/2011	SteveCrowell	530112	6869378	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	50	Moist	Excellent	SubAlpineBrush
147084	03/08/2011	SteveCrowell	530073	6869365	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147085	03/08/2011	SteveCrowell	530006	6869351	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	50	Dry	Excellent	SubAlpineBrush
147086	03/08/2011	SteveCrowell	529975	6869340	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	35	Moist	Excellent	SubAlpineBrush
147087	03/08/2011	SteveCrowell	529921	6869320	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Excellent	SubAlpineBrush
147088	03/08/2011	SteveCrowell	529872	6869304	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147089	03/08/2011	SteveCrowell	529833	6869287	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	50	Moist	Excellent	SubAlpineBrush
147090	03/08/2011	SteveCrowell	529790	6869277	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147091	03/08/2011	SteveCrowell	529742	6869266	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147092	03/08/2011	SteveCrowell	529689	6869255	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateSW	C	40	Dry	Excellent	SubAlpineBrush
147093	03/08/2011	SteveCrowell	529645	6869231	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	Flat	C	50	Moist	Excellent	SubAlpineBrush
147094	03/08/2011	SteveCrowell	529599	6869212	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	50	Dry	Excellent	SubAlpineBrush
147095	03/08/2011	SteveCrowell	529549	6869202	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147096	03/08/2011	SteveCrowell	529502	6869186	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147097	03/08/2011	SteveCrowell	529455	6869177	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	30	Moist	Excellent	SubAlpineBrush
147098	03/08/2011	SteveCrowell	529397	6869157	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	60	Moist	Excellent	SubAlpineBrush
147099	03/08/2011	SteveCrowell	529361	6869141	UTMZ9N WGS84	Lithosoil	Tan	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147100	03/08/2011	SteveCrowell	529309	6869123	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Dry	Excellent	SubAlpineBrush
147101	03/08/2011	SteveCrowell	529255	6869119	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147102	03/08/2011	SteveCrowell	529196	6869102	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	20	Dry	Excellent	SubAlpineBrush
147103	04/08/2011	SteveCrowell	530633	6869856	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateNW	C	20	Moist	Good	AlpineBare
147104	04/08/2011	SteveCrowell	530576	6869829	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	30	Moist	Poor	AlpineBare
147105	04/08/2011	SteveCrowell	530538	6869825	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	30	Moist	Poor	AlpineBare
147106	04/08/2011	SteveCrowell	530498	6869816	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
147107	04/08/2011	SteveCrowell	530461	6869803	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateSW	C	35	Moist	Good	AlpineBare
147108	04/08/2011	SteveCrowell	530401	6869781	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateSW	C	35	Moist	Excellent	AlpineBare
147109	04/08/2011	SteveCrowell	530351	6869771	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
147110	04/08/2011	SteveCrowell	530300	6869746	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	25	Moist	Poor	AlpineBare
147111	04/08/2011	SteveCrowell	530253	6869734	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	60	Dry	Excellent	AlpineBare
147112	04/08/2011	SteveCrowell	530207	6869719	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Dry	Good	AlpineBare
147113	04/08/2011	SteveCrowell	530170	6869711	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	35	Moist	Excellent	SubAlpineBrush
147114	04/08/2011	SteveCrowell	530117	6869694	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Dry	Excellent	AlpineBare
147115	04/08/2011	SteveCrowell	530073	6869679	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	60	Dry	Excellent	AlpineBare
147116	04/08/2011	SteveCrowell	530023	6869665	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	60	Dry	Excellent	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147117	04/08/2011	SteveCrowell	529975	6869644	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	35	Dry	Excellent	SubAlpineBrush
147118	04/08/2011	SteveCrowell	529926	6869630	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	60	Dry	Excellent	SubAlpineBrush
147119	04/08/2011	SteveCrowell	529883	6869628	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	60	Dry	Excellent	SubAlpineBrush
147120	04/08/2011	SteveCrowell	529843	6869609	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	60	Moist	Excellent	SubAlpineBrush
147121	04/08/2011	SteveCrowell	529792	6869601	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Dry	Excellent	SubAlpineBrush
147122	04/08/2011	SteveCrowell	529740	6869583	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepN	C	60	Dry	Excellent	SubAlpineBrush
147123	04/08/2011	SteveCrowell	529688	6869573	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepNE	C	40	Dry	Excellent	SubAlpineBrush
147124	04/08/2011	SteveCrowell	529641	6869560	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	10	Dry	Excellent	SubAlpineBrush
147125	04/08/2011	SteveCrowell	529597	6869519	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	B	20	Moist	Poor	SubAlpineBrush
147126	04/08/2011	SteveCrowell	529549	6869519	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147127	04/08/2011	SteveCrowell	529509	6869511	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Moist	Excellent	SubAlpineBrush
147128	04/08/2011	SteveCrowell	529456	6869491	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	45	Dry	Excellent	SubAlpineBrush
147129	04/08/2011	SteveCrowell	529411	6869484	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Moist	Excellent	SubAlpineBrush
147130	04/08/2011	SteveCrowell	529360	6869457	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147131	04/08/2011	SteveCrowell	529299	6869444	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	60	Moist	Excellent	SubAlpineBrush
147132	04/08/2011	SteveCrowell	529258	6869425	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	50	Moist	Good	SubAlpineBrush
147133	04/08/2011	SteveCrowell	529208	6869417	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	40	Moist	Excellent	SubAlpineBrush
147134	04/08/2011	SteveCrowell	529171	6869402	UTMZ9N WGS84	Lithosoil	Tan	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147135	04/08/2011	SteveCrowell	529117	6869382	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSW	B	35	Moist	Poor	SubAlpineBrush
147136	05/08/2011	SteveCrowell	530086	6870095	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	10	Moist	Poor	AlpineBare
147137	05/08/2011	SteveCrowell	530048	6870088	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	25	Dry	Excellent	AlpineBare
147138	05/08/2011	SteveCrowell	529988	6870065	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
147139	05/08/2011	SteveCrowell	529957	6870048	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Moist	Good	SubAlpineBrush
147141	05/08/2011	SteveCrowell	529903	6870043	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	SubAlpineBrush
147142	05/08/2011	SteveCrowell	529865	6870028	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Dry	Excellent	SubAlpineBrush
147143	05/08/2011	SteveCrowell	529808	6870013	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Excellent	SubAlpineBrush
147144	05/08/2011	SteveCrowell	529764	6870002	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	20	Dry	Excellent	AlpineBare
147145	05/08/2011	SteveCrowell	529660	6869980	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	20	Moist	Good	AlpineBare
147146	05/08/2011	SteveCrowell	529627	6869960	UTMZ9N WGS84	Lithosoil	Tan	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147147	05/08/2011	SteveCrowell	529564	6869943	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	30	Dry	Good	SubAlpineBrush
147148	05/08/2011	SteveCrowell	529526	6869928	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147149	05/08/2011	SteveCrowell	529482	6869916	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147150	05/08/2011	SteveCrowell	529422	6869900	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepSW	C	35	Moist	Poor	SubAlpineBrush
147151	05/08/2011	SteveCrowell	529373	6869889	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	20	Moist	Good	SubAlpineBrush
147152	05/08/2011	SteveCrowell	529344	6869871	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Poor	SubAlpineBrush
147153	05/08/2011	SteveCrowell	529293	6869849	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Good	SubAlpineBrush
147154	05/08/2011	SteveCrowell	529248	6869841	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147155	05/08/2011	SteveCrowell	529191	6869828	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	SubAlpineBrush
147156	05/08/2011	SteveCrowell	529148	6869807	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Excellent	SubAlpineBrush
147157	05/08/2011	SteveCrowell	529103	6869799	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineBrush
147158	05/08/2011	SteveCrowell	529055	6869778	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Good	SubAlpineBrush
147159	05/08/2011	SteveCrowell	529005	6869772	UTMZ9N WGS84	Lithosoil	Tan	Sand	Flat	C	35	Moist	Excellent	SubAlpineBrush
147160	06/08/2011	SteveCrowell	531662	6869040	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	35	Moist	Good	SubAlpineBrush
147161	06/08/2011	SteveCrowell	531718	6869055	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	35	Dry	Excellent	SubAlpineBrush
147162	06/08/2011	SteveCrowell	531754	6869073	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	40	Dry	Excellent	SubAlpineBrush
147163	06/08/2011	SteveCrowell	531803	6869073	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	45	Dry	Excellent	SubAlpineBrush
147164	06/08/2011	SteveCrowell	531856	6869089	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	35	Dry	Good	SubAlpineBrush
147165	06/08/2011	SteveCrowell	531895	6869098	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	40	Moist	Good	SubAlpineBrush
147166	06/08/2011	SteveCrowell	531942	6869122	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Moist	Excellent	SubAlpineBrush
147167	06/08/2011	SteveCrowell	532001	6869135	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepN	C	20	Wet	Good	SubAlpineBrush
147168	06/08/2011	SteveCrowell	532043	6869146	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	25	Moist	Good	SubAlpineBrush
147169	06/08/2011	SteveCrowell	532289	6869233	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepS	C	40	Dry	Good	SubAlpineBrush
147170	06/08/2011	SteveCrowell	532325	6869248	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	35	Dry	Excellent	SubAlpineBrush
147171	06/08/2011	SteveCrowell	532365	6869264	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepS	C	40	Dry	Good	SubAlpineBrush
147172	06/08/2011	SteveCrowell	532249	6869638	UTMZ9N WGS84	Lithosoil	Grey	Gravel	SteepS	C	60	Moist	Good	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147173	06/08/2011	SteveCrowell	532207	6869620	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	30	Moist	Excellent	SubAlpineBrush
147174	06/08/2011	SteveCrowell	532161	6869597	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	5	Dry	Excellent	SubAlpineBrush
147175	06/08/2011	SteveCrowell	532112	6869588	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	60	Dry	Excellent	SubAlpineBrush
147176	06/08/2011	SteveCrowell	532073	6869580	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepS	C	50	Dry	Good	SubAlpineBrush
147177	06/08/2011	SteveCrowell	532028	6869552	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	B	40	Dry	Good	SubAlpineBrush
147178	06/08/2011	SteveCrowell	531965	6869553	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepS	C	45	Dry	Excellent	SubAlpineBrush
147179	06/08/2011	SteveCrowell	531919	6869549	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepS	C	50	Moist	Good	SubAlpineBrush
147180	08/08/2011	SteveCrowell	530901	6869526	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateN	C	40	Dry	Excellent	AlpineBare
147181	08/08/2011	SteveCrowell	530945	6869538	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Dry	Excellent	SubAlpineBrush
147182	08/08/2011	SteveCrowell	530989	6869547	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Dry	Excellent	SubAlpineBrush
147183	08/08/2011	SteveCrowell	531036	6869566	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	50	Dry	Excellent	SubAlpineBrush
147184	08/08/2011	SteveCrowell	531085	6869586	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	35	Dry	Excellent	SubAlpineBrush
147185	08/08/2011	SteveCrowell	531139	6869589	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	40	Dry	Excellent	SubAlpineBrush
147186	08/08/2011	SteveCrowell	531185	6869605	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepN	C	45	Dry	Excellent	SubAlpineBrush
147187	08/08/2011	SteveCrowell	531236	6869619	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	50	Dry	Poor	SubAlpineBrush
147188	08/08/2011	SteveCrowell	531278	6869635	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	40	Moist	Good	SubAlpineBrush
147189	08/08/2011	SteveCrowell	531332	6869660	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Moist	Good	SubAlpineBrush
147190	08/08/2011	SteveCrowell	531372	6869665	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	45	Dry	Excellent	SubAlpineBrush
147191	08/08/2011	SteveCrowell	531428	6869673	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Moist	Poor	SubAlpineBrush
147192	08/08/2011	SteveCrowell	531462	6869701	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	35	Moist	Poor	SubAlpineBrush
147193	08/08/2011	SteveCrowell	531521	6869713	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	35	Moist	Poor	SubAlpineBrush
147194	08/08/2011	SteveCrowell	531562	6869735	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Moist	Excellent	SubAlpineBrush
147195	08/08/2011	SteveCrowell	531616	6869745	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepN	C	40	Moist	Good	SubAlpineBrush
147196	08/08/2011	SteveCrowell	531658	6869752	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	C	40	Moist	Good	SubAlpineBrush
147197	08/08/2011	SteveCrowell	531752	6869795	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepS	C	60	Moist	Good	SubAlpineBrush
147198	08/08/2011	SteveCrowell	531797	6869819	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepS	C	60	Dry	Excellent	SubAlpineBrush
147199	08/08/2011	SteveCrowell	531494	6870130	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepS	C	50	Dry	Excellent	SubAlpineBrush
147200	09/08/2011	SteveCrowell	527224	6865681	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
147201	09/08/2011	SteveCrowell	527267	6865704	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Moist	Excellent	AlpineBare
147202	09/08/2011	SteveCrowell	527321	6865709	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	45	Dry	Excellent	AlpineBare
147203	09/08/2011	SteveCrowell	527364	6865724	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Moist	Excellent	SubAlpineBrush
147204	09/08/2011	SteveCrowell	527415	6865747	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	60	Moist	Excellent	SubAlpineBrush
147205	09/08/2011	SteveCrowell	527455	6865754	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	35	Dry	Excellent	SubAlpineBrush
147206	09/08/2011	SteveCrowell	527514	6865760	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSW	C	40	Dry	Excellent	ForestBlackSpruce
147207	09/08/2011	SteveCrowell	527553	6865780	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Excellent	ForestBlackSpruce
147208	09/08/2011	SteveCrowell	527612	6865799	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	35	Dry	Excellent	ForestBlackSpruce
147209	09/08/2011	SteveCrowell	527654	6865815	UTMZ9N WGS84	Lithosoil	Grey	Sand	Flat	C	30	Dry	Excellent	SubAlpineBrush
147210	09/08/2011	SteveCrowell	527703	6865829	UTMZ9N WGS84	Lithosoil	Grey	Sand	Flat	C	40	Dry	Excellent	SubAlpineBrush
147211	09/08/2011	SteveCrowell	527752	6865846	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	40	Dry	Excellent	SubAlpineBrush
147212	09/08/2011	SteveCrowell	527785	6865856	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	40	Dry	Good	ForestBlackSpruce
147213	09/08/2011	SteveCrowell	527857	6865885	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	40	Moist	Excellent	ForestBlackSpruce
147214	09/08/2011	SteveCrowell	527895	6865886	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	45	Dry	Excellent	ForestBlackSpruce
147215	09/08/2011	SteveCrowell	527932	6865908	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Dry	Excellent	SubAlpineBrush
147216	09/08/2011	SteveCrowell	527984	6865918	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	40	Dry	Excellent	SubAlpineBrush
147217	09/08/2011	SteveCrowell	528035	6865930	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	60	Dry	Excellent	SubAlpineBrush
147218	09/08/2011	SteveCrowell	528088	6865947	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	60	Dry	Good	AlpineBare
147219	09/08/2011	SteveCrowell	528122	6865962	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	45	Dry	Excellent	AlpineBare
147220	09/08/2011	SteveCrowell	528180	6865979	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
147221	09/08/2011	SteveCrowell	528225	6865995	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepNE	C	40	Dry	Excellent	AlpineBare
147222	09/08/2011	SteveCrowell	528267	6866007	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	50	Dry	Good	AlpineBare
147223	09/08/2011	SteveCrowell	528317	6866021	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	45	Dry	Excellent	AlpineBare
147224	09/08/2011	SteveCrowell	528381	6866053	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	50	Dry	Excellent	AlpineBare
147225	09/08/2011	SteveCrowell	528464	6866061	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
147226	09/08/2011	SteveCrowell	528523	6866081	UTMZ9N WGS84	Lithosoil	Orange	Gravel	SteepSW	C	20	Moist	Good	AlpineBare
147227	09/08/2011	SteveCrowell	528553	6866093	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Moist	Excellent	AlpineBare

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147228	09/08/2011	SteveCrowell	528609	6866127	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Dry	Excellent	AlpineBare
147229	09/08/2011	SteveCrowell	528647	6866131	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	20	Moist	Excellent	AlpineBare
147230	09/08/2011	SteveCrowell	528696	6866148	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepSW	C	50	Dry	Excellent	AlpineBare
147231	09/08/2011	SteveCrowell	528810	6866165	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Excellent	AlpineBare
147232	09/08/2011	SteveCrowell	528936	6866212	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	20	Moist	Poor	SubAlpineBrush
147233	10/08/2011	SteveCrowell	530683	6869876	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	40	Moist	Excellent	AlpineBare
147234	10/08/2011	SteveCrowell	530736	6869891	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	35	Moist	Good	AlpineBare
147235	10/08/2011	SteveCrowell	530779	6869903	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepN	C	35	Moist	Good	AlpineBare
147236	10/08/2011	SteveCrowell	530832	6869914	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Moist	Poor	AlpineBare
147237	10/08/2011	SteveCrowell	530882	6869930	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	45	Moist	Good	SubAlpineBrush
147238	10/08/2011	SteveCrowell	530920	6869947	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	65	Moist	Excellent	SubAlpineBrush
147239	10/08/2011	SteveCrowell	530973	6869959	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	60	Moist	Excellent	SubAlpineBrush
147240	10/08/2011	SteveCrowell	531019	6869975	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	60	Moist	Excellent	SubAlpineBrush
147241	10/08/2011	SteveCrowell	531057	6869985	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Moist	Excellent	SubAlpineBrush
147242	10/08/2011	SteveCrowell	531103	6870003	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	60	Moist	Excellent	SubAlpineBrush
147243	10/08/2011	SteveCrowell	531162	6870015	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	50	Moist	Excellent	SubAlpineBrush
147244	10/08/2011	SteveCrowell	531199	6870034	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	45	Moist	Excellent	SubAlpineBrush
147245	10/08/2011	SteveCrowell	531249	6870047	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	45	Moist	Good	SubAlpineBrush
147246	10/08/2011	SteveCrowell	531303	6870065	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepN	C	35	Moist	Good	SubAlpineBrush
147247	10/08/2011	SteveCrowell	531345	6870084	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	60	Moist	Good	SubAlpineBrush
147248	10/08/2011	SteveCrowell	531399	6870092	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	40	Moist	Excellent	SubAlpineBrush
147249	10/08/2011	SteveCrowell	531054	6870504	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	SteepN	C	60	Dry	Excellent	SubAlpineBrush
147250	10/08/2011	SteveCrowell	531009	6870490	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	35	Moist	Good	SubAlpineBrush
147251	10/08/2011	SteveCrowell	530971	6870486	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	30	Moist	Good	SubAlpineBrush
147252	10/08/2011	SteveCrowell	530921	6870461	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Good	SubAlpineBrush
147253	10/08/2011	SteveCrowell	530870	6870453	UTMZ9N WGS84	Lithosoil		Sand	SteepNW	C	35	Moist	Good	SubAlpineBrush
147254	10/08/2011	SteveCrowell	530824	6870435	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	30	Moist	Good	SubAlpineBrush
147255	10/08/2011	SteveCrowell	530781	6870425	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNW	C	45	Moist	Good	SubAlpineBrush
147256	10/08/2011	SteveCrowell	530728	6870412	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNW	C	40	Moist	Excellent	SubAlpineBrush
147257	10/08/2011	SteveCrowell	530680	6870395	UTMZ9N WGS84	TalusFine	Brown	Sand	SteepNW	C	20	Moist	Good	AlpineBare
147258	11/08/2011	SteveCrowell	527214	6866078	UTMZ9N WGS84	Lithosoil	Grey	Gravel	SteepW	C	20	Moist	Poor	AlpineBare
147259	11/08/2011	SteveCrowell	527250	6866103	UTMZ9N WGS84	Lithosoil	Grey	Gravel	SteepE	C	60	Moist	Good	AlpineBare
147260	11/08/2011	SteveCrowell	527298	6866121	UTMZ9N WGS84	Lithosoil	Orange	Sand	SteepE	C	60	Moist	Good	AlpineBare
147261	11/08/2011	SteveCrowell	527336	6866140	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepE	C	60	Moist	Excellent	AlpineBare
147262	11/08/2011	SteveCrowell	527401	6866152	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	40	Dry	Excellent	SubAlpineBrush
147263	11/08/2011	SteveCrowell	527440	6866172	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	60	Dry	Excellent	ForestBlackSpruce
147264	11/08/2011	SteveCrowell	527491	6866176	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	40	Dry	Excellent	ForestBlackSpruce
147265	11/08/2011	SteveCrowell	527535	6866201	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	40	Dry	Excellent	ForestBlackSpruce
147266	11/08/2011	SteveCrowell	527580	6866211	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	60	Dry	Excellent	ForestBlackSpruce
147267	11/08/2011	SteveCrowell	527629	6866226	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	35	Dry	Excellent	ForestBlackSpruce
147268	11/08/2011	SteveCrowell	527682	6866240	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	40	Dry	Excellent	ForestBlackSpruce
147269	11/08/2011	SteveCrowell	527730	6866255	UTMZ9N WGS84	Lithosoil	Grey	Sand	Flat	C	35	Moist	Excellent	ForestBlackSpruce
147270	11/08/2011	SteveCrowell	527781	6866268	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	40	Dry	Good	ForestBlackSpruce
147271	11/08/2011	SteveCrowell	527820	6866284	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	40	Dry	Excellent	ForestBlackSpruce
147272	11/08/2011	SteveCrowell	527864	6866295	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	40	Dry	Excellent	ForestBlackSpruce
147273	11/08/2011	SteveCrowell	527913	6866317	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	40	Dry	Excellent	SubAlpineBrush
147274	11/08/2011	SteveCrowell	527957	6866333	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	40	Dry	Excellent	SubAlpineBrush
147275	11/08/2011	SteveCrowell	528008	6866345	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	45	Dry	Excellent	SubAlpineBrush
147276	11/08/2011	SteveCrowell	528066	6866365	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	40	Dry	Excellent	SubAlpineBrush
147277	11/08/2011	SteveCrowell	528101	6866377	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	45	Dry	Excellent	SubAlpineBrush
147278	11/08/2011	SteveCrowell	528150	6866384	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	25	Dry	Excellent	SubAlpineBrush
147279	11/08/2011	SteveCrowell	528192	6866408	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	40	Dry	Excellent	SubAlpineBrush
147280	11/08/2011	SteveCrowell	528240	6866415	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	40	Dry	Excellent	SubAlpineBrush
147281	11/08/2011	SteveCrowell	528290	6866434	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	45	Dry	Excellent	SubAlpineBrush
147282	11/08/2011	SteveCrowell	528342	6866441	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	35	Dry	Excellent	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147283	11/08/2011	SteveCrowell	528394	6866464	UTMZ9N WGS84	Lithosoil	Brown	Sand	Ridge	B	25	Dry	Excellent	SubAlpineBrush
147284	13/08/2011	SteveCrowell	527220	6866515	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Ridge	C	35	Moist	Excellent	SubAlpineBrush
147285	13/08/2011	SteveCrowell	527273	6866525	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Dry	Excellent	SubAlpineBrush
147286	13/08/2011	SteveCrowell	527328	6866543	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Dry	Excellent	SubAlpineBrush
147287	13/08/2011	SteveCrowell	527370	6866550	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	30	Moist	Excellent	SubAlpineBrush
147288	13/08/2011	SteveCrowell	527421	6866576	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Moist	Excellent	SubAlpineBrush
147289	13/08/2011	SteveCrowell	527464	6866589	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	55	Moist	Excellent	SubAlpineBrush
147290	13/08/2011	SteveCrowell	527511	6866603	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Dry	Excellent	SubAlpineBrush
147291	13/08/2011	SteveCrowell	527558	6866618	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	60	Moist	Excellent	SubAlpineBrush
147292	13/08/2011	SteveCrowell	527603	6866638	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	30	Moist	Poor	ForestBlackSpruce
147293	13/08/2011	SteveCrowell	527661	6866644	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	60	Moist	Excellent	SubAlpineBrush
147294	13/08/2011	SteveCrowell	527712	6866657	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	60	Moist	Good	SubAlpineBrush
147295	13/08/2011	SteveCrowell	527755	6866680	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	50	Moist	Excellent	SubAlpineBrush
147296	13/08/2011	SteveCrowell	527792	6866692	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	40	Dry	Excellent	SubAlpineBrush
147297	13/08/2011	SteveCrowell	527841	6866712	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Wet	Good	SubAlpineBrush
147298	13/08/2011	SteveCrowell	527885	6866731	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateW	C	40	Moist	Good	SubAlpineBrush
147299	13/08/2011	SteveCrowell	527925	6866736	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	30	Dry	Poor	SubAlpineBrush
147300	13/08/2011	SteveCrowell	527985	6866755	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Moist	Good	SubAlpineBrush
147301	13/08/2011	SteveCrowell	528036	6866770	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	50	Moist	Good	SubAlpineBrush
147302	13/08/2011	SteveCrowell	528082	6866781	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Moist	Good	SubAlpineBrush
147303	13/08/2011	SteveCrowell	528128	6866801	UTMZ9N WGS84	Lithosoil	RustyRed	Sand	ModerateW	C	20	Moist	Good	SubAlpineBrush
147304	13/08/2011	SteveCrowell	528178	6866809	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	40	Moist	Good	SubAlpineBrush
147305	13/08/2011	SteveCrowell	528225	6866828	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	B	45	Moist	Poor	SubAlpineBrush
147306	13/08/2011	SteveCrowell	528274	6866846	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateW	C	40	Dry	Good	SubAlpineBrush
147307	13/08/2011	SteveCrowell	528323	6866857	UTMZ9N WGS84	Lithosoil	RustyOrange	Sand	ModerateW	C	30	Moist	Good	SubAlpineBrush
147308	13/08/2011	SteveCrowell	528383	6866874	UTMZ9N WGS84	Lithosoil	Brown	Sand	Ridge	C	35	Moist	Good	SubAlpineBrush
147309	14/08/2011	SteveCrowell	526434	6867083	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	45	Dry	Excellent	AlpineBare
147310	14/08/2011	SteveCrowell	526475	6867094	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	60	Dry	Excellent	AlpineBare
147311	14/08/2011	SteveCrowell	526521	6867114	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	40	Dry	Excellent	AlpineBare
147312	14/08/2011	SteveCrowell	526573	6867125	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	60	Dry	Excellent	AlpineBare
147313	14/08/2011	SteveCrowell	526624	6867140	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateE	C	40	Moist	Good	SubAlpineBrush
147314	14/08/2011	SteveCrowell	526668	6867155	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	60	Dry	Excellent	SubAlpineBrush
147315	14/08/2011	SteveCrowell	526713	6867170	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	50	Moist	Good	SubAlpineBrush
147316	14/08/2011	SteveCrowell	526767	6867187	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Dry	Excellent	SubAlpineBrush
147317	14/08/2011	SteveCrowell	526809	6867202	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	45	Moist	Excellent	SubAlpineBrush
147318	14/08/2011	SteveCrowell	526856	6867214	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	35	Dry	Excellent	SubAlpineBrush
147319	14/08/2011	SteveCrowell	526892	6867229	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Moist	Good	SubAlpineBrush
147320	14/08/2011	SteveCrowell	526953	6867249	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	50	Moist	Good	SubAlpineBrush
147321	14/08/2011	SteveCrowell	526991	6867260	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Moist	Good	SubAlpineBrush
147322	14/08/2011	SteveCrowell	527044	6867278	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	30	Moist	Poor	SubAlpineBrush
147323	14/08/2011	SteveCrowell	527097	6867283	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	40	Moist	Good	ForestBlackSpruce
147324	14/08/2011	SteveCrowell	527140	6867303	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	30	Moist	Good	ForestBlackSpruce
147325	14/08/2011	SteveCrowell	527193	6867322	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSE	C	40	Moist	Good	ForestBlackSpruce
147326	14/08/2011	SteveCrowell	527246	6867337	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	35	Moist	Good	ForestBlackSpruce
147327	14/08/2011	SteveCrowell	527282	6867342	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	B	30	Moist	Poor	ForestBlackSpruce
147328	14/08/2011	SteveCrowell	527333	6867360	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	55	Moist	Good	SubAlpineBrush
147329	14/08/2011	SteveCrowell	527379	6867369	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	40	Moist	Good	SubAlpineBrush
147330	14/08/2011	SteveCrowell	527420	6867385	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	60	Dry	Good	SubAlpineBrush
147331	14/08/2011	SteveCrowell	527476	6867405	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateSE	C	40	Moist	Excellent	SubAlpineBrush
147332	14/08/2011	SteveCrowell	527515	6867423	UTMZ9N WGS84	Lithosoil	Grey	Sand	Flat	C	40	Dry	Excellent	SubAlpineBrush
147333	14/08/2011	SteveCrowell	527565	6867436	UTMZ9N WGS84	Lithosoil	Tan	Sand	Drainage	C	40	Moist	Excellent	ForestBlackSpruce
147334	14/08/2011	SteveCrowell	527614	6867449	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	55	Moist	Good	ForestBlackSpruce
147335	14/08/2011	SteveCrowell	527665	6867466	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	30	Moist	Good	SubAlpineBrush
147336	14/08/2011	SteveCrowell	527707	6867482	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	50	Moist	Good	ForestBlackSpruce
147337	14/08/2011	SteveCrowell	527758	6867495	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	30	Moist	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
147338	14/08/2011	SteveCrowell	527802	6867516	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	40	Moist	Good	ForestBlackSpruce
147339	14/08/2011	SteveCrowell	527852	6867523	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSE	C	30	Dry	Excellent	ForestBlackSpruce
147341	14/08/2011	SteveCrowell	527902	6867533	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Flat	C	30	Moist	Good	ForestBlackSpruce
148001	01/08/2011	DarcyHudson	530174	6868674	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	SubAlpineAlder
148002	01/08/2011	DarcyHudson	530127	6868658	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	ForestMixed
148003	01/08/2011	DarcyHudson	530072	6868636	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	25	Dry	Good	SubAlpineAlder
148004	01/08/2011	DarcyHudson	530022	6868622	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Dry	Good	SubAlpineAlder
148005	01/08/2011	DarcyHudson	529977	6868605	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Excellent	ForestMixed
148006	01/08/2011	DarcyHudson	529931	6868598	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	30	Dry	Excellent	ForestMixed
148007	02/08/2011	DarcyHudson	531181	6869408	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	45	Dry	Good	AlpineBare
148008	02/08/2011	DarcyHudson	531137	6869385	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	25	Dry	Good	AlpineBare
148009	02/08/2011	DarcyHudson	531085	6869370	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	35	Moist	Good	AlpineBare
148010	02/08/2011	DarcyHudson	531036	6869361	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	RidgeAlpine	C	40	Moist	Good	AlpineBare
148011	02/08/2011	DarcyHudson	530991	6869346	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateE	C	40	Moist	Good	AlpineBare
148012	02/08/2011	DarcyHudson	530944	6869335	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Good	AlpineBare
148013	02/08/2011	DarcyHudson	530898	6869310	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	AlpineBare
148014	02/08/2011	DarcyHudson	530852	6869299	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	AlpineBare
148015	02/08/2011	DarcyHudson	530802	6869288	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	45	Moist	Good	AlpineBare
148016	02/08/2011	DarcyHudson	530756	6869275	UTMZ9N WGS84	Soil	Brown	Sand	SteepSE	C	25	Moist	Good	AlpineBare
148017	02/08/2011	DarcyHudson	530704	6869258	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	60	Moist	Excellent	AlpineBare
148018	02/08/2011	DarcyHudson	530668	6869241	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Moist	Good	AlpineBare
148019	02/08/2011	DarcyHudson	530622	6869223	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	30	Moist	Excellent	SubAlpineAlder
148020	02/08/2011	DarcyHudson	530571	6869214	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Moist	Excellent	SubAlpineAlder
148021	02/08/2011	DarcyHudson	530523	6869200	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepSE	C	30	Moist	Good	AlpineBare
148022	02/08/2011	DarcyHudson	530477	6869186	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Moist	Excellent	AlpineBare
148023	02/08/2011	DarcyHudson	530431	6869164	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	30	Moist	Excellent	AlpineBare
148024	02/08/2011	DarcyHudson	530375	6869154	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	30	Moist	Excellent	AlpineBare
148025	02/08/2011	DarcyHudson	530334	6869139	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Good	AlpineBare
148026	02/08/2011	DarcyHudson	530287	6869128	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	20	Dry	Poor	AlpineBare
148027	02/08/2011	DarcyHudson	530238	6869103	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Excellent	SubAlpineAlder
148028	02/08/2011	DarcyHudson	530195	6869089	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	25	Dry	Good	SubAlpineAlder
148029	02/08/2011	DarcyHudson	530148	6869075	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	SubAlpineAlder
148030	02/08/2011	DarcyHudson	530098	6869063	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	SubAlpineAlder
148031	02/08/2011	DarcyHudson	530050	6869045	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	50	Moist	Excellent	SubAlpineAlder
148032	02/08/2011	DarcyHudson	530009	6869033	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	SubAlpineAlder
148033	02/08/2011	DarcyHudson	529957	6869025	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	SubAlpineAlder
148034	02/08/2011	DarcyHudson	529906	6868995	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	SubAlpineAlder
148035	02/08/2011	DarcyHudson	529862	6868986	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Excellent	SubAlpineAlder
148036	02/08/2011	DarcyHudson	529812	6868972	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	40	Moist	Excellent	SubAlpineAlder
148037	02/08/2011	DarcyHudson	529768	6868964	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepSW	C	45	Moist	Poor	SubAlpineAlder
148038	02/08/2011	DarcyHudson	529723	6868946	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepSW	C	50	Moist	Excellent	SubAlpineAlder
148039	02/08/2011	DarcyHudson	529670	6868927	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Good	SubAlpineAlder
148041	02/08/2011	DarcyHudson	529616	6868910	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	35	Moist	Excellent	ForestMixed
148042	02/08/2011	DarcyHudson	529568	6868896	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepSW	C	65	Moist	Poor	ForestMixed
148043	04/08/2011	DarcyHudson	530412	6869882	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	30	Moist	Good	AlpineBare
148044	04/08/2011	DarcyHudson	530375	6869877	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	20	Dry	Good	AlpineBare
148045	04/08/2011	DarcyHudson	530325	6869865	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Dry	Good	AlpineBare
148046	04/08/2011	DarcyHudson	530278	6869845	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepSW	C	35	Moist	Excellent	AlpineBare
148047	04/08/2011	DarcyHudson	530229	6869830	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
148048	04/08/2011	DarcyHudson	530183	6869818	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Moist	Excellent	AlpineBare
148049	04/08/2011	DarcyHudson	530135	6869803	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	30	Moist	Excellent	AlpineBare
148050	04/08/2011	DarcyHudson	530090	6869789	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateSW	C	40	Dry	Excellent	AlpineBare
148051	04/08/2011	DarcyHudson	530043	6869777	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	45	Dry	Good	SubAlpineAlder
148052	04/08/2011	DarcyHudson	529990	6869759	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	25	Dry	Good	AlpineBare
148053	04/08/2011	DarcyHudson	529947	6869742	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
148054	04/08/2011	DarcyHudson	529897	6869733	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Dry	Good	AlpineBare
148055	04/08/2011	DarcyHudson	529843	6869717	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Dry	Excellent	SubAlpineAlder
148056	04/08/2011	DarcyHudson	529801	6869699	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	50	Dry	Excellent	SubAlpineAlder
148057	04/08/2011	DarcyHudson	529753	6869684	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	15	Dry	Poor	AlpineBare
148058	04/08/2011	DarcyHudson	529707	6869668	UTMZ9N WGS84	Lithosoil	Brown	Sand	Flat	C	30	Dry	Poor	SubAlpineAlder
148059	04/08/2011	DarcyHudson	529670	6869652	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepSW	C	45	Dry	Good	SubAlpineAlder
148060	04/08/2011	DarcyHudson	529617	6869643	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Good	SubAlpineAlder
148061	04/08/2011	DarcyHudson	529577	6869626	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Dry	Excellent	SubAlpineAlder
148062	04/08/2011	DarcyHudson	529525	6869608	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Dry	Good	SubAlpineAlder
148063	04/08/2011	DarcyHudson	529473	6869593	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Dry	Good	SubAlpineAlder
148064	04/08/2011	DarcyHudson	529432	6869578	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Moist	Good	SubAlpineAlder
148065	04/08/2011	DarcyHudson	529382	6869562	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Dry	Excellent	AlpineBare
148066	04/08/2011	DarcyHudson	529340	6869549	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepSW	C	50	Moist	Good	ForestMixed
148067	04/08/2011	DarcyHudson	529290	6869537	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Good	ForestMixed
148068	04/08/2011	DarcyHudson	529240	6869522	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Good	ForestMixed
148069	04/08/2011	DarcyHudson	529144	6869496	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateSW	C	35	Moist	Good	ForestMixed
148070	04/08/2011	DarcyHudson	529095	6869481	UTMZ9N WGS84	Lithosoil	BrownDark	Gravel	SteepSW	C	40	Moist	Good	ForestMixed
148071	04/08/2011	DarcyHudson	529050	6869466	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Excellent	ForestMixed
148072	05/08/2011	DarcyHudson	529963	6870166	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNW	C	25	Dry	Good	AlpineBare
148073	05/08/2011	DarcyHudson	529920	6870154	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	40	Moist	Excellent	AlpineBare
148074	05/08/2011	DarcyHudson	529878	6870137	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	35	Moist	Excellent	SubAlpineAlder
148075	05/08/2011	DarcyHudson	529832	6870127	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Good	SubAlpineAlder
148076	05/08/2011	DarcyHudson	529779	6870112	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Moist	Excellent	SubAlpineAlder
148077	05/08/2011	DarcyHudson	529737	6870092	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	50	Moist	Excellent	AlpineBare
148078	05/08/2011	DarcyHudson	529688	6870082	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepW	C	45	Moist	Good	SubAlpineAlder
148079	05/08/2011	DarcyHudson	529640	6870065	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Dry	Good	SubAlpineAlder
148080	05/08/2011	DarcyHudson	529593	6870050	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepSW	C	20	Dry	Good	AlpineBare
148081	05/08/2011	DarcyHudson	529548	6870034	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Dry	Good	SubAlpineAlder
148082	05/08/2011	DarcyHudson	529499	6870019	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Good	SubAlpineAlder
148083	05/08/2011	DarcyHudson	529457	6870003	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Moist	Good	SubAlpineAlder
148084	05/08/2011	DarcyHudson	529408	6869993	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepW	C	40	Moist	Good	SubAlpineAlder
148085	05/08/2011	DarcyHudson	529362	6869976	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	25	Moist	Good	SubAlpineAlder
148086	05/08/2011	DarcyHudson	529299	6869958	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	Drainage	C	50	Moist	Excellent	SubAlpineAlder
148087	05/08/2011	DarcyHudson	529256	6869954	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	40	Dry	Excellent	SubAlpineAlder
148088	05/08/2011	DarcyHudson	529219	6869932	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	30	Moist	Good	SubAlpineAlder
148089	05/08/2011	DarcyHudson	529165	6869917	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Good	SubAlpineAlder
148091	05/08/2011	DarcyHudson	529117	6869903	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	50	Moist	Good	SubAlpineAlder
148092	05/08/2011	DarcyHudson	529071	6869891	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Dry	Good	SubAlpineAlder
148093	05/08/2011	DarcyHudson	529024	6869874	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	B	40	Dry	Poor	SubAlpineAlder
148094	05/08/2011	DarcyHudson	528980	6869858	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Good	SubAlpineAlder
148095	05/08/2011	DarcyHudson	528925	6869839	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	35	Dry	Good	SubAlpineAlder
148096	05/08/2011	DarcyHudson	528879	6869826	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateSW	C	35	Moist	Good	SubAlpineAlder
148097	06/08/2011	DarcyHudson	531581	6869110	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateNE	C	35	Dry	Good	AlpineBare
148098	06/08/2011	DarcyHudson	531632	6869139	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateNE	C	30	Dry	Good	SubAlpineAlder
148099	06/08/2011	DarcyHudson	531683	6869154	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateNE	C	35	Dry	Good	SubAlpineAlder
148100	06/08/2011	DarcyHudson	531724	6869162	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	Drainage	C	30	Wet	Good	DrainageAlder
148101	06/08/2011	DarcyHudson	531770	6869178	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	40	Dry	Good	SubAlpineAlder
148102	06/08/2011	DarcyHudson	531825	6869194	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	45	Dry	Good	SubAlpineAlder
148103	06/08/2011	DarcyHudson	531869	6869203	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	40	Dry	Good	SubAlpineAlder
148104	06/08/2011	DarcyHudson	531911	6869236	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	20	Dry	Poor	SubAlpineAlder
148105	06/08/2011	DarcyHudson	531965	6869235	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	30	Moist	Excellent	SubAlpineAlder
148106	06/08/2011	DarcyHudson	532017	6869253	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateN	C	45	Dry	Good	SubAlpineAlder
148107	06/08/2011	DarcyHudson	532153	6869305	UTMZ9N WGS84	Lithosoil	Brown	Sand	Drainage	C	40	Moist	Good	DrainageAlder
148108	06/08/2011	DarcyHudson	532199	6869308	UTMZ9N WGS84	Lithosoil	BrownDark	Gravel	Drainage	C	45	Dry	Poor	DrainageAlder
148109	06/08/2011	DarcyHudson	532247	6869328	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateS	C	60	Dry	Excellent	SubAlpineAlder

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
148110	06/08/2011	DarcyHudson	532290	6869343	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	40	Dry	Good	SubAlpineAlder
148111	06/08/2011	DarcyHudson	532346	6869360	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	45	Moist	Excellent	SubAlpineAlder
148112	06/08/2011	DarcyHudson	532224	6869729	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepSW	C	40	Dry	Excellent	AlpineBare
148113	06/08/2011	DarcyHudson	532188	6869720	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Dry	Good	AlpineBare
148114	06/08/2011	DarcyHudson	532137	6869696	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepSW	C	35	Dry	Good	SubAlpineAlder
148115	06/08/2011	DarcyHudson	532086	6869695	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	40	Dry	Good	AlpineBare
148116	06/08/2011	DarcyHudson	532039	6869665	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepS	C	25	Dry	Good	AlpineBare
148117	06/08/2011	DarcyHudson	531992	6869644	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	35	Dry	Good	SubAlpineAlder
148118	06/08/2011	DarcyHudson	531940	6869635	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	30	Dry	Good	SubAlpineAlder
148119	06/08/2011	DarcyHudson	531898	6869626	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSW	C	45	Dry	Good	SubAlpineAlder
148120	06/08/2011	DarcyHudson	531847	6869614	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	SteepSW	C	35	Dry	Good	SubAlpineAlder
148121	06/08/2011	DarcyHudson	531812	6869597	UTMZ9N WGS84	Lithosoil	Brown	Sand	Drainage	C	50	Wet	Excellent	DrainageAlder
148122	08/08/2011	DarcyHudson	530861	6869616	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	SteepN	C	25	Dry	Good	AlpineBare
148123	08/08/2011	DarcyHudson	530919	6869631	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepN	C	35	Dry	Good	AlpineBare
148124	08/08/2011	DarcyHudson	530966	6869646	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	60	Dry	Good	AlpineBare
148125	08/08/2011	DarcyHudson	531006	6869667	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	25	Dry	Good	AlpineBare
148126	08/08/2011	DarcyHudson	531057	6869682	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	40	Dry	Good	AlpineBare
148127	08/08/2011	DarcyHudson	531100	6869696	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepN	C	45	Dry	Good	AlpineBare
148128	08/08/2011	DarcyHudson	531155	6869704	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Dry	Good	SubAlpineAlder
148129	08/08/2011	DarcyHudson	531198	6869725	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	45	Dry	Excellent	SubAlpineAlder
148130	08/08/2011	DarcyHudson	531243	6869737	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Dry	Good	SubAlpineAlder
148131	08/08/2011	DarcyHudson	531289	6869753	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Dry	Excellent	SubAlpineAlder
148132	08/08/2011	DarcyHudson	531334	6869772	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepN	C	35	Dry	Good	SubAlpineAlder
148133	08/08/2011	DarcyHudson	531385	6869786	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Moist	Excellent	SubAlpineAlder
148134	08/08/2011	DarcyHudson	531431	6869804	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	60	Moist	Excellent	SubAlpineAlder
148135	08/08/2011	DarcyHudson	531477	6869823	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	30	Moist	Excellent	SubAlpineAlder
148136	08/08/2011	DarcyHudson	531527	6869834	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Moist	Good	SubAlpineAlder
148137	08/08/2011	DarcyHudson	531574	6869841	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	Drainage	C	40	Moist	Good	DrainageAlder
148138	08/08/2011	DarcyHudson	531628	6869855	UTMZ9N WGS84	Lithosoil	Black	Gravel	SteepS	C	40	Moist	Good	SubAlpineAlder
148139	08/08/2011	DarcyHudson	531677	6869876	UTMZ9N WGS84	Lithosoil	Black	Gravel	SteepS	C	45	Moist	Good	SubAlpineAlder
148141	08/08/2011	DarcyHudson	531716	6869898	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	40	Moist	Good	SubAlpineAlder
148142	08/08/2011	DarcyHudson	531703	6870296	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepSW	C	30	Dry	Good	AlpineBare
148143	08/08/2011	DarcyHudson	531656	6870279	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepS	C	70	Dry	Excellent	SubAlpineAlder
148144	08/08/2011	DarcyHudson	531615	6870269	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	25	Dry	Good	SubAlpineAlder
148145	08/08/2011	DarcyHudson	531561	6870255	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepS	C	30	Dry	Good	SubAlpineAlder
148146	08/08/2011	DarcyHudson	531510	6870240	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	35	Dry	Good	SubAlpineAlder
148147	08/08/2011	DarcyHudson	531451	6870220	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateS	C	35	Moist	Poor	SubAlpineAlder
148148	08/08/2011	DarcyHudson	531423	6870213	UTMZ9N WGS84	Lithosoil	Brown	Silt	Drainage	C	30	Moist	Good	DrainageAlder
148149	08/08/2011	DarcyHudson	531365	6870189	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateN	C	40	Moist	Excellent	DrainageAlder
148150	09/08/2011	DarcyHudson	527169	6865870	UTMZ9N WGS84	Lithosoil	Grey	Sand	RidgeAlpine	C	30	Moist	Excellent	SubAlpineAlder
148151	09/08/2011	DarcyHudson	527210	6865891	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	45	Dry	Excellent	SubAlpineAlder
148152	09/08/2011	DarcyHudson	527259	6865903	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	25	Moist	Good	AlpineBare
148153	09/08/2011	DarcyHudson	527307	6865921	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Moist	Good	AlpineBare
148154	09/08/2011	DarcyHudson	527353	6865939	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	45	Dry	Excellent	AlpineBare
148155	09/08/2011	DarcyHudson	527402	6865947	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Moist	Excellent	AlpineBare
148156	09/08/2011	DarcyHudson	527449	6865965	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	50	Moist	Good	SubAlpineAlder
148157	09/08/2011	DarcyHudson	527497	6865975	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	40	Moist	Excellent	ForestMixed
148158	09/08/2011	DarcyHudson	527547	6865992	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateNE	C	50	Moist	Excellent	ForestMixed
148159	09/08/2011	DarcyHudson	527589	6866010	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	40	Moist	Good	ForestMixed
148160	09/08/2011	DarcyHudson	527637	6866023	UTMZ9N WGS84	Lithosoil	Grey	Silt	ModerateNE	C	50	Moist	Excellent	ForestMixed
148161	09/08/2011	DarcyHudson	527684	6866038	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateNE	C	40	Dry	Excellent	ForestMixed
148162	09/08/2011	DarcyHudson	527735	6866056	UTMZ9N WGS84	Lithosoil	Black	Silt	Drainage	C	35	Moist	Excellent	ForestMixed
148163	09/08/2011	DarcyHudson	527780	6866060	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateSW	C	35	Moist	Good	ForestMixed
148164	09/08/2011	DarcyHudson	527832	6866082	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	30	Moist	Good	ForestMixed
148165	09/08/2011	DarcyHudson	527875	6866099	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
148166	09/08/2011	DarcyHudson	527926	6866116	UTMZ9N WGS84	Lithosoil	Grey	Gravel	ModerateSW	C	35	Dry	Excellent	ForestMixed
148167	09/08/2011	DarcyHudson	527972	6866130	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	40	Moist	Excellent	ForestMixed
148168	09/08/2011	DarcyHudson	528017	6866142	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Moist	Good	SubAlpineAlder
148169	09/08/2011	DarcyHudson	528063	6866156	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	35	Moist	Good	SubAlpineAlder
148170	09/08/2011	DarcyHudson	528113	6866171	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	40	Moist	Excellent	SubAlpineAlder
148171	09/08/2011	DarcyHudson	528155	6866181	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	45	Moist	Excellent	SubAlpineAlder
148172	09/08/2011	DarcyHudson	528213	6866199	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSW	C	50	Moist	Good	AlpineBare
148173	09/08/2011	DarcyHudson	528261	6866214	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSW	C	45	Moist	Good	AlpineBare
148174	09/08/2011	DarcyHudson	528307	6866232	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Moist	Good	AlpineBare
148175	09/08/2011	DarcyHudson	528354	6866244	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	45	Dry	Good	AlpineBare
148176	09/08/2011	DarcyHudson	528402	6866263	UTMZ9N WGS84	Lithosoil	Brown	Silt	RidgeAlpine	C	50	Moist	Good	AlpineBare
148177	09/08/2011	DarcyHudson	528448	6866276	UTMZ9N WGS84	Lithosoil	Grey	Gravel	SteepNE	C	25	Moist	Poor	AlpineBare
148178	09/08/2011	DarcyHudson	528500	6866293	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepNE	C	45	Moist	Good	AlpineBare
148179	09/08/2011	DarcyHudson	528543	6866300	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Moist	Good	AlpineBare
148180	09/08/2011	DarcyHudson	528592	6866324	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Moist	Excellent	SubAlpineAlder
148181	09/08/2011	DarcyHudson	528643	6866332	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	35	Moist	Good	SubAlpineAlder
148182	09/08/2011	DarcyHudson	528689	6866352	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	25	Moist	Excellent	SubAlpineAlder
148183	09/08/2011	DarcyHudson	528734	6866367	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Wet	Good	SubAlpineAlder
148184	09/08/2011	DarcyHudson	528781	6866374	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepNE	C	60	Dry	Good	SubAlpineAlder
148185	09/08/2011	DarcyHudson	528828	6866395	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepNE	C	60	Dry	Good	ForestMixed
148186	09/08/2011	DarcyHudson	528919	6866428	UTMZ9N WGS84	Lithosoil	Brown	Sand	Drainage	C	60	Moist	Good	DrainageAlder
148187	09/08/2011	DarcyHudson	528975	6866440	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	45	Moist	Good	ForestMixed
148188	09/08/2011	DarcyHudson	529023	6866452	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	50	Dry	Good	ForestMixed
148189	09/08/2011	DarcyHudson	529068	6866468	UTMZ9N WGS84	Lithosoil	Brown	Silt	SteepNE	C	60	Moist	Good	ForestMixed
148191	09/08/2011	DarcyHudson	529111	6866487	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Dry	Poor	ForestMixed
148192	09/08/2011	DarcyHudson	529162	6866497	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	35	Moist	Good	ForestMixed
148193	09/08/2011	DarcyHudson	529206	6866517	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	40	Moist	Good	ForestMixed
148194	10/08/2011	DarcyHudson	530662	6869969	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	RidgeAlpine	C	25	Moist	Good	AlpineBare
148195	10/08/2011	DarcyHudson	530698	6869984	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Moist	Good	AlpineBare
148196	10/08/2011	DarcyHudson	530744	6870001	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Moist	Good	AlpineBare
148197	10/08/2011	DarcyHudson	530790	6870017	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	35	Moist	Good	AlpineBare
148198	10/08/2011	DarcyHudson	530839	6870032	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Moist	Good	AlpineBare
148199	10/08/2011	DarcyHudson	530890	6870040	UTMZ9N WGS84	Lithosoil	BrownLight	Gravel	ModerateNE	C	40	Moist	Good	AlpineBare
148200	10/08/2011	DarcyHudson	530937	6870061	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Moist	Good	AlpineBare
148201	10/08/2011	DarcyHudson	530982	6870071	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	25	Moist	Good	AlpineBare
148202	10/08/2011	DarcyHudson	531031	6870086	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Moist	Good	AlpineBare
148203	10/08/2011	DarcyHudson	531078	6870107	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Moist	Good	SubAlpineAlder
148204	10/08/2011	DarcyHudson	531130	6870123	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	35	Moist	Good	SubAlpineAlder
148205	10/08/2011	DarcyHudson	531174	6870127	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepNE	C	40	Moist	Good	SubAlpineAlder
148206	10/08/2011	DarcyHudson	531219	6870148	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	30	Moist	Good	SubAlpineAlder
148207	10/08/2011	DarcyHudson	531272	6870165	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	40	Moist	Poor	SubAlpineAlder
148208	10/08/2011	DarcyHudson	531320	6870174	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateNE	C	30	Moist	Good	SubAlpineAlder
148209	10/08/2011	DarcyHudson	531078	6870626	UTMZ9N WGS84	Lithosoil	Brown	Silt	Flat	C	20	Moist	Good	SubAlpineAlder
148210	10/08/2011	DarcyHudson	531029	6870612	UTMZ9N WGS84	Lithosoil	Brown	Silt	ModerateW	C	65	Moist	Good	SubAlpineAlder
148211	10/08/2011	DarcyHudson	530981	6870586	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateW	C	40	Moist	Good	SubAlpineAlder
148212	10/08/2011	DarcyHudson	530886	6870559	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	25	Moist	Good	SubAlpineAlder
148213	10/08/2011	DarcyHudson	530840	6870542	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	B	25	Moist	Poor	SubAlpineAlder
148214	10/08/2011	DarcyHudson	530795	6870536	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Good	SubAlpineAlder
148215	10/08/2011	DarcyHudson	530738	6870512	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	25	Moist	Good	SubAlpineAlder
148216	10/08/2011	DarcyHudson	530700	6870501	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Good	SubAlpineAlder
148217	10/08/2011	DarcyHudson	530649	6870484	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	30	Moist	Good	SubAlpineAlder
148218	10/08/2011	DarcyHudson	530601	6870472	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	40	Moist	Good	SubAlpineAlder
148219	10/08/2011	DarcyHudson	530561	6870464	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	30	Moist	Good	SubAlpineAlder
148220	10/08/2011	DarcyHudson	530508	6870440	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	55	Moist	Good	SubAlpineAlder
148221	10/08/2011	DarcyHudson	530459	6870432	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	35	Moist	Good	SubAlpineAlder

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
148222	10/08/2011	DarcyHudson	530413	6870420	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	45	Moist	Good	SubAlpineAlder
148223	10/08/2011	DarcyHudson	530365	6870407	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	30	Moist	Good	SubAlpineAlder
148224	10/08/2011	DarcyHudson	530311	6870380	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepNW	C	35	Moist	Good	SubAlpineAlder
148225	10/08/2011	DarcyHudson	530229	6870355	UTMZ9N WGS84	Lithosoil	Brown	Gravel	SteepNW	C	40	Moist	Good	SubAlpineAlder
148226	11/08/2011	DarcyHudson	527217	6866198	UTMZ9N WGS84	Lithosoil	Blue	Gravel	SteepNW	C	60	Moist	Good	AlpineBare
148227	11/08/2011	DarcyHudson	527268	6866219	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateNE	C	65	Dry	Good	AlpineBare
148228	11/08/2011	DarcyHudson	527316	6866236	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateNE	C	60	Moist	Excellent	SubAlpineAlder
148229	11/08/2011	DarcyHudson	527363	6866251	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	50	Dry	Good	SubAlpineAlder
148230	11/08/2011	DarcyHudson	527410	6866257	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Dry	Good	SubAlpineAlder
148231	11/08/2011	DarcyHudson	527452	6866280	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	45	Moist	Good	ForestMixed
148232	11/08/2011	DarcyHudson	527506	6866292	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	45	Moist	Excellent	ForestMixed
148233	11/08/2011	DarcyHudson	527544	6866304	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	35	Moist	Good	ForestMixed
148234	11/08/2011	DarcyHudson	527601	6866319	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	50	Moist	Good	ForestMixed
148235	11/08/2011	DarcyHudson	527642	6866334	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	50	Moist	Excellent	ForestMixed
148236	11/08/2011	DarcyHudson	527694	6866348	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	45	Moist	Good	ForestMixed
148237	11/08/2011	DarcyHudson	527742	6866373	UTMZ9N WGS84	Lithosoil	Brown	Silt	Drainage	C	35	Moist	Good	ForestMixed
148238	11/08/2011	DarcyHudson	527790	6866380	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNW	C	30	Moist	Good	ForestMixed
148239	11/08/2011	DarcyHudson	527831	6866395	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	50	Moist	Good	ForestMixed
148241	11/08/2011	DarcyHudson	527884	6866412	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	SteepNW	C	40	Moist	Good	ForestMixed
148242	11/08/2011	DarcyHudson	527931	6866429	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	40	Dry	Good	SubAlpineAlder
148243	11/08/2011	DarcyHudson	527979	6866440	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepW	C	60	Dry	Good	SubAlpineAlder
148244	11/08/2011	DarcyHudson	528024	6866459	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	40	Moist	Good	SubAlpineAlder
148245	11/08/2011	DarcyHudson	528073	6866476	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateW	C	35	Moist	Good	SubAlpineAlder
148246	11/08/2011	DarcyHudson	528123	6866489	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	40	Moist	Good	SubAlpineAlder
148247	11/08/2011	DarcyHudson	528174	6866501	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	25	Dry	Good	SubAlpineAlder
148248	11/08/2011	DarcyHudson	528221	6866518	UTMZ9N WGS84	Lithosoil	Brown	Gravel	ModerateW	C	30	Dry	Good	SubAlpineAlder
148249	11/08/2011	DarcyHudson	528261	6866530	UTMZ9N WGS84	Lithosoil	BrownLight	Silt	ModerateW	C	25	Dry	Poor	SubAlpineAlder
148250	11/08/2011	DarcyHudson	528315	6866551	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	40	Moist	Good	SubAlpineAlder
148251	11/08/2011	DarcyHudson	528362	6866562	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	35	Moist	Good	SubAlpineAlder
148252	11/08/2011	DarcyHudson	528412	6866582	UTMZ9N WGS84	Lithosoil	BrownDark	Gravel	Flat	C	30	Moist	Good	SubAlpineAlder
148253	13/08/2011	DarcyHudson	527240	6866635	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	40	Dry	Good	SubAlpineAlder
148254	13/08/2011	DarcyHudson	527294	6866644	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	30	Dry	Good	SubAlpineAlder
148255	13/08/2011	DarcyHudson	527335	6866664	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	35	Moist	Good	SubAlpineAlder
148256	13/08/2011	DarcyHudson	527389	6866673	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	40	Dry	Good	SubAlpineAlder
148257	13/08/2011	DarcyHudson	527434	6866685	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	35	Dry	Good	SubAlpineAlder
148258	13/08/2011	DarcyHudson	527486	6866709	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	45	Moist	Good	SubAlpineAlder
148259	13/08/2011	DarcyHudson	527581	6866732	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Dry	Good	ForestMixed
148260	13/08/2011	DarcyHudson	527578	6866733	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	45	Dry	Good	ForestMixed
148261	13/08/2011	DarcyHudson	527621	6866745	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	45	Dry	Good	SubAlpineAlder
148262	13/08/2011	DarcyHudson	527667	6866764	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepE	C	40	Dry	Good	SubAlpineAlder
148263	13/08/2011	DarcyHudson	527721	6866779	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepE	C	45	Moist	Good	SubAlpineAlder
148264	13/08/2011	DarcyHudson	527767	6866793	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepN	C	40	Dry	Good	SubAlpineAlder
148265	13/08/2011	DarcyHudson	527816	6866798	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	35	Moist	Good	ForestBlackSpruce
148266	13/08/2011	DarcyHudson	527858	6866811	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	C	40	Moist	Good	ForestMixed
148267	13/08/2011	DarcyHudson	527902	6866846	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	35	Moist	Good	SubAlpineAlder
148268	13/08/2011	DarcyHudson	527949	6866844	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	30	Moist	Good	SubAlpineAlder
148269	13/08/2011	DarcyHudson	528005	6866875	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	20	Moist	Good	SubAlpineAlder
148270	13/08/2011	DarcyHudson	528052	6866892	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	25	Moist	Good	SubAlpineAlder
148271	13/08/2011	DarcyHudson	528096	6866894	UTMZ9N WGS84	Lithosoil	Grey	Silt	SteepNW	C	35	Moist	Poor	SubAlpineAlder
148272	13/08/2011	DarcyHudson	528143	6866908	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	50	Moist	Good	SubAlpineAlder
148273	13/08/2011	DarcyHudson	528195	6866931	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	45	Moist	Good	SubAlpineAlder
148274	13/08/2011	DarcyHudson	528341	6866975	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	35	Moist	Good	SubAlpineAlder
148275	13/08/2011	DarcyHudson	528388	6866983	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	40	Moist	Good	SubAlpineAlder
148276	14/08/2011	DarcyHudson	526453	6867193	UTMZ9N WGS84	Lithosoil	Blue	Gravel	SteepNW	C	45	Dry	Good	AlpineBare
148277	14/08/2011	DarcyHudson	526497	6867209	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateNW	C	40	Dry	Good	AlpineBare

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
148278	14/08/2011	DarcyHudson	526543	6867225	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	40	Dry	Good	AlpineBare
148279	14/08/2011	DarcyHudson	526594	6867241	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateE	C	55	Dry	Excellent	AlpineBare
148280	14/08/2011	DarcyHudson	526639	6867257	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateE	C	45	Dry	Good	SubAlpineAlder
148281	14/08/2011	DarcyHudson	526684	6867275	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateE	C	35	Dry	Good	SubAlpineAlder
148282	14/08/2011	DarcyHudson	526731	6867283	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepE	C	50	Dry	Excellent	SubAlpineAlder
148283	14/08/2011	DarcyHudson	526779	6867298	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	C	60	Dry	Good	DrainageAlder
148284	14/08/2011	DarcyHudson	526830	6867320	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	50	Dry	Good	SubAlpineAlder
148285	14/08/2011	DarcyHudson	526878	6867332	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	45	Dry	Excellent	SubAlpineAlder
148286	14/08/2011	DarcyHudson	526921	6867345	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	40	Dry	Excellent	SubAlpineAlder
148287	14/08/2011	DarcyHudson	526969	6867364	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	40	Dry	Good	SubAlpineAlder
148288	14/08/2011	DarcyHudson	527018	6867377	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	45	Dry	Excellent	SubAlpineAlder
148289	14/08/2011	DarcyHudson	527067	6867394	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	45	Dry	Excellent	SubAlpineAlder
148291	14/08/2011	DarcyHudson	527118	6867408	UTMZ9N WGS84	Lithosoil	Blue	Sand	SteepSE	C	60	Dry	Excellent	SubAlpineAlder
148292	14/08/2011	DarcyHudson	527161	6867418	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	SubAlpineAlder
148293	14/08/2011	DarcyHudson	527212	6867435	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
148294	14/08/2011	DarcyHudson	527255	6867454	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	SubAlpineAlder
148295	14/08/2011	DarcyHudson	527301	6867462	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
148296	14/08/2011	DarcyHudson	527343	6867480	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	45	Dry	Good	SubAlpineAlder
148297	14/08/2011	DarcyHudson	527389	6867495	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
148298	14/08/2011	DarcyHudson	527443	6867506	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
148299	14/08/2011	DarcyHudson	527479	6867524	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	35	Moist	Good	SubAlpineAlder
148300	14/08/2011	DarcyHudson	527537	6867534	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Moist	Good	SubAlpineAlder
148301	14/08/2011	DarcyHudson	527586	6867553	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	45	Moist	Good	SubAlpineAlder
148302	14/08/2011	DarcyHudson	527625	6867578	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	25	Dry	Good	SubAlpineAlder
148303	14/08/2011	DarcyHudson	527678	6867582	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	40	Moist	Good	SubAlpineAlder
148304	14/08/2011	DarcyHudson	527734	6867607	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	40	Dry	Good	SubAlpineAlder
148305	14/08/2011	DarcyHudson	527780	6867616	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	30	Dry	Good	SubAlpineAlder
148306	14/08/2011	DarcyHudson	527823	6867633	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	SubAlpineAlder
148307	14/08/2011	DarcyHudson	527873	6867644	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	35	Dry	Good	SubAlpineAlder
148308	14/08/2011	DarcyHudson	527918	6867655	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSE	C	30	Dry	Poor	ForestMixed
148309	14/08/2011	DarcyHudson	527963	6867671	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepSE	C	30	Dry	Good	ForestMixed
148310	14/08/2011	DarcyHudson	528008	6867680	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSE	C	35	Dry	Good	ForestMixed
148311	14/08/2011	DarcyHudson	528057	6867693	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSE	C	35	Moist	Good	ForestMixed
148312	14/08/2011	DarcyHudson	528113	6867720	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	SteepNE	C	40	Dry	Good	ForestMixed
148313	14/08/2011	DarcyHudson	528160	6867733	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateNE	C	40	Moist	Good	ForestMixed
148314	14/08/2011	DarcyHudson	528210	6867745	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	35	Moist	Good	ForestMixed
149001	04/08/2011	DrewMacPhail	529347	6869338	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Good	AlpineBare
149002	04/08/2011	DrewMacPhail	529306	6869332	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	AlpineBare
149003	04/08/2011	DrewMacPhail	529250	6869324	UTMZ9N WGS84	Colluvium	Brown	Sand		C	60	Moist	Excellent	AlpineBare
149004	05/08/2011	DrewMacPhail	530136	6870005	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Poor	AlpineBare
149005	05/08/2011	DrewMacPhail	530071	6869986	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Good	AlpineBare
149006	05/08/2011	DrewMacPhail	530031	6869973	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	35	Moist	Excellent	AlpineBare
149007	05/08/2011	DrewMacPhail	529983	6869961	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	50	Moist	Excellent	AlpineBare
149008	05/08/2011	DrewMacPhail	529940	6869949	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Excellent	AlpineBare
149009	05/08/2011	DrewMacPhail	529879	6869926	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	AlpineBare
149010	05/08/2011	DrewMacPhail	529834	6869908	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	60	Dry	Good	AlpineBare
149011	05/08/2011	DrewMacPhail	529791	6869903	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	20	Dry	Good	AlpineBare
149012	05/08/2011	DrewMacPhail	529682	6869870	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	B	45	Dry	Excellent	AlpineBare
149013	05/08/2011	DrewMacPhail	529654	6869864	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	45	Moist	Excellent	AlpineBare
149014	05/08/2011	DrewMacPhail	529609	6869849	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	35	Moist	Good	AlpineBare
149015	05/08/2011	DrewMacPhail	529550	6869834	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Moist	Good	AlpineBare
149016	05/08/2011	DrewMacPhail	529516	6869826	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Moist	Excellent	AlpineBare
149017	05/08/2011	DrewMacPhail	529466	6869812	UTMZ9N WGS84		Brown	Sand	ModerateSW	B	30	Moist	Good	AlpineBare
149018	05/08/2011	DrewMacPhail	529415	6869792	UTMZ9N WGS84	Frostboil	Brown	Sand	ModerateSW	C	60	Moist	Excellent	AlpineBare
149019	05/08/2011	DrewMacPhail	529368	6869773	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Dry	Excellent	AlpineBare

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
149020	05/08/2011	DrewMacPhail	529302	6869758	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Moist	Good	AlpineBare
149021	05/08/2011	DrewMacPhail	529277	6869749	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	C	45	Dry	Good	AlpineBare
149022	05/08/2011	DrewMacPhail	529233	6869736	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	B	30	Dry	Excellent	AlpineBare
149023	05/08/2011	DrewMacPhail	529165	6869695	UTMZ9N WGS84	Colluvium	BrownLight	Sand	ModerateSW	B	55	Moist	Excellent	AlpineBare
149024	05/08/2011	DrewMacPhail	529107	6869681	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	50	Moist	Good	AlpineBare
149025	06/08/2011	DrewMacPhail	531740	6868959	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	50	Moist	Excellent	AlpineBare
149026	06/08/2011	DrewMacPhail	531783	6868971	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNW	C	10	Moist	Good	AlpineBare
149027	06/08/2011	DrewMacPhail	531827	6868983	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNW	C	65	Dry	Excellent	AlpineBare
149028	06/08/2011	DrewMacPhail	531876	6868994	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	10	Dry	Good	AlpineBare
149029	06/08/2011	DrewMacPhail	531924	6869007	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNW	C	40	Moist	Excellent	AlpineBare
149030	06/08/2011	DrewMacPhail	531974	6869022	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	30	Dry	Good	AlpineBare
149031	06/08/2011	DrewMacPhail	532028	6869036	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	10	Dry	Excellent	AlpineBare
149032	06/08/2011	DrewMacPhail	532074	6869054	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	10	Moist	Excellent	AlpineBare
149033	06/08/2011	DrewMacPhail	532072	6869069	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	10	Moist	Good	AlpineBare
149034	06/08/2011	DrewMacPhail	532117	6869075	UTMZ9N WGS84	Colluvium	Brown	Gravel	SteepN	C	20	Dry		AlpineBare
149035	06/08/2011	DrewMacPhail	532274	6869536	UTMZ9N WGS84	Colluvium	BrownLight	Sand	SteepSW	C	60	Dry	Good	AlpineBare
149036	06/08/2011	DrewMacPhail	532257	6869531	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepS	C	60	Moist	Excellent	SubAlpineBrush
149037	06/08/2011	DrewMacPhail	532211	6869514	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	75	Dry	Good	AlpineBare
149038	06/08/2011	DrewMacPhail	532159	6869501	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Dry	Excellent	AlpineBare
149039	06/08/2011	DrewMacPhail	532096	6869478	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Dry	Excellent	SubAlpineBrush
149040	06/08/2011	DrewMacPhail	532035	6869465	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Dry	Excellent	SubAlpineBrush
149041	06/08/2011	DrewMacPhail	531957	6869426	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateSW	B	60	Moist	Excellent	AlpineBare
149042	08/08/2011	DrewMacPhail	530926	6869434	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149043	08/08/2011	DrewMacPhail	531063	6869469	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	60	Moist	Excellent	AlpineBare
149044	08/08/2011	DrewMacPhail	531132	6869479	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	10	Moist	Excellent	AlpineBare
149045	08/08/2011	DrewMacPhail	531159	6869493	UTMZ9N WGS84	Lithosoil	Brown	Sand	CliffBase	C	10	Moist	Excellent	AlpineBare
149046	08/08/2011	DrewMacPhail	531202	6869515	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	10	Moist	Excellent	AlpineBare
149047	08/08/2011	DrewMacPhail	531248	6869532	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149048	08/08/2011	DrewMacPhail	531296	6869529	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	10	Moist	Excellent	AlpineBare
149049	08/08/2011	DrewMacPhail	531348	6869552	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
149050	08/08/2011	DrewMacPhail	531381	6869565	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	10	Moist	Excellent	AlpineBare
149051	08/08/2011	DrewMacPhail	531437	6869588	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	60	Moist	Excellent	AlpineBare
149052	08/08/2011	DrewMacPhail	531479	6869589	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNE	C	10	Dry	Excellent	AlpineBare
149053	08/08/2011	DrewMacPhail	531538	6869621	UTMZ9N WGS84	Lithosoil	Grey	Sand	SteepNE	C	75	Dry	Excellent	AlpineBare
149054	08/08/2011	DrewMacPhail	531579	6869633	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
149055	08/08/2011	DrewMacPhail	531619	6869639	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	65	Dry	Excellent	AlpineBare
149056	08/08/2011	DrewMacPhail	531676	6869665	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	35	Dry	Excellent	SubAlpineBrush
149057	08/08/2011	DrewMacPhail	531771	6869685	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	60	Dry	Excellent	AlpineBare
149058	08/08/2011	DrewMacPhail	531813	6869712	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	35	Dry	Good	SubAlpineBrush
149059	08/08/2011	DrewMacPhail	531853	6869729	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	65	Dry	Excellent	SubAlpineBrush
149060	08/08/2011	DrewMacPhail	531906	6869746	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Dry	Excellent	AlpineBare
149061	08/08/2011	DrewMacPhail	531947	6869771	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	60	Moist	Excellent	AlpineBare
149062	08/08/2011	DrewMacPhail	531799	6870124	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Dry	Excellent	AlpineBare
149063	08/08/2011	DrewMacPhail	531754	6870115	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Dry	Good	AlpineBare
149064	08/08/2011	DrewMacPhail	531723	6870093	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepSW	C	10	Dry	Excellent	AlpineBare
149065	10/08/2011	DrewMacPhail	530719	6869780	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNE	B	35	Dry	Good	AlpineBare
149066	10/08/2011	DrewMacPhail	530767	6869792	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	55	Dry	Excellent	AlpineBare
149067	10/08/2011	DrewMacPhail	530806	6869803	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	10	Dry	Excellent	AlpineBare
149068	10/08/2011	DrewMacPhail	530857	6869817	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
149069	10/08/2011	DrewMacPhail	530907	6869841	UTMZ9N WGS84	Colluvium	Brown	Sand	RidgeAlpine	C	10	Dry	Excellent	AlpineBare
149070	10/08/2011	DrewMacPhail	530967	6869865	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149071	10/08/2011	DrewMacPhail	530993	6869866	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149072	10/08/2011	DrewMacPhail	531032	6869883	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	10	Dry	Good	AlpineBare
149073	10/08/2011	DrewMacPhail	531089	6869903	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149074	10/08/2011	DrewMacPhail	531145	6869908	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	60	Moist	Excellent	AlpineBare

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
149075	10/08/2011	DrewMacPhail	531179	6869930	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149076	10/08/2011	DrewMacPhail	531240	6869935	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	65	Dry	Excellent	AlpineBare
149077	10/08/2011	DrewMacPhail	531290	6869956	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
149078	10/08/2011	DrewMacPhail	531332	6869975	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
149079	10/08/2011	DrewMacPhail	531370	6869992	UTMZ9N WGS84	Colluvium	Grey	Sand	SteepNE	A	40	Dry	Good	AlpineBare
149080	10/08/2011	DrewMacPhail	531419	6869997	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	35	Dry	Excellent	AlpineBare
149081	10/08/2011	DrewMacPhail	531452	6870011	UTMZ9N WGS84	Colluvium	Grey	Sand	ModerateNE	C	60	Dry	Good	AlpineBare
149082	10/08/2011	DrewMacPhail	531195	6870449	UTMZ9N WGS84	Colluvium	Grey	Sand	ModerateNE	C	60	Dry	Excellent	AlpineBare
149083	10/08/2011	DrewMacPhail	531136	6870426	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	30	Dry	Excellent	AlpineBare
149084	10/08/2011	DrewMacPhail	531084	6870417	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Dry	Excellent	AlpineBare
149085	10/08/2011	DrewMacPhail	531045	6870406	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	AlpineBare
149086	10/08/2011	DrewMacPhail	530999	6870393	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateN	C	10	Moist	Excellent	AlpineBare
149087	10/08/2011	DrewMacPhail	530947	6870379	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	35	Dry	Excellent	AlpineBare
149088	10/08/2011	DrewMacPhail	530885	6870366	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	45	Dry	Excellent	AlpineBare
149089	10/08/2011	DrewMacPhail	530847	6870348	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	10	Dry	Excellent	AlpineBare
149090	10/08/2011	DrewMacPhail	530804	6870340	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepN	C	10	Dry	Excellent	AlpineBare
149091	10/08/2011	DrewMacPhail	530754	6870317	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	50	Dry	Excellent	AlpineBare
149092	10/08/2011	DrewMacPhail	530726	6870313	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepN	C	10	Dry	Excellent	AlpineBare
149093	11/08/2011	DrewMacPhail	527183	6865971	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNW	C	10	Moist	Excellent	AlpineBare
149094	11/08/2011	DrewMacPhail	527235	6865985	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	10	Dry	Excellent	AlpineBare
149095	11/08/2011	DrewMacPhail	527274	6866007	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	10	Dry	Excellent	AlpineBare
149096	11/08/2011	DrewMacPhail	527323	6866016	UTMZ9N WGS84	Colluvium	Brown	Sand	SteepNE	C	50	Dry	Excellent	AlpineBare
149097	11/08/2011	DrewMacPhail	527373	6866038	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	60	Dry	Excellent	AlpineBare
149098	11/08/2011	DrewMacPhail	527422	6866052	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepNE	C	65	Dry	Excellent	AlpineBare
149099	11/08/2011	DrewMacPhail	527469	6866070	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	65	Dry	Excellent	ForestBlackSpruce
149100	11/08/2011	DrewMacPhail	527509	6866089	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNW	C	60	Dry	Excellent	ForestBlackSpruce
149101	11/08/2011	DrewMacPhail	527572	6866092	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	60	Dry	Excellent	ForestBlackSpruce
149102	11/08/2011	DrewMacPhail	527620	6866109	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNE	C	65	Dry	Excellent	AlpineBare
149103	11/08/2011	DrewMacPhail	527669	6866139	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	30	Dry	Excellent	ForestBlackSpruce
149104	11/08/2011	DrewMacPhail	527712	6866128	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	30	Dry	Excellent	ForestBlackSpruce
149105	11/08/2011	DrewMacPhail	527754	6866161	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	40	Dry	Excellent	ForestBlackSpruce
149106	11/08/2011	DrewMacPhail	527800	6866186	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	60	Dry	Excellent	ForestBlackSpruce
149107	11/08/2011	DrewMacPhail	527845	6866191	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Excellent	ForestBlackSpruce
149108	11/08/2011	DrewMacPhail	527879	6866199	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateW	C	35	Dry	Excellent	ForestBlackSpruce
149109	11/08/2011	DrewMacPhail	527950	6866222	UTMZ9N WGS84	Lithosoil	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	ForestBlackSpruce
149110	11/08/2011	DrewMacPhail	527986	6866238	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	60	Dry	Excellent	ForestBlackSpruce
149111	11/08/2011	DrewMacPhail	528044	6866245	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateW	C	60	Dry	Excellent	ForestBlackSpruce
149112	11/08/2011	DrewMacPhail	528090	6866262	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	35	Dry	Excellent	ForestBlackSpruce
149113	11/08/2011	DrewMacPhail	528138	6866266	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	60	Dry	Excellent	AlpineBare
149114	11/08/2011	DrewMacPhail	528180	6866296	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	65	Dry	Excellent	AlpineBare
149115	11/08/2011	DrewMacPhail	528239	6866308	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	60	Dry	Excellent	AlpineBare
149116	11/08/2011	DrewMacPhail	528277	6866315	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	60	Dry	Excellent	AlpineBare
149117	11/08/2011	DrewMacPhail	528322	6866340	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateW	C	65	Dry	Excellent	AlpineBare
149118	11/08/2011	DrewMacPhail	528374	6866379	UTMZ9N WGS84	Lithosoil	Grey	Sand	RidgeAlpine	C	55	Dry	Excellent	AlpineBare
149119	11/08/2011	DrewMacPhail	528424	6866377	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateNW	C	30	Dry	Excellent	AlpineBare
149120	13/08/2011	DrewMacPhail	527208	6866410	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	60	Dry	Excellent	AlpineBare
149121	13/08/2011	DrewMacPhail	527261	6866415	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	45	Dry	Excellent	AlpineBare
149122	13/08/2011	DrewMacPhail	527322	6866429	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	AlpineBare
149123	13/08/2011	DrewMacPhail	527370	6866461	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	65	Dry	Excellent	AlpineBare
149124	13/08/2011	DrewMacPhail	527410	6866479	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateNE	C	70	Dry	Excellent	AlpineBare
149125	13/08/2011	DrewMacPhail	527448	6866487	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	75	Dry	Excellent	AlpineBare
149126	13/08/2011	DrewMacPhail	527500	6866499	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	65	Dry	Excellent	AlpineBare
149127	13/08/2011	DrewMacPhail	527545	6866506	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	60	Dry	Excellent	AlpineBare
149128	13/08/2011	DrewMacPhail	527597	6866517	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	65	Dry	Excellent	SubAlpineBrush
149129	13/08/2011	DrewMacPhail	527644	6866533	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	65	Dry	Excellent	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
149130	13/08/2011	DrewMacPhail	527682	6866550	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	70	Dry	Excellent	SubAlpineBrush
149131	13/08/2011	DrewMacPhail	527736	6866566	UTMZ9N WGS84	Lithosoil	Grey	Sand	Drainage	C	65	Wet	Excellent	SubAlpineBrush
149132	13/08/2011	DrewMacPhail	527784	6866575	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	65	Dry	Excellent	SubAlpineBrush
149133	13/08/2011	DrewMacPhail	527829	6866590	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateSW	C	65	Dry	Excellent	SubAlpineBrush
149134	13/08/2011	DrewMacPhail	527884	6866609	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	50	Dry	Excellent	SubAlpineBrush
149135	13/08/2011	DrewMacPhail	527925	6866625	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	50	Dry	Excellent	SubAlpineBrush
149136	13/08/2011	DrewMacPhail	527967	6866641	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	55	Dry	Excellent	AlpineBare
149137	13/08/2011	DrewMacPhail	528021	6866654	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	30	Dry	Excellent	SubAlpineBrush
149138	13/08/2011	DrewMacPhail	528079	6866678	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateW	C	40	Dry	Good	AlpineBare
149139	13/08/2011	DrewMacPhail	528122	6866701	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	60	Dry	Excellent	AlpineBare
149140	13/08/2011	DrewMacPhail	528159	6866715	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Excellent	AlpineBare
149141	13/08/2011	DrewMacPhail	528195	6866712	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	60	Dry	Excellent	AlpineBare
149142	13/08/2011	DrewMacPhail	528251	6866714	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Excellent	AlpineBare
149143	13/08/2011	DrewMacPhail	528304	6866753	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	60	Dry	Excellent	AlpineBare
149144	13/08/2011	DrewMacPhail	528347	6866784	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateW	C	20	Dry	Excellent	AlpineBare
149145	13/08/2011	DrewMacPhail	528402	6866778	UTMZ9N WGS84	Lithosoil	Brown	Sand	RidgeAlpine	C	20	Dry	Excellent	AlpineBare
149146	14/08/2011	DrewMacPhail	526468	6867003	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	20	Dry	Excellent	AlpineBare
149147	14/08/2011	DrewMacPhail	526502	6867009	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateE	C	40	Dry	Excellent	AlpineBare
149148	14/08/2011	DrewMacPhail	526556	6867018	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateE	C	45	Dry	Excellent	AlpineBare
149149	14/08/2011	DrewMacPhail	526609	6867032	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateE	C	50	Dry	Excellent	AlpineBare
149150	14/08/2011	DrewMacPhail	526644	6867043	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	55	Dry	Excellent	AlpineBare
149151	14/08/2011	DrewMacPhail	526695	6867057	UTMZ9N WGS84	Lithosoil	Blue	Sand	ModerateE	C	60	Dry	Excellent	AlpineBare
149152	14/08/2011	DrewMacPhail	526795	6867092	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	30	Dry	Good	SubAlpineBrush
149153	14/08/2011	DrewMacPhail	526843	6867102	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	60	Dry	Excellent	AlpineBare
149154	14/08/2011	DrewMacPhail	526879	6867113	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	30	Dry	Good	SubAlpineBrush
149155	14/08/2011	DrewMacPhail	526932	6867129	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	50	Dry	Excellent	ForestBlackSpruce
149156	14/08/2011	DrewMacPhail	526983	6867157	UTMZ9N WGS84	Lithosoil	Brown	Sand	SteepE	C	40	Wet	Excellent	AlpineBare
149157	14/08/2011	DrewMacPhail	527047	6867163	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	20	Dry	Excellent	AlpineBare
149158	14/08/2011	DrewMacPhail	527079	6867183	UTMZ9N WGS84	Colluvium	Brown	Sand	ModerateE	C	30	Dry	Excellent	AlpineBare
149159	14/08/2011	DrewMacPhail	527123	6867194	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateE	C	20	Dry	Excellent	ForestBlackSpruce
149160	14/08/2011	DrewMacPhail	527186	6867206	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	10	Dry	Excellent	ForestBlackSpruce
149161	14/08/2011	DrewMacPhail	527229	6867226	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateE	C	30	Dry	Excellent	ForestBlackSpruce
149162	14/08/2011	DrewMacPhail	527259	6867240	UTMZ9N WGS84	Lithosoil	Blue	Sand	Drainage	C	10	Dry		ForestBlackSpruce
149163	14/08/2011	DrewMacPhail	527315	6867242	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	50	Dry	Excellent	ForestBlackSpruce
149164	14/08/2011	DrewMacPhail	527365	6867263	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateN	C	40	Dry	Excellent	ForestBlackSpruce
149165	14/08/2011	DrewMacPhail	527416	6867285	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateN	C	40	Dry	Excellent	ForestBlackSpruce
149166	14/08/2011	DrewMacPhail	527461	6867298	UTMZ9N WGS84	Lithosoil	Tan	Sand	ModerateN	C	50	Dry	Excellent	ForestBlackSpruce
149167	14/08/2011	DrewMacPhail	527494	6867315	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	10	Dry	Excellent	ForestBlackSpruce
149168	14/08/2011	DrewMacPhail	527544	6867347	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
149169	14/08/2011	DrewMacPhail	527598	6867342	UTMZ9N WGS84	Lithosoil	BrownDark	Sand	ModerateN	B	50	Dry	Excellent	ForestBlackSpruce
149170	14/08/2011	DrewMacPhail	527654	6867367	UTMZ9N WGS84	Lithosoil	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
149171	14/08/2011	DrewMacPhail	527699	6867392	UTMZ9N WGS84	Lithosoil	Grey	Sand	ModerateN	C	20	Dry	Excellent	ForestBlackSpruce

Appendix D - Analytical Certifications



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Stakeholder Gold Corp.**

203 - 680 Third Ave.
Val D'Or QC J9P 1S5 Canada

Submitted By: Mark Fekete
Receiving Lab: Canada-Dawson City
Received: August 15, 2011
Report Date: November 15, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

DAW11000256.1

CLIENT JOB INFORMATION

Project: Culvert
Shipment ID: CULVERT-1
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Stakeholder Gold Corp.
203 - 680 Third Ave.
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			DAW
Dry at 60C	320	Dry at 60C			DAW
1DX2	320	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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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Stakeholder Gold Corp.**

203 - 680 Third Ave.
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Project: Culvert

Report Date: November 15, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

DAW11000256.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
119982	Soil	0.5	11.4	14.6	23	<0.1	5.3	2.0	121	2.00	6.3	0.5	0.8	0.6	7	<0.1	0.3	0.3	13	0.02
119983	Soil	1.1	36.9	39.1	78	0.1	21.0	14.3	570	5.05	21.4	1.6	1.7	4.0	17	<0.1	0.9	0.7	26	0.03
119984	Soil	0.7	27.2	38.9	67	<0.1	22.6	19.1	388	3.35	20.8	1.0	1.1	7.4	12	<0.1	0.4	0.4	24	0.08
119985	Soil	0.5	26.4	28.9	61	<0.1	20.6	19.9	450	2.81	16.9	1.1	<0.5	5.8	8	<0.1	0.3	0.4	16	0.05
119986	Soil	0.7	60.5	54.8	159	0.2	61.8	100.9	1236	5.42	51.3	2.4	2.1	18.1	14	0.2	0.6	0.7	19	0.02
119987	Soil	0.5	23.1	19.2	62	<0.1	20.3	25.0	437	2.53	13.5	1.0	0.8	6.1	8	<0.1	0.3	0.3	13	0.04
119988	Soil	0.7	42.4	61.2	124	0.2	41.4	47.6	1041	4.53	92.4	1.9	12.2	10.1	10	0.2	0.4	0.9	20	0.05
119989	Soil	0.6	31.8	37.7	80	0.1	27.7	21.0	681	3.26	17.0	1.2	2.0	7.6	8	<0.1	0.3	0.6	17	0.05
119990	Soil	0.6	29.0	33.8	71	0.1	25.4	20.0	644	2.90	14.6	1.1	1.5	7.0	7	<0.1	0.3	0.5	15	0.05
119991	Soil	0.5	45.0	67.2	123	0.2	45.8	54.5	1060	4.33	36.3	2.0	2.2	11.3	9	0.2	0.2	0.9	15	0.06
119992	Soil	0.5	49.3	68.6	120	0.3	51.3	56.5	1037	4.13	30.0	2.1	2.4	13.6	11	0.2	0.2	0.9	15	0.08
119993	Soil	0.6	49.4	45.6	110	0.2	52.7	45.7	1069	3.46	25.5	1.8	<0.5	10.2	10	0.3	0.2	0.8	13	0.10
119994	Soil	1.5	142.6	48.7	305	0.3	69.5	110.6	2850	5.17	96.9	4.9	13.7	16.9	15	2.5	0.4	3.9	22	0.05
119995	Soil	1.4	69.4	101.2	135	0.3	42.3	61.8	1954	4.76	78.7	2.1	17.3	7.0	6	0.1	0.4	1.9	23	0.04
119996	Soil	1.3	56.1	31.5	126	0.1	45.9	48.8	1811	4.99	56.6	2.5	17.1	5.6	5	0.2	0.3	1.3	20	0.03
119997	Soil	1.1	45.4	30.9	87	0.2	28.9	30.9	1325	4.47	34.9	1.7	19.6	4.2	6	<0.1	0.4	1.0	21	0.03
119998	Soil	0.6	25.1	10.6	47	0.2	16.2	8.5	223	2.02	11.9	0.9	0.7	2.6	4	<0.1	0.2	0.4	14	0.02
119999	Soil	1.3	77.2	44.1	114	0.4	40.0	23.3	677	6.44	27.9	3.0	1.9	20.7	7	<0.1	0.6	1.3	20	0.02
120000	Soil	0.8	35.5	15.6	104	0.1	36.0	16.7	807	5.31	24.8	1.5	1.1	12.2	3	<0.1	0.2	0.8	19	0.02
130001	Soil	0.8	43.3	20.9	100	0.1	33.7	19.6	926	5.41	29.8	1.8	1.9	16.2	4	<0.1	0.3	0.9	22	0.01
130002	Soil	1.0	79.6	51.6	89	0.2	15.6	16.4	417	6.09	6.0	3.5	1.0	28.9	15	<0.1	0.5	1.9	16	0.04
130003	Soil	1.0	32.9	43.8	83	0.3	22.2	8.9	496	5.49	12.4	1.4	1.4	17.1	5	0.1	0.3	1.0	26	0.01
130004	Soil	0.5	11.9	12.0	22	<0.1	6.0	3.4	245	1.71	4.5	0.5	1.9	0.5	5	<0.1	0.2	0.3	14	0.02
130005	Soil	0.5	16.0	14.4	25	0.1	9.1	5.9	258	1.57	5.4	0.6	<0.5	1.4	4	<0.1	0.2	0.4	11	0.02
130006	Soil	0.6	24.6	22.7	73	0.3	25.0	13.4	395	4.91	12.6	0.9	1.5	14.4	4	0.1	0.3	0.6	19	0.01
130007	Soil	0.6	7.5	10.6	23	<0.1	5.2	2.3	149	2.52	4.8	0.4	<0.5	3.9	3	<0.1	0.2	0.3	20	0.01
130008	Soil	0.8	23.4	31.9	65	0.1	18.5	9.0	508	4.44	13.1	0.9	9.6	6.3	6	<0.1	0.3	0.6	21	0.02
130009	Soil	0.2	4.1	3.0	4	<0.1	1.0	0.8	22	0.38	<0.5	0.3	<0.5	0.1	6	<0.1	<0.1	<0.1	8	0.04
130010	Soil	0.9	19.8	4.9	19	<0.1	24.9	3.4	208	0.51	4.0	3.8	<0.5	0.3	23	0.1	<0.1	0.1	7	0.39
130011	Soil	0.8	64.7	15.7	77	0.3	45.4	9.2	205	2.12	16.3	71.7	2.7	2.8	25	<0.1	0.2	0.3	10	0.58



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Project: Culvert
Report Date: November 15, 2011

Page: 2 of 12 **Part** 2

CERTIFICATE OF ANALYSIS

DAW11000256.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
119982	Soil	11	11	0.12	23	0.005	<1	0.86	0.015	0.03	<0.1	0.03	0.3	<0.1	0.10	4	<0.5	<0.2
119983	Soil	37	30	0.53	30	0.018	2	1.81	0.005	0.05	0.2	0.03	1.2	<0.1	<0.05	6	0.6	<0.2
119984	Soil	31	21	0.51	21	0.025	2	1.47	0.012	0.04	0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
119985	Soil	22	18	0.42	18	0.016	<1	1.37	0.012	0.03	<0.1	0.03	1.1	<0.1	<0.05	4	0.6	<0.2
119986	Soil	36	28	0.75	31	0.008	2	2.39	0.007	0.06	0.5	<0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
119987	Soil	24	16	0.39	20	0.012	1	1.32	0.014	0.03	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
119988	Soil	40	30	0.74	30	0.008	<1	2.20	0.005	0.04	0.2	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
119989	Soil	33	21	0.56	26	0.012	<1	1.62	0.011	0.03	0.2	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
119990	Soil	28	19	0.51	24	0.011	1	1.46	0.010	0.03	0.2	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
119991	Soil	40	28	0.76	26	0.005	1	2.13	0.006	0.03	0.2	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
119992	Soil	42	26	0.73	29	0.009	<1	2.07	0.009	0.04	0.5	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
119993	Soil	31	22	0.62	32	0.005	1	1.78	0.010	0.02	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
119994	Soil	33	25	0.76	51	0.005	<1	2.30	0.007	0.03	2.1	0.03	2.5	<0.1	<0.05	6	0.5	<0.2
119995	Soil	27	27	0.67	28	0.007	<1	2.09	0.007	0.03	0.5	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
119996	Soil	28	28	0.57	27	0.011	<1	2.01	0.006	0.03	0.5	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
119997	Soil	27	26	0.50	33	0.009	<1	1.69	0.008	0.03	0.2	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
119998	Soil	12	11	0.22	17	0.014	<1	0.80	0.017	0.02	0.2	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
119999	Soil	31	28	0.58	24	0.006	1	2.02	0.006	0.03	0.5	0.02	2.3	<0.1	<0.05	6	0.5	<0.2
120000	Soil	38	36	0.81	22	0.005	<1	2.36	0.006	0.03	0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
130001	Soil	41	31	0.72	28	0.007	<1	2.29	0.004	0.03	0.2	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
130002	Soil	47	25	0.49	27	0.005	<1	1.66	0.009	0.03	0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
130003	Soil	29	27	0.47	27	0.006	<1	1.73	0.004	0.03	0.7	0.05	1.4	<0.1	<0.05	8	<0.5	<0.2
130004	Soil	11	11	0.11	24	0.008	<1	0.63	0.017	0.02	0.1	0.03	0.2	<0.1	<0.05	4	<0.5	<0.2
130005	Soil	9	10	0.16	17	0.009	<1	0.96	0.025	0.03	1.3	0.04	0.5	<0.1	<0.05	3	<0.5	<0.2
130006	Soil	28	32	0.69	29	0.008	<1	2.43	0.003	0.04	0.2	0.04	1.9	<0.1	<0.05	6	<0.5	<0.2
130007	Soil	14	10	0.13	17	0.016	<1	0.61	0.010	0.02	0.1	0.02	0.5	<0.1	<0.05	6	<0.5	<0.2
130008	Soil	21	29	0.54	44	0.008	<1	1.83	0.007	0.03	0.2	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
130009	Soil	2	2	0.02	10	0.013	<1	0.40	0.028	0.02	<0.1	0.03	0.2	<0.1	<0.05	2	<0.5	<0.2
130010	Soil	12	5	0.06	27	0.012	<1	0.47	0.033	0.02	<0.1	0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
130011	Soil	164	21	0.40	29	0.006	<1	1.44	0.011	0.02	<0.1	0.04	0.9	<0.1	0.13	3	2.7	<0.2



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Project: Culvert

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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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
130012	Soil	2.2	27.1	21.2	61	0.1	15.7	6.1	337	4.45	22.1	1.1	3.8	2.1	7	<0.1	0.5	0.6	32	0.04	0.291
130013	Soil	0.5	8.0	8.1	26	0.3	7.3	3.0	172	2.56	8.8	0.4	<0.5	1.9	4	<0.1	0.2	0.3	18	0.02	0.069
130014	Soil	0.6	21.6	13.5	65	<0.1	22.0	10.2	400	4.32	20.6	0.8	2.9	7.2	3	<0.1	0.3	0.5	20	0.01	0.058
130015	Soil	0.1	2.4	2.8	7	<0.1	1.8	0.9	39	0.42	1.8	0.3	0.6	0.1	4	<0.1	<0.1	<0.1	7	0.02	0.028
130016	Soil	0.8	20.9	19.2	103	0.3	23.6	13.7	695	5.11	20.8	1.0	7.4	11.2	6	0.1	0.3	0.7	25	0.04	0.113
130017	Soil	0.6	8.5	11.9	32	0.2	6.7	3.7	272	2.52	8.7	0.4	17.1	0.8	4	<0.1	0.2	0.4	16	0.02	0.124
130018	Soil	<0.1	0.9	0.6	4	<0.1	0.6	0.4	9	0.15	<0.5	0.1	<0.5	<0.1	4	<0.1	<0.1	<0.1	5	0.02	0.016
130019	Soil	0.1	2.0	1.0	4	<0.1	1.1	0.6	20	0.24	<0.5	0.1	<0.5	<0.1	5	<0.1	0.1	<0.1	7	0.02	0.023
130020	Soil	0.2	2.5	2.3	9	<0.1	3.0	1.2	32	0.39	<0.5	0.2	<0.5	0.2	4	<0.1	<0.1	<0.1	7	0.02	0.024
130021	Soil	<0.1	3.0	1.0	3	<0.1	1.0	0.5	11	0.18	<0.5	0.1	<0.5	<0.1	6	<0.1	<0.1	<0.1	6	0.02	0.015
118764	Soil	0.5	15.8	13.8	33	<0.1	7.4	3.7	164	1.94	10.4	0.7	<0.5	2.0	10	<0.1	0.3	0.3	15	0.05	0.079
118765	Soil	0.5	34.3	48.0	61	<0.1	13.4	8.0	189	3.71	73.1	1.4	12.4	11.4	12	<0.1	0.7	0.6	13	0.02	0.085
118766	Soil	0.6	52.6	70.0	110	0.1	31.0	19.7	332	5.91	67.1	1.9	1.7	17.8	20	0.1	1.0	0.6	14	0.01	0.154
118767	Soil	0.8	40.9	55.1	76	0.2	21.4	25.4	609	5.15	22.7	1.5	1.9	12.8	19	0.1	0.6	0.8	18	0.01	0.134
118768	Soil	0.6	41.0	48.1	102	0.2	43.2	77.6	1055	4.60	29.3	1.5	4.4	16.8	11	0.2	0.5	0.6	14	<0.01	0.083
118769	Soil	0.6	40.3	77.9	100	0.2	38.9	66.3	961	4.98	37.3	1.6	1.2	15.3	17	<0.1	0.5	0.7	13	<0.01	0.100
118770	Soil	0.6	40.4	94.2	117	0.2	43.1	59.0	1039	4.74	40.5	1.9	<0.5	12.4	14	0.2	0.4	0.7	13	0.02	0.091
118771	Soil	0.3	15.4	23.4	50	0.1	13.1	6.3	327	2.47	9.4	0.7	0.7	2.8	5	<0.1	0.1	0.3	10	0.03	0.062
118772	Soil	0.6	26.9	36.8	76	<0.1	23.8	15.5	619	3.75	20.2	1.1	0.7	3.8	6	<0.1	0.2	0.5	18	0.04	0.128
118773	Soil	2.6	130.1	67.7	241	0.6	59.1	62.9	2652	4.52	53.9	5.2	3.0	18.1	23	0.7	0.4	3.8	15	0.16	0.057
118774	Soil	1.8	35.3	42.0	98	0.3	30.3	35.3	1898	3.29	44.1	4.0	4.3	8.8	8	<0.1	0.4	1.7	15	0.02	0.071
118775	Soil	0.7	47.9	24.4	98	0.1	28.8	33.8	1750	3.92	26.2	2.2	11.5	13.8	5	<0.1	0.4	1.3	20	0.03	0.079
118776	Soil	1.1	42.7	42.6	109	0.3	29.2	35.2	1674	4.10	54.5	1.9	22.2	6.8	6	0.2	0.4	1.6	19	0.03	0.102
118777	Soil	0.9	52.8	23.1	127	0.2	30.7	18.0	746	5.52	107.5	2.3	8.1	16.2	8	<0.1	0.4	1.7	20	0.01	0.063
118778	Soil	0.7	31.4	49.2	80	<0.1	23.5	12.4	686	4.87	4.6	2.5	<0.5	16.5	9	<0.1	<0.1	0.6	21	0.08	0.054
118779	Soil	1.0	54.9	20.9	137	0.2	36.3	27.9	1122	5.18	84.8	2.7	6.1	14.4	7	0.2	0.3	1.3	20	0.03	0.099
118780	Soil	0.8	47.2	15.5	79	0.2	20.3	22.1	480	3.56	20.3	2.7	0.5	10.7	8	<0.1	0.2	0.5	10	0.05	0.078
118781	Soil	1.2	47.6	23.2	74	0.3	22.4	16.3	786	4.28	48.1	2.5	0.5	7.6	6	0.1	0.2	1.3	16	0.03	0.105
118782	Soil	0.5	50.2	22.6	118	0.2	39.1	30.3	809	4.58	4.2	2.2	0.9	19.9	7	<0.1	0.2	1.0	16	0.10	0.058
118783	Soil	0.4	50.0	21.9	118	0.2	38.6	30.2	826	4.64	4.5	2.3	1.0	19.0	8	<0.1	0.2	0.9	16	0.09	0.058



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130012	Soil	17	25	0.29	49	0.009	1	1.11	0.006	0.03	0.1	0.05	0.6	<0.1	<0.05	7	<0.5	<0.2
130013	Soil	13	12	0.19	17	0.017	<1	0.78	0.013	0.02	0.1	0.04	0.6	<0.1	<0.05	5	<0.5	<0.2
130014	Soil	32	27	0.50	22	0.010	<1	1.63	0.007	0.03	0.2	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
130015	Soil	4	3	0.03	10	0.006	<1	0.19	0.018	0.02	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5	<0.2
130016	Soil	30	34	0.59	32	0.010	<1	2.38	0.005	0.04	0.3	0.07	1.5	<0.1	<0.05	7	<0.5	<0.2
130017	Soil	16	12	0.17	18	0.009	<1	0.67	0.014	0.02	<0.1	0.04	0.4	<0.1	<0.05	4	<0.5	<0.2
130018	Soil	<1	2	<0.01	10	0.006	<1	0.13	0.024	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
130019	Soil	1	2	0.01	12	0.006	<1	0.18	0.026	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
130020	Soil	3	4	0.05	12	0.007	<1	0.18	0.024	0.02	<0.1	<0.01	0.4	<0.1	<0.05	1	<0.5	<0.2
130021	Soil	<1	2	0.01	14	0.008	<1	0.13	0.029	0.02	<0.1	0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
118764	Soil	16	12	0.26	17	0.012	<1	0.89	0.018	0.04	0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
118765	Soil	31	18	0.41	20	0.008	<1	1.23	0.009	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
118766	Soil	36	23	0.49	17	0.003	3	1.68	0.004	0.03	<0.1	<0.01	1.6	<0.1	<0.05	6	0.6	<0.2
118767	Soil	29	24	0.57	19	0.007	<1	1.60	0.004	0.04	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
118768	Soil	34	24	0.58	11	0.003	<1	1.69	0.002	0.03	<0.1	0.01	1.7	<0.1	<0.05	5	0.9	<0.2
118769	Soil	30	23	0.56	15	0.003	<1	1.67	0.004	0.02	<0.1	<0.01	1.5	<0.1	<0.05	5	0.5	<0.2
118770	Soil	33	25	0.61	18	0.004	<1	1.86	0.003	0.03	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
118771	Soil	14	16	0.40	20	0.008	<1	1.48	0.015	0.04	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
118772	Soil	22	24	0.57	23	0.007	<1	1.86	0.007	0.03	0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
118773	Soil	31	23	0.73	65	0.004	1	2.17	0.009	0.05	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
118774	Soil	21	18	0.52	34	0.010	<1	1.51	0.013	0.03	0.5	0.04	1.4	<0.1	<0.05	5	<0.5	<0.2
118775	Soil	32	23	0.64	23	0.010	3	1.73	0.010	0.03	0.3	0.01	1.8	<0.1	<0.05	6	0.7	<0.2
118776	Soil	26	22	0.56	31	0.007	<1	1.74	0.009	0.03	0.4	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
118777	Soil	25	25	0.52	25	0.003	<1	1.96	0.006	0.03	0.3	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
118778	Soil	47	35	0.78	29	0.007	6	2.27	0.035	0.11	0.1	<0.01	3.2	<0.1	<0.05	8	<0.5	<0.2
118779	Soil	34	27	0.64	23	0.003	<1	2.04	0.004	0.03	0.2	0.04	1.5	<0.1	<0.05	6	<0.5	<0.2
118780	Soil	25	18	0.48	28	0.005	<1	1.41	0.019	0.03	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
118781	Soil	24	23	0.49	30	0.007	<1	1.64	0.011	0.03	0.6	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
118782	Soil	105	33	0.84	14	0.003	1	2.37	0.008	0.04	<0.1	0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
118783	Soil	106	34	0.84	16	0.004	<1	2.34	0.008	0.04	0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
121857	Soil	0.6	34.8	40.3	82	<0.1	18.1	9.5	367	4.97	16.2	1.4	2.7	14.6	21	<0.1	0.6	0.6	19	0.03	0.077
121858	Soil	0.9	20.5	26.8	53	<0.1	13.7	6.9	365	4.14	12.2	1.0	1.8	1.7	8	<0.1	0.7	0.5	21	0.01	0.157
121859	Soil	0.7	23.9	27.0	84	<0.1	25.6	21.4	470	4.25	19.1	1.2	2.7	9.0	7	<0.1	0.5	0.4	17	0.03	0.066
121860	Soil	0.7	21.1	22.5	66	<0.1	16.6	9.2	342	3.39	11.8	1.0	3.5	9.4	9	<0.1	0.5	0.4	15	0.02	0.056
121861	Soil	0.7	24.5	134.0	75	0.2	19.7	10.2	342	4.00	14.5	1.2	1.2	7.7	8	0.1	0.4	0.7	17	0.01	0.102
121862	Soil	0.6	36.5	67.2	93	0.2	26.7	26.1	1003	5.02	27.4	1.6	3.1	6.4	8	0.3	0.4	0.6	18	0.01	0.134
121863	Soil	0.7	50.1	159.8	141	0.4	57.2	72.5	1126	5.00	39.8	3.2	3.0	13.7	13	0.5	0.5	1.2	15	0.06	0.080
121864	Soil	0.6	134.1	118.2	128	0.4	63.7	53.7	1317	4.29	26.1	2.5	4.5	14.2	9	0.2	0.2	1.1	13	0.15	0.064
121865	Soil	0.9	49.8	139.1	108	0.2	39.6	35.2	1025	4.02	22.4	1.8	1.0	10.4	9	<0.1	0.3	1.1	16	0.08	0.088
121866	Soil	0.4	44.3	112.6	84	0.2	28.3	27.6	1442	2.82	7.3	1.2	9.7	5.6	7	0.2	0.3	0.9	13	0.06	0.079
121867	Soil	0.8	57.6	114.3	156	0.4	47.9	48.8	2020	4.33	16.5	2.0	33.2	13.5	8	0.4	0.3	1.4	18	0.07	0.068
121868	Soil	0.6	22.5	26.6	86	0.1	24.3	22.2	922	2.91	20.7	1.4	17.9	7.9	6	<0.1	0.3	1.3	15	0.05	0.065
121869	Soil	1.0	72.9	24.9	150	0.2	43.3	50.4	1876	4.54	28.4	3.7	32.6	12.4	5	0.1	0.2	1.3	20	0.02	0.073
121870	Soil	0.5	52.4	20.5	111	<0.1	38.1	44.2	1167	4.37	90.2	2.7	44.6	12.4	10	<0.1	0.4	1.5	18	0.04	0.072
121871	Soil	0.9	62.3	93.4	119	0.2	54.1	54.6	1609	3.64	32.8	2.1	41.6	9.6	7	<0.1	0.3	1.4	17	0.06	0.079
121872	Soil	0.8	42.2	32.4	114	0.1	36.1	22.3	667	5.30	30.5	2.0	5.1	17.5	7	0.1	0.4	1.5	20	0.02	0.060
121873	Soil	1.1	63.9	34.1	91	0.3	34.4	15.1	373	6.40	14.1	3.0	3.0	24.4	9	<0.1	0.5	1.6	15	<0.01	0.144
121874	Soil	0.8	53.5	23.1	71	0.1	32.3	12.5	278	3.82	14.4	2.5	2.3	12.7	6	<0.1	0.4	0.7	15	0.03	0.099
121875	Soil	0.7	54.2	31.9	154	0.2	49.0	38.0	1186	4.79	43.4	3.1	196.3	12.2	7	0.3	0.3	1.0	20	0.09	0.075
121876	Soil	0.4	33.0	34.8	102	0.2	41.6	23.5	880	4.70	39.4	1.1	28.8	16.7	4	0.2	0.2	0.9	21	0.02	0.028
121877	Soil	0.7	38.1	34.2	106	<0.1	33.2	20.0	617	4.41	62.6	1.6	9.8	6.3	5	0.1	0.4	1.2	22	0.03	0.070
121878	Soil	1.0	35.0	26.3	68	0.1	12.6	7.4	624	3.83	13.2	1.4	1.3	5.7	7	<0.1	0.5	0.7	26	0.03	0.086
121879	Soil	0.8	63.1	59.6	123	<0.1	87.5	62.3	1263	4.54	12.6	1.8	1.7	20.4	3	<0.1	0.4	0.6	13	0.02	0.091
121880	Soil	0.8	28.6	27.8	81	0.1	22.7	13.5	437	4.17	13.2	1.2	19.7	6.5	6	<0.1	0.3	0.6	18	0.04	0.069
121881	Soil	0.8	20.2	25.6	66	<0.1	17.7	8.4	511	5.62	22.6	0.9	7.6	7.4	3	<0.1	0.3	0.6	20	0.02	0.095
121882	Soil	0.3	5.1	6.5	16	<0.1	3.0	1.4	52	0.71	2.9	0.4	0.8	0.1	4	<0.1	0.1	0.1	8	0.02	0.026
121883	Soil	0.8	25.3	25.3	74	<0.1	22.9	12.8	445	4.16	28.2	1.1	2.4	8.4	8	<0.1	0.5	0.5	23	0.06	0.074
121884	Soil	0.9	52.2	21.3	108	<0.1	35.5	25.3	689	4.41	18.9	1.7	24.7	13.7	6	<0.1	0.3	0.6	19	0.05	0.053
121885	Soil	0.6	33.2	29.3	105	<0.1	34.3	20.8	838	4.64	25.0	1.2	17.0	10.8	4	0.1	0.2	0.8	19	0.03	0.055
121886	Soil	1.4	34.5	14.4	49	0.1	24.0	11.2	215	1.59	8.4	1.5	1.6	0.6	13	0.2	0.2	0.4	10	0.19	0.059



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Project: Culvert
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
121857	Soil	39	27	0.72	34	0.015	15	1.95	0.012	0.13	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
121858	Soil	20	24	0.36	24	0.007	<1	1.35	0.005	0.04	0.1	0.05	0.4	<0.1	<0.05	7	<0.5	<0.2
121859	Soil	31	25	0.67	22	0.008	<1	1.87	0.005	0.04	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
121860	Soil	31	24	0.58	25	0.007	<1	1.55	0.011	0.05	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
121861	Soil	25	27	0.51	16	0.006	1	1.57	0.005	0.03	0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
121862	Soil	30	27	0.58	21	0.008	<1	1.82	0.003	0.03	<0.1	0.03	1.0	<0.1	<0.05	6	0.7	<0.2
121863	Soil	37	26	0.68	15	0.005	1	1.91	0.007	0.04	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
121864	Soil	37	27	0.86	20	0.002	<1	2.29	0.004	0.03	<0.1	<0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
121865	Soil	29	27	0.70	34	0.007	<1	1.94	0.007	0.03	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
121866	Soil	18	17	0.49	53	0.005	<1	1.43	0.011	0.03	<0.1	0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
121867	Soil	37	27	0.74	54	0.004	<1	2.16	0.007	0.03	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
121868	Soil	25	17	0.49	24	0.007	1	1.42	0.015	0.03	0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
121869	Soil	33	24	0.48	22	0.002	1	1.65	0.007	0.03	<0.1	0.02	2.2	<0.1	<0.05	5	0.6	<0.2
121870	Soil	40	23	0.58	27	0.008	1	1.81	0.009	0.02	0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
121871	Soil	37	23	0.57	29	0.006	<1	1.74	0.010	0.02	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
121872	Soil	43	36	0.78	21	0.008	<1	2.35	0.005	0.03	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
121873	Soil	29	22	0.55	21	0.002	3	1.97	0.006	0.03	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
121874	Soil	68	19	0.36	20	0.005	<1	1.65	0.009	0.02	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
121875	Soil	40	32	0.78	24	0.004	<1	2.13	0.006	0.03	0.2	<0.01	1.8	<0.1	<0.05	6	0.5	<0.2
121876	Soil	48	35	0.86	45	0.004	<1	2.56	0.009	0.06	0.2	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
121877	Soil	39	26	0.59	20	0.007	<1	1.85	0.004	0.03	0.5	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
121878	Soil	25	19	0.24	39	0.009	<1	1.47	0.007	0.03	0.2	0.04	0.8	<0.1	<0.05	7	<0.5	<0.2
121879	Soil	55	23	0.59	14	0.004	<1	1.79	0.004	0.03	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
121880	Soil	31	27	0.57	26	0.006	<1	1.86	0.006	0.03	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
121881	Soil	26	30	0.60	15	0.007	<1	1.87	0.004	0.02	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
121882	Soil	4	5	0.05	14	0.007	<1	0.46	0.017	0.02	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
121883	Soil	26	26	0.59	23	0.012	<1	1.76	0.006	0.03	0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
121884	Soil	46	32	0.79	40	0.005	<1	2.20	0.006	0.06	0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
121885	Soil	36	32	0.79	26	0.005	<1	2.25	0.006	0.03	0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
121886	Soil	32	10	0.17	31	0.006	<1	0.86	0.018	0.03	<0.1	0.02	0.3	<0.1	0.06	3	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
121887	Soil	1.0	22.5	11.1	73	0.1	36.8	11.9	441	2.22	7.0	8.8	1.5	3.4	28	<0.1	0.1	0.4	11	0.43	0.066
121888	Soil	1.3	14.1	9.1	72	0.1	23.6	7.9	427	3.88	12.8	1.6	4.9	6.6	13	<0.1	0.2	0.5	17	0.17	0.071
121889	Soil	1.5	36.7	13.9	121	<0.1	40.4	17.6	732	4.36	10.8	4.8	2.1	13.4	13	<0.1	0.1	1.0	17	0.21	0.063
121890	Soil	1.6	33.8	13.2	122	<0.1	39.4	19.0	776	4.60	10.4	4.0	38.5	14.3	12	<0.1	0.2	0.9	17	0.20	0.061
121891	Soil	0.6	8.5	3.6	18	<0.1	4.5	2.3	96	0.98	1.5	0.3	0.6	0.4	4	<0.1	<0.1	0.2	9	0.02	0.040
121892	Soil	0.3	29.4	3.3	106	<0.1	40.4	26.0	647	3.95	1.5	2.5	21.4	17.4	5	<0.1	0.3	1.4	32	0.06	0.066
121893	Soil	0.4	8.7	8.8	39	<0.1	10.6	5.1	219	2.47	7.1	0.4	2.1	1.4	4	<0.1	0.2	0.2	12	0.01	0.047
120887	Soil	1.1	26.5	28.5	62	<0.1	16.6	6.1	307	4.24	15.3	1.1	1.2	2.0	9	<0.1	0.7	0.5	20	0.02	0.115
120888	Soil	0.5	12.5	19.0	29	<0.1	6.7	2.8	150	2.10	9.5	0.6	2.0	0.7	6	<0.1	0.3	0.3	13	0.02	0.080
120889	Soil	0.5	17.5	20.5	39	<0.1	9.9	3.9	144	2.30	12.0	0.8	1.3	2.0	9	<0.1	0.3	0.3	17	0.03	0.075
120890	Soil	0.5	28.7	32.8	76	<0.1	20.7	17.5	368	4.09	16.7	1.4	1.7	14.1	12	<0.1	0.4	0.6	14	0.02	0.068
120891	Soil	0.6	37.4	41.1	77	0.2	26.5	60.1	870	3.76	28.8	1.6	<0.5	12.2	14	0.1	0.5	0.5	14	0.03	0.098
120892	Soil	0.6	45.7	56.7	133	0.1	67.5	63.4	1135	4.94	46.8	2.5	1.3	16.3	11	0.2	0.4	0.7	15	0.04	0.075
120893	Soil	1.8	69.5	85.9	165	0.4	95.2	101.4	1980	5.10	47.2	3.0	9.6	14.0	12	0.2	0.5	1.5	15	0.05	0.090
120894	Soil	0.9	35.0	93.8	97	0.2	33.4	35.4	1058	3.82	32.2	1.7	2.4	5.8	6	0.1	0.3	0.9	16	0.05	0.109
120895	Soil	1.1	59.2	175.6	147	0.3	55.4	45.4	1004	4.46	31.6	3.2	1.8	15.9	13	0.2	0.3	1.5	13	0.16	0.072
120896	Soil	0.7	46.5	53.5	86	0.2	28.1	21.0	1469	4.17	7.7	1.1	2.8	9.2	5	0.1	0.3	1.0	18	0.03	0.109
120897	Soil	0.9	80.6	52.0	155	0.4	44.7	39.8	2153	4.61	40.9	2.5	6.5	16.7	9	0.3	0.3	2.6	18	0.05	0.077
120898	Soil	0.4	44.2	37.7	151	<0.1	47.9	43.2	1192	5.09	21.9	1.8	43.4	14.3	6	<0.1	0.2	1.8	22	0.07	0.056
120899	Soil	4.0	130.6	102.0	176	0.3	53.5	73.3	3495	5.20	44.7	3.2	790.7	21.6	6	0.2	0.3	1.3	21	0.05	0.062
120900	Soil	2.0	102.5	50.9	151	0.3	39.1	45.8	2025	5.12	178.4	3.6	34.6	17.0	7	0.2	0.4	3.1	15	0.04	0.056
120901	Soil	0.5	55.5	16.2	132	0.1	40.7	31.3	904	4.83	32.1	4.2	9.2	17.3	8	<0.1	0.2	1.1	16	0.04	0.057
120902	Soil	0.8	71.0	20.2	161	0.1	54.1	60.3	1398	4.64	32.2	3.8	4.6	12.6	5	<0.1	0.2	1.6	17	0.04	0.076
120903	Soil	0.7	43.8	16.5	119	0.2	38.9	39.0	1393	4.63	24.2	2.1	1.7	9.0	4	<0.1	0.2	1.1	17	0.03	0.111
120904	Soil	0.7	45.0	32.4	106	0.2	31.7	25.7	861	3.92	49.2	3.0	3.3	4.3	6	0.1	0.3	1.0	17	0.04	0.093
120905	Soil	0.8	17.1	20.8	65	0.3	19.1	12.4	645	5.80	24.0	0.8	5.1	10.6	4	<0.1	0.2	0.8	26	0.01	0.122
120906	Soil	1.1	48.8	58.9	102	0.2	29.1	27.7	800	4.75	18.6	3.2	6.9	18.5	7	0.1	0.2	1.2	17	0.04	0.088
118784	Soil	0.7	37.0	33.0	92	0.2	29.6	14.4	540	5.34	22.1	1.2	4.1	16.1	3	<0.1	0.3	0.8	18	0.02	0.055
118785	Soil	1.0	36.5	32.6	82	0.1	24.4	10.3	530	5.23	15.3	1.6	1.0	14.0	10	<0.1	0.4	0.9	25	0.03	0.087
118786	Soil	1.3	21.0	9.1	54	0.1	24.9	2.7	98	1.36	6.8	1.1	1.6	0.3	10	0.4	0.2	0.4	15	0.14	0.037



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
121887	Soil	39	16	0.33	41	0.006	<1	1.22	0.015	0.02	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
121888	Soil	24	24	0.47	19	0.006	<1	1.35	0.010	0.02	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
121889	Soil	44	34	0.72	26	0.003	<1	2.04	0.007	0.02	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
121890	Soil	42	33	0.75	23	0.003	<1	2.10	0.006	0.02	0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
121891	Soil	9	6	0.09	19	0.004	<1	0.48	0.017	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
121892	Soil	45	37	0.69	35	0.042	3	1.41	0.009	0.02	0.2	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
121893	Soil	13	13	0.22	18	0.008	<1	0.88	0.012	0.02	0.1	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
120887	Soil	25	26	0.43	26	0.006	<1	1.42	0.006	0.03	<0.1	0.03	0.5	<0.1	0.05	6	<0.5	<0.2
120888	Soil	14	13	0.19	22	0.004	<1	0.89	0.011	0.03	<0.1	0.02	0.2	<0.1	<0.05	4	<0.5	<0.2
120889	Soil	22	15	0.31	16	0.009	<1	1.05	0.009	0.03	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
120890	Soil	43	24	0.61	20	0.008	<1	1.79	0.008	0.04	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
120891	Soil	29	21	0.46	29	0.009	<1	1.60	0.012	0.05	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
120892	Soil	45	29	0.74	17	0.003	<1	2.05	0.004	0.04	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
120893	Soil	40	28	0.76	40	0.002	<1	2.26	0.004	0.03	0.2	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
120894	Soil	29	23	0.59	21	0.004	<1	1.75	0.007	0.03	<0.1	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
120895	Soil	41	27	0.87	17	<0.001	<1	2.21	0.004	0.03	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
120896	Soil	25	28	0.65	46	0.004	<1	1.86	0.004	0.02	<0.1	0.04	1.0	<0.1	0.06	6	<0.5	<0.2
120897	Soil	29	30	0.79	43	0.002	<1	2.13	0.006	0.03	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
120898	Soil	30	27	0.77	22	0.002	<1	2.28	0.004	0.03	<0.1	0.02	1.5	<0.1	0.05	7	<0.5	<0.2
120899	Soil	39	35	0.88	25	0.006	1	2.33	0.010	0.04	<0.1	<0.01	3.1	<0.1	<0.05	7	<0.5	<0.2
120900	Soil	31	23	0.59	22	0.002	<1	1.94	0.007	0.04	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
120901	Soil	41	26	0.58	21	0.002	<1	1.92	0.005	0.04	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
120902	Soil	52	27	0.67	28	0.004	<1	2.00	0.007	0.03	0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
120903	Soil	33	25	0.58	22	0.005	<1	1.78	0.007	0.03	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
120904	Soil	22	22	0.53	38	0.006	<1	1.83	0.007	0.03	0.3	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
120905	Soil	33	30	0.49	23	0.008	<1	1.99	0.004	0.03	0.3	0.02	1.3	<0.1	<0.05	8	<0.5	<0.2
120906	Soil	85	27	0.64	27	0.005	<1	1.93	0.006	0.03	0.5	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
118784	Soil	31	32	0.76	15	0.005	<1	2.37	0.004	0.02	0.3	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
118785	Soil	28	33	0.55	38	0.009	<1	1.94	0.006	0.03	0.1	0.03	2.0	<0.1	<0.05	8	1.1	<0.2
118786	Soil	11	8	0.08	23	0.006	<1	0.47	0.014	0.02	0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2



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Project: Culvert

Report Date: November 15, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
118787	Soil	0.8	31.3	22.7	72	0.1	27.7	20.1	668	1.87	21.9	3.8	1.2	2.1	10	<0.1	0.1	0.5	11	0.17	0.062
118788	Soil	0.3	10.4	6.6	8	0.1	5.6	3.2	66	0.44	1.7	0.8	<0.5	0.3	11	<0.1	<0.1	0.1	6	0.20	0.054
118789	Soil	0.6	13.0	12.2	29	<0.1	6.5	3.4	171	3.36	9.5	0.5	1.7	2.9	4	<0.1	0.3	0.4	20	<0.01	0.087
118790	Soil	0.5	12.9	11.5	26	<0.1	5.6	2.9	145	3.12	8.4	0.5	<0.5	2.4	4	<0.1	0.3	0.4	19	0.01	0.068
118791	Soil	0.1	2.7	1.4	4	<0.1	0.8	0.4	13	0.22	0.7	0.3	<0.5	<0.1	6	<0.1	<0.1	<0.1	5	0.07	0.038
118792	Soil	0.6	16.6	21.8	50	<0.1	14.7	5.7	299	5.22	26.7	0.7	1.4	7.8	5	<0.1	0.3	0.6	27	0.02	0.110
118793	Soil	1.2	16.2	17.2	54	<0.1	17.3	7.3	384	4.16	21.0	0.7	2.6	7.5	4	<0.1	0.4	0.5	28	0.02	0.042
118794	Soil	0.8	37.9	33.7	94	<0.1	31.9	20.6	617	5.44	34.5	1.4	3.3	14.4	5	<0.1	0.5	0.6	17	0.04	0.080
118795	Soil	0.5	16.6	18.2	40	0.1	11.3	5.0	237	3.26	15.7	0.6	0.7	4.0	4	<0.1	0.2	0.3	14	0.02	0.137
118796	Soil	0.5	17.2	12.7	43	<0.1	12.4	6.8	302	2.72	10.2	0.7	<0.5	1.5	4	<0.1	0.2	0.4	16	0.03	0.087
118797	Soil	0.5	32.8	17.2	79	0.1	26.2	11.5	460	4.21	21.0	1.0	12.8	7.2	4	<0.1	0.3	0.5	19	0.03	0.075
118798	Soil	0.9	22.6	28.6	52	<0.1	17.1	7.8	369	3.20	8.9	0.8	1.7	2.7	5	<0.1	0.2	0.6	17	0.05	0.088
118799	Soil	0.9	73.8	15.3	44	<0.1	14.7	6.6	275	4.21	17.8	0.9	0.8	2.6	7	<0.1	0.3	0.6	26	0.02	0.089
120907	Soil	1.2	49.8	33.8	134	0.3	39.9	20.8	706	3.96	38.7	6.2	3.6	7.9	9	0.1	0.2	1.0	15	0.16	0.076
120908	Soil	1.0	23.2	20.7	72	0.3	20.8	9.6	467	5.52	28.0	0.9	2.2	7.8	4	<0.1	0.4	0.7	21	0.02	0.077
120909	Soil	0.8	23.7	8.0	53	<0.1	9.8	4.3	308	7.40	5.2	0.7	1.5	5.3	3	<0.1	0.3	1.4	26	0.01	0.189
120910	Soil	0.5	33.8	27.6	98	0.2	32.5	16.2	558	4.32	53.8	1.1	22.3	11.4	4	0.1	0.2	0.7	17	0.02	0.044
120911	Soil	0.8	32.6	28.0	99	0.1	29.5	15.7	552	5.06	42.3	1.3	7.4	9.5	5	<0.1	0.3	0.8	18	0.02	0.076
120912	Soil	0.3	20.9	17.1	92	<0.1	27.8	13.3	509	4.38	13.6	0.8	2.7	10.5	3	<0.1	0.2	0.5	16	0.04	0.041
120913	Soil	1.9	40.0	17.7	85	<0.1	22.3	10.5	416	6.66	17.8	1.3	3.1	7.3	6	<0.1	0.6	1.0	29	0.03	0.112
120914	Soil	0.7	13.9	15.2	28	<0.1	7.3	3.0	131	2.93	10.3	0.6	0.7	0.7	5	<0.1	0.3	0.4	22	0.02	0.129
120915	Soil	0.6	13.2	13.8	27	0.1	6.7	3.1	207	2.96	11.2	0.6	<0.5	1.1	4	0.2	0.3	0.3	18	0.01	0.078
120916	Soil	0.6	7.3	12.9	27	<0.1	6.8	3.4	471	2.73	8.0	0.4	<0.5	1.0	4	<0.1	0.3	0.4	21	0.02	0.142
120917	Soil	0.9	25.6	23.9	71	0.2	20.9	11.0	459	4.86	21.8	0.9	2.3	10.0	5	<0.1	0.3	0.5	20	0.03	0.083
120918	Soil	1.0	23.2	23.7	49	0.1	12.1	6.3	421	3.88	11.7	1.0	<0.5	5.6	5	<0.1	0.2	0.4	17	0.02	0.133
120919	Soil	1.6	28.4	18.0	68	0.1	19.0	7.8	452	6.63	16.2	1.4	<0.5	10.0	5	<0.1	0.4	0.7	28	0.02	0.149
120920	Soil	0.3	11.1	5.2	23	0.1	7.4	3.7	125	1.68	4.6	0.4	<0.5	0.5	4	<0.1	0.1	0.3	12	0.02	0.066
120921	Soil	0.3	28.6	8.6	101	<0.1	36.4	19.1	434	3.99	9.4	1.8	<0.5	17.2	3	<0.1	0.2	0.6	30	0.05	0.053
120922	Soil	0.7	15.0	11.8	36	<0.1	13.1	6.0	196	2.18	4.2	0.8	<0.5	0.9	5	<0.1	0.2	0.4	17	0.03	0.072
120923	Soil	0.4	34.8	15.5	110	0.3	33.3	29.6	1327	4.59	8.9	1.1	<0.5	10.0	4	<0.1	0.2	0.7	25	0.02	0.062



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118787	Soil	23	11	0.24	25	0.010	<1	1.25	0.020	0.03	0.2	0.01	0.8	<0.1	<0.05	4	0.8	<0.2
118788	Soil	33	2	0.04	17	0.014	<1	0.60	0.028	0.02	<0.1	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
118789	Soil	17	14	0.15	15	0.014	<1	0.85	0.008	0.02	0.2	0.02	0.5	<0.1	<0.05	6	<0.5	<0.2
118790	Soil	14	13	0.15	17	0.014	<1	0.90	0.011	0.02	0.3	0.03	0.5	<0.1	<0.05	6	0.7	<0.2
118791	Soil	3	1	0.02	11	0.015	<1	0.55	0.021	0.03	<0.1	<0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
118792	Soil	20	24	0.36	24	0.009	<1	1.56	0.006	0.03	0.1	0.02	1.1	<0.1	<0.05	8	0.7	<0.2
118793	Soil	29	24	0.45	27	0.009	1	1.68	0.004	0.02	0.2	0.02	1.1	<0.1	<0.05	8	0.5	<0.2
118794	Soil	31	33	0.76	13	0.006	<1	2.44	0.004	0.02	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
118795	Soil	13	18	0.30	17	0.007	<1	1.18	0.010	0.02	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
118796	Soil	17	16	0.33	20	0.008	<1	1.15	0.011	0.03	<0.1	0.02	0.6	<0.1	<0.05	5	0.5	<0.2
118797	Soil	28	26	0.63	27	0.005	<1	1.83	0.006	0.03	0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
118798	Soil	22	20	0.42	25	0.008	<1	1.37	0.009	0.02	0.1	0.01	0.7	<0.1	<0.05	5	0.6	<0.2
118799	Soil	21	21	0.35	45	0.012	<1	1.34	0.007	0.03	0.1	0.02	0.8	<0.1	<0.05	7	<0.5	<0.2
120907	Soil	60	25	0.63	27	0.004	<1	1.95	0.007	0.03	0.2	0.02	1.4	<0.1	<0.05	5	0.5	<0.2
120908	Soil	22	30	0.58	22	0.010	<1	2.02	0.005	0.03	0.5	0.04	1.4	<0.1	<0.05	7	0.8	<0.2
120909	Soil	34	24	0.27	17	0.013	1	1.31	0.004	0.02	0.2	0.02	0.8	<0.1	<0.05	9	0.8	<0.2
120910	Soil	30	26	0.65	16	0.006	<1	2.05	0.005	0.02	0.4	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
120911	Soil	36	28	0.69	17	0.010	<1	1.93	0.005	0.03	0.3	0.02	1.5	<0.1	<0.05	7	0.8	<0.2
120912	Soil	28	28	0.78	20	0.006	<1	2.12	0.004	0.02	0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
120913	Soil	24	34	0.42	32	0.018	<1	2.19	0.005	0.03	0.2	0.06	1.3	<0.1	<0.05	8	1.5	<0.2
120914	Soil	18	14	0.14	22	0.010	<1	0.86	0.009	0.02	0.1	0.02	0.4	<0.1	<0.05	6	<0.5	<0.2
120915	Soil	11	13	0.15	24	0.008	<1	0.96	0.013	0.02	<0.1	0.02	0.4	<0.1	<0.05	5	0.5	<0.2
120916	Soil	14	12	0.12	21	0.013	<1	0.70	0.014	0.03	0.1	0.03	0.4	<0.1	<0.05	5	<0.5	<0.2
120917	Soil	24	29	0.55	28	0.007	<1	2.06	0.007	0.03	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
120918	Soil	21	23	0.46	28	0.007	1	1.50	0.011	0.03	0.1	0.02	0.9	<0.1	0.07	5	0.6	<0.2
120919	Soil	30	38	0.53	24	0.014	1	1.96	0.005	0.02	0.1	0.02	1.3	<0.1	0.07	8	1.0	<0.2
120920	Soil	10	9	0.16	22	0.006	<1	0.67	0.018	0.02	<0.1	0.03	0.3	<0.1	0.07	3	<0.5	<0.2
120921	Soil	46	32	0.66	21	0.015	<1	1.75	0.008	0.03	0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
120922	Soil	16	16	0.26	22	0.009	2	0.96	0.019	0.03	0.1	<0.01	0.4	<0.1	0.05	4	1.3	<0.2
120923	Soil	32	35	0.63	49	0.015	<1	2.40	0.008	0.03	<0.1	0.04	1.5	<0.1	<0.05	6	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
120924	Soil	0.3	12.0	3.9	15	<0.1	3.3	2.1	55	1.06	2.5	0.4	<0.5	0.5	7	<0.1	0.1	0.1	21	0.06	0.045
130022	Soil	0.7	25.8	31.5	43	<0.1	13.2	4.9	157	2.81	14.2	1.1	<0.5	1.7	9	<0.1	0.4	0.5	16	0.02	0.103
130023	Soil	0.8	21.1	21.9	48	0.1	8.4	3.8	244	4.23	11.6	1.6	<0.5	3.4	7	0.2	0.4	0.5	19	0.02	0.163
130024	Soil	0.8	37.5	48.9	71	0.1	15.9	6.6	546	5.24	26.8	2.1	<0.5	10.8	14	<0.1	0.6	0.9	20	0.02	0.138
130025	Soil	0.6	40.4	23.3	48	0.5	12.2	6.1	198	2.88	22.5	2.6	<0.5	2.3	11	<0.1	0.4	0.4	14	0.03	0.140
130026	Soil	0.8	27.4	29.0	62	0.1	14.1	6.4	377	5.09	21.7	1.8	<0.5	4.5	8	0.1	0.5	0.5	23	0.02	0.138
130027	Soil	0.7	16.8	20.5	39	<0.1	8.7	3.4	275	2.79	12.2	0.9	<0.5	1.3	6	<0.1	0.3	0.4	18	0.02	0.092
130028	Soil	0.8	30.8	32.2	71	0.1	20.1	11.4	416	3.58	25.3	1.9	0.9	5.8	7	<0.1	0.4	0.7	17	0.03	0.095
130029	Soil	1.0	23.3	14.7	60	0.1	15.7	6.9	470	2.68	9.2	1.1	<0.5	6.0	5	<0.1	0.2	0.9	16	0.02	0.108
130030	Soil	1.0	89.2	24.7	91	0.2	26.0	12.6	723	3.86	37.6	1.1	15.4	8.7	3	0.2	0.3	0.8	17	0.02	0.072
130031	Soil	0.8	54.1	14.9	77	0.1	22.4	12.5	542	2.93	30.3	1.2	3.9	4.3	5	<0.1	0.3	0.5	18	0.05	0.060
130032	Soil	0.5	40.0	14.2	117	<0.1	37.9	18.5	574	3.91	15.9	3.7	43.8	17.1	14	<0.1	0.2	0.5	19	0.04	0.040
130033	Soil	0.6	48.1	19.0	77	0.1	22.2	10.4	663	4.01	47.9	2.3	4.1	3.6	8	0.1	0.4	0.8	22	0.02	0.110
130034	Soil	0.3	19.9	9.4	40	<0.1	10.1	6.4	375	1.51	10.9	0.9	1.3	0.6	3	0.1	0.1	0.3	13	0.02	0.080
130035	Soil	0.5	16.7	10.4	34	0.2	9.8	4.7	361	2.28	7.3	0.7	<0.5	2.4	4	0.1	0.2	0.4	20	0.02	0.109
130036	Soil	0.6	49.0	37.4	72	0.3	18.3	13.1	1107	3.44	20.2	1.0	21.5	4.6	4	0.2	0.2	1.1	18	0.02	0.125
130037	Soil	0.8	97.5	71.4	103	0.3	29.4	26.4	1365	3.98	22.4	3.0	<0.5	4.8	11	0.3	0.4	1.0	25	0.08	0.182
130038	Soil	0.6	65.0	74.6	168	0.2	48.1	54.5	3287	4.85	18.9	1.8	11.9	18.3	10	<0.1	0.3	1.7	20	0.10	0.063
130039	Soil	1.0	57.7	25.5	139	0.2	46.9	49.5	1763	4.33	36.6	3.0	6.3	9.0	7	0.2	0.4	1.3	18	0.04	0.099
130040	Soil	0.7	61.2	18.7	146	0.2	49.4	63.9	1538	3.89	38.7	2.2	4.9	8.0	6	0.1	0.2	1.0	17	0.08	0.070
130041	Soil	0.9	31.6	20.9	105	<0.1	32.2	21.9	845	4.39	26.2	1.0	25.9	8.6	4	<0.1	0.3	0.8	24	0.02	0.043
130042	Soil	0.7	14.4	15.2	53	<0.1	13.0	6.1	302	3.57	16.6	0.6	11.8	8.7	3	<0.1	0.3	0.5	27	0.02	0.043
130043	Soil	0.3	4.2	3.8	9	<0.1	1.9	1.2	45	0.61	1.6	0.3	<0.5	0.2	4	<0.1	<0.1	<0.1	11	0.02	0.021
130044	Soil	0.5	9.7	10.0	24	<0.1	5.0	3.1	200	2.41	7.1	0.4	<0.5	1.1	5	<0.1	0.2	0.3	19	0.01	0.069
130045	Soil	0.9	17.3	16.4	33	<0.1	7.7	2.9	197	2.87	11.6	0.8	<0.5	0.9	9	0.1	0.4	0.5	30	0.02	0.072
130046	Soil	<0.1	1.7	1.5	2	<0.1	0.3	0.4	11	0.17	<0.5	0.1	<0.5	<0.1	6	<0.1	<0.1	<0.1	4	0.07	0.032
130047	Soil	0.1	3.6	3.2	5	<0.1	1.3	0.6	15	0.32	0.8	0.2	<0.5	<0.1	4	<0.1	<0.1	<0.1	6	0.02	0.025
130048	Soil	0.6	18.2	17.8	45	<0.1	12.8	5.2	189	3.87	20.7	0.8	1.0	8.4	6	<0.1	0.3	0.4	21	0.02	0.063
130049	Soil	0.3	7.4	5.5	16	0.4	3.8	1.2	43	1.05	3.5	0.4	<0.5	0.2	5	<0.1	0.2	0.2	14	0.03	0.037
130050	Soil	0.5	9.3	16.8	28	<0.1	5.8	2.3	165	2.80	8.8	0.5	<0.5	4.1	5	<0.1	0.3	0.4	21	0.02	0.104



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Project: Culvert
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
120924	Soil	8	6	0.06	23	0.024	<1	0.59	0.020	0.02	0.1	<0.01	0.3	<0.1	<0.05	3	<0.5	<0.2
130022	Soil	16	17	0.26	26	0.004	<1	1.10	0.011	0.03	<0.1	0.03	0.4	<0.1	0.07	5	<0.5	<0.2
130023	Soil	14	25	0.32	23	0.005	<1	1.52	0.006	0.03	0.1	0.08	0.7	<0.1	0.11	6	0.9	<0.2
130024	Soil	28	29	0.60	19	0.005	<1	1.77	0.005	0.03	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
130025	Soil	48	17	0.38	33	0.006	<1	1.90	0.013	0.04	<0.1	0.04	1.0	<0.1	0.07	4	1.3	<0.2
130026	Soil	21	28	0.46	21	0.006	<1	1.53	0.005	0.04	0.2	0.05	1.0	<0.1	0.06	7	0.7	<0.2
130027	Soil	16	17	0.32	17	0.006	1	1.07	0.011	0.03	<0.1	0.02	0.4	<0.1	0.06	5	<0.5	<0.2
130028	Soil	20	21	0.53	21	0.010	<1	1.51	0.010	0.03	0.1	0.03	0.9	<0.1	<0.05	5	0.6	<0.2
130029	Soil	19	24	0.52	19	0.003	<1	1.46	0.005	0.03	<0.1	0.02	0.9	<0.1	<0.05	6	0.5	<0.2
130030	Soil	29	27	0.77	20	0.003	<1	1.89	0.005	0.02	<0.1	0.02	1.1	<0.1	<0.05	6	0.7	<0.2
130031	Soil	24	20	0.56	20	0.011	<1	1.49	0.010	0.03	0.2	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
130032	Soil	38	25	0.59	22	0.001	<1	1.80	0.005	0.03	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
130033	Soil	30	25	0.54	26	0.004	<1	1.78	0.007	0.04	<0.1	0.03	0.8	<0.1	0.05	6	0.7	<0.2
130034	Soil	11	10	0.19	16	0.004	<1	0.86	0.014	0.02	<0.1	0.03	0.2	<0.1	<0.05	3	0.6	<0.2
130035	Soil	24	15	0.22	28	0.005	3	0.84	0.007	0.02	<0.1	0.03	0.3	<0.1	<0.05	5	0.6	<0.2
130036	Soil	27	21	0.49	26	0.004	<1	1.55	0.008	0.02	0.1	0.05	0.6	<0.1	<0.05	5	<0.5	<0.2
130037	Soil	47	25	0.59	49	0.005	<1	1.96	0.006	0.03	<0.1	0.01	1.1	<0.1	<0.05	7	0.7	<0.2
130038	Soil	40	30	0.86	46	0.001	<1	2.43	0.004	0.03	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
130039	Soil	32	22	0.55	33	0.005	<1	1.73	0.007	0.03	0.6	0.03	1.4	<0.1	<0.05	6	0.8	<0.2
130040	Soil	30	23	0.66	28	0.004	<1	1.90	0.008	0.04	0.1	0.02	1.4	<0.1	<0.05	6	0.7	<0.2
130041	Soil	32	29	0.79	32	0.009	<1	2.16	0.004	0.03	0.3	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
130042	Soil	30	18	0.35	20	0.004	<1	1.34	0.006	0.03	0.2	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
130043	Soil	3	3	0.06	8	0.012	<1	0.45	0.021	0.02	<0.1	0.01	0.3	<0.1	<0.05	2	0.8	<0.2
130044	Soil	11	11	0.15	21	0.007	<1	0.81	0.012	0.02	<0.1	<0.01	0.5	<0.1	<0.05	5	<0.5	<0.2
130045	Soil	19	16	0.12	54	0.011	<1	1.05	0.008	0.02	<0.1	0.04	0.3	<0.1	<0.05	7	<0.5	<0.2
130046	Soil	1	<1	0.02	9	0.013	<1	0.44	0.022	0.02	<0.1	<0.01	0.1	<0.1	<0.05	2	<0.5	<0.2
130047	Soil	3	2	0.02	12	0.003	<1	0.25	0.022	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	2	<0.5	<0.2
130048	Soil	24	19	0.35	26	0.009	<1	1.30	0.004	0.02	0.1	<0.01	0.8	<0.1	<0.05	6	1.0	<0.2
130049	Soil	7	5	0.04	18	0.007	<1	0.64	0.017	0.02	<0.1	0.01	0.2	<0.1	<0.05	4	1.1	<0.2
130050	Soil	16	10	0.15	24	0.009	<1	0.71	0.007	0.02	<0.1	0.01	0.4	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
130051	Soil	0.8	19.8	24.3	53	<0.1	14.7	5.6	269	5.78	19.9	0.9	33.0	9.6	5	<0.1	0.5	0.7	29	0.01	0.181
130052	Soil	0.8	29.7	25.4	86	0.3	28.8	11.8	379	5.08	22.7	1.2	25.3	12.8	6	<0.1	0.5	0.6	23	0.03	0.098
130053	Soil	<0.1	1.4	1.2	4	<0.1	0.7	0.5	10	0.20	<0.5	0.2	<0.5	<0.1	5	<0.1	<0.1	<0.1	6	0.02	0.014
130054	Soil	0.2	3.7	3.9	10	<0.1	1.7	1.2	179	0.75	1.3	0.2	<0.5	0.5	4	<0.1	<0.1	<0.1	9	0.02	0.022
130055	Soil	0.9	34.2	18.0	81	0.2	25.5	12.1	551	6.77	46.1	1.0	1.6	11.2	4	<0.1	0.4	0.7	21	0.01	0.113
130056	Soil	0.7	29.7	20.6	89	0.1	28.9	15.4	456	5.85	42.5	0.9	<0.5	13.7	4	<0.1	0.4	0.5	21	0.02	0.079
130057	Soil	0.9	17.6	25.1	52	0.1	13.2	6.6	436	4.56	60.0	0.8	109.0	7.4	7	<0.1	0.4	0.7	32	0.02	0.145
118818	Soil	1.0	47.6	22.6	100	0.3	29.4	23.4	1430	5.07	29.0	2.0	12.1	6.5	5	0.1	0.4	1.1	22	0.02	0.131
118819	Soil	0.7	93.5	35.8	185	0.1	59.2	49.5	470	7.65	19.0	4.7	2.1	24.4	5	<0.1	0.4	1.1	21	0.03	0.094
118820	Soil	4.2	178.7	141.1	130	0.4	29.9	11.2	433	7.87	31.1	5.3	2.9	25.2	19	<0.1	1.2	6.7	15	0.02	0.118
118821	Soil	0.4	12.5	7.2	16	<0.1	3.7	1.9	71	1.20	1.8	0.5	<0.5	0.4	8	<0.1	0.1	0.2	18	0.03	0.040
118822	Soil	0.2	4.3	3.4	7	<0.1	1.8	1.0	45	0.61	1.0	0.3	<0.5	0.1	4	<0.1	<0.1	0.1	6	0.02	0.031
118823	Soil	0.8	39.7	38.2	77	<0.1	35.5	27.1	494	4.40	10.2	1.4	<0.5	13.9	7	0.1	0.4	0.5	18	0.03	0.054
118824	Soil	0.5	13.2	13.6	47	<0.1	14.9	8.1	272	2.91	7.9	0.6	1.8	7.0	3	<0.1	0.2	0.3	15	0.01	0.038
118825	Soil	0.3	3.6	4.4	10	<0.1	2.1	1.0	37	0.80	1.6	0.3	<0.5	0.2	4	<0.1	<0.1	0.1	11	0.02	0.037
118826	Soil	0.6	9.0	14.4	33	<0.1	8.2	4.0	150	4.23	7.9	0.5	<0.5	2.4	5	<0.1	0.2	0.4	33	0.02	0.123
118827	Soil	0.4	5.6	9.1	14	<0.1	4.7	2.0	62	1.22	3.8	0.4	<0.5	0.4	7	<0.1	0.2	0.2	14	0.07	0.024
118828	Soil	0.2	6.5	4.8	9	0.1	1.8	0.8	26	0.70	1.7	0.3	<0.5	0.4	4	<0.1	0.1	0.2	10	0.02	0.045
118829	Soil	2.0	96.0	19.6	87	<0.1	31.0	13.2	307	4.35	15.3	1.4	1.7	1.6	8	<0.1	0.4	0.5	37	0.06	0.053
118830	Soil	0.1	2.0	1.3	5	<0.1	0.7	0.5	15	0.27	<0.5	0.1	<0.5	<0.1	7	<0.1	<0.1	<0.1	6	0.03	0.021
118831	Soil	0.5	15.2	12.4	40	0.3	11.7	5.3	249	2.99	12.0	0.7	<0.5	3.8	5	<0.1	0.2	0.4	15	0.02	0.075
118832	Soil	0.5	8.7	8.5	26	<0.1	6.4	3.6	286	2.11	4.8	0.5	<0.5	1.7	4	<0.1	0.2	0.4	18	0.02	0.096
118833	Soil	0.5	21.4	7.0	36	0.1	15.4	5.6	183	3.03	2.8	1.1	4.6	1.5	6	0.1	0.2	0.7	21	0.02	0.124
118834	Soil	0.6	25.5	11.0	63	0.2	20.8	9.5	508	4.69	13.2	1.3	<0.5	5.0	4	<0.1	0.2	1.1	22	0.02	0.139
118800	Soil	0.3	8.1	9.4	19	<0.1	4.7	1.9	87	1.07	2.4	0.4	<0.5	0.4	6	<0.1	0.2	0.2	8	0.03	0.049
118801	Soil	0.8	19.8	22.2	32	<0.1	7.0	3.1	139	2.61	9.6	0.8	<0.5	0.7	9	0.1	0.5	0.4	18	0.02	0.122
118802	Soil	1.0	25.9	29.8	58	0.1	15.8	8.1	472	5.15	16.1	1.2	<0.5	1.8	9	0.2	0.6	0.6	23	0.02	0.175
118803	Soil	0.5	29.6	19.8	72	<0.1	32.4	21.9	415	2.68	14.8	1.5	0.5	2.1	6	0.1	0.4	0.4	15	0.02	0.058
118804	Soil	1.8	53.0	75.2	145	0.2	56.9	54.6	1190	5.37	60.4	4.0	3.5	15.4	16	0.3	0.6	1.1	17	0.02	0.106
118805	Soil	0.6	45.0	46.1	160	0.2	50.4	38.7	820	4.51	52.9	1.6	9.1	10.9	4	0.2	0.3	0.8	14	0.04	0.084



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130051	Soil	23	25	0.35	20	0.013	<1	1.44	0.006	0.02	0.1	0.02	1.0	<0.1	<0.05	9	<0.5	<0.2
130052	Soil	32	30	0.55	24	0.009	1	2.09	0.003	0.02	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
130053	Soil	<1	1	0.01	7	0.005	<1	0.12	0.019	0.02	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2
130054	Soil	3	4	0.04	11	0.016	<1	0.55	0.026	0.02	<0.1	0.03	0.5	<0.1	<0.05	2	<0.5	<0.2
130055	Soil	29	35	0.60	21	0.010	<1	2.09	0.005	0.02	0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
130056	Soil	27	36	0.70	23	0.007	2	2.22	0.004	0.02	0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
130057	Soil	23	20	0.29	33	0.012	<1	1.32	0.006	0.03	0.2	0.02	1.0	<0.1	<0.05	8	<0.5	<0.2
118818	Soil	39	30	0.54	33	0.006	17	1.87	0.004	0.03	0.3	0.03	1.1	<0.1	<0.05	7	<0.5	<0.2
118819	Soil	84	32	0.42	22	0.002	<1	2.04	0.005	0.04	0.2	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
118820	Soil	55	24	0.40	44	0.007	<1	2.00	0.013	0.03	0.3	0.02	1.4	<0.1	0.09	7	<0.5	0.2
118821	Soil	7	8	0.11	23	0.017	<1	0.72	0.023	0.02	<0.1	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2
118822	Soil	3	4	0.05	10	0.008	<1	0.50	0.026	0.02	<0.1	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
118823	Soil	24	26	0.48	40	0.012	8	2.06	0.005	0.04	0.1	0.05	1.4	<0.1	<0.05	5	<0.5	<0.2
118824	Soil	22	20	0.37	20	0.008	<1	1.44	0.012	0.02	0.1	0.03	1.0	<0.1	<0.05	4	<0.5	<0.2
118825	Soil	6	5	0.05	15	0.007	<1	0.43	0.021	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
118826	Soil	19	17	0.25	23	0.011	<1	1.13	0.008	0.02	0.2	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
118827	Soil	12	6	0.08	28	0.008	<1	0.45	0.013	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
118828	Soil	8	3	0.02	15	0.005	<1	0.28	0.018	0.02	<0.1	0.03	0.2	<0.1	<0.05	2	<0.5	<0.2
118829	Soil	28	31	0.51	45	0.024	<1	1.67	0.007	0.04	0.2	0.02	1.0	0.1	<0.05	7	0.7	<0.2
118830	Soil	<1	1	0.02	10	0.017	<1	0.16	0.031	0.02	<0.1	0.02	0.3	<0.1	<0.05	1	<0.5	<0.2
118831	Soil	17	19	0.27	26	0.009	<1	1.41	0.023	0.03	<0.1	0.04	0.9	<0.1	<0.05	4	<0.5	<0.2
118832	Soil	18	10	0.12	24	0.015	<1	0.56	0.014	0.03	0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
118833	Soil	27	15	0.12	29	0.006	<1	0.73	0.013	0.03	<0.1	0.03	0.3	<0.1	<0.05	4	<0.5	<0.2
118834	Soil	30	26	0.42	31	0.017	<1	1.46	0.009	0.03	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
118800	Soil	7	8	0.15	13	0.007	<1	0.56	0.019	0.03	<0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
118801	Soil	18	15	0.16	33	0.005	<1	1.03	0.012	0.03	<0.1	0.04	0.3	<0.1	0.05	4	0.5	<0.2
118802	Soil	23	31	0.31	26	0.008	<1	1.39	0.005	0.04	<0.1	0.07	0.5	<0.1	0.11	7	<0.5	<0.2
118803	Soil	21	16	0.29	19	0.008	<1	1.16	0.012	0.02	<0.1	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2
118804	Soil	33	29	0.61	28	0.006	<1	1.99	0.005	0.03	0.1	0.03	1.4	<0.1	<0.05	6	0.6	<0.2
118805	Soil	33	30	0.71	19	0.002	<1	2.14	0.003	0.03	0.1	0.04	1.3	<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		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
118806	Soil																							
118807	Soil																							
118808	Soil																							
118809	Soil																							
118810	Soil																							
118811	Soil																							
118812	Soil																							
118813	Soil																							
118814	Soil																							
118815	Soil																							
118816	Soil																							
118817	Soil																							
120925	Soil																							
120926	Soil																							
120927	Soil																							
120928	Soil																							
120929	Soil																							
120930	Soil																							
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120935	Soil																							
120936	Soil																							
120937	Soil																							
120938	Soil																							
120939	Soil																							
120940	Soil																							
120941	Soil																							
120942	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118806	Soil	42	29	0.79	57	0.007	<1	2.13	0.004	0.03	0.2	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
118807	Soil	32	24	0.64	41	0.002	<1	1.82	0.006	0.04	0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
118808	Soil	32	22	0.53	27	0.007	<1	1.58	0.011	0.04	0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
118809	Soil	32	27	0.56	37	0.005	<1	1.83	0.006	0.04	0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
118810	Soil	32	24	0.55	45	0.005	<1	1.86	0.007	0.04	2.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
118811	Soil	27	25	0.54	38	0.006	<1	1.74	0.004	0.03	0.5	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
118812	Soil	38	33	0.72	40	0.008	<1	2.37	0.007	0.04	0.5	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
118813	Soil	32	27	0.42	33	0.006	<1	1.43	0.007	0.04	0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2
118814	Soil	30	29	0.47	34	0.010	<1	1.70	0.008	0.03	0.2	0.03	1.1	<0.1	<0.05	7	<0.5	<0.2
118815	Soil	46	31	0.45	20	0.002	<1	2.02	0.006	0.04	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
118816	Soil	42	34	0.84	18	0.003	<1	2.37	0.004	0.02	0.1	0.01	1.5	<0.1	<0.05	7	<0.5	<0.2
118817	Soil	19	18	0.37	25	0.008	<1	1.50	0.016	0.02	0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
120925	Soil	16	10	0.15	17	0.007	<1	0.85	0.016	0.03	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
120926	Soil	37	23	0.55	16	0.005	<1	1.60	0.010	0.03	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
120927	Soil	21	19	0.29	22	0.006	<1	1.08	0.011	0.03	<0.1	0.04	0.5	<0.1	<0.05	4	<0.5	<0.2
120928	Soil	27	25	0.55	28	0.002	3	1.90	0.005	0.02	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
120929	Soil	20	25	0.27	23	0.006	1	1.07	0.009	0.04	<0.1	0.05	0.6	<0.1	0.13	6	1.1	<0.2
120930	Soil	3	3	0.03	16	0.005	<1	0.40	0.027	0.02	<0.1	<0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
120931	Soil	30	29	0.73	29	0.006	<1	2.13	0.004	0.03	0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
120932	Soil	27	31	0.75	16	0.005	<1	2.09	0.005	0.03	0.3	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
120933	Soil	32	26	0.67	22	0.012	<1	1.82	0.010	0.03	0.2	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
120934	Soil	25	23	0.49	24	0.019	<1	1.60	0.009	0.04	0.1	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
120935	Soil	43	30	0.71	29	0.003	<1	2.29	0.004	0.04	0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
120936	Soil	37	26	0.52	25	0.005	<1	1.86	0.004	0.03	0.4	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
120937	Soil	49	30	0.81	19	0.003	<1	2.24	0.004	0.03	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
120938	Soil	23	26	0.49	58	0.006	<1	1.66	0.006	0.03	1.2	0.07	0.9	<0.1	0.09	6	<0.5	<0.2
120939	Soil	31	27	0.73	14	0.008	<1	2.09	0.004	0.02	0.4	0.02	2.4	<0.1	<0.05	9	0.6	<0.2
120940	Soil	29	29	0.51	24	0.006	<1	1.78	0.004	0.03	0.2	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
120941	Soil	35	30	0.74	32	0.019	2	2.31	0.005	0.03	0.2	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
120942	Soil	41	32	0.74	33	0.005	<1	2.26	0.009	0.04	0.3	0.01	1.9	<0.1	<0.05	7	<0.5	0.2



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					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
120943	Soil																							
120944	Soil																							
121894	Soil																							
121895	Soil																							
121896	Soil																							
121897	Soil																							
121898	Soil																							
121899	Soil																							
121900	Soil																							
121901	Soil																							
121902	Soil																							
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121906	Soil																							
121907	Soil																							
121908	Soil																							
121909	Soil																							
121910	Soil																							
121911	Soil																							
121912	Soil																							
121913	Soil																							
121914	Soil																							
121915	Soil																							
121916	Soil																							
121917	Soil																							
121918	Soil																							
121919	Soil																							
121920	Soil																							
121921	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
120943	Soil	29	29	0.61	20	0.003	<1	1.90	0.005	0.03	0.4	0.05	1.3	<0.1	<0.05	6	<0.5	<0.2
120944	Soil	35	32	0.71	22	0.006	<1	2.11	0.007	0.03	0.3	0.02	2.1	<0.1	<0.05	6	0.5	<0.2
121894	Soil	27	35	0.69	21	0.009	<1	2.05	0.005	0.04	<0.1	0.01	1.1	<0.1	<0.05	7	<0.5	<0.2
121895	Soil	25	25	0.53	25	0.005	<1	1.72	0.007	0.02	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
121896	Soil	11	7	0.17	16	0.012	3	0.61	0.017	0.03	<0.1	<0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
121897	Soil	32	29	0.63	26	0.012	2	2.12	0.007	0.05	<0.1	0.01	2.2	<0.1	<0.05	6	0.7	<0.2
121898	Soil	19	25	0.60	19	0.007	<1	1.76	0.009	0.03	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
121899	Soil	19	21	0.23	17	0.005	<1	1.01	0.005	0.03	0.1	0.06	0.3	<0.1	0.08	6	0.5	<0.2
121900	Soil	19	22	0.45	27	0.012	<1	1.39	0.009	0.04	0.2	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
121901	Soil	33	28	0.74	51	0.005	<1	2.02	0.005	0.03	0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
121902	Soil	25	29	0.73	25	0.006	<1	1.91	0.005	0.02	0.1	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
121903	Soil	27	30	0.82	27	0.008	<1	2.05	0.004	0.03	0.2	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
121904	Soil	24	23	0.31	27	0.007	<1	1.22	0.005	0.04	0.1	0.09	0.8	<0.1	0.09	6	<0.5	<0.2
121905	Soil	30	25	0.64	19	0.004	<1	1.93	0.007	0.02	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
121906	Soil	22	17	0.34	25	0.007	<1	1.42	0.010	0.03	0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
121907	Soil	16	12	0.31	27	0.012	<1	1.07	0.017	0.04	0.2	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
121908	Soil	16	16	0.13	20	0.007	<1	0.93	0.007	0.02	0.2	0.05	0.8	<0.1	<0.05	6	<0.5	<0.2
121909	Soil	27	29	0.85	43	0.004	<1	2.42	0.008	0.03	0.1	0.14	3.1	<0.1	<0.05	7	<0.5	<0.2
121910	Soil	40	28	0.74	37	0.004	<1	2.31	0.005	0.04	0.3	0.06	2.5	<0.1	<0.05	6	<0.5	<0.2
121911	Soil	36	29	0.70	25	0.011	<1	2.18	0.004	0.03	0.3	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
121912	Soil	35	34	0.84	28	0.004	2	2.46	0.008	0.04	0.2	0.03	3.6	<0.1	<0.05	7	<0.5	0.2
121913	Soil	35	30	0.75	35	0.003	<1	2.32	0.013	0.05	0.2	0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
121914	Soil	25	33	0.69	37	0.007	<1	2.47	0.005	0.04	0.2	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
121915	Soil	29	33	0.76	27	0.008	<1	2.48	0.005	0.03	0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2
121916	Soil	23	31	0.82	22	0.007	<1	2.42	0.004	0.02	0.2	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
121917	Soil	29	24	0.57	19	0.007	<1	1.79	0.008	0.03	0.4	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
121918	Soil	7	7	0.09	21	0.007	<1	0.48	0.021	0.03	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
121919	Soil	24	24	0.52	23	0.008	<1	1.58	0.008	0.04	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
121920	Soil	11	18	0.38	18	0.008	<1	1.43	0.014	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
121921	Soil	24	24	0.28	37	0.029	<1	1.76	0.006	0.04	0.2	0.05	1.4	<0.1	<0.05	8	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
121922	Soil	0.9	34.4	32.0	101	<0.1	37.5	12.4	474	7.10	17.3	0.9	<0.5	14.6	4	<0.1	0.5	1.7	30	0.02	0.093
121923	Soil	0.7	12.2	14.9	33	<0.1	8.3	3.3	197	5.01	15.0	0.5	<0.5	4.4	4	<0.1	0.4	0.4	35	0.01	0.139
121924	Soil	0.5	10.8	10.4	27	<0.1	9.1	3.9	106	2.35	8.5	0.4	<0.5	1.8	5	<0.1	0.2	0.2	25	0.02	0.052
121925	Soil	0.7	16.7	21.5	54	<0.1	13.1	8.9	714	5.35	17.2	0.8	<0.5	8.0	5	<0.1	0.5	0.5	30	0.02	0.104
121926	Soil	0.9	12.3	23.5	36	0.1	9.1	3.8	206	3.49	10.3	0.7	<0.5	3.9	6	0.4	0.3	0.4	25	0.02	0.078
121927	Soil	0.9	26.8	28.9	77	0.2	23.7	14.8	553	5.24	18.2	1.0	<0.5	10.8	6	<0.1	0.4	0.7	25	0.02	0.132
121928	Soil	1.0	41.1	20.3	99	<0.1	33.9	16.5	523	5.14	24.8	1.2	0.6	14.2	6	<0.1	0.3	0.7	25	0.02	0.047
121929	Soil	0.9	15.1	32.9	36	0.1	12.7	4.7	211	3.28	18.8	0.6	<0.5	1.4	4	<0.1	0.2	0.5	20	0.01	0.104
121930	Soil	0.8	30.2	19.8	89	0.1	29.0	13.8	516	4.93	34.7	1.2	19.6	11.2	4	0.1	0.2	0.5	20	0.02	0.054
121931	Soil	0.4	18.7	18.5	79	0.1	23.4	11.7	535	4.60	19.4	0.7	1.3	9.7	4	0.2	0.2	0.6	23	0.02	0.099
121932	Soil	0.5	23.8	29.7	88	0.1	26.0	12.1	466	5.08	23.4	0.9	3.0	12.9	6	0.1	0.3	0.7	25	0.02	0.082
120945	Soil	1.3	69.1	33.1	101	0.1	33.1	27.4	736	5.49	23.7	2.7	2.3	16.9	7	<0.1	0.5	0.9	19	0.02	0.117
120946	Soil	0.7	13.9	12.2	28	<0.1	7.5	3.4	163	2.40	8.9	0.6	10.7	0.8	5	<0.1	0.3	0.4	23	0.02	0.081
120947	Soil	1.0	32.9	24.4	81	0.2	20.3	8.9	439	5.28	25.7	1.3	<0.5	9.1	6	<0.1	0.4	1.1	29	0.02	0.093
120948	Soil	0.3	10.1	8.0	12	0.1	3.0	2.0	183	0.95	1.8	0.4	<0.5	0.5	5	<0.1	<0.1	0.2	8	0.02	0.057
120949	Soil	0.6	22.5	17.5	78	0.1	28.0	14.2	547	4.93	7.3	0.8	<0.5	12.4	3	<0.1	0.2	0.5	21	0.01	0.028
120950	Soil	1.1	13.9	16.2	25	<0.1	5.7	2.1	114	3.32	11.3	0.5	<0.5	2.0	6	<0.1	0.4	0.4	21	0.02	0.096
120951	Soil	0.5	14.1	13.5	61	<0.1	19.1	9.0	375	4.71	8.6	0.6	0.9	10.1	3	<0.1	0.2	0.4	22	0.01	0.050
120952	Soil	1.1	31.2	26.6	51	<0.1	11.9	4.8	273	4.69	14.6	1.7	<0.5	5.5	6	<0.1	0.5	0.8	27	0.02	0.081
120953	Soil	1.3	27.7	31.2	58	0.1	14.2	6.6	401	5.39	15.3	1.2	<0.5	4.3	5	<0.1	0.5	0.7	25	0.01	0.164
120954	Soil	1.0	22.9	25.5	65	<0.1	18.9	7.3	289	7.35	27.8	0.9	1.1	8.2	4	<0.1	0.6	0.7	38	0.02	0.162
120955	Soil	1.0	22.6	29.1	55	<0.1	14.7	6.9	301	8.09	25.7	0.8	<0.5	8.6	5	<0.1	0.6	0.6	44	0.02	0.291
120956	Soil	0.6	15.8	18.6	38	<0.1	9.0	4.0	300	4.59	13.1	0.7	<0.5	5.1	6	<0.1	0.3	0.5	27	0.02	0.127
120957	Soil	0.5	8.2	11.9	31	0.1	5.3	3.4	348	3.05	7.8	0.4	<0.5	1.6	4	<0.1	0.2	0.3	20	0.02	0.141
120958	Soil	0.8	21.3	21.9	70	0.2	17.6	8.4	482	5.51	14.7	0.9	1.4	6.9	6	<0.1	0.3	0.6	27	0.02	0.242
120959	Soil	0.5	19.5	5.2	42	0.6	15.1	7.2	322	2.67	3.0	0.8	0.9	2.3	5	<0.1	0.1	0.2	12	0.03	0.097
120960	Soil	0.7	23.7	7.0	57	<0.1	23.8	9.6	298	4.15	6.3	1.0	0.5	4.5	5	<0.1	0.2	0.5	18	0.01	0.070
120961	Soil	0.7	41.5	17.5	98	<0.1	26.3	14.4	667	5.36	18.3	1.5	1.2	19.1	5	<0.1	0.2	0.7	18	0.02	0.063
120962	Soil	1.0	37.6	20.8	90	<0.1	22.7	13.0	708	5.96	19.0	1.6	1.4	19.3	7	<0.1	0.2	0.8	20	0.02	0.093
120963	Soil	2.0	203.8	16.4	139	0.3	53.3	67.9	784	3.07	18.0	10.8	0.7	3.1	28	<0.1	0.2	0.6	13	0.60	0.162



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
121922	Soil	16	41	0.77	18	0.007	<1	2.56	0.005	0.03	0.1	0.04	2.3	<0.1	<0.05	9	<0.5	<0.2
121923	Soil	15	18	0.16	20	0.025	<1	0.97	0.009	0.02	0.2	0.02	0.9	<0.1	<0.05	10	<0.5	<0.2
121924	Soil	12	12	0.14	22	0.019	<1	0.75	0.015	0.04	0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
121925	Soil	19	26	0.36	30	0.015	<1	1.69	0.008	0.04	0.2	0.03	1.4	<0.1	<0.05	8	<0.5	<0.2
121926	Soil	16	17	0.22	24	0.023	<1	1.04	0.014	0.03	0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
121927	Soil	28	29	0.52	25	0.012	<1	2.02	0.006	0.03	0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
121928	Soil	36	37	0.74	49	0.011	2	2.56	0.023	0.11	0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
121929	Soil	18	19	0.24	22	0.014	<1	1.10	0.016	0.03	0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
121930	Soil	34	32	0.82	21	0.009	<1	2.32	0.007	0.03	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
121931	Soil	35	27	0.56	31	0.006	<1	1.95	0.010	0.04	0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
121932	Soil	30	32	0.68	36	0.009	<1	2.23	0.010	0.06	0.2	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
120945	Soil	46	27	0.66	19	0.007	<1	1.99	0.006	0.04	0.2	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
120946	Soil	14	13	0.10	26	0.009	2	0.70	0.011	0.03	0.3	0.03	0.5	<0.1	<0.05	5	<0.5	<0.2
120947	Soil	23	28	0.46	34	0.011	<1	1.75	0.006	0.03	0.3	0.04	1.6	<0.1	<0.05	8	<0.5	<0.2
120948	Soil	5	5	0.07	18	0.007	<1	0.65	0.028	0.03	<0.1	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
120949	Soil	28	34	0.81	30	0.008	1	2.65	0.008	0.06	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
120950	Soil	11	12	0.12	19	0.015	<1	0.62	0.010	0.03	0.1	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
120951	Soil	26	24	0.51	21	0.012	3	1.69	0.003	0.03	0.2	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
120952	Soil	27	27	0.32	25	0.012	<1	1.66	0.010	0.03	0.2	0.03	1.2	<0.1	<0.05	7	0.6	<0.2
120953	Soil	43	33	0.45	24	0.007	<1	1.63	0.003	0.03	0.1	<0.01	1.1	<0.1	<0.05	7	0.9	<0.2
120954	Soil	22	32	0.41	19	0.014	<1	1.84	0.004	0.03	0.2	0.04	1.4	<0.1	<0.05	10	0.7	<0.2
120955	Soil	21	28	0.32	31	0.020	<1	1.74	0.006	0.03	0.4	0.02	1.5	<0.1	<0.05	13	<0.5	<0.2
120956	Soil	16	21	0.22	30	0.013	<1	1.50	0.011	0.03	0.1	0.03	1.0	<0.1	<0.05	9	<0.5	<0.2
120957	Soil	10	12	0.14	19	0.015	<1	0.93	0.011	0.02	0.1	0.04	0.5	<0.1	<0.05	5	<0.5	<0.2
120958	Soil	32	25	0.40	31	0.011	<1	1.76	0.005	0.02	0.1	0.04	1.2	<0.1	<0.05	8	<0.5	<0.2
120959	Soil	19	12	0.20	27	0.013	<1	1.03	0.016	0.02	<0.1	0.03	0.8	<0.1	<0.05	4	<0.5	<0.2
120960	Soil	35	23	0.41	26	0.008	<1	1.45	0.009	0.02	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
120961	Soil	46	36	0.89	23	0.005	<1	2.46	0.004	0.03	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
120962	Soil	53	38	0.85	23	0.006	<1	2.46	0.005	0.03	<0.1	0.01	2.3	<0.1	<0.05	8	0.5	<0.2
120963	Soil	54	20	0.40	89	0.005	<1	1.72	0.011	0.03	<0.1	0.03	1.1	<0.1	0.06	5	1.6	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
120964	Soil	0.8	72.5	101.1	108	0.2	32.5	19.1	568	5.66	74.2	3.3	0.5	21.4	14	<0.1	0.6	1.2	15	0.03	0.091
120965	Soil	1.1	89.5	59.4	102	0.2	39.3	35.3	832	4.54	47.0	3.8	1.2	15.5	12	<0.1	0.9	1.2	17	0.06	0.109
120966	Soil	1.2	106.2	94.0	128	0.2	62.8	129.3	1316	5.52	48.9	3.4	1.2	17.0	13	<0.1	1.1	1.3	17	0.05	0.110
120967	Soil	1.3	98.0	79.2	120	0.2	57.2	87.9	1566	4.19	30.7	3.5	13.8	11.0	6	<0.1	0.7	1.0	16	0.04	0.086
120968	Soil	1.0	68.0	66.5	105	0.2	47.4	58.6	1446	4.47	28.5	2.7	1.1	10.3	7	0.1	0.7	0.9	19	0.05	0.077
120969	Soil	0.3	39.5	33.4	100	0.1	32.3	23.1	894	3.86	10.8	1.7	3.7	13.9	6	<0.1	0.2	0.6	15	0.08	0.054
120970	Soil	0.4	10.2	6.2	21	<0.1	6.2	3.1	151	1.09	3.9	0.4	1.2	0.3	5	<0.1	0.1	0.2	11	0.05	0.045
120971	Soil	0.7	55.4	41.5	122	0.2	41.0	36.1	2048	4.13	14.1	1.7	1.7	20.0	8	<0.1	0.2	0.8	15	0.12	0.056
120972	Soil	0.8	80.7	38.7	130	0.3	34.5	60.6	2318	3.36	63.2	3.0	3.0	11.1	7	<0.1	0.5	1.6	16	0.04	0.065
120973	Soil	0.6	21.7	12.1	51	<0.1	16.2	10.2	494	2.16	10.1	0.7	1.0	2.7	5	0.1	0.2	0.4	14	0.05	0.056
120974	Soil	0.3	11.2	5.7	23	<0.1	6.4	4.1	248	0.91	3.9	0.3	3.1	1.3	6	<0.1	<0.1	0.2	8	0.07	0.052
120975	Soil	0.5	21.7	13.2	63	<0.1	16.4	8.9	541	2.68	162.4	1.2	365.8	2.5	6	0.1	0.2	0.5	15	0.05	0.076
120976	Soil	0.5	32.0	16.0	101	0.1	28.8	16.5	914	3.87	81.0	1.5	77.2	7.4	7	0.3	0.3	0.7	23	0.07	0.077
120977	Soil	0.4	14.1	8.3	29	<0.1	8.2	3.8	198	1.40	12.5	0.8	9.7	0.4	5	<0.1	0.2	0.3	12	0.03	0.073
120978	Soil	0.8	25.0	13.7	55	<0.1	15.6	7.4	491	2.97	15.4	0.8	11.9	0.8	6	<0.1	0.3	0.5	21	0.04	0.109
120979	Soil	0.5	74.1	30.7	143	0.1	41.8	35.5	1583	5.01	45.1	2.5	7.4	15.3	3	<0.1	0.7	1.5	19	0.02	0.064
120980	Soil	0.6	86.7	36.0	129	0.2	39.6	35.0	2267	5.07	16.6	1.6	9.8	18.2	4	<0.1	0.3	1.9	23	0.07	0.094
120981	Soil	1.2	50.5	57.9	102	0.2	28.2	17.4	879	4.94	21.2	1.1	3.8	7.4	5	0.2	0.3	1.8	35	0.06	0.109
120982	Soil	7.4	123.3	37.7	162	0.2	58.4	86.4	1520	5.44	79.0	3.4	4.0	17.5	3	0.1	0.3	1.5	18	0.04	0.063
120983	Soil	0.7	63.0	36.8	143	<0.1	45.3	33.1	1268	5.19	31.5	2.3	7.5	8.5	7	0.2	0.3	1.1	30	0.05	0.058



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
120964	Soil	26	28	0.74	21	0.005	<1	2.11	0.010	0.02	<0.1	0.01	2.1	<0.1	<0.05	6	0.5	<0.2
120965	Soil	23	24	0.60	26	0.009	<1	1.90	0.013	0.04	0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
120966	Soil	26	28	0.69	22	0.008	<1	2.02	0.010	0.04	0.2	0.03	2.1	<0.1	<0.05	6	0.7	<0.2
120967	Soil	29	24	0.60	24	0.007	<1	1.89	0.010	0.03	0.2	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
120968	Soil	34	27	0.71	34	0.009	<1	2.16	0.009	0.04	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
120969	Soil	40	26	0.77	31	0.004	<1	1.97	0.004	0.03	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
120970	Soil	7	7	0.11	18	0.006	<1	0.61	0.019	0.02	<0.1	0.02	<0.1	<0.1	0.08	3	<0.5	<0.2
120971	Soil	31	30	0.89	31	0.003	<1	2.17	0.008	0.02	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
120972	Soil	25	19	0.57	43	0.006	<1	1.69	0.011	0.03	<0.1	0.02	1.6	<0.1	<0.05	5	0.7	<0.2
120973	Soil	18	14	0.36	19	0.011	<1	1.25	0.015	0.03	<0.1	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
120974	Soil	6	6	0.13	15	0.011	<1	0.66	0.018	0.03	<0.1	0.02	0.6	<0.1	<0.05	2	0.6	<0.2
120975	Soil	17	17	0.39	26	0.008	<1	1.39	0.012	0.04	0.2	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
120976	Soil	36	26	0.62	25	0.012	<1	1.79	0.009	0.03	0.3	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
120977	Soil	10	9	0.16	21	0.007	<1	0.88	0.014	0.03	<0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
120978	Soil	20	19	0.33	23	0.007	<1	1.36	0.010	0.03	0.2	0.03	0.4	<0.1	<0.05	5	0.7	<0.2
120979	Soil	40	26	0.70	27	0.002	<1	2.14	0.003	0.02	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
120980	Soil	34	31	0.83	31	0.002	<1	2.37	0.004	0.03	0.1	0.03	2.2	<0.1	<0.05	8	0.6	<0.2
120981	Soil	32	25	0.72	20	0.006	<1	2.24	0.004	0.02	4.3	0.03	1.9	<0.1	<0.05	8	0.6	<0.2
120982	Soil	41	34	0.86	24	0.002	<1	2.39	0.003	0.02	0.6	0.03	2.2	<0.1	<0.05	7	0.7	<0.2
120983	Soil	39	33	0.98	54	0.010	<1	2.64	0.005	0.04	0.5	0.02	2.8	<0.1	<0.05	8	<0.5	<0.2



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Project:

Culvert

Report Date:

November 15, 2011

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Part 1

QUALITY CONTROL REPORT

DAW11000256.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
119991	Soil	0.5	45.0	67.2	123	0.2	45.8	54.5	1060	4.33	36.3	2.0	2.2	11.3	9	0.2	0.2	0.9	15	0.06
REP 119991	QC	0.5	43.6	65.8	116	0.2	43.7	52.6	1022	4.20	34.6	2.0	2.1	10.8	9	0.1	0.2	0.9	14	0.05
130016	Soil	0.8	20.9	19.2	103	0.3	23.6	13.7	695	5.11	20.8	1.0	7.4	11.2	6	0.1	0.3	0.7	25	0.04
REP 130016	QC	0.9	22.7	20.7	109	0.3	25.9	14.9	758	5.53	22.2	1.0	12.3	12.1	7	0.1	0.3	0.7	27	0.04
118764	Soil	0.5	15.8	13.8	33	<0.1	7.4	3.7	164	1.94	10.4	0.7	<0.5	2.0	10	<0.1	0.3	0.3	15	0.05
REP 118764	QC	0.5	17.1	13.3	34	<0.1	7.4	3.7	167	2.00	10.4	0.7	1.3	2.2	10	<0.1	0.3	0.3	15	0.05
121866	Soil	0.4	44.3	112.6	84	0.2	28.3	27.6	1442	2.82	7.3	1.2	9.7	5.6	7	0.2	0.3	0.9	13	0.06
REP 121866	QC	0.5	42.6	111.1	83	0.2	26.8	26.7	1429	2.78	7.0	1.2	0.9	5.2	7	0.2	0.3	0.8	13	0.06
121877	Soil	0.7	38.1	34.2	106	<0.1	33.2	20.0	617	4.41	62.6	1.6	9.8	6.3	5	0.1	0.4	1.2	22	0.03
REP 121877	QC	0.8	37.0	32.8	103	<0.1	33.7	19.8	619	4.30	62.2	1.5	8.3	6.6	5	0.1	0.3	1.1	22	0.03
120889	Soil	0.5	17.5	20.5	39	<0.1	9.9	3.9	144	2.30	12.0	0.8	1.3	2.0	9	<0.1	0.3	0.3	17	0.03
REP 120889	QC	0.6	16.4	19.8	39	<0.1	9.0	4.0	149	2.38	11.7	0.8	2.8	2.6	9	<0.1	0.3	0.3	17	0.03
118788	Soil	0.3	10.4	6.6	8	0.1	5.6	3.2	66	0.44	1.7	0.8	<0.5	0.3	11	<0.1	<0.1	0.1	6	0.20
REP 118788	QC	0.2	10.7	7.1	8	0.1	5.5	3.3	67	0.42	1.5	0.9	<0.5	0.3	12	<0.1	<0.1	<0.1	5	0.22
118798	Soil	0.9	22.6	28.6	52	<0.1	17.1	7.8	369	3.20	8.9	0.8	1.7	2.7	5	<0.1	0.2	0.6	17	0.05
REP 118798	QC	1.1	22.7	28.8	56	0.1	17.1	8.0	371	3.30	9.4	0.8	2.8	3.1	5	<0.1	0.3	0.6	17	0.04
120922	Soil	0.7	15.0	11.8	36	<0.1	13.1	6.0	196	2.18	4.2	0.8	<0.5	0.9	5	<0.1	0.2	0.4	17	0.03
REP 120922	QC	0.8	16.2	12.3	36	<0.1	12.4	5.8	207	2.10	4.1	0.9	<0.5	1.1	5	<0.1	0.2	0.4	17	0.03
130038	Soil	0.6	65.0	74.6	168	0.2	48.1	54.5	3287	4.85	18.9	1.8	11.9	18.3	10	<0.1	0.3	1.7	20	0.10
REP 130038	QC	0.7	65.8	72.8	173	0.2	49.1	56.5	3322	4.86	18.8	1.8	28.2	19.4	10	<0.1	0.3	1.8	20	0.10
118825	Soil	0.3	3.6	4.4	10	<0.1	2.1	1.0	37	0.80	1.6	0.3	<0.5	0.2	4	<0.1	<0.1	0.1	11	0.02
REP 118825	QC	0.3	3.7	4.4	10	<0.1	1.8	0.9	37	0.81	1.6	0.3	<0.5	0.2	4	<0.1	0.1	0.1	11	0.01
118830	Soil	0.1	2.0	1.3	5	<0.1	0.7	0.5	15	0.27	<0.5	0.1	<0.5	<0.1	7	<0.1	<0.1	<0.1	6	0.03
REP 118830	QC	0.1	1.8	1.4	5	<0.1	0.5	0.5	16	0.29	<0.5	0.1	0.5	<0.1	7	<0.1	<0.1	<0.1	7	0.03
120928	Soil	0.7	55.4	56.2	86	0.1	25.1	11.5	340	5.33	139.1	2.5	1.9	11.1	19	<0.1	0.9	0.9	17	0.02
REP 120928	QC	0.9	53.8	55.9	86	<0.1	24.9	11.2	341	5.05	135.4	2.4	2.3	11.3	20	0.1	0.9	0.9	15	0.02
121897	Soil	1.2	99.5	159.6	134	0.2	62.2	134.1	1671	6.71	324.1	4.3	5.3	23.0	19	0.1	1.0	1.3	19	0.01
REP 121897	QC	1.1	98.0	151.3	130	0.2	62.8	133.9	1605	6.54	323.5	4.4	4.4	22.7	18	<0.1	1.1	1.3	20	0.01



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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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
119991	Soil	40	28	0.76	26	0.005	1	2.13	0.006	0.03	0.2	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
REP 119991	QC	39	27	0.73	25	0.005	1	2.06	0.007	0.03	0.2	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
130016	Soil	30	34	0.59	32	0.010	<1	2.38	0.005	0.04	0.3	0.07	1.5	<0.1	<0.05	7	<0.5	<0.2
REP 130016	QC	32	35	0.64	36	0.011	<1	2.63	0.005	0.04	0.2	0.07	1.7	<0.1	<0.05	8	<0.5	<0.2
118764	Soil	16	12	0.26	17	0.012	<1	0.89	0.018	0.04	0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
REP 118764	QC	15	11	0.27	17	0.012	<1	0.90	0.017	0.03	0.1	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
121866	Soil	18	17	0.49	53	0.005	<1	1.43	0.011	0.03	<0.1	0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
REP 121866	QC	19	17	0.49	53	0.005	<1	1.46	0.014	0.03	<0.1	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
121877	Soil	39	26	0.59	20	0.007	<1	1.85	0.004	0.03	0.5	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
REP 121877	QC	37	25	0.56	19	0.008	<1	1.71	0.004	0.02	0.5	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
120889	Soil	22	15	0.31	16	0.009	<1	1.05	0.009	0.03	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
REP 120889	QC	21	15	0.31	16	0.008	<1	1.00	0.010	0.03	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
118788	Soil	33	2	0.04	17	0.014	<1	0.60	0.028	0.02	<0.1	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
REP 118788	QC	34	2	0.04	18	0.013	<1	0.63	0.024	0.02	<0.1	0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
118798	Soil	22	20	0.42	25	0.008	<1	1.37	0.009	0.02	0.1	0.01	0.7	<0.1	<0.05	5	0.6	<0.2
REP 118798	QC	24	20	0.45	25	0.009	<1	1.47	0.008	0.02	0.1	0.02	0.7	<0.1	<0.05	6	<0.5	<0.2
120922	Soil	16	16	0.26	22	0.009	2	0.96	0.019	0.03	0.1	<0.01	0.4	<0.1	0.05	4	1.3	<0.2
REP 120922	QC	18	17	0.26	22	0.013	3	0.97	0.019	0.04	0.1	0.01	0.4	<0.1	0.09	4	1.0	<0.2
130038	Soil	40	30	0.86	46	0.001	<1	2.43	0.004	0.03	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
REP 130038	QC	39	30	0.88	45	0.002	1	2.46	0.004	0.03	<0.1	0.02	2.2	<0.1	<0.05	7	0.9	<0.2
118825	Soil	6	5	0.05	15	0.007	<1	0.43	0.021	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
REP 118825	QC	6	5	0.05	15	0.007	<1	0.44	0.021	0.02	<0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2
118830	Soil	<1	1	0.02	10	0.017	<1	0.16	0.031	0.02	<0.1	0.02	0.3	<0.1	<0.05	1	<0.5	<0.2
REP 118830	QC	<1	1	0.02	10	0.016	<1	0.16	0.027	0.02	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5	<0.2
120928	Soil	27	25	0.55	28	0.002	3	1.90	0.005	0.02	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
REP 120928	QC	31	24	0.53	28	0.003	<1	1.94	0.006	0.03	<0.1	0.01	1.2	<0.1	<0.05	5	0.5	<0.2
121897	Soil	32	29	0.63	26	0.012	2	2.12	0.007	0.05	<0.1	0.01	2.2	<0.1	<0.05	6	0.7	<0.2
REP 121897	QC	31	28	0.62	25	0.010	3	2.09	0.007	0.05	<0.1	<0.01	2.4	<0.1	<0.05	6	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
121915	Soil	0.8	32.1	21.8	84	<0.1	25.8	15.7	592	5.54	15.4	1.1	12.0	13.9	5	<0.1	0.3	0.7	21	0.02
REP 121915	QC	0.9	32.5	20.9	84	<0.1	25.4	16.0	598	5.46	15.0	1.1	4.2	14.0	5	<0.1	0.4	0.7	21	0.02
120950	Soil	1.1	13.9	16.2	25	<0.1	5.7	2.1	114	3.32	11.3	0.5	<0.5	2.0	6	<0.1	0.4	0.4	21	0.02
REP 120950	QC	1.2	12.6	17.1	24	<0.1	5.3	2.0	111	3.26	11.3	0.5	<0.5	1.9	6	<0.1	0.4	0.4	19	0.02
120957	Soil	0.5	8.2	11.9	31	0.1	5.3	3.4	348	3.05	7.8	0.4	<0.5	1.6	4	<0.1	0.2	0.3	20	0.02
REP 120957	QC	0.5	8.4	11.4	31	0.1	5.9	3.7	357	3.07	7.8	0.4	<0.5	1.7	4	<0.1	0.2	0.3	20	0.02
120971	Soil	0.7	55.4	41.5	122	0.2	41.0	36.1	2048	4.13	14.1	1.7	1.7	20.0	8	<0.1	0.2	0.8	15	0.12
REP 120971	QC	0.6	55.0	42.2	123	0.2	41.4	36.2	2016	4.05	13.9	1.7	3.0	19.5	8	<0.1	0.2	0.7	14	0.12
Reference Materials																				
STD DS8	Standard	13.4	109.9	128.3	308	1.8	38.5	7.5	618	2.51	24.2	2.8	107.8	7.0	65	2.4	5.6	6.4	41	0.70
STD DS8	Standard	13.0	114.6	124.9	318	1.7	41.1	7.3	593	2.42	21.1	2.6	112.1	5.9	63	1.9	4.5	5.7	39	0.69
STD DS8	Standard	12.4	100.0	122.5	297	2.0	34.3	6.8	579	2.34	25.5	2.8	125.8	6.8	70	2.2	5.5	6.0	40	0.67
STD DS8	Standard	11.4	98.1	118.2	290	1.8	32.1	6.3	550	2.22	22.1	2.7	111.1	6.0	65	2.1	4.4	5.6	36	0.62
STD DS8	Standard	12.0	97.7	124.1	303	1.8	35.1	6.8	588	2.39	25.1	2.6	118.0	6.3	69	2.1	5.6	6.3	39	0.68
STD DS8	Standard	12.4	104.9	119.9	293	1.9	35.1	7.4	579	2.31	25.2	2.7	106.4	6.8	70	2.3	5.5	6.7	42	0.67
STD DS8	Standard	13.1	101.7	123.4	300	1.8	35.0	6.9	586	2.40	24.7	2.8	111.7	6.8	65	2.4	5.7	6.9	40	0.65
STD DS8	Standard	12.5	101.7	120.6	297	1.9	35.8	7.2	604	2.34	24.0	3.0	122.0	7.2	70	2.2	6.0	6.8	40	0.69
STD DS8	Standard	13.1	108.7	126.5	303	1.8	36.8	7.5	589	2.38	25.1	2.9	104.9	7.0	69	2.5	5.7	6.7	41	0.69
STD DS8	Standard	11.7	108.3	127.1	310	1.8	38.6	7.8	612	2.43	24.4	2.8	111.8	6.4	73	2.3	5.4	6.6	42	0.70
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
121915	Soil	29	33	0.76	27	0.008	<1	2.48	0.005	0.03	0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2
REP 121915	QC	28	32	0.75	26	0.007	<1	2.44	0.007	0.03	0.1	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
120950	Soil	11	12	0.12	19	0.015	<1	0.62	0.010	0.03	0.1	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
REP 120950	QC	11	12	0.12	20	0.014	<1	0.64	0.011	0.02	0.1	0.03	0.6	<0.1	<0.05	5	<0.5	<0.2
120957	Soil	10	12	0.14	19	0.015	<1	0.93	0.011	0.02	0.1	0.04	0.5	<0.1	<0.05	5	<0.5	<0.2
REP 120957	QC	10	13	0.14	20	0.016	<1	0.95	0.013	0.03	<0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
120971	Soil	31	30	0.89	31	0.003	<1	2.17	0.008	0.02	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
REP 120971	QC	36	29	0.90	33	0.002	<1	2.22	0.007	0.02	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	117	0.62	276	0.117	3	0.92	0.091	0.42	3.1	0.19	2.4	5.5	0.16	5	5.5	4.8
STD DS8	Standard	14	119	0.60	252	0.120	2	0.92	0.092	0.40	2.7	0.19	1.7	5.3	0.19	4	4.7	4.6
STD DS8	Standard	14	108	0.60	290	0.112	3	0.94	0.110	0.44	3.0	0.20	2.3	5.4	0.15	5	4.2	5.1
STD DS8	Standard	13	101	0.58	250	0.104	2	0.87	0.106	0.41	2.7	0.17	2.2	5.0	0.14	4	4.6	5.0
STD DS8	Standard	15	110	0.58	275	0.112	2	0.90	0.093	0.42	2.9	0.19	2.2	5.3	0.13	5	5.1	4.3
STD DS8	Standard	15	112	0.60	275	0.111	3	0.96	0.118	0.45	2.7	0.19	2.7	5.2	0.14	4	5.3	5.0
STD DS8	Standard	15	110	0.59	271	0.112	3	0.89	0.099	0.43	2.6	0.19	2.4	5.4	0.16	5	4.3	4.8
STD DS8	Standard	16	113	0.59	296	0.121	3	0.95	0.101	0.43	2.8	0.21	2.9	5.2	0.17	5	3.8	5.1
STD DS8	Standard	16	114	0.62	285	0.119	3	0.97	0.113	0.43	3.0	0.22	2.6	5.4	0.15	5	5.0	5.2
STD DS8	Standard	15	115	0.60	293	0.111	2	0.97	0.097	0.46	3.0	0.23	2.9	5.4	0.12	5	4.8	5.1
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: Culvert

Report Date: November 15, 2011

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QUALITY CONTROL REPORT

DAW11000256.1

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



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Project: Culvert

Report Date: November 15, 2011

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QUALITY CONTROL REPORT

DAW11000256.1

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



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Submitted By: Mark Fekete

Receiving Lab: Canada-Dawson City

Received: August 15, 2011

Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

DAW11000257.1

CLIENT JOB INFORMATION

Project: Culvert
Shipment ID: CULVERT-2
P.O. Number
Number of Samples: 315

SAMPLE DISPOSAL

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

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

Invoice To: Stakeholder Gold Corp.
203 - 680 Third Ave.
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	315	Dry at 60C sieve 100g to -80 mesh			DAW
Dry at 60C	315	Dry at 60C			DAW
1DX2	315	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: Culvert

Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

DAW11000257.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
130058	Soil	1.6	138.8	109.7	234	0.2	82.8	162.6	1770	6.23	186.1	5.2	4.7	22.4	6	0.2	0.6	1.6	18	0.04	0.075
130059	Soil	1.6	110.7	82.7	139	0.2	65.2	118.8	1740	5.12	32.5	3.2	4.9	13.0	6	<0.1	0.7	1.1	18	0.03	0.074
130060	Soil	1.0	62.2	49.4	96	0.1	31.3	29.1	741	4.07	32.3	2.2	2.0	8.0	7	0.1	0.5	0.9	15	0.03	0.079
130061	Soil	0.6	41.6	37.2	81	0.1	24.8	37.7	968	3.62	24.2	1.6	2.6	7.0	6	<0.1	0.3	0.8	13	0.04	0.077
130062	Soil	0.8	33.6	32.0	55	<0.1	15.5	10.9	469	3.30	19.0	1.6	0.8	2.4	5	<0.1	0.3	1.2	17	0.04	0.103
130063	Soil	0.7	36.0	39.2	98	<0.1	30.0	21.0	734	4.16	20.1	1.5	2.5	6.5	6	<0.1	0.3	0.9	18	0.04	0.070
130064	Soil	0.7	27.6	23.8	83	<0.1	26.5	18.0	713	4.00	15.4	1.1	3.4	3.5	4	<0.1	0.5	0.7	20	0.03	0.069
130065	Soil	0.6	15.3	10.5	35	<0.1	10.2	7.3	627	1.74	5.3	0.6	1.1	1.2	6	<0.1	0.2	0.3	14	0.04	0.066
130066	Soil	0.4	11.5	18.4	23	<0.1	6.6	3.5	146	0.98	4.7	0.6	<0.5	0.2	5	<0.1	0.1	0.4	10	0.02	0.051
130067	Soil	1.0	57.7	42.9	132	0.2	40.0	30.9	1350	4.65	41.2	3.0	8.7	13.9	6	0.2	0.3	1.4	17	0.05	0.052
130068	Soil	1.2	37.5	34.3	85	0.2	27.3	18.1	775	4.31	41.2	1.3	36.6	6.8	7	<0.1	0.5	1.4	26	0.06	0.105
130069	Soil	0.6	31.9	23.6	65	0.1	20.6	12.1	595	3.21	19.9	0.9	3.2	4.8	6	<0.1	0.3	0.7	17	0.06	0.071
130070	Soil	0.8	74.7	35.4	100	0.1	34.2	41.5	1108	3.60	55.2	2.9	7.6	8.9	5	<0.1	0.5	2.0	14	0.04	0.082
130071	Soil	3.2	129.1	144.4	205	0.3	78.9	149.1	3011	5.49	168.8	5.6	72.3	15.4	6	0.2	0.8	2.4	18	0.02	0.111
130072	Soil	1.0	47.2	29.5	105	0.1	30.6	30.8	989	3.87	221.0	2.6	271.3	7.3	4	0.1	0.4	1.2	15	0.02	0.064
130073	Soil	1.7	54.3	32.8	72	0.1	18.0	11.2	456	2.75	87.8	2.3	6.6	2.2	6	0.1	0.3	1.1	18	0.02	0.070
130074	Soil	0.6	25.3	17.3	84	0.1	27.3	13.2	601	4.45	112.3	1.0	89.4	9.7	3	<0.1	0.3	0.8	18	0.02	0.056
130075	Soil	1.2	35.3	20.5	68	<0.1	19.2	11.9	588	4.25	158.5	2.4	91.3	2.2	6	<0.1	0.4	1.4	17	0.05	0.102
130076	Soil	0.7	12.6	16.0	26	<0.1	6.6	3.4	177	1.73	11.2	0.7	6.7	0.4	5	<0.1	0.2	0.5	17	0.02	0.045
130077	Soil	0.7	35.9	29.8	68	<0.1	20.6	17.2	919	3.57	29.2	1.2	8.0	4.0	6	<0.1	0.3	0.8	18	0.03	0.116
130078	Soil	0.8	15.2	9.3	23	<0.1	4.5	2.3	148	1.95	8.6	0.7	<0.5	0.3	4	<0.1	0.2	0.6	11	0.02	0.061
130079	Soil	0.7	15.2	14.1	59	<0.1	14.3	6.3	324	5.69	20.2	0.8	6.6	5.3	4	<0.1	0.4	0.7	25	0.01	0.110
130080	Soil	0.7	19.8	13.9	63	<0.1	17.2	7.9	355	6.10	25.9	0.8	9.9	9.6	3	<0.1	0.4	0.7	26	0.01	0.093
130081	Soil	0.5	22.4	15.6	79	<0.1	22.6	10.9	414	5.13	23.6	1.0	18.7	11.0	5	<0.1	0.4	0.6	20	0.02	0.059
130082	Soil	<0.1	2.3	2.5	3	<0.1	1.0	0.5	15	0.40	0.6	0.2	<0.5	<0.1	4	<0.1	<0.1	<0.1	4	0.02	0.021
130083	Soil	0.6	14.4	14.3	35	0.1	8.5	4.9	406	3.70	39.5	0.7	12.2	3.4	7	<0.1	0.4	0.5	18	0.02	0.092
130084	Soil	0.8	31.2	24.7	82	0.2	24.1	12.0	835	4.82	57.2	1.2	19.1	9.7	7	<0.1	0.5	0.8	16	0.04	0.105
130085	Soil	0.8	13.0	14.7	30	<0.1	7.8	3.6	176	2.24	11.5	0.6	0.8	0.9	6	<0.1	0.4	0.5	31	0.02	0.073
130086	Soil	0.5	14.3	16.5	36	<0.1	7.8	3.2	188	4.20	12.8	0.6	<0.5	5.5	5	<0.1	0.4	0.5	27	0.02	0.155
130087	Soil	0.7	14.8	18.3	38	<0.1	10.0	4.2	158	4.76	20.0	0.7	<0.5	7.8	5	<0.1	0.5	0.5	34	0.01	0.099



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Project: Culvert
Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

DAW11000257.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130058	Soil	38	39	0.99	22	0.003	<1	2.95	0.007	0.03	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
130059	Soil	25	30	0.77	23	0.007	<1	2.27	0.006	0.03	0.2	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
130060	Soil	23	23	0.56	21	0.009	<1	1.81	0.010	0.03	0.2	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
130061	Soil	28	23	0.54	21	0.007	<1	1.77	0.009	0.04	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
130062	Soil	20	22	0.37	21	0.006	<1	1.48	0.009	0.02	0.2	0.03	0.6	<0.1	<0.05	5	<0.5	<0.2
130063	Soil	27	28	0.69	33	0.006	<1	2.06	0.005	0.03	0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
130064	Soil	27	27	0.63	21	0.013	<1	1.96	0.006	0.03	0.2	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
130065	Soil	13	10	0.19	23	0.011	<1	1.02	0.014	0.03	0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
130066	Soil	6	7	0.14	15	0.009	<1	0.76	0.018	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
130067	Soil	45	29	0.82	31	0.005	<1	2.17	0.008	0.04	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
130068	Soil	28	28	0.59	24	0.017	<1	1.89	0.006	0.04	0.6	0.05	1.3	<0.1	<0.05	6	<0.5	<0.2
130069	Soil	22	21	0.55	25	0.009	<1	1.57	0.009	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
130070	Soil	19	18	0.46	21	0.005	<1	1.65	0.010	0.02	0.3	0.02	1.1	<0.1	<0.05	5	0.6	<0.2
130071	Soil	29	26	0.65	41	0.006	<1	2.22	0.007	0.03	0.2	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
130072	Soil	22	19	0.51	18	0.006	<1	1.54	0.009	0.02	0.4	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130073	Soil	12	18	0.30	37	0.005	<1	1.60	0.012	0.04	0.2	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
130074	Soil	29	28	0.67	20	0.005	<1	2.13	0.005	0.03	0.9	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
130075	Soil	18	23	0.47	28	0.006	<1	1.59	0.008	0.03	1.4	0.03	0.6	<0.1	0.06	6	0.5	<0.2
130076	Soil	18	11	0.15	19	0.011	<1	0.97	0.010	0.02	<0.1	0.02	0.3	<0.1	<0.05	5	<0.5	<0.2
130077	Soil	20	21	0.48	26	0.007	<1	1.72	0.009	0.03	0.3	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
130078	Soil	18	10	0.13	17	0.005	<1	0.65	0.013	0.02	<0.1	0.02	0.2	<0.1	<0.05	4	0.7	<0.2
130079	Soil	34	25	0.46	16	0.012	<1	1.53	0.004	0.02	0.1	0.03	1.0	<0.1	<0.05	8	<0.5	<0.2
130080	Soil	29	28	0.53	10	0.008	<1	1.72	0.002	0.01	0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
130081	Soil	34	30	0.65	16	0.010	<1	2.04	0.004	0.02	0.2	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
130082	Soil	2	2	0.02	9	0.007	<1	0.38	0.022	0.02	<0.1	<0.01	0.1	<0.1	<0.05	1	<0.5	<0.2
130083	Soil	17	16	0.22	29	0.012	<1	1.35	0.010	0.02	0.3	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
130084	Soil	25	28	0.54	27	0.011	1	2.22	0.006	0.02	0.4	0.06	1.3	<0.1	<0.05	6	<0.5	<0.2
130085	Soil	22	12	0.13	27	0.017	<1	0.80	0.007	0.03	0.1	<0.01	0.4	<0.1	<0.05	6	<0.5	<0.2
130086	Soil	19	15	0.15	33	0.011	<1	1.26	0.007	0.03	<0.1	0.02	0.8	<0.1	<0.05	9	<0.5	<0.2
130087	Soil	24	17	0.18	20	0.016	<1	1.04	0.004	0.02	0.1	0.01	0.8	<0.1	<0.05	9	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130088	Soil				0.7	16.8	12.7	27	<0.1	6.3	2.8	117	2.45	8.5	0.6	<0.5	0.9	8	<0.1	0.4	0.4	23	0.02	0.069
130089	Soil				0.5	11.7	18.3	59	0.1	11.9	6.1	570	4.02	14.8	0.5	<0.5	5.6	8	<0.1	0.3	0.4	18	0.04	0.088
130090	Soil				0.7	13.8	18.1	68	0.1	13.8	7.2	948	4.48	17.6	0.7	1.0	5.4	9	<0.1	0.3	0.5	22	0.04	0.108
130091	Soil				0.3	7.9	9.2	23	<0.1	4.1	2.6	171	2.12	5.2	0.5	<0.5	0.8	5	<0.1	0.2	0.3	14	0.02	0.054
130092	Soil				0.6	10.9	16.6	43	0.2	8.2	4.1	259	2.90	8.8	0.5	<0.5	2.5	5	<0.1	0.3	0.4	19	0.01	0.113
130093	Soil				0.6	10.4	16.8	46	<0.1	7.3	4.6	489	4.69	10.8	0.6	<0.5	3.8	5	<0.1	0.4	0.5	26	0.01	0.160
121953	Soil				0.9	87.7	164.9	141	0.3	55.5	42.5	1132	5.40	33.3	2.1	2.6	19.9	6	<0.1	0.4	1.1	16	0.09	0.057
121954	Soil				0.8	25.7	21.5	61	<0.1	16.4	8.0	481	3.99	18.6	0.8	9.5	2.1	5	<0.1	0.3	0.6	24	0.02	0.081
121955	Soil				1.1	21.2	19.1	60	<0.1	16.4	8.8	478	4.09	28.8	0.8	1.5	0.7	6	<0.1	0.5	0.6	27	0.02	0.076
121956	Soil				0.7	22.8	18.5	61	<0.1	15.9	7.2	383	4.85	17.0	0.9	4.6	2.1	5	0.1	0.4	0.6	27	0.02	0.115
121957	Soil				0.7	19.1	14.5	80	0.2	19.9	12.4	708	5.96	19.8	0.9	4.3	9.6	4	<0.1	0.3	0.6	21	0.01	0.083
121958	Soil				0.8	57.1	34.4	75	<0.1	14.3	8.3	397	6.08	24.3	1.6	2.3	7.4	21	0.1	1.0	0.8	19	0.02	0.157
121959	Soil				0.3	8.5	9.2	22	0.1	4.6	2.1	117	1.58	4.7	0.4	6.6	2.0	8	<0.1	0.2	0.2	10	0.03	0.044
121960	Soil				0.6	22.3	19.8	81	0.3	16.3	8.2	528	6.40	23.2	1.0	75.6	10.8	17	<0.1	0.5	0.8	24	0.01	0.203
121961	Soil				0.7	27.6	22.4	90	<0.1	21.3	10.8	502	5.31	48.9	0.9	6.5	7.8	8	0.1	0.6	0.7	24	0.02	0.154
121962	Soil				0.4	21.5	14.0	53	<0.1	16.1	11.2	364	3.21	14.2	0.8	2.2	2.3	5	<0.1	0.2	0.4	14	0.02	0.065
121963	Soil				0.8	20.1	24.8	57	0.1	13.9	6.1	309	6.32	22.7	0.8	<0.5	8.9	5	<0.1	0.5	0.6	33	0.02	0.133
121964	Soil				0.7	16.4	21.2	51	0.1	10.6	4.4	240	4.11	14.7	0.7	1.2	8.0	6	0.1	0.4	0.5	24	0.02	0.090
121965	Soil				0.6	17.8	18.7	65	0.2	14.8	6.0	397	5.17	20.1	0.8	1.4	7.6	5	<0.1	0.4	0.5	25	0.01	0.171
121966	Soil				0.6	12.0	20.6	90	<0.1	11.9	8.0	418	4.96	14.0	0.7	0.9	8.9	6	0.1	0.4	0.5	25	0.02	0.146
121967	Soil				0.4	11.3	13.9	32	0.3	7.8	4.0	132	1.79	8.2	0.5	1.2	1.2	5	<0.1	0.2	0.3	12	0.02	0.050
121968	Soil				0.5	22.7	22.4	105	0.1	22.0	9.4	492	5.63	24.8	0.8	0.8	9.5	6	0.1	0.3	0.5	24	0.04	0.229
121969	Soil				0.5	26.2	19.8	88	0.2	26.5	13.7	443	4.70	16.4	0.9	1.7	12.1	6	0.1	0.4	0.5	17	0.02	0.067
121970	Soil				0.2	7.3	2.4	5	0.2	0.9	1.0	38	0.44	0.8	0.3	<0.5	0.7	5	<0.1	<0.1	<0.1	7	0.02	0.018
121971	Soil				1.0	16.5	17.0	104	0.1	23.6	10.2	429	4.82	18.4	0.7	0.7	9.8	8	<0.1	0.2	0.3	19	0.03	0.037
120984	Soil				0.9	16.6	16.0	48	<0.1	12.9	6.6	322	3.98	15.7	0.6	2.6	5.9	6	<0.1	0.4	0.6	30	0.02	0.066
120985	Soil				0.4	17.2	13.2	43	<0.1	12.1	5.3	257	2.92	9.9	0.8	13.0	1.4	4	<0.1	0.3	0.4	15	0.01	0.067
120986	Soil				0.7	17.2	12.4	30	<0.1	8.0	3.4	135	2.31	8.5	0.7	1.6	1.3	6	<0.1	0.3	0.4	16	0.02	0.053
120987	Soil				1.6	56.7	26.8	95	0.3	37.2	12.2	359	6.28	18.2	1.5	1.8	11.3	37	0.2	0.6	0.6	18	0.02	0.105
120988	Soil				0.7	31.4	19.4	110	0.4	31.0	14.6	597	5.74	19.6	1.1	1.8	12.8	9	0.1	0.4	0.9	25	0.03	0.100



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130088	Soil	16	11	0.09	58	0.016	1	0.88	0.009	0.02	<0.1	<0.01	0.4	<0.1	<0.05	6	<0.5	<0.2
130089	Soil	16	17	0.37	40	0.008	<1	1.33	0.008	0.04	<0.1	0.03	0.7	<0.1	<0.05	7	<0.5	<0.2
130090	Soil	17	20	0.40	44	0.010	<1	1.53	0.007	0.04	<0.1	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
130091	Soil	8	9	0.11	26	0.010	<1	1.05	0.014	0.02	<0.1	0.04	0.4	<0.1	<0.05	5	<0.5	<0.2
130092	Soil	20	12	0.19	28	0.009	1	0.80	0.006	0.03	0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2
130093	Soil	21	15	0.19	34	0.009	1	1.12	0.005	0.03	0.2	0.02	0.6	<0.1	<0.05	9	<0.5	<0.2
121953	Soil	39	38	1.00	12	0.001	<1	2.60	0.008	0.02	<0.1	<0.01	2.0	<0.1	<0.05	8	<0.5	<0.2
121954	Soil	20	23	0.41	26	0.008	<1	1.67	0.009	0.02	0.2	0.02	0.8	<0.1	0.06	7	<0.5	<0.2
121955	Soil	18	26	0.31	35	0.009	1	1.35	0.009	0.04	0.3	0.02	0.5	<0.1	0.08	7	<0.5	<0.2
121956	Soil	26	26	0.40	25	0.009	<1	1.63	0.005	0.02	0.2	0.02	0.7	<0.1	0.06	9	<0.5	<0.2
121957	Soil	27	33	0.65	20	0.013	1	2.41	0.004	0.02	0.2	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
121958	Soil	37	27	0.54	31	0.010	<1	1.76	0.006	0.02	0.1	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
121959	Soil	10	8	0.17	19	0.014	1	0.77	0.016	0.02	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
121960	Soil	20	27	0.49	24	0.007	<1	1.68	0.005	0.02	0.6	0.03	1.1	<0.1	<0.05	9	<0.5	<0.2
121961	Soil	23	26	0.56	24	0.009	<1	1.88	0.006	0.02	0.2	0.02	1.2	<0.1	<0.05	8	<0.5	<0.2
121962	Soil	18	17	0.37	18	0.007	<1	1.20	0.011	0.02	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
121963	Soil	21	26	0.33	38	0.019	<1	1.91	0.005	0.03	0.2	0.02	1.2	<0.1	<0.05	11	<0.5	<0.2
121964	Soil	19	18	0.21	43	0.008	<1	1.30	0.006	0.02	0.1	0.02	0.8	<0.1	<0.05	8	<0.5	<0.2
121965	Soil	20	23	0.37	32	0.009	<1	1.64	0.005	0.02	0.1	0.03	0.9	<0.1	<0.05	8	<0.5	<0.2
121966	Soil	17	24	0.32	46	0.009	<1	1.72	0.006	0.02	0.1	0.03	1.0	<0.1	<0.05	8	<0.5	<0.2
121967	Soil	11	10	0.16	24	0.009	<1	0.67	0.014	0.02	<0.1	0.02	0.4	<0.1	<0.05	4	<0.5	<0.2
121968	Soil	23	28	0.57	44	0.009	<1	1.85	0.006	0.03	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
121969	Soil	29	29	0.73	18	0.008	<1	2.11	0.004	0.02	0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
121970	Soil	2	2	0.02	16	0.022	<1	0.85	0.019	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
121971	Soil	28	30	0.80	30	0.003	<1	2.26	0.005	0.02	0.2	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
120984	Soil	24	19	0.31	30	0.016	<1	1.27	0.006	0.02	0.2	0.02	0.9	<0.1	<0.05	8	<0.5	<0.2
120985	Soil	17	19	0.30	21	0.008	<1	1.18	0.010	0.02	0.1	0.02	0.4	<0.1	<0.05	5	<0.5	<0.2
120986	Soil	14	12	0.20	22	0.012	<1	0.87	0.010	0.02	0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2
120987	Soil	36	24	0.46	42	0.008	<1	1.79	0.010	0.02	0.3	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
120988	Soil	33	34	0.73	27	0.010	<1	2.41	0.004	0.02	0.4	0.03	1.7	<0.1	<0.05	7	0.6	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
120989	Soil																							
120990	Soil																							
120991	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
120989	Soil	21	20	0.33	25	0.011	<1	1.41	0.008	0.02	0.2	0.03	0.8	<0.1	<0.05	8	<0.5	<0.2
120990	Soil	21	21	0.36	30	0.010	2	1.56	0.007	0.02	0.3	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
120991	Soil	<1	1	0.02	9	0.005	<1	0.18	0.026	0.01	<0.1	0.01	<0.1	<0.1	<0.05	1	<0.5	<0.2
120992	Soil	24	32	0.49	32	0.014	<1	2.22	0.004	0.03	0.4	0.05	1.1	<0.1	<0.05	8	0.6	<0.2
120993	Soil	7	5	0.08	11	0.007	<1	0.42	0.023	0.02	<0.1	0.01	0.2	<0.1	<0.05	1	<0.5	<0.2
120994	Soil	22	18	0.37	31	0.004	<1	1.34	0.008	0.03	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
120995	Soil	25	21	0.49	43	0.004	<1	1.60	0.006	0.03	0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
120996	Soil	46	28	0.68	29	0.002	<1	2.05	0.005	0.05	0.2	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
120997	Soil	27	28	0.57	25	0.006	<1	1.86	0.005	0.03	0.2	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
120998	Soil	12	6	0.09	28	0.008	<1	0.48	0.012	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
120999	Soil	10	13	0.22	36	0.010	2	0.78	0.010	0.02	0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
121000	Soil	18	30	0.45	23	0.010	<1	2.21	0.008	0.03	0.2	0.05	0.7	<0.1	0.07	7	0.9	<0.2
118835	Soil	19	27	0.64	24	0.005	2	1.99	0.012	0.03	0.2	0.03	2.7	<0.1	<0.05	6	0.8	<0.2
118836	Soil	19	29	0.72	23	0.008	<1	2.03	0.011	0.03	0.1	0.03	1.8	<0.1	<0.05	6	0.6	<0.2
118837	Soil	22	26	0.53	25	0.006	1	1.73	0.010	0.03	<0.1	0.03	1.2	<0.1	<0.05	5	0.8	<0.2
118838	Soil	19	29	0.57	29	0.013	1	1.80	0.006	0.04	0.2	0.05	1.5	<0.1	<0.05	6	0.8	<0.2
118839	Soil	25	30	0.73	31	0.014	<1	2.01	0.004	0.03	0.1	0.01	1.8	<0.1	<0.05	6	0.5	<0.2
118840	Soil	14	16	0.37	48	0.007	<1	1.46	0.014	0.03	<0.1	0.02	0.9	<0.1	<0.05	4	0.7	<0.2
118841	Soil	18	21	0.58	21	0.007	<1	1.49	0.010	0.03	0.1	0.02	1.1	<0.1	<0.05	5	0.5	<0.2
118842	Soil	33	27	0.70	23	0.006	<1	1.87	0.007	0.03	0.1	0.03	1.8	<0.1	<0.05	6	0.6	<0.2
118843	Soil	26	26	0.64	25	0.008	<1	1.77	0.008	0.04	0.2	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
118844	Soil	13	13	0.29	18	0.012	<1	1.03	0.013	0.03	<0.1	0.03	0.9	<0.1	<0.05	3	0.8	<0.2
118845	Soil	17	25	0.41	28	0.007	<1	1.68	0.005	0.03	0.2	0.07	1.0	<0.1	<0.05	7	1.0	<0.2
118846	Soil	2	2	0.02	12	0.011	<1	0.36	0.022	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	0.7	<0.2
118847	Soil	26	26	0.45	27	0.009	<1	1.62	0.006	0.03	0.2	0.03	0.8	<0.1	<0.05	7	0.9	<0.2
118848	Soil	30	29	0.72	29	0.007	1	2.06	0.006	0.03	0.2	0.01	1.6	<0.1	<0.05	6	0.6	<0.2
118849	Soil	47	33	0.90	24	0.006	<1	2.36	0.003	0.02	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
118850	Soil	27	28	0.72	27	0.005	<1	2.19	0.005	0.02	0.2	0.02	1.6	<0.1	<0.05	6	0.8	<0.2
118851	Soil	26	32	0.66	19	0.007	<1	2.13	0.004	0.02	3.0	0.05	1.9	<0.1	<0.05	7	<0.5	<0.2
118852	Soil	32	31	0.79	39	0.005	<1	2.36	0.005	0.03	0.7	0.04	2.2	<0.1	<0.05	7	1.3	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
118853	Soil																							
118854	Soil																							
118855	Soil																							
118856	Soil																							
118857	Soil																							
118858	Soil																							
118859	Soil																							
118860	Soil																							
118861	Soil																							
118862	Soil																							
118863	Soil																							
118864	Soil																							
118865	Soil																							
118866	Soil																							
118867	Soil																							
121933	Soil																							
121934	Soil																							
121935	Soil																							
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121937	Soil																							
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121940	Soil																							
121941	Soil																							
121942	Soil																							
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121945	Soil																							
121946	Soil																							
121947	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118853	Soil	36	31	0.72	25	0.008	2	2.17	0.004	0.03	0.1	0.02	2.1	<0.1	<0.05	7	0.8	<0.2
118854	Soil	15	14	0.30	17	0.010	<1	1.21	0.012	0.03	0.2	0.03	0.6	<0.1	<0.05	4	0.9	<0.2
118855	Soil	31	31	0.58	28	0.017	1	2.08	0.004	0.03	0.2	0.03	1.5	<0.1	<0.05	6	1.1	<0.2
118856	Soil	20	17	0.21	21	0.011	<1	0.93	0.011	0.02	<0.1	0.03	0.5	<0.1	<0.05	4	0.9	<0.2
118857	Soil	24	23	0.41	20	0.017	<1	1.31	0.005	0.02	0.2	0.02	1.1	<0.1	<0.05	8	<0.5	<0.2
118858	Soil	10	9	0.06	19	0.016	<1	0.38	0.013	0.02	<0.1	0.02	0.4	<0.1	<0.05	4	<0.5	<0.2
118859	Soil	49	13	0.25	24	0.016	1	0.98	0.012	0.03	0.2	0.02	0.8	<0.1	<0.05	4	0.6	<0.2
118860	Soil	45	33	0.57	23	0.008	1	2.00	0.005	0.03	0.2	0.04	1.4	<0.1	<0.05	7	0.7	<0.2
118861	Soil	99	31	0.66	22	0.009	<1	2.19	0.004	0.03	0.3	0.02	1.8	<0.1	<0.05	6	1.1	<0.2
118862	Soil	35	34	0.50	22	0.011	<1	1.61	0.005	0.02	0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
118863	Soil	24	17	0.39	54	0.007	1	1.42	0.009	0.03	0.2	0.02	0.9	<0.1	<0.05	5	0.6	<0.2
118864	Soil	44	37	0.71	24	0.008	<1	2.52	0.004	0.03	0.2	0.03	1.8	<0.1	<0.05	6	1.3	<0.2
118865	Soil	49	4	0.06	26	0.012	<1	0.72	0.034	0.02	<0.1	0.02	0.5	<0.1	<0.05	1	0.5	<0.2
118866	Soil	28	14	0.24	39	0.006	<1	0.96	0.014	0.03	0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
118867	Soil	52	35	0.74	121	0.005	1	2.24	0.006	0.05	0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
121933	Soil	13	16	0.34	17	0.011	<1	1.24	0.016	0.03	<0.1	<0.01	1.1	<0.1	<0.05	4	0.7	<0.2
121934	Soil	14	15	0.28	18	0.012	<1	1.07	0.016	0.03	<0.1	0.02	0.8	<0.1	<0.05	3	<0.5	<0.2
121935	Soil	41	34	0.73	25	0.008	<1	2.30	0.007	0.04	0.1	0.03	1.3	<0.1	<0.05	7	0.7	<0.2
121936	Soil	23	26	0.57	26	0.012	1	1.80	0.010	0.03	0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
121937	Soil	19	11	0.30	20	0.008	1	1.15	0.014	0.02	<0.1	0.01	0.6	<0.1	<0.05	3	0.6	<0.2
121938	Soil	24	28	0.68	22	0.014	<1	1.83	0.007	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
121939	Soil	20	26	0.72	28	0.005	<1	1.92	0.008	0.02	0.2	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
121940	Soil	20	26	0.70	30	0.005	<1	1.90	0.008	0.02	0.2	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
121941	Soil	24	22	0.52	43	0.004	<1	1.73	0.008	0.02	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
121942	Soil	36	23	0.59	32	0.001	<1	1.80	0.006	0.02	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
121943	Soil	22	29	0.74	28	0.012	<1	1.98	0.009	0.03	0.1	0.02	1.9	<0.1	<0.05	6	0.6	<0.2
121944	Soil	14	19	0.45	19	0.009	<1	1.42	0.011	0.03	0.3	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
121945	Soil	18	26	0.52	53	0.005	<1	1.79	0.008	0.03	0.3	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
121946	Soil	26	31	0.70	30	0.006	<1	2.16	0.005	0.03	0.2	0.02	1.3	<0.1	0.05	6	0.7	<0.2
121947	Soil	24	30	0.78	16	0.002	<1	2.35	0.004	0.02	0.2	0.01	1.4	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
121948	Soil	0.8	63.6	30.5	141	0.2	42.7	37.8	1130	4.76	187.6	3.5	203.2	14.0	9	0.3	0.5	1.8	18	0.04	0.081
121949	Soil	1.7	95.3	42.9	153	0.2	52.2	58.9	2309	4.93	142.6	3.9	82.3	15.3	5	<0.1	0.5	1.5	21	0.03	0.072
121950	Soil	0.9	28.9	54.2	51	<0.1	16.1	17.4	612	1.98	18.7	0.9	4.1	1.9	4	<0.1	0.3	0.9	10	0.02	0.058
121951	Soil	1.8	35.4	31.8	97	<0.1	32.1	20.2	954	5.35	47.0	1.2	13.9	7.0	6	0.1	0.6	1.2	34	0.03	0.084
121952	Soil	0.9	37.9	22.5	102	0.1	35.8	22.3	742	4.78	55.1	1.2	38.5	12.8	4	0.2	0.3	0.9	27	0.04	0.056
130094	Soil	0.8	26.2	40.5	70	0.3	19.6	9.4	522	4.46	14.9	1.6	2.4	9.3	7	0.1	0.4	0.8	22	0.02	0.080
130095	Soil	0.9	19.7	33.5	65	0.3	17.1	25.4	1646	4.46	23.8	0.8	2.0	6.4	4	<0.1	0.4	0.8	25	0.02	0.092
130096	Soil	0.8	41.9	26.1	107	0.2	37.2	26.6	1043	5.07	23.7	1.1	3.6	13.0	3	<0.1	0.3	0.9	19	0.03	0.049
130097	Soil	0.6	20.7	13.1	43	0.1	12.5	7.1	464	2.66	9.1	0.9	6.3	1.6	4	<0.1	0.2	0.4	14	0.02	0.095
130098	Soil	1.1	37.2	20.5	88	0.2	19.3	23.5	2187	4.89	16.8	1.0	1.5	12.2	4	0.1	0.4	1.5	25	0.03	0.119
130099	Soil	1.1	32.8	38.2	78	0.3	23.2	19.3	838	5.21	36.2	1.1	17.0	12.9	3	<0.1	0.3	1.2	21	0.02	0.086
130100	Soil	0.7	28.3	13.4	67	0.2	20.1	11.4	618	3.91	24.1	0.8	6.0	5.9	3	<0.1	0.3	0.8	18	0.01	0.066
130101	Soil	0.7	34.3	22.5	103	0.1	31.9	20.3	1131	4.36	30.2	1.1	6.3	6.1	4	<0.1	0.4	1.2	22	0.04	0.120
130102	Soil	0.8	44.9	22.4	120	0.1	34.1	19.2	1073	5.18	115.1	1.6	2.7	12.9	4	0.1	0.4	1.1	21	0.03	0.147
130103	Soil	0.9	32.2	27.2	80	0.3	24.1	13.2	786	4.63	28.2	1.5	5.0	4.4	4	<0.1	0.4	0.9	24	0.02	0.107
130104	Soil	0.7	32.3	17.6	85	0.1	27.1	15.0	910	4.23	22.8	1.0	7.2	3.4	4	0.2	0.3	0.8	23	0.02	0.094
130105	Soil	0.6	22.6	18.0	88	0.1	26.1	15.6	1192	3.37	36.4	1.2	3.5	1.3	5	0.2	0.2	0.8	18	0.02	0.131
130106	Soil	0.7	32.6	24.5	99	0.1	30.7	17.4	698	3.92	45.0	1.0	7.6	3.1	6	0.3	0.4	0.8	22	0.06	0.075
130107	Soil	0.8	32.3	23.1	75	0.1	21.6	13.0	891	4.35	43.1	1.0	9.5	3.2	4	0.2	0.4	0.9	24	0.02	0.093
130108	Soil	1.4	52.8	40.2	88	0.2	32.3	16.7	673	6.36	119.7	2.7	21.6	3.1	6	<0.1	0.7	1.6	33	0.04	0.233
130109	Soil	0.8	23.1	21.8	68	0.1	15.1	22.3	1577	3.82	45.5	0.9	3.1	0.9	6	0.3	0.4	0.9	25	0.03	0.178
130110	Soil	1.0	20.9	19.6	81	0.1	19.4	11.8	921	3.64	65.8	1.3	10.4	1.1	8	0.2	0.4	0.6	18	0.10	0.208
130111	Soil	0.8	26.7	17.7	85	0.2	24.0	10.4	748	5.48	58.5	1.0	20.2	4.7	5	<0.1	0.5	0.7	25	0.02	0.110
130112	Soil	0.7	18.7	16.5	59	0.1	13.2	9.5	823	4.30	24.1	0.7	1.7	1.9	6	0.2	0.3	0.6	27	0.02	0.146
130113	Soil	0.7	29.1	19.2	86	<0.1	27.2	16.6	611	4.21	38.5	1.0	6.6	2.9	6	<0.1	0.5	0.8	21	0.03	0.070
130114	Soil	0.7	22.5	18.0	40	<0.1	9.0	3.6	350	4.07	24.7	0.9	1.9	2.5	6	0.2	0.5	0.6	21	0.01	0.095
130115	Soil	0.9	24.1	24.3	60	<0.1	13.5	6.7	508	6.20	38.6	1.2	1.3	6.1	6	0.1	0.6	0.9	27	0.02	0.132
130116	Soil	0.7	18.9	21.2	58	0.2	13.5	5.9	454	5.40	25.4	0.9	0.8	8.2	7	0.2	0.5	0.6	22	0.01	0.137
130117	Soil	0.8	34.0	24.1	76	<0.1	20.6	10.3	463	4.71	20.1	1.4	0.7	6.4	10	<0.1	0.5	0.6	19	0.02	0.117
130118	Soil	0.6	16.8	14.5	47	<0.1	12.7	5.7	288	3.09	14.4	0.7	2.5	6.6	6	<0.1	0.3	0.4	13	0.02	0.052



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
121948	Soil	21	25	0.59	27	0.003	<1	1.94	0.008	0.02	0.2	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
121949	Soil	31	30	0.79	46	0.005	<1	2.23	0.004	0.03	0.2	0.02	2.3	<0.1	<0.05	6	0.6	<0.2
121950	Soil	11	12	0.27	16	0.007	<1	1.03	0.012	0.02	0.2	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
121951	Soil	25	37	0.64	28	0.017	<1	2.02	0.007	0.04	0.4	0.02	1.6	<0.1	<0.05	7	0.7	<0.2
121952	Soil	29	32	0.68	29	0.008	<1	2.35	0.004	0.03	0.3	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
130094	Soil	22	25	0.45	25	0.007	<1	1.79	0.005	0.04	0.2	0.05	0.9	<0.1	0.05	7	<0.5	<0.2
130095	Soil	19	23	0.27	34	0.010	<1	1.25	0.004	0.04	0.3	0.09	0.8	<0.1	<0.05	7	<0.5	<0.2
130096	Soil	27	32	0.70	17	0.003	<1	2.15	0.003	0.02	0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
130097	Soil	13	18	0.29	25	0.005	<1	1.26	0.009	0.02	<0.1	0.02	0.5	<0.1	0.06	4	<0.5	<0.2
130098	Soil	24	24	0.37	31	0.008	<1	1.47	0.005	0.04	0.1	0.06	1.3	<0.1	<0.05	8	<0.5	<0.2
130099	Soil	25	29	0.49	20	0.010	<1	1.93	0.004	0.02	0.2	0.05	1.3	<0.1	0.06	7	<0.5	<0.2
130100	Soil	22	22	0.44	21	0.009	<1	1.60	0.009	0.02	0.1	0.03	0.9	<0.1	0.06	6	0.5	<0.2
130101	Soil	28	29	0.70	20	0.007	<1	2.00	0.004	0.03	0.1	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
130102	Soil	30	32	0.66	34	0.010	<1	2.42	0.006	0.02	0.2	0.06	1.4	<0.1	<0.05	7	<0.5	<0.2
130103	Soil	25	27	0.49	22	0.011	<1	1.71	0.006	0.03	0.2	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
130104	Soil	24	30	0.62	22	0.011	<1	2.02	0.005	0.02	0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
130105	Soil	15	26	0.55	31	0.004	<1	1.63	0.007	0.03	<0.1	0.01	0.4	<0.1	0.07	5	<0.5	<0.2
130106	Soil	25	27	0.55	31	0.020	2	1.95	0.005	0.02	0.2	0.05	1.1	<0.1	<0.05	5	0.6	<0.2
130107	Soil	27	28	0.45	30	0.011	<1	1.84	0.007	0.02	0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
130108	Soil	25	28	0.46	26	0.009	<1	1.61	0.006	0.03	0.1	0.04	1.0	<0.1	<0.05	8	1.0	<0.2
130109	Soil	14	27	0.23	56	0.005	1	1.47	0.009	0.03	0.1	0.05	0.3	<0.1	0.11	6	<0.5	<0.2
130110	Soil	13	24	0.37	34	0.007	<1	1.35	0.011	0.05	0.2	0.02	0.3	<0.1	0.09	5	<0.5	<0.2
130111	Soil	29	32	0.55	29	0.014	<1	1.98	0.004	0.03	0.4	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
130112	Soil	22	25	0.25	42	0.010	<1	1.31	0.008	0.03	0.1	0.04	0.6	<0.1	<0.05	7	<0.5	<0.2
130113	Soil	20	29	0.59	25	0.009	<1	1.67	0.004	0.02	0.2	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
130114	Soil	15	21	0.21	36	0.007	<1	1.37	0.009	0.02	0.1	0.06	0.6	<0.1	<0.05	7	<0.5	<0.2
130115	Soil	17	33	0.37	30	0.014	<1	1.95	0.008	0.02	0.1	0.06	1.1	<0.1	<0.05	9	0.7	<0.2
130116	Soil	18	25	0.31	31	0.009	<1	1.43	0.006	0.02	0.1	0.04	1.0	<0.1	<0.05	8	<0.5	<0.2
130117	Soil	28	28	0.62	22	0.009	<1	1.81	0.006	0.03	0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
130118	Soil	16	19	0.34	23	0.011	<1	1.36	0.010	0.02	<0.1	0.03	0.9	<0.1	<0.05	4	<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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130119	Soil				0.7	28.0	22.8	71	0.2	17.5	7.6	474	4.57	19.8	1.1	1.4	12.1	9	<0.1	0.5	0.7	17	0.01	0.071
130120	Soil				0.6	21.2	20.5	79	0.1	19.8	8.5	561	4.61	14.0	1.1	1.2	14.1	7	0.1	0.4	0.6	17	0.01	0.057
130121	Soil				0.5	24.0	20.2	85	<0.1	28.2	14.6	417	4.41	39.3	0.9	2.9	13.2	4	<0.1	0.3	0.5	17	0.02	0.039
130122	Soil				0.7	17.8	26.2	52	<0.1	11.7	5.8	394	4.28	14.6	1.0	<0.5	3.2	4	<0.1	0.3	0.5	20	0.01	0.128
130123	Soil				0.6	18.9	17.4	61	<0.1	13.0	5.6	389	3.60	13.5	1.0	0.5	4.1	5	<0.1	0.3	0.5	20	0.02	0.107
130124	Soil				0.7	16.1	24.7	69	0.2	13.9	8.0	574	4.54	18.2	0.8	0.7	6.1	7	<0.1	0.3	0.6	23	0.02	0.124
130125	Soil				0.7	12.1	20.7	50	0.2	8.6	4.7	307	4.89	11.0	0.8	<0.5	9.3	7	<0.1	0.2	0.4	23	0.02	0.163
130126	Soil				0.5	10.5	18.0	51	0.1	9.1	7.7	652	2.88	7.3	0.5	<0.5	3.4	6	0.1	0.3	0.4	17	0.02	0.117
130127	Soil				0.5	20.5	19.7	77	0.1	21.4	9.5	425	4.34	18.9	0.8	1.2	9.6	4	<0.1	0.2	0.5	18	0.02	0.103
147001	Soil				0.9	13.8	16.1	47	<0.1	13.2	5.9	284	4.38	16.0	0.7	0.6	5.4	4	<0.1	0.4	0.7	26	0.01	0.057
147002	Soil				0.5	17.2	17.1	78	<0.1	21.3	11.9	569	4.43	17.5	0.8	6.1	6.5	4	<0.1	0.3	0.6	17	0.02	0.047
147003	Soil				1.2	15.3	18.7	89	<0.1	20.6	9.2	468	3.83	29.4	0.9	<0.5	5.1	5	0.3	0.2	0.7	20	0.02	0.032
147004	Soil				0.6	16.7	9.5	23	<0.1	5.7	4.0	280	2.19	9.6	0.5	2.4	0.5	5	<0.1	0.2	0.3	17	0.02	0.072
147005	Soil				0.2	11.2	10.1	7	<0.1	1.9	1.0	63	0.52	2.0	0.4	<0.5	0.1	5	<0.1	<0.1	0.2	8	0.01	0.048
147006	Soil				0.7	16.4	18.4	38	<0.1	10.7	4.0	317	3.04	16.1	0.7	1.3	1.6	6	<0.1	0.4	0.6	16	0.03	0.091
147007	Soil				0.6	25.3	21.6	84	0.1	25.0	13.5	571	4.96	20.7	0.9	3.0	8.2	3	0.1	0.3	0.8	18	0.01	0.043
147008	Soil				0.8	12.5	5.8	9	<0.1	3.1	2.4	225	0.49	5.1	3.1	<0.5	0.3	8	<0.1	<0.1	0.1	6	0.06	0.044
147009	Soil				0.3	5.5	4.8	9	<0.1	2.0	1.2	82	0.70	3.3	0.4	0.5	<0.1	4	<0.1	0.1	0.1	8	0.02	0.030
147010	Soil				0.3	5.9	4.8	7	<0.1	1.9	0.7	33	0.61	13.5	0.3	14.4	0.1	4	<0.1	0.1	0.1	9	0.02	0.024
147011	Soil				0.2	4.4	1.8	5	<0.1	1.1	0.8	27	0.32	0.8	0.2	0.9	0.2	7	<0.1	<0.1	<0.1	11	0.09	0.051
147012	Soil				0.4	5.7	7.0	14	<0.1	3.7	2.2	123	1.34	11.6	0.4	2.0	0.2	4	<0.1	0.1	0.2	11	0.02	0.050
147013	Soil				1.0	9.1	6.8	33	<0.1	6.7	3.6	296	1.26	13.5	0.8	4.2	0.5	6	0.1	0.1	0.4	11	0.05	0.108
147014	Soil				1.4	17.7	11.8	46	0.2	8.7	4.7	367	2.18	48.6	2.2	1.5	0.6	14	0.2	0.3	0.8	20	0.15	0.099
147015	Soil				0.5	7.6	5.3	14	<0.1	2.3	2.4	951	0.63	3.5	0.3	<0.5	<0.1	5	0.2	0.1	0.2	11	0.02	0.028
147016	Soil				0.2	1.2	1.1	4	<0.1	0.8	0.5	13	0.16	1.5	0.3	<0.5	<0.1	6	0.2	<0.1	<0.1	3	0.04	0.021
147017	Soil				1.4	62.1	49.4	128	0.2	20.9	49.1	2038	3.88	108.2	6.5	21.2	1.9	9	1.4	0.5	1.6	20	0.06	0.183
147018	Soil				0.7	32.5	19.4	101	<0.1	32.0	17.7	652	4.72	38.7	1.1	8.8	9.7	3	0.2	0.3	1.0	19	0.02	0.059
147019	Soil				0.8	17.0	18.2	66	0.1	19.3	13.0	520	3.19	23.7	1.0	1.8	1.4	10	<0.1	0.2	0.6	15	0.11	0.185
147020	Soil				0.5	15.1	16.3	40	0.1	10.1	6.2	311	3.12	13.5	0.7	<0.5	5.9	6	<0.1	0.3	0.5	16	0.02	0.126
147021	Soil				0.3	6.3	5.5	17	0.1	4.3	2.0	114	1.31	6.4	0.3	<0.5	0.7	4	<0.1	0.1	0.2	10	0.01	0.071



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130119	Soil	25	25	0.48	30	0.008	<1	1.67	0.006	0.03	0.1	0.03	1.2	<0.1	<0.05	6	0.5	<0.2
130120	Soil	24	32	0.63	16	0.007	<1	1.98	0.005	0.02	0.1	0.03	1.3	<0.1	<0.05	6	0.8	<0.2
130121	Soil	22	31	0.77	22	0.004	<1	2.23	0.005	0.02	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
130122	Soil	9	17	0.28	36	0.008	3	1.05	0.009	0.02	0.1	0.04	0.5	<0.1	<0.05	7	<0.5	<0.2
130123	Soil	21	18	0.29	33	0.005	<1	1.22	0.007	0.03	0.2	0.04	0.7	<0.1	<0.05	6	<0.5	<0.2
130124	Soil	17	22	0.33	34	0.008	<1	1.57	0.011	0.03	0.1	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
130125	Soil	25	25	0.30	27	0.008	<1	1.73	0.004	0.02	0.1	0.04	1.1	<0.1	<0.05	8	0.8	<0.2
130126	Soil	17	14	0.22	45	0.008	<1	0.92	0.010	0.02	<0.1	0.04	0.7	<0.1	<0.05	5	0.6	<0.2
130127	Soil	25	26	0.56	32	0.006	<1	1.74	0.008	0.03	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
147001	Soil	15	21	0.29	21	0.011	<1	1.41	0.007	0.02	0.3	0.03	1.1	<0.1	<0.05	7	0.7	<0.2
147002	Soil	19	27	0.62	20	0.005	<1	1.90	0.007	0.02	0.3	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
147003	Soil	21	25	0.55	37	0.007	2	1.66	0.007	0.04	0.2	0.01	1.0	<0.1	<0.05	7	<0.5	<0.2
147004	Soil	8	12	0.10	35	0.009	<1	1.02	0.015	0.02	0.2	0.02	0.3	<0.1	0.08	5	0.6	<0.2
147005	Soil	6	3	0.02	17	0.004	<1	0.34	0.018	0.01	<0.1	0.02	0.2	<0.1	<0.05	3	<0.5	<0.2
147006	Soil	11	16	0.24	24	0.006	<1	0.99	0.012	0.02	0.2	0.04	0.3	<0.1	<0.05	5	<0.5	<0.2
147007	Soil	20	31	0.68	26	0.005	<1	2.05	0.006	0.02	0.1	0.02	1.1	<0.1	<0.05	7	0.5	<0.2
147008	Soil	4	2	0.03	24	0.011	<1	0.58	0.021	0.02	<0.1	0.03	0.3	<0.1	<0.05	2	0.6	<0.2
147009	Soil	3	4	0.04	12	0.008	<1	0.42	0.017	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
147010	Soil	4	4	0.03	13	0.012	<1	0.64	0.018	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
147011	Soil	3	2	0.03	15	0.017	<1	0.74	0.021	0.04	<0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
147012	Soil	5	8	0.06	19	0.005	<1	0.48	0.014	0.02	<0.1	0.02	0.2	<0.1	<0.05	3	<0.5	<0.2
147013	Soil	11	9	0.13	26	0.004	<1	0.89	0.010	0.03	0.1	0.02	0.2	<0.1	0.07	4	<0.5	<0.2
147014	Soil	9	15	0.13	44	0.004	<1	0.79	0.013	0.03	0.2	0.02	0.2	<0.1	0.08	5	<0.5	<0.2
147015	Soil	5	3	0.03	21	0.005	<1	0.21	0.015	0.02	<0.1	0.02	<0.1	<0.1	<0.05	3	<0.5	<0.2
147016	Soil	<1	1	0.01	8	0.005	<1	0.09	0.019	0.02	<0.1	0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
147017	Soil	17	22	0.34	68	0.007	<1	1.49	0.011	0.05	0.2	0.06	0.6	<0.1	0.06	6	0.8	<0.2
147018	Soil	24	30	0.70	22	0.006	<1	2.02	0.005	0.02	0.3	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
147019	Soil	16	23	0.44	26	0.004	<1	1.34	0.011	0.03	<0.1	0.03	0.3	<0.1	0.05	5	<0.5	<0.2
147020	Soil	16	15	0.24	33	0.010	<1	1.06	0.010	0.02	0.1	0.04	0.7	<0.1	<0.05	5	<0.5	<0.2
147021	Soil	6	6	0.10	13	0.016	<1	0.56	0.013	0.02	0.1	0.04	0.3	<0.1	<0.05	3	<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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
147022	Soil																							
147023	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147022	Soil	18	23	0.27	34	0.011	1	1.36	0.010	0.03	0.3	0.03	1.1	<0.1	0.07	9	<0.5	<0.2
147023	Soil	23	27	0.35	32	0.020	1	1.65	0.008	0.03	0.2	0.03	1.5	<0.1	0.06	8	0.7	<0.2
147024	Soil	24	26	0.56	19	0.011	<1	1.76	0.008	0.02	0.1	0.05	1.3	<0.1	<0.05	5	<0.5	<0.2
147025	Soil	24	30	0.43	26	0.015	2	1.95	0.007	0.02	<0.1	0.05	1.5	<0.1	<0.05	6	0.6	<0.2
147026	Soil	15	16	0.30	17	0.010	<1	1.05	0.008	0.02	0.2	0.03	0.6	<0.1	<0.05	4	<0.5	<0.2
147027	Soil	3	5	0.04	10	0.004	<1	0.39	0.027	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
147028	Soil	31	16	0.26	47	0.005	<1	1.08	0.017	0.03	0.2	0.02	0.8	<0.1	0.06	4	<0.5	<0.2
147029	Soil	13	12	0.14	31	0.009	<1	1.06	0.011	0.02	0.1	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
147030	Soil	20	16	0.28	49	0.006	<1	1.08	0.006	0.04	<0.1	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
147031	Soil	31	28	0.70	36	0.007	3	2.09	0.019	0.10	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
147032	Soil	12	14	0.14	30	0.014	<1	0.75	0.010	0.02	<0.1	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
118868	Soil	19	19	0.48	22	0.010	<1	1.34	0.010	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
118869	Soil	23	30	0.75	17	0.010	<1	2.07	0.003	0.02	0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
118870	Soil	19	11	0.13	15	0.006	<1	0.59	0.011	0.02	0.1	0.04	0.5	<0.1	<0.05	5	<0.5	<0.2
118871	Soil	24	29	0.75	17	0.007	3	1.93	0.005	0.03	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
118872	Soil	30	30	0.73	23	0.010	<1	2.02	0.006	0.03	0.1	<0.01	1.5	<0.1	<0.05	6	0.5	<0.2
118873	Soil	24	28	0.72	25	0.004	<1	1.86	0.007	0.03	0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
118874	Soil	21	30	0.72	28	0.011	<1	2.06	0.005	0.03	0.1	0.02	1.4	<0.1	<0.05	6	0.5	<0.2
118875	Soil	2	2	0.01	13	0.008	<1	0.47	0.023	0.02	<0.1	0.03	0.2	<0.1	<0.05	2	<0.5	<0.2
118876	Soil	3	3	0.02	11	0.006	<1	0.30	0.019	0.02	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
118877	Soil	13	23	0.41	19	0.004	<1	1.28	0.010	0.02	0.1	0.03	0.6	<0.1	0.08	5	<0.5	<0.2
118878	Soil	2	2	0.02	11	0.009	<1	0.51	0.025	0.02	<0.1	0.02	0.6	<0.1	<0.05	2	<0.5	<0.2
118879	Soil	21	13	0.13	26	0.012	1	0.85	0.007	0.02	0.2	0.02	0.5	<0.1	0.05	8	<0.5	<0.2
118880	Soil	7	7	0.06	16	0.006	<1	0.56	0.018	0.02	<0.1	0.02	0.2	<0.1	0.06	3	<0.5	<0.2
118881	Soil	9	7	0.11	14	0.008	<1	0.61	0.018	0.02	0.7	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
118882	Soil	23	29	0.51	31	0.007	<1	1.92	0.006	0.03	0.2	0.02	1.1	<0.1	<0.05	7	<0.5	<0.2
118883	Soil	19	20	0.33	33	0.006	<1	1.44	0.007	0.02	0.2	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
118884	Soil	21	25	0.43	18	0.006	<1	1.50	0.005	0.02	0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
118885	Soil	17	18	0.36	16	0.007	<1	1.23	0.011	0.02	0.1	0.01	0.6	<0.1	<0.05	4	0.5	<0.2
118886	Soil	29	30	0.74	18	0.011	<1	1.88	0.004	0.03	0.1	0.01	1.5	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
118887	Soil	0.4	5.8	6.6	16	<0.1	5.2	2.1	72	1.01	4.2	0.3	2.1	0.2	4	<0.1	0.1	0.1	9	0.02	0.033
118888	Soil	0.6	29.4	15.9	80	0.1	25.9	13.7	372	3.96	19.3	1.0	22.8	10.1	23	<0.1	0.4	0.5	15	0.04	0.053
118889	Soil	0.3	5.7	5.9	18	<0.1	3.8	1.9	173	1.16	10.0	0.3	4.3	0.3	4	<0.1	<0.1	0.2	10	0.02	0.040
118890	Soil	0.3	5.4	6.2	15	<0.1	3.3	2.0	173	1.12	12.9	0.3	0.9	0.1	4	0.1	0.1	0.2	9	0.02	0.041
118891	Soil	0.1	3.7	3.0	10	<0.1	1.9	1.0	43	0.47	1.8	0.2	1.8	0.1	4	<0.1	<0.1	<0.1	6	0.02	0.058
118892	Soil	0.2	17.6	7.1	20	0.1	6.2	3.4	80	0.96	6.7	0.7	0.9	0.2	4	<0.1	<0.1	0.2	6	0.02	0.044
118893	Soil	0.4	6.3	5.6	17	<0.1	4.2	1.3	67	0.87	5.4	0.3	0.9	0.1	3	<0.1	0.1	0.2	13	0.02	0.071
118894	Soil	1.0	40.8	27.7	118	0.1	49.7	35.4	688	5.24	41.7	1.4	5.1	13.3	5	<0.1	0.4	0.6	22	0.04	0.069
118895	Soil	0.8	24.6	26.2	82	0.2	17.4	15.9	1353	5.18	17.5	1.0	2.5	4.5	6	0.2	0.4	0.5	26	0.03	0.131
118896	Soil	0.2	6.4	7.1	16	<0.1	3.9	1.8	110	1.33	3.9	0.3	1.5	0.2	3	<0.1	0.1	0.2	20	0.02	0.052
118897	Soil	0.4	7.7	12.9	28	<0.1	6.6	2.9	109	1.88	4.2	0.5	3.0	1.1	4	<0.1	0.1	0.3	16	0.02	0.037
118898	Soil	0.5	6.5	11.4	19	<0.1	6.1	2.0	111	1.53	4.2	0.4	2.1	0.2	4	<0.1	0.2	0.2	16	0.02	0.058
118899	Soil	0.6	32.0	37.7	100	0.2	33.7	18.2	491	5.88	23.9	1.1	0.7	10.8	4	<0.1	0.3	0.6	23	0.04	0.080
118900	Soil	0.5	96.9	29.5	139	0.4	114.1	20.4	339	3.93	10.3	3.0	1.8	5.0	39	<0.1	0.3	0.4	15	0.49	0.116
130128	Soil	0.5	47.4	34.5	100	0.2	30.0	20.2	1161	3.80	9.8	1.1	6.6	5.3	4	0.2	0.2	1.2	24	0.07	0.058
130129	Soil	0.5	45.5	35.6	126	0.1	41.8	34.7	1847	5.14	12.6	1.7	5.1	12.0	4	0.1	0.3	1.3	25	0.05	0.055
130130	Soil	0.5	59.1	17.5	100	0.2	30.4	19.3	1700	4.08	7.4	1.5	7.1	11.0	5	0.1	0.4	1.3	24	0.03	0.057
130131	Soil	0.2	20.8	21.1	111	<0.1	42.6	20.1	921	5.37	0.8	1.6	9.6	15.4	10	<0.1	<0.1	1.0	22	0.15	0.043
130132	Soil	0.9	21.9	16.5	60	<0.1	21.3	11.3	987	3.41	14.2	0.9	1.7	1.5	4	<0.1	0.3	0.4	23	0.03	0.096
130133	Soil	1.0	43.2	26.9	121	<0.1	38.1	25.7	1635	4.98	23.3	1.0	41.4	6.3	5	0.3	0.3	1.4	19	0.06	0.098
130134	Soil	0.5	18.8	13.1	53	0.2	13.5	5.8	228	1.89	90.7	1.1	19.9	0.7	6	0.1	0.2	0.6	19	0.05	0.090
130135	Soil	0.2	34.4	13.7	122	<0.1	44.8	20.4	803	5.38	6.4	2.6	5.8	12.1	5	<0.1	0.1	0.7	23	0.03	0.044
130136	Soil	0.8	52.0	17.7	162	0.1	45.9	26.7	1683	5.36	15.1	3.7	5.5	16.3	6	0.4	0.2	1.2	19	0.10	0.067
130137	Soil	0.3	41.5	18.9	156	<0.1	42.7	27.6	1535	5.43	30.5	2.3	<0.5	12.0	3	0.2	0.2	1.2	22	0.03	0.057
130138	Soil	0.7	43.0	24.1	137	0.1	41.8	24.9	816	5.28	95.3	1.7	2.8	13.7	8	0.5	0.4	0.9	17	0.05	0.048
130139	Soil	0.6	37.7	28.5	103	0.1	37.8	18.5	757	5.09	26.0	1.1	3.3	12.8	6	0.1	0.4	0.8	20	0.05	0.057
130140	Soil	0.8	41.1	33.4	114	0.1	44.1	22.6	911	5.51	21.0	1.0	1.6	16.7	6	<0.1	0.3	0.9	20	0.06	0.056
130141	Soil	0.7	55.6	28.0	138	0.1	40.1	21.6	474	6.00	135.9	1.4	9.5	15.8	11	0.4	0.9	1.8	20	0.02	0.090
130142	Soil	0.7	29.5	24.5	85	<0.1	22.9	9.7	469	5.31	39.8	1.0	4.3	8.4	6	0.1	0.7	0.8	23	0.02	0.095
130143	Soil	0.5	24.7	17.4	59	<0.1	13.6	7.1	256	3.34	200.6	0.7	17.7	6.4	8	0.1	0.6	0.6	17	0.05	0.079



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118887	Soil	6	8	0.08	18	0.005	<1	0.36	0.016	0.02	<0.1	<0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
118888	Soil	19	27	0.58	20	0.008	<1	2.18	0.006	0.02	0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
118889	Soil	4	6	0.06	15	0.005	2	0.43	0.013	0.02	<0.1	0.04	0.3	<0.1	<0.05	2	<0.5	<0.2
118890	Soil	4	6	0.06	14	0.004	<1	0.40	0.017	0.02	<0.1	0.03	0.2	<0.1	<0.05	2	<0.5	<0.2
118891	Soil	2	4	0.03	10	0.004	<1	0.24	0.022	0.03	<0.1	0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
118892	Soil	14	7	0.08	11	0.004	<1	0.50	0.013	0.02	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
118893	Soil	4	8	0.05	13	0.004	<1	0.34	0.014	0.02	<0.1	0.02	0.3	<0.1	0.06	2	<0.5	<0.2
118894	Soil	28	36	0.70	26	0.008	<1	2.55	0.006	0.03	0.1	0.03	1.9	<0.1	<0.05	6	0.6	<0.2
118895	Soil	20	25	0.38	49	0.009	1	1.74	0.008	0.02	1.2	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
118896	Soil	6	6	0.05	15	0.009	1	0.46	0.012	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
118897	Soil	15	13	0.18	25	0.008	<1	0.96	0.011	0.02	0.1	<0.01	0.4	<0.1	<0.05	4	0.7	<0.2
118898	Soil	11	9	0.07	19	0.007	1	0.52	0.012	0.02	<0.1	<0.01	0.3	<0.1	<0.05	4	<0.5	<0.2
118899	Soil	30	28	0.66	17	0.005	<1	2.15	0.003	0.03	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
118900	Soil	73	24	0.57	23	0.003	1	1.77	0.006	0.02	0.1	0.03	1.3	<0.1	0.05	4	1.1	<0.2
130128	Soil	22	23	0.53	23	0.009	<1	1.61	0.009	0.02	<0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
130129	Soil	37	31	0.74	39	0.011	1	2.00	0.008	0.03	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
130130	Soil	34	22	0.57	38	0.020	<1	1.55	0.009	0.03	0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
130131	Soil	36	33	0.71	14	<0.001	<1	2.31	0.004	0.02	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
130132	Soil	15	25	0.31	19	0.009	<1	1.23	0.009	0.03	0.1	0.03	0.7	<0.1	<0.05	5	1.0	<0.2
130133	Soil	29	33	0.66	29	0.008	2	2.04	0.005	0.03	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
130134	Soil	17	15	0.29	30	0.007	<1	1.22	0.011	0.03	0.1	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
130135	Soil	47	33	0.81	19	0.004	<1	2.18	0.005	0.02	<0.1	<0.01	1.8	<0.1	<0.05	7	<0.5	<0.2
130136	Soil	61	34	0.97	25	0.005	<1	2.35	0.007	0.03	<0.1	<0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
130137	Soil	45	33	0.83	25	0.003	<1	2.37	0.004	0.03	<0.1	<0.01	2.2	<0.1	<0.05	7	<0.5	<0.2
130138	Soil	41	30	0.74	20	0.007	<1	1.99	0.005	0.03	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
130139	Soil	31	30	0.72	14	0.005	<1	2.01	0.004	0.02	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
130140	Soil	38	35	0.86	13	0.006	3	2.22	0.004	0.02	0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
130141	Soil	37	28	0.63	16	0.006	<1	2.03	0.005	0.03	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
130142	Soil	32	29	0.64	23	0.009	<1	1.86	0.003	0.02	0.1	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
130143	Soil	24	17	0.37	19	0.010	<1	1.25	0.011	0.03	0.2	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130144	Soil																							
130145	Soil																							
130146	Soil																							
130147	Soil																							
130148	Soil																							
130149	Soil																							
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147042	Soil																							



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Client: **Stakeholder Gold Corp.**
203 - 680 Third Ave.
Val D'Or QC J9P 1S5 Canada

Project: Culvert
Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

DAW11000257.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130144	Soil	34	28	0.55	24	0.009	<1	1.92	0.004	0.02	0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
130145	Soil	18	12	0.26	17	0.010	<1	1.05	0.012	0.02	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
130146	Soil	32	27	0.49	22	0.010	<1	1.71	0.004	0.02	0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
130147	Soil	27	21	0.25	18	0.009	<1	1.26	0.004	0.02	0.2	0.04	0.8	<0.1	<0.05	9	<0.5	<0.2
130148	Soil	14	12	0.23	20	0.008	<1	1.08	0.010	0.02	0.1	0.01	0.4	<0.1	<0.05	4	<0.5	<0.2
130149	Soil	25	26	0.41	46	0.011	<1	1.81	0.006	0.02	0.1	0.01	1.2	<0.1	<0.05	7	<0.5	<0.2
130150	Soil	25	25	0.44	24	0.011	<1	1.58	0.007	0.02	0.1	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
130151	Soil	19	22	0.33	38	0.018	<1	1.49	0.007	0.02	0.2	0.02	0.6	<0.1	<0.05	8	<0.5	<0.2
130152	Soil	22	22	0.42	24	0.013	<1	1.60	0.009	0.02	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
130153	Soil	4	2	0.05	12	0.011	<1	0.52	0.021	0.02	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
130154	Soil	21	34	0.47	37	0.022	<1	2.25	0.006	0.02	0.1	0.03	1.2	<0.1	<0.05	8	<0.5	<0.2
130155	Soil	65	20	0.44	20	0.010	<1	1.65	0.009	0.02	0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
130156	Soil	101	33	0.86	17	0.001	2	2.62	0.004	0.02	<0.1	0.03	2.4	<0.1	<0.05	8	<0.5	<0.2
130157	Soil	39	25	0.46	28	0.011	4	1.75	0.011	0.02	<0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
130158	Soil	20	12	0.21	28	0.004	<1	0.84	0.013	0.02	<0.1	0.03	0.3	<0.1	<0.05	3	<0.5	<0.2
130159	Soil	35	32	0.74	27	0.003	1	2.16	0.005	0.03	0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
130160	Soil	33	34	0.78	20	0.004	2	2.42	0.003	0.02	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
130161	Soil	21	14	0.20	42	0.008	<1	1.30	0.008	0.03	0.2	0.04	0.7	<0.1	<0.05	7	<0.5	<0.2
130162	Soil	27	23	0.36	36	0.007	1	1.56	0.005	0.03	0.2	0.05	1.2	<0.1	<0.05	8	<0.5	<0.2
130163	Soil	27	17	0.30	30	0.008	<1	1.17	0.005	0.02	0.1	0.01	0.9	<0.1	<0.05	7	<0.5	<0.2
147033	Soil	18	21	0.48	19	0.003	1	1.42	0.006	0.04	<0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
147034	Soil	23	23	0.38	22	0.007	<1	1.43	0.006	0.03	0.1	0.02	0.6	<0.1	<0.05	8	0.7	<0.2
147035	Soil	38	28	0.76	33	0.002	<1	2.16	0.010	0.05	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	0.3
147036	Soil	25	28	0.64	23	0.008	<1	1.97	0.006	0.03	<0.1	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
147037	Soil	24	29	0.28	45	0.009	<1	1.50	0.007	0.03	0.1	0.03	0.8	<0.1	<0.05	8	<0.5	<0.2
147038	Soil	18	33	0.32	84	0.011	<1	1.82	0.007	0.04	<0.1	0.06	0.5	<0.1	0.10	8	0.5	<0.2
147039	Soil	37	30	0.65	18	0.003	<1	1.98	0.004	0.03	0.2	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
147040	Soil	39	31	0.69	20	0.003	<1	2.03	0.004	0.03	0.2	0.01	1.2	<0.1	<0.05	7	<0.5	<0.2
147041	Soil	21	31	0.42	40	0.009	<1	1.91	0.008	0.03	0.3	0.06	0.7	<0.1	0.07	7	<0.5	<0.2
147042	Soil	8	9	0.12	23	0.006	<1	0.84	0.017	0.02	<0.1	0.03	0.3	<0.1	<0.05	3	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
147043	Soil	0.6	31.1	19.0	89	<0.1	28.7	22.2	1027	3.40	29.3	0.9	48.6	4.0	5	0.1	0.3	1.0	16	0.03	0.069
147044	Soil	0.3	11.1	11.5	37	<0.1	11.2	16.3	1101	1.59	27.5	0.5	2.3	0.6	6	0.2	0.1	0.2	12	0.03	0.057
147045	Soil	0.4	22.7	16.0	52	<0.1	16.1	11.6	665	2.62	25.8	0.8	3.8	1.1	6	<0.1	0.2	0.6	16	0.04	0.082
147046	Soil	0.4	34.6	19.6	89	0.1	26.0	14.2	566	4.53	69.1	1.1	11.9	5.7	5	0.1	0.4	0.8	18	0.03	0.091
147047	Soil	0.5	29.7	22.0	69	<0.1	21.5	19.6	979	3.75	118.5	1.1	31.6	2.4	6	0.3	0.6	1.1	17	0.02	0.109
147048	Soil	0.7	52.1	35.1	146	<0.1	54.9	60.9	1178	5.25	248.5	1.6	33.7	6.9	10	0.3	0.7	1.2	22	0.03	0.103
147049	Soil	0.8	55.1	38.4	138	0.2	59.7	72.2	686	4.96	86.2	2.2	33.2	13.6	20	0.2	0.9	1.1	16	0.02	0.066
147050	Soil	0.5	39.8	32.4	100	0.2	34.6	18.2	442	5.12	38.8	1.6	2.7	10.8	9	0.1	0.9	0.9	19	0.02	0.089
147051	Soil	0.6	33.5	24.7	73	0.2	17.5	8.8	451	4.60	29.1	1.3	1.5	6.1	9	<0.1	0.6	0.7	22	0.01	0.099
147052	Soil	0.7	55.3	30.4	96	0.1	29.8	16.1	446	5.09	50.1	1.6	3.1	7.3	11	<0.1	0.8	1.0	22	0.02	0.127
147053	Soil	0.7	22.9	22.3	71	0.1	19.2	8.1	356	6.13	42.7	0.9	<0.5	9.2	6	0.1	0.5	1.0	30	0.02	0.130
147054	Soil	0.4	25.3	26.2	88	<0.1	19.0	8.2	417	4.96	16.5	1.3	2.8	11.3	13	<0.1	0.9	0.7	17	0.01	0.073
147055	Soil	0.5	39.3	27.8	89	0.2	23.5	12.6	593	4.86	21.7	1.8	2.4	8.6	9	0.2	0.5	0.7	21	0.02	0.110
147056	Soil	0.8	29.5	28.6	77	0.2	16.3	7.5	548	5.14	21.1	1.5	1.0	8.2	14	0.1	0.4	0.6	23	0.03	0.096
147057	Soil	0.7	33.8	24.3	63	0.2	11.0	5.1	408	5.82	22.1	1.3	<0.5	10.7	10	0.2	0.5	0.7	27	0.02	0.102
147058	Soil	0.7	20.1	19.6	56	<0.1	11.9	4.2	472	4.71	14.6	1.1	<0.5	10.3	10	0.1	0.4	0.6	21	0.02	0.078
147059	Soil	0.8	18.8	18.1	70	<0.1	18.1	8.1	485	4.41	11.9	0.8	<0.5	10.2	9	<0.1	0.3	0.5	22	0.03	0.054
147060	Soil	0.9	25.3	22.2	64	<0.1	21.5	8.5	405	3.74	12.6	1.2	3.0	10.5	9	0.2	0.6	0.5	14	0.02	0.074
147061	Soil	0.8	38.2	20.1	54	0.1	17.4	8.5	407	3.96	12.7	1.3	<0.5	2.5	10	0.2	0.3	0.5	22	0.06	0.126
147062	Soil	0.6	9.9	10.4	27	0.1	7.7	5.5	305	2.37	6.4	0.5	<0.5	3.5	4	<0.1	0.2	0.3	17	0.02	0.071
147063	Soil	0.7	17.7	23.7	73	0.2	15.9	8.7	558	4.66	17.6	0.8	<0.5	7.6	5	0.1	0.4	0.5	25	0.02	0.092
147064	Soil	1.1	13.8	58.0	87	0.2	15.5	12.9	761	5.27	13.0	0.5	<0.5	9.4	5	0.2	0.3	0.7	28	0.02	0.138
147065	Soil	0.9	25.7	30.9	73	0.2	13.9	5.9	337	6.31	23.2	1.2	<0.5	9.7	4	0.1	0.4	0.8	28	0.01	0.167
147066	Soil	0.4	9.9	19.7	52	0.3	7.9	3.5	178	3.38	7.4	0.5	1.6	6.8	5	<0.1	0.1	0.4	17	0.02	0.109
147067	Soil	0.8	25.9	25.6	92	0.2	21.4	11.3	761	5.06	19.2	1.0	<0.5	7.9	8	0.2	0.3	0.7	18	0.05	0.157
121972	Soil	1.6	111.2	57.1	151	0.2	48.8	41.6	850	5.23	48.2	2.8	5.9	16.7	5	0.1	0.6	1.7	18	0.02	0.054
121973	Soil	0.8	19.4	22.6	52	0.2	15.3	8.3	768	4.18	22.6	1.0	16.7	6.5	5	<0.1	0.4	0.7	27	0.02	0.081
121974	Soil	0.6	21.9	19.4	65	<0.1	16.7	13.2	729	2.81	10.0	1.1	2.4	1.8	7	0.2	0.3	1.1	19	0.04	0.068
121975	Soil	<0.1	6.0	1.9	4	<0.1	0.8	0.5	14	0.25	0.6	0.3	<0.5	0.2	6	<0.1	<0.1	<0.1	5	0.06	0.031
121976	Soil	0.6	25.5	10.8	38	0.1	9.6	7.2	547	3.01	6.9	1.1	<0.5	4.9	5	<0.1	0.3	0.6	20	0.02	0.047



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147043	Soil	30	21	0.53	20	0.007	<1	1.57	0.010	0.02	<0.1	0.02	0.7	<0.1	<0.05	5	0.8	<0.2
147044	Soil	11	11	0.22	28	0.006	<1	0.65	0.018	0.03	0.1	0.03	0.3	<0.1	<0.05	3	<0.5	<0.2
147045	Soil	18	17	0.30	33	0.008	1	1.30	0.013	0.03	0.3	0.02	0.4	<0.1	<0.05	5	<0.5	<0.2
147046	Soil	36	28	0.59	18	0.007	<1	1.83	0.004	0.03	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
147047	Soil	24	22	0.36	29	0.008	<1	1.47	0.010	0.03	0.5	0.05	0.6	<0.1	<0.05	5	0.9	<0.2
147048	Soil	39	28	0.64	31	0.007	<1	2.04	0.004	0.03	0.5	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
147049	Soil	47	27	0.70	23	0.005	<1	1.89	0.005	0.03	0.4	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
147050	Soil	46	30	0.58	19	0.006	<1	1.91	0.005	0.02	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
147051	Soil	36	26	0.49	24	0.009	<1	1.71	0.010	0.04	<0.1	0.03	1.0	<0.1	<0.05	6	0.7	<0.2
147052	Soil	48	27	0.57	27	0.010	<1	1.87	0.007	0.04	0.2	0.04	1.4	<0.1	0.06	6	<0.5	<0.2
147053	Soil	33	31	0.50	21	0.014	<1	1.70	0.005	0.04	0.1	0.03	1.2	<0.1	<0.05	9	<0.5	<0.2
147054	Soil	44	28	0.65	20	0.004	<1	1.87	0.005	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
147055	Soil	41	28	0.56	26	0.007	<1	1.97	0.006	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	1.3	<0.2
147056	Soil	27	24	0.33	24	0.008	2	1.59	0.009	0.04	<0.1	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
147057	Soil	31	28	0.35	25	0.011	1	1.73	0.008	0.04	0.1	0.09	1.3	<0.1	<0.05	7	<0.5	<0.2
147058	Soil	27	26	0.43	20	0.008	<1	1.63	0.006	0.03	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
147059	Soil	24	30	0.59	22	0.011	<1	1.83	0.005	0.02	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
147060	Soil	28	31	0.57	19	0.007	2	1.68	0.006	0.04	0.1	0.05	1.2	<0.1	<0.05	4	0.6	<0.2
147061	Soil	32	24	0.43	33	0.006	<1	1.64	0.007	0.02	<0.1	0.01	0.7	<0.1	0.10	6	1.4	<0.2
147062	Soil	10	13	0.14	22	0.016	<1	1.12	0.013	0.02	0.1	0.04	0.7	<0.1	<0.05	5	1.4	<0.2
147063	Soil	19	25	0.45	29	0.012	<1	1.66	0.007	0.03	0.1	0.04	1.1	<0.1	<0.05	7	0.9	<0.2
147064	Soil	28	24	0.27	41	0.006	<1	1.38	0.006	0.03	0.1	0.03	1.0	<0.1	<0.05	9	1.1	<0.2
147065	Soil	33	30	0.46	27	0.012	<1	1.90	0.006	0.02	0.1	0.02	1.4	<0.1	<0.05	9	1.2	<0.2
147066	Soil	24	13	0.27	34	0.011	<1	1.15	0.008	0.03	0.1	<0.01	0.8	<0.1	<0.05	5	1.4	<0.2
147067	Soil	23	24	0.49	38	0.004	<1	1.55	0.006	0.03	0.1	0.05	1.0	<0.1	0.06	6	0.7	<0.2
121972	Soil	29	31	0.74	24	0.005	2	2.27	0.004	0.02	0.1	0.02	1.4	<0.1	<0.05	5	0.7	<0.2
121973	Soil	26	20	0.27	32	0.009	<1	1.25	0.006	0.03	0.2	0.09	0.8	<0.1	0.05	7	1.0	<0.2
121974	Soil	19	18	0.31	39	0.010	<1	1.41	0.010	0.03	0.1	0.02	0.6	<0.1	<0.05	5	1.1	<0.2
121975	Soil	2	1	0.02	12	0.018	<1	0.63	0.020	0.02	<0.1	<0.01	0.3	<0.1	<0.05	2	0.8	<0.2
121976	Soil	14	14	0.19	35	0.015	<1	1.39	0.013	0.03	0.1	0.03	0.8	<0.1	<0.05	6	1.4	<0.2



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		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
121977	Soil	1.2	75.0	40.8	111	0.2	32.9	37.8	1392	4.53	82.7	1.9	42.2	11.5	4	<0.1	0.7	1.6	18	0.03	0.068
121978	Soil	1.0	31.3	24.9	77	0.3	22.2	16.3	914	4.74	22.4	1.2	<0.5	4.3	5	0.1	0.4	0.8	27	0.02	0.108
121979	Soil	<0.1	1.4	1.5	4	<0.1	0.7	0.6	31	0.28	<0.5	0.2	<0.5	<0.1	5	<0.1	<0.1	<0.1	6	0.02	0.021
121980	Soil	0.8	37.7	13.2	79	0.2	18.8	14.2	719	4.07	34.8	1.2	9.1	4.4	4	<0.1	0.4	1.0	21	0.02	0.079
121981	Soil	1.2	31.5	22.3	98	0.1	30.7	22.3	1046	3.85	43.7	4.3	3.5	6.1	5	<0.1	0.2	0.8	17	0.04	0.110
121982	Soil	0.6	18.1	14.1	68	0.1	16.7	9.4	613	4.39	44.8	0.8	17.7	4.3	5	0.1	0.3	0.7	23	0.02	0.139
121983	Soil	1.6	60.1	46.6	108	0.2	35.8	20.8	960	5.25	46.8	1.8	71.8	15.6	4	0.1	0.4	1.3	22	0.02	0.051
121984	Soil	0.3	9.0	7.7	32	<0.1	7.6	5.1	432	1.38	29.2	0.8	2.1	0.7	4	<0.1	<0.1	0.3	10	0.02	0.070
121985	Soil	0.5	25.9	36.0	103	0.2	23.0	18.3	1172	4.31	51.7	0.9	40.9	2.6	8	0.3	0.3	0.9	23	0.08	0.146
121986	Soil	0.4	9.0	7.6	27	<0.1	5.6	8.0	640	1.68	35.1	0.4	5.7	0.3	7	0.2	0.2	0.3	12	0.06	0.073
121987	Soil	0.7	26.8	23.2	92	0.2	22.9	16.2	958	4.58	36.1	0.9	18.0	2.0	6	0.3	0.4	0.7	27	0.05	0.145
121988	Soil	0.7	11.7	9.3	35	0.1	5.9	7.5	847	1.69	10.5	0.5	<0.5	0.2	6	0.3	0.2	0.3	15	0.06	0.110
121989	Soil	0.6	33.4	20.9	80	0.1	26.4	13.7	585	4.43	30.1	1.0	<0.5	6.7	5	0.2	0.4	0.6	21	0.03	0.090
121990	Soil	0.6	27.6	21.3	88	0.1	25.7	11.6	431	5.25	28.8	0.9	1.0	11.7	5	<0.1	0.4	0.6	21	0.01	0.097
121991	Soil	0.5	14.9	12.1	29	<0.1	7.2	4.0	288	2.51	13.1	0.6	<0.5	1.8	7	<0.1	0.3	0.5	17	0.01	0.067



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.01	0.1	0.05	1	0.5	0.2
121977	Soil	22	24	0.41	28	0.007	1	1.56	0.007	0.03	0.4	0.06	1.2	<0.1	<0.05	6	1.3	<0.2
121978	Soil	27	26	0.40	32	0.011	<1	1.70	0.007	0.03	0.1	0.04	0.9	<0.1	<0.05	8	1.6	<0.2
121979	Soil	<1	1	0.01	7	0.006	<1	0.16	0.022	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	0.5	<0.2
121980	Soil	18	19	0.33	25	0.010	<1	1.38	0.008	0.03	0.3	0.05	0.8	<0.1	<0.05	6	0.8	<0.2
121981	Soil	20	26	0.67	22	0.006	<1	1.80	0.006	0.03	0.1	<0.01	0.9	<0.1	<0.05	6	1.3	<0.2
121982	Soil	25	21	0.35	31	0.012	<1	1.42	0.008	0.03	0.3	0.03	0.7	<0.1	<0.05	7	0.9	<0.2
121983	Soil	35	34	0.78	23	0.009	<1	2.34	0.004	0.02	0.2	0.03	1.8	<0.1	<0.05	7	1.4	<0.2
121984	Soil	7	9	0.16	23	0.004	<1	0.68	0.016	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	0.8	<0.2
121985	Soil	17	24	0.54	20	0.005	<1	1.65	0.006	0.03	0.2	<0.01	0.8	<0.1	<0.05	6	0.8	<0.2
121986	Soil	8	9	0.11	25	0.005	<1	0.68	0.014	0.03	<0.1	<0.01	0.2	<0.1	<0.05	4	0.8	<0.2
121987	Soil	29	27	0.52	29	0.011	<1	1.64	0.004	0.03	0.1	0.03	0.8	<0.1	<0.05	6	0.8	<0.2
121988	Soil	12	9	0.06	31	0.005	<1	0.49	0.015	0.04	<0.1	0.02	0.2	<0.1	0.05	4	0.6	<0.2
121989	Soil	34	28	0.57	29	0.009	1	1.83	0.004	0.02	0.1	<0.01	1.2	<0.1	<0.05	6	0.5	<0.2
121990	Soil	30	31	0.71	19	0.009	<1	2.06	0.002	0.02	0.1	0.02	1.4	<0.1	<0.05	7	0.6	<0.2
121991	Soil	17	13	0.16	31	0.012	<1	0.94	0.010	0.02	0.2	0.02	0.6	<0.1	<0.05	5	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Pulp Duplicates		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
130074	Soil	0.6	25.3	17.3	84	0.1	27.3	13.2	601	4.45	112.3	1.0	89.4	9.7	3	<0.1	0.3	0.8	18	0.02	0.056
REP 130074	QC	0.6	24.9	16.7	82	0.1	25.4	12.2	575	4.26	109.0	0.8	103.0	9.1	3	<0.1	0.3	0.7	17	0.02	0.054
130089	Soil	0.5	11.7	18.3	59	0.1	11.9	6.1	570	4.02	14.8	0.5	<0.5	5.6	8	<0.1	0.3	0.4	18	0.04	0.088
REP 130089	QC	0.5	12.6	17.8	62	0.1	12.5	6.5	584	4.18	14.5	0.5	<0.5	6.4	9	<0.1	0.3	0.5	18	0.04	0.095
121957	Soil	0.7	19.1	14.5	80	0.2	19.9	12.4	708	5.96	19.8	0.9	4.3	9.6	4	<0.1	0.3	0.6	21	0.01	0.083
REP 121957	QC	0.6	18.6	14.7	80	0.2	20.2	11.7	697	5.55	19.0	0.9	31.0	9.6	4	<0.1	0.3	0.5	21	0.01	0.084
120987	Soil	1.6	56.7	26.8	95	0.3	37.2	12.2	359	6.28	18.2	1.5	1.8	11.3	37	0.2	0.6	0.6	18	0.02	0.105
REP 120987	QC	1.6	58.5	26.2	99	0.2	37.7	12.0	356	6.16	18.9	1.5	2.4	11.4	36	0.1	0.6	0.6	19	0.02	0.105
118837	Soil	0.8	55.7	38.8	67	0.2	18.1	8.7	345	4.20	22.2	1.9	2.3	6.2	13	<0.1	0.5	0.7	17	0.03	0.107
REP 118837	QC	0.9	55.4	40.0	67	0.2	18.3	8.7	354	4.16	22.9	2.1	3.2	6.7	14	<0.1	0.6	0.7	17	0.03	0.115
118863	Soil	0.8	29.1	24.6	70	0.1	34.1	24.1	442	3.15	9.5	1.2	0.7	5.9	23	<0.1	0.2	0.4	15	0.03	0.052
REP 118863	QC	0.9	29.9	24.9	70	0.1	34.1	24.1	454	3.25	9.8	1.2	1.6	5.8	24	0.1	0.3	0.4	16	0.03	0.055
121942	Soil	1.3	88.3	35.7	221	0.2	62.1	63.8	2172	5.58	78.2	13.4	4.0	20.4	7	0.3	0.5	1.5	17	0.05	0.064
REP 121942	QC	1.3	84.3	35.3	210	0.2	61.0	62.2	2149	5.45	78.7	13.6	2.1	20.4	7	0.2	0.5	1.8	16	0.05	0.063
121943	Soil	0.9	61.8	28.6	136	0.1	37.3	35.3	1471	4.01	26.1	2.4	9.5	10.9	6	0.3	0.3	1.3	20	0.05	0.072
REP 121943	QC	1.0	62.4	29.0	138	0.1	39.1	36.2	1498	4.07	25.7	2.5	5.6	11.6	6	0.2	0.4	1.3	19	0.04	0.076
130107	Soil	0.8	32.3	23.1	75	0.1	21.6	13.0	891	4.35	43.1	1.0	9.5	3.2	4	0.2	0.4	0.9	24	0.02	0.093
REP 130107	QC	0.7	32.5	22.9	76	0.1	22.5	12.6	911	4.39	43.5	1.0	11.0	3.5	4	0.2	0.4	0.9	24	0.02	0.092
130116	Soil	0.7	18.9	21.2	58	0.2	13.5	5.9	454	5.40	25.4	0.9	0.8	8.2	7	0.2	0.5	0.6	22	0.01	0.137
REP 130116	QC	0.7	17.8	21.0	54	0.1	12.7	5.8	442	5.28	24.3	0.9	0.9	8.4	7	0.1	0.5	0.6	22	0.01	0.140
147012	Soil	0.4	5.7	7.0	14	<0.1	3.7	2.2	123	1.34	11.6	0.4	2.0	0.2	4	<0.1	0.1	0.2	11	0.02	0.050
REP 147012	QC	0.4	5.5	6.5	14	<0.1	3.8	2.3	130	1.34	11.5	0.4	2.1	0.2	4	<0.1	0.1	0.2	10	0.02	0.050
147021	Soil	0.3	6.3	5.5	17	0.1	4.3	2.0	114	1.31	6.4	0.3	<0.5	0.7	4	<0.1	0.1	0.2	10	0.01	0.071
REP 147021	QC	0.3	6.9	6.1	18	0.1	4.7	2.2	121	1.46	7.0	0.4	1.3	0.8	4	<0.1	0.1	0.2	11	0.01	0.077
118869	Soil	0.6	31.0	25.3	102	<0.1	32.3	19.1	719	4.47	15.8	1.2	2.2	10.5	4	0.1	0.3	0.7	20	0.06	0.063
REP 118869	QC	0.7	30.5	26.2	103	<0.1	32.3	20.1	732	4.64	16.1	1.0	4.4	10.8	5	0.1	0.3	0.7	20	0.06	0.066
118886	Soil	0.5	23.9	15.9	88	<0.1	31.0	19.3	512	4.17	14.7	0.9	64.5	9.1	7	<0.1	0.3	0.6	20	0.09	0.072
REP 118886	QC	0.6	24.9	15.9	90	<0.1	29.8	20.1	527	4.30	15.5	0.9	5.7	9.0	7	<0.1	0.3	0.6	19	0.09	0.074



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
130074	Soil	29	28	0.67	20	0.005	<1	2.13	0.005	0.03	0.9	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
REP 130074	QC	25	27	0.63	19	0.004	<1	2.03	0.004	0.02	0.7	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
130089	Soil	16	17	0.37	40	0.008	<1	1.33	0.008	0.04	<0.1	0.03	0.7	<0.1	<0.05	7	<0.5	<0.2
REP 130089	QC	17	17	0.37	39	0.012	2	1.41	0.008	0.04	<0.1	0.02	0.9	<0.1	<0.05	7	<0.5	<0.2
121957	Soil	27	33	0.65	20	0.013	1	2.41	0.004	0.02	0.2	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
REP 121957	QC	27	33	0.65	19	0.013	<1	2.38	0.004	0.01	0.2	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
120987	Soil	36	24	0.46	42	0.008	<1	1.79	0.010	0.02	0.3	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
REP 120987	QC	36	24	0.45	40	0.007	5	1.74	0.009	0.02	0.3	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
118837	Soil	22	26	0.53	25	0.006	1	1.73	0.010	0.03	<0.1	0.03	1.2	<0.1	<0.05	5	0.8	<0.2
REP 118837	QC	23	28	0.57	26	0.007	2	1.83	0.011	0.03	<0.1	0.04	1.2	<0.1	<0.05	5	0.7	<0.2
118863	Soil	24	17	0.39	54	0.007	1	1.42	0.009	0.03	0.2	0.02	0.9	<0.1	<0.05	5	0.6	<0.2
REP 118863	QC	24	19	0.41	52	0.008	<1	1.50	0.008	0.03	0.2	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
121942	Soil	36	23	0.59	32	0.001	<1	1.80	0.006	0.02	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 121942	QC	37	22	0.55	32	0.001	<1	1.74	0.006	0.02	<0.1	0.02	2.6	<0.1	<0.05	5	0.6	<0.2
121943	Soil	22	29	0.74	28	0.012	<1	1.98	0.009	0.03	0.1	0.02	1.9	<0.1	<0.05	6	0.6	<0.2
REP 121943	QC	23	30	0.76	30	0.011	<1	2.04	0.009	0.03	0.1	0.03	2.3	<0.1	<0.05	6	0.6	<0.2
130107	Soil	27	28	0.45	30	0.011	<1	1.84	0.007	0.02	0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
REP 130107	QC	26	27	0.43	29	0.012	<1	1.82	0.007	0.02	0.1	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
130116	Soil	18	25	0.31	31	0.009	<1	1.43	0.006	0.02	0.1	0.04	1.0	<0.1	<0.05	8	<0.5	<0.2
REP 130116	QC	16	25	0.31	30	0.009	<1	1.40	0.006	0.02	0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2
147012	Soil	5	8	0.06	19	0.005	<1	0.48	0.014	0.02	<0.1	0.02	0.2	<0.1	<0.05	3	<0.5	<0.2
REP 147012	QC	4	8	0.07	19	0.005	<1	0.51	0.017	0.03	<0.1	0.02	0.2	<0.1	0.07	3	<0.5	<0.2
147021	Soil	6	6	0.10	13	0.016	<1	0.56	0.013	0.02	0.1	0.04	0.3	<0.1	<0.05	3	<0.5	<0.2
REP 147021	QC	7	6	0.11	14	0.018	<1	0.59	0.016	0.02	0.1	0.05	0.5	<0.1	<0.05	4	<0.5	<0.2
118869	Soil	23	30	0.75	17	0.010	<1	2.07	0.003	0.02	0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
REP 118869	QC	23	31	0.76	17	0.009	7	2.09	0.003	0.02	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
118886	Soil	29	30	0.74	18	0.011	<1	1.88	0.004	0.03	0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
REP 118886	QC	28	30	0.74	18	0.011	<1	1.94	0.004	0.03	0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
130131	Soil	0.2	20.8	21.1	111	<0.1	42.6	20.1	921	5.37	0.8	1.6	9.6	15.4	10	<0.1	<0.1	1.0	22	0.15
REP 130131	QC	0.2	21.0	21.7	114	<0.1	42.3	20.2	901	5.40	0.8	1.5	6.0	15.2	10	<0.1	<0.1	1.0	20	0.16
130153	Soil	0.2	14.4	2.8	8	<0.1	2.5	1.6	23	0.40	0.6	0.3	<0.5	0.2	6	<0.1	<0.1	<0.1	4	0.08
REP 130153	QC	0.1	15.0	2.9	9	<0.1	2.6	1.5	23	0.38	0.8	0.3	<0.5	0.3	6	<0.1	<0.1	<0.1	6	0.09
147035	Soil	0.4	66.4	36.7	174	0.1	42.8	60.5	1884	4.37	176.2	2.7	79.6	23.1	9	<0.1	0.7	8.1	19	0.06
REP 147035	QC	0.2	69.7	37.7	183	<0.1	43.1	62.3	1940	4.58	189.3	2.8	134.3	24.2	10	0.1	0.7	8.3	19	0.06
147059	Soil	0.8	18.8	18.1	70	<0.1	18.1	8.1	485	4.41	11.9	0.8	<0.5	10.2	9	<0.1	0.3	0.5	22	0.03
REP 147059	QC	0.6	17.6	17.7	75	<0.1	17.7	8.1	476	4.42	10.7	0.8	<0.5	9.9	10	<0.1	0.4	0.4	22	0.02
147063	Soil	0.7	17.7	23.7	73	0.2	15.9	8.7	558	4.66	17.6	0.8	<0.5	7.6	5	0.1	0.4	0.5	25	0.02
REP 147063	QC	0.8	17.9	24.0	71	0.2	15.8	8.8	561	4.60	15.8	0.8	<0.5	8.1	5	<0.1	0.4	0.6	26	0.02
121991	Soil	0.5	14.9	12.1	29	<0.1	7.2	4.0	288	2.51	13.1	0.6	<0.5	1.8	7	<0.1	0.3	0.5	17	0.01
REP 121991	QC	0.5	14.9	12.1	29	<0.1	7.1	3.9	295	2.49	13.4	0.6	<0.5	1.8	7	<0.1	0.3	0.4	18	0.02
Reference Materials																				
STD DS8	Standard	12.9	110.8	118.5	310	1.7	38.6	7.4	566	2.32	24.5	2.7	98.6	6.5	69	2.3	5.4	6.6	41	0.66
STD DS8	Standard	13.0	108.9	122.2	308	1.7	37.6	7.5	624	2.43	24.6	2.6	117.8	6.7	69	2.5	5.9	7.0	42	0.69
STD DS8	Standard	13.2	109.8	127.3	318	1.8	38.4	7.1	626	2.46	25.5	2.7	108.3	6.3	68	2.4	5.6	6.9	41	0.69
STD DS8	Standard	12.3	105.1	123.4	312	1.8	36.0	7.2	587	2.35	24.7	2.8	126.5	6.7	62	2.7	5.5	6.4	37	0.64
STD DS8	Standard	12.8	110.1	125.6	323	1.7	39.5	7.5	644	2.83	25.6	2.8	111.5	6.6	61	2.4	5.2	6.1	45	0.71
STD DS8	Standard	10.9	101.4	121.1	297	1.9	33.4	6.9	542	2.25	23.8	2.6	103.6	6.2	64	2.1	5.6	7.0	37	0.59
STD DS8	Standard	11.5	103.5	115.7	300	1.7	34.1	6.6	571	2.32	23.1	2.5	111.2	5.9	60	2.2	4.9	6.1	40	0.62
STD DS8	Standard	12.8	104.6	118.4	296	1.7	36.3	7.1	568	2.33	23.3	2.7	122.3	6.5	59	2.4	5.4	6.4	40	0.65
STD DS8	Standard	11.7	103.3	115.3	301	1.6	35.3	7.2	603	2.31	23.6	2.7	115.4	6.1	66	2.0	5.2	6.3	41	0.68
STD DS8	Standard	13.8	103.2	117.6	303	1.9	38.8	8.2	610	2.50	23.6	2.7	120.6	6.5	70	2.3	5.2	6.6	45	0.74
STD DS8	Standard	12.1	115.1	123.6	326	1.9	39.4	7.7	615	2.51	26.0	2.4	121.0	5.8	63	2.6	6.0	7.0	41	0.67
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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Project: Culvert

Report Date: October 17, 2011

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QUALITY CONTROL REPORT

DAW11000257.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
130131	Soil	36	33	0.71	14	<0.001	<1	2.31	0.004	0.02	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
REP 130131	QC	39	32	0.71	14	0.002	<1	2.32	0.005	0.02	<0.1	<0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
130153	Soil	4	2	0.05	12	0.011	<1	0.52	0.021	0.02	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
REP 130153	QC	4	2	0.04	12	0.010	<1	0.52	0.020	0.02	<0.1	<0.01	0.2	<0.1	<0.05	1	<0.5	<0.2
147035	Soil	38	28	0.76	33	0.002	<1	2.16	0.010	0.05	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	0.3
REP 147035	QC	42	29	0.81	34	0.002	<1	2.24	0.009	0.05	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	0.4
147059	Soil	24	30	0.59	22	0.011	<1	1.83	0.005	0.02	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
REP 147059	QC	23	27	0.57	23	0.012	4	1.81	0.005	0.02	0.3	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
147063	Soil	19	25	0.45	29	0.012	<1	1.66	0.007	0.03	0.1	0.04	1.1	<0.1	<0.05	7	0.9	<0.2
REP 147063	QC	21	25	0.42	31	0.013	2	1.74	0.006	0.03	0.2	0.01	1.4	<0.1	<0.05	7	1.8	<0.2
121991	Soil	17	13	0.16	31	0.012	<1	0.94	0.010	0.02	0.2	0.02	0.6	<0.1	<0.05	5	0.6	<0.2
REP 121991	QC	17	13	0.16	30	0.011	<1	0.97	0.010	0.02	0.3	0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	107	0.57	264	0.117	3	0.92	0.092	0.39	3.1	0.20	2.1	5.1	0.17	4	5.1	4.9
STD DS8	Standard	15	119	0.61	276	0.121	2	0.99	0.099	0.41	2.9	0.19	2.2	5.5	0.16	5	5.5	5.2
STD DS8	Standard	15	117	0.62	277	0.118	2	0.94	0.094	0.43	3.4	0.19	2.1	5.8	0.20	5	5.8	5.1
STD DS8	Standard	15	108	0.59	289	0.102	3	0.87	0.090	0.40	3.2	0.19	2.0	5.7	0.14	5	4.7	4.9
STD DS8	Standard	14	119	0.57	278	0.112	3	0.93	0.074	0.43	3.2	0.21	2.3	5.5	0.13	5	5.6	5.5
STD DS8	Standard	12	104	0.56	261	0.099	2	0.83	0.086	0.38	2.7	0.19	2.3	4.9	0.16	4	5.5	4.6
STD DS8	Standard	13	112	0.57	247	0.100	1	0.86	0.105	0.40	2.5	0.18	2.3	5.0	0.15	4	4.2	4.1
STD DS8	Standard	15	112	0.58	272	0.107	2	0.87	0.082	0.38	3.1	0.21	2.1	5.4	0.17	5	4.8	4.6
STD DS8	Standard	16	110	0.57	278	0.116	4	0.89	0.091	0.41	2.9	0.19	2.1	4.9	0.10	5	6.5	4.3
STD DS8	Standard	15	116	0.64	292	0.107	3	1.00	0.107	0.48	3.2	0.20	2.2	5.7	0.19	5	5.3	5.2
STD DS8	Standard	14	119	0.61	281	0.117	2	0.91	0.084	0.42	3.1	0.20	2.4	5.6	0.16	5	4.9	5.1
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: Culvert

Report Date: October 17, 2011

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QUALITY CONTROL REPORT

DAW11000257.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	1.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Culvert

Report Date: October 17, 2011

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QUALITY CONTROL REPORT

DAW11000257.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Mark Fekete

Receiving Lab: Canada-Whitehorse

Received: August 15, 2011

Report Date: November 18, 2011

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CERTIFICATE OF ANALYSIS

WHI11001303.1

CLIENT JOB INFORMATION

Project: Culvert
Shipment ID: CULVERT-3
P.O. Number
Number of Samples: 317

SAMPLE DISPOSAL

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

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

Invoice To: Stakeholder Gold Corp.
203 - 680 Third Ave.
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	317	Dry at 60C sieve 100g to -80 mesh			DAW
Dry at 60C	317	Dry at 60C			DAW
1DX2	316	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: Culvert
Report Date: November 18, 2011

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CERTIFICATE OF ANALYSIS

WHI11001303.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
118901	Soil	1.1	56.3	94.6	124	0.2	37.6	21.9	1044	4.54	25.5	1.5	2.2	14.4	3	<0.1	0.8	0.9	17	0.03	0.067
118902	Soil	0.8	37.2	10.9	81	0.2	25.7	11.0	574	4.29	12.7	0.7	4.8	11.0	3	0.1	0.2	0.9	22	0.02	0.063
118903	Soil	0.8	22.5	23.7	67	0.1	19.3	8.8	652	4.43	11.2	0.9	<0.5	10.4	5	0.2	0.3	0.8	25	0.03	0.075
118904	Soil	0.8	26.4	25.4	69	0.2	20.0	9.7	616	5.12	14.2	1.0	1.5	6.4	6	<0.1	0.4	0.8	27	0.02	0.094
118905	Soil	0.7	34.9	19.8	99	<0.1	29.4	16.9	845	3.84	47.4	1.6	2.6	4.5	5	<0.1	0.4	1.1	23	0.03	0.104
118906	Soil	0.9	22.8	20.8	50	0.5	15.6	6.5	512	3.44	22.0	0.9	1.1	3.4	4	<0.1	0.3	1.0	20	0.02	0.072
118907	Soil	0.5	27.4	17.8	66	0.2	18.6	13.4	746	3.22	22.4	0.9	7.5	2.7	5	0.1	0.3	0.9	17	0.04	0.078
118908	Soil	0.4	8.6	7.0	25	<0.1	6.6	3.0	215	1.60	9.1	0.4	2.9	0.2	5	<0.1	0.2	0.3	14	0.02	0.044
118909	Soil	0.5	25.5	16.4	79	<0.1	21.7	11.3	716	3.54	21.0	1.1	<0.5	1.6	4	0.2	0.3	0.8	20	0.02	0.076
118910	Soil	1.1	31.5	32.8	77	0.1	20.4	16.8	1456	4.64	42.2	1.4	89.3	1.7	5	0.2	0.4	1.2	27	0.03	0.189
118911	Soil	0.5	15.3	12.3	47	<0.1	13.2	8.0	488	2.12	19.0	0.6	0.8	0.6	6	0.1	0.2	0.4	14	0.05	0.066
118912	Soil	0.7	24.7	23.1	68	<0.1	20.0	16.8	1186	3.33	25.6	0.8	0.9	1.5	5	0.1	0.3	0.8	20	0.05	0.091
118913	Soil	0.6	25.4	15.1	45	<0.1	12.3	9.4	1463	3.16	18.0	0.8	2.1	1.2	8	<0.1	0.4	0.5	21	0.04	0.165
118914	Soil	0.6	30.6	18.7	85	<0.1	25.3	14.7	889	4.83	35.9	1.0	32.8	2.4	5	0.3	0.4	0.9	24	0.03	0.101
118915	Soil	0.5	33.6	19.6	109	0.1	29.3	18.1	693	4.00	68.0	1.2	5.2	4.6	5	0.4	0.4	0.9	19	0.02	0.085
118916	Soil	0.8	28.6	20.2	68	<0.1	17.4	8.9	574	5.07	61.8	1.2	6.8	2.6	7	0.1	0.6	0.9	26	0.02	0.113
118917	Soil	0.6	36.4	26.0	99	0.1	27.8	19.6	626	4.63	123.4	1.5	25.3	5.8	8	0.2	0.6	1.0	18	0.02	0.123
118918	Soil	0.4	12.1	9.6	31	<0.1	8.6	4.3	276	2.11	17.5	0.6	2.0	1.1	5	0.1	0.3	0.4	12	0.01	0.057
118919	Soil	0.6	22.9	19.5	87	<0.1	22.7	11.1	634	4.37	34.6	0.9	3.9	8.0	8	<0.1	0.5	1.0	21	0.04	0.135
118920	Soil	0.6	36.1	24.5	81	0.1	21.7	15.0	613	4.52	43.4	1.5	4.4	6.1	8	0.2	0.5	0.9	20	0.02	0.120
118921	Soil	0.5	22.2	17.6	50	<0.1	13.4	6.4	278	3.33	25.0	0.7	1.7	3.9	5	<0.1	0.4	0.5	16	0.01	0.063
118922	Soil	0.7	26.5	26.1	74	0.3	17.6	9.2	454	5.34	30.3	1.2	0.9	8.5	12	<0.1	0.6	0.8	21	0.03	0.110
118923	Soil	0.9	77.5	39.8	117	0.2	36.2	37.3	1042	6.43	33.4	3.7	1.1	22.2	12	<0.1	0.6	1.0	18	0.02	0.129
118924	Soil	0.7	26.0	30.7	70	0.2	14.7	6.4	532	4.47	16.7	1.2	<0.5	8.5	17	<0.1	0.5	0.8	20	0.02	0.092
118926	Soil	0.7	18.1	26.8	57	0.1	10.5	7.2	895	6.03	17.6	1.0	1.1	11.8	10	<0.1	0.5	0.7	27	<0.01	0.115
118927	Soil	0.1	3.7	0.8	3	<0.1	0.8	0.7	17	0.33	<0.5	0.1	<0.5	<0.1	7	<0.1	<0.1	<0.1	10	0.09	0.043
118928	Soil	0.5	15.7	22.0	69	0.1	14.2	6.2	573	4.46	18.8	0.8	2.7	8.2	7	0.1	0.4	0.6	22	0.03	0.082
118929	Soil	0.5	14.3	15.3	18	0.1	4.8	1.9	44	2.58	9.4	0.5	<0.5	2.4	3	0.1	0.3	0.3	20	0.01	0.049
118930	Soil	0.5	16.3	18.7	50	<0.1	12.9	4.7	340	3.63	21.1	0.7	0.9	1.7	5	<0.1	0.3	0.4	19	0.03	0.104
118931	Soil	0.2	7.2	9.3	25	<0.1	6.0	3.0	178	1.79	5.3	0.3	<0.5	1.9	5	<0.1	0.1	0.2	12	0.02	0.068



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Project: Culvert
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118901	Soil	18	30	0.74	18	0.003	<1	2.25	0.004	0.03	<0.1	0.06	1.6	<0.1	<0.05	7	<0.5	<0.2
118902	Soil	23	26	0.60	19	0.005	2	1.63	0.004	0.03	<0.1	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
118903	Soil	23	26	0.48	27	0.009	<1	1.76	0.004	0.03	0.2	0.03	1.1	<0.1	<0.05	7	<0.5	<0.2
118904	Soil	16	27	0.49	21	0.010	<1	1.71	0.006	0.03	<0.1	0.05	0.8	<0.1	<0.05	8	0.5	<0.2
118905	Soil	22	27	0.58	24	0.008	1	1.80	0.008	0.04	0.2	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
118906	Soil	20	20	0.31	26	0.007	<1	1.17	0.009	0.02	0.1	0.06	0.6	<0.1	<0.05	6	0.6	<0.2
118907	Soil	16	20	0.36	28	0.011	<1	1.63	0.010	0.03	0.1	0.03	0.8	<0.1	<0.05	5	<0.5	<0.2
118908	Soil	9	8	0.13	21	0.009	<1	0.60	0.014	0.02	0.1	0.03	0.2	<0.1	<0.05	4	<0.5	<0.2
118909	Soil	20	22	0.49	22	0.007	<1	1.56	0.010	0.02	<0.1	0.03	0.5	<0.1	<0.05	6	0.6	<0.2
118910	Soil	21	29	0.47	35	0.011	<1	1.68	0.007	0.04	0.1	0.02	0.6	<0.1	<0.05	7	<0.5	<0.2
118911	Soil	12	14	0.25	28	0.009	<1	1.16	0.012	0.02	<0.1	0.02	0.4	<0.1	<0.05	4	0.6	<0.2
118912	Soil	15	22	0.43	31	0.011	<1	1.72	0.010	0.03	0.1	0.04	0.6	<0.1	<0.05	5	<0.5	<0.2
118913	Soil	14	21	0.25	52	0.008	<1	1.42	0.012	0.03	0.1	0.04	0.5	<0.1	<0.05	6	<0.5	<0.2
118914	Soil	21	29	0.51	28	0.011	<1	1.89	0.006	0.03	0.2	0.04	0.7	<0.1	<0.05	7	0.6	<0.2
118915	Soil	29	25	0.59	22	0.008	<1	1.85	0.006	0.02	0.2	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
118916	Soil	25	28	0.44	28	0.012	<1	1.56	0.007	0.02	0.1	0.02	0.8	<0.1	<0.05	7	<0.5	<0.2
118917	Soil	33	26	0.63	18	0.006	<1	1.77	0.006	0.03	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
118918	Soil	13	13	0.21	23	0.009	<1	0.92	0.013	0.02	<0.1	0.03	0.4	<0.1	<0.05	3	0.6	<0.2
118919	Soil	34	27	0.55	40	0.014	<1	1.67	0.006	0.04	0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
118920	Soil	35	26	0.57	24	0.010	<1	1.82	0.007	0.03	0.1	<0.01	1.0	<0.1	<0.05	6	0.7	<0.2
118921	Soil	23	19	0.35	22	0.010	<1	1.25	0.009	0.02	0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
118922	Soil	33	28	0.55	31	0.009	<1	1.66	0.008	0.03	0.1	0.05	1.0	<0.1	<0.05	6	0.8	<0.2
118923	Soil	71	28	0.63	22	0.003	<1	2.16	0.004	0.03	<0.1	0.01	2.0	<0.1	<0.05	6	0.6	<0.2
118924	Soil	29	20	0.31	31	0.007	<1	1.32	0.006	0.03	0.1	0.03	1.0	<0.1	<0.05	6	0.6	<0.2
118926	Soil	20	26	0.30	31	0.013	<1	1.52	0.006	0.02	0.1	0.04	0.9	<0.1	<0.05	8	0.7	<0.2
118927	Soil	3	1	0.02	10	0.020	<1	0.44	0.021	0.02	<0.1	<0.01	0.2	<0.1	<0.05	2	0.5	<0.2
118928	Soil	19	25	0.46	33	0.008	<1	1.60	0.006	0.03	0.1	0.07	1.0	<0.1	<0.05	6	0.5	<0.2
118929	Soil	10	12	0.05	15	0.009	<1	0.71	0.011	0.01	0.1	0.06	0.4	<0.1	<0.05	5	1.1	<0.2
118930	Soil	15	17	0.31	26	0.008	<1	1.11	0.008	0.02	0.1	0.04	0.5	<0.1	<0.05	5	0.9	<0.2
118931	Soil	8	9	0.15	23	0.012	<1	0.69	0.014	0.02	<0.1	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
118932	Soil	<0.1	2.2	1.9	4	<0.1	0.7	1.0	58	0.30	<0.5	0.2	<0.5	0.1	7	<0.1	<0.1	<0.1	7	0.08
118933	Soil	0.4	7.6	12.0	61	<0.1	7.8	4.7	302	2.97	6.0	0.6	<0.5	2.0	3	<0.1	0.2	0.4	17	0.01
118934	Soil	0.3	4.6	7.1	15	0.1	2.5	1.6	102	0.98	1.7	0.3	<0.5	1.3	4	<0.1	0.1	0.2	9	0.01
118935	Soil	0.2	9.3	3.7	8	<0.1	1.6	1.1	51	0.52	1.2	0.2	<0.5	<0.1	5	<0.1	<0.1	<0.1	8	0.04
121992	Soil	0.4	10.7	9.9	20	0.2	4.2	2.9	248	1.59	8.9	0.4	<0.5	0.2	5	<0.1	0.2	0.3	13	0.02
121993	Soil	0.6	21.4	16.9	65	0.2	15.1	8.1	430	4.34	26.9	0.9	32.9	6.2	6	0.2	0.4	0.6	22	0.01
121994	Soil	0.4	12.5	12.0	35	<0.1	8.3	3.8	221	2.74	11.2	0.6	1.5	0.8	5	<0.1	0.2	0.4	17	0.01
121995	Soil	0.8	20.3	16.3	60	<0.1	15.5	6.1	349	4.67	17.3	1.1	1.3	5.3	7	<0.1	0.5	0.6	20	0.02
121996	Soil	0.7	23.1	20.1	75	0.1	19.3	7.9	561	5.48	19.6	1.1	0.5	9.2	8	<0.1	0.4	0.6	21	0.02
121997	Soil	0.7	19.6	15.5	58	0.2	15.8	6.2	410	4.03	22.2	0.9	1.5	7.6	7	<0.1	0.4	0.5	17	0.01
121998	Soil	0.5	6.6	8.5	21	<0.1	4.6	2.4	141	2.13	6.8	0.3	<0.5	0.8	4	<0.1	0.3	0.3	17	0.01
121999	Soil	0.8	218.8	99.6	327	0.3	280.2	166.3	970	2.23	27.4	2.9	0.8	1.3	33	0.3	0.3	0.6	12	0.25
122000	Soil	0.5	14.6	7.4	23	0.1	6.0	5.7	128	1.44	5.7	0.5	<0.5	1.1	4	<0.1	0.2	0.3	12	0.02
148001	Soil	0.4	7.4	9.2	25	0.1	5.4	2.6	138	1.83	5.5	0.4	<0.5	2.0	5	<0.1	0.1	0.3	13	0.01
148002	Soil	0.5	13.7	16.8	53	0.2	12.5	5.9	551	3.68	13.3	0.6	<0.5	2.3	6	0.1	0.3	0.4	19	0.02
148003	Soil	0.6	13.4	20.2	53	0.2	9.0	3.9	215	4.74	15.3	0.8	<0.5	5.5	5	<0.1	0.3	0.5	21	0.02
148004	Soil	1.2	22.3	30.0	93	0.2	21.4	10.7	687	5.33	17.2	1.1	0.6	7.3	5	<0.1	0.5	0.6	21	0.02
148005	Soil	0.5	20.1	20.4	79	<0.1	25.1	10.4	413	4.87	16.8	0.9	1.3	12.5	4	<0.1	0.3	0.5	18	0.02
148006	Soil	0.8	16.8	23.7	41	0.1	6.3	4.3	187	3.19	12.9	0.7	<0.5	8.1	11	<0.1	0.4	0.5	18	0.02
130164	Soil	0.6	14.9	18.2	66	<0.1	25.0	17.2	966	3.01	56.5	1.1	14.3	2.6	4	<0.1	0.3	0.7	17	0.04
130165	Soil	0.5	24.4	18.3	108	<0.1	40.9	20.8	982	4.61	41.1	1.2	12.7	10.4	5	<0.1	0.4	0.6	22	0.05
130166	Soil	0.8	22.1	24.2	57	<0.1	16.7	7.5	625	3.49	24.7	1.0	1.0	1.9	5	0.2	0.4	0.5	22	0.02
130167	Soil	0.9	21.5	16.4	47	0.1	13.2	6.1	581	3.53	25.3	0.9	4.8	1.9	6	0.1	0.4	0.5	22	0.02
130168	Soil	0.2	8.0	3.7	15	<0.1	3.6	1.9	110	0.81	13.6	0.3	1.9	0.4	4	<0.1	0.1	0.1	11	0.03
130169	Soil	0.9	33.1	37.8	111	<0.1	30.4	18.4	919	3.65	260.3	1.5	14.8	3.5	5	0.4	0.4	1.1	17	0.02
130170	Soil	0.9	22.8	18.0	65	<0.1	20.1	10.0	773	3.96	48.6	0.9	3.3	1.2	7	<0.1	0.5	0.7	28	0.03
130171	Soil	0.8	33.8	22.2	123	<0.1	40.3	20.8	1015	4.40	101.7	1.3	18.5	9.5	5	0.3	0.4	0.8	23	0.05
130172	Soil	0.3	52.5	73.8	215	0.3	51.3	39.6	1155	5.56	45.9	2.5	6.3	15.7	6	0.4	0.6	3.9	21	0.06
130173	Soil	0.8	23.1	27.6	76	<0.1	22.6	11.8	859	4.54	28.9	1.0	2.2	1.7	5	<0.1	0.4	0.9	28	0.02
130174	Soil	0.6	21.1	14.0	96	<0.1	29.2	11.4	617	5.59	59.6	1.0	16.1	9.7	3	<0.1	0.5	0.8	26	0.02



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118932	Soil	2	1	0.02	11	0.017	<1	0.36	0.023	0.02	<0.1	<0.01	0.2	<0.1	<0.05	1	<0.5	<0.2
118933	Soil	17	13	0.25	24	0.010	<1	0.87	0.010	0.03	<0.1	<0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
118934	Soil	10	4	0.06	26	0.011	<1	0.41	0.015	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	0.6	<0.2
118935	Soil	3	3	0.03	23	0.007	<1	0.39	0.019	0.02	<0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
121992	Soil	10	8	0.08	23	0.008	<1	0.67	0.016	0.03	<0.1	0.03	0.1	<0.1	<0.05	4	<0.5	<0.2
121993	Soil	32	23	0.33	33	0.012	<1	1.53	0.007	0.02	0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
121994	Soil	15	15	0.21	25	0.010	<1	1.11	0.012	0.02	<0.1	0.03	0.3	<0.1	<0.05	5	0.8	<0.2
121995	Soil	21	26	0.44	23	0.015	2	1.68	0.008	0.04	0.1	0.04	1.0	<0.1	<0.05	6	0.7	<0.2
121996	Soil	25	29	0.52	21	0.012	2	1.86	0.010	0.02	0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
121997	Soil	18	24	0.45	22	0.011	2	1.58	0.008	0.03	<0.1	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2
121998	Soil	7	8	0.08	15	0.012	2	0.45	0.013	0.03	0.1	0.02	0.3	<0.1	<0.05	4	<0.5	<0.2
121999	Soil	54	15	0.21	64	0.006	1	1.59	0.017	0.04	0.2	0.02	0.6	<0.1	<0.05	4	0.6	<0.2
122000	Soil	9	7	0.08	21	0.015	1	0.69	0.015	0.03	0.1	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2
148001	Soil	8	8	0.12	26	0.013	1	0.63	0.017	0.03	0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
148002	Soil	13	19	0.32	40	0.010	1	1.34	0.013	0.03	0.1	0.04	0.7	<0.1	<0.05	6	<0.5	<0.2
148003	Soil	19	20	0.31	37	0.011	1	1.54	0.008	0.02	0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2
148004	Soil	25	24	0.41	36	0.010	<1	1.49	0.005	0.03	0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
148005	Soil	31	32	0.76	23	0.005	1	2.19	0.005	0.04	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
148006	Soil	10	11	0.15	36	0.010	<1	0.99	0.012	0.03	0.3	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
130164	Soil	22	17	0.40	27	0.011	<1	1.29	0.011	0.03	0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
130165	Soil	46	30	0.73	26	0.012	1	2.07	0.003	0.02	<0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
130166	Soil	16	23	0.36	34	0.014	1	1.54	0.010	0.03	0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
130167	Soil	16	23	0.28	38	0.006	2	1.46	0.008	0.03	0.1	0.03	0.5	<0.1	0.05	6	<0.5	<0.2
130168	Soil	5	5	0.08	15	0.011	<1	0.65	0.023	0.03	<0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
130169	Soil	20	22	0.56	28	0.009	<1	1.66	0.007	0.02	0.4	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
130170	Soil	20	27	0.40	33	0.012	1	1.47	0.009	0.03	0.1	0.02	0.6	<0.1	<0.05	6	<0.5	<0.2
130171	Soil	36	30	0.80	37	0.011	2	2.10	0.005	0.03	0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
130172	Soil	62	31	0.81	20	0.002	3	2.30	0.008	0.04	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
130173	Soil	23	27	0.48	24	0.015	1	1.60	0.005	0.04	0.1	0.03	0.6	<0.1	<0.05	6	<0.5	<0.2
130174	Soil	38	29	0.64	16	0.019	1	1.79	0.003	0.02	0.1	0.02	1.4	<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		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130175	Soil																							
130176	Soil																							
130177	Soil																							
130178	Soil																							
130179	Soil																							
130180	Soil																							
130181	Soil																							
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130193	Soil																							
130194	Soil																							
130195	Soil																							
130196	Soil																							
147068	Soil																							
147069	Soil																							
147070	Soil																							
147071	Soil																							
147072	Soil																							
147073	Soil																							
147074	Soil																							
147075	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130175	Soil	39	28	0.86	24	0.002	1	2.31	0.007	0.03	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
130176	Soil	39	28	0.57	30	0.011	<1	1.93	0.006	0.04	0.2	0.01	1.4	<0.1	<0.05	7	<0.5	<0.2
130177	Soil	27	24	0.51	22	0.006	<1	1.72	0.005	0.03	0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
130178	Soil	40	18	0.37	27	0.003	<1	1.32	0.007	0.04	<0.1	0.01	2.2	0.3	<0.05	4	<0.5	<0.2
130179	Soil	33	26	0.48	35	0.011	<1	1.87	0.006	0.03	<0.1	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
130180	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.
130181	Soil	30	23	0.35	35	0.007	<1	1.42	0.008	0.04	0.1	0.04	0.8	<0.1	<0.05	6	<0.5	<0.2
130182	Soil	26	24	0.55	29	0.011	1	1.49	0.006	0.04	0.3	0.05	1.6	<0.1	<0.05	7	<0.5	<0.2
130183	Soil	33	25	0.52	33	0.007	1	1.57	0.006	0.03	<0.1	0.05	1.1	<0.1	<0.05	5	<0.5	<0.2
130184	Soil	22	20	0.28	37	0.007	<1	1.32	0.011	0.04	<0.1	0.04	0.5	<0.1	<0.05	6	<0.5	<0.2
130185	Soil	39	25	0.38	58	0.006	2	1.68	0.011	0.08	0.1	0.02	1.2	0.1	<0.05	6	<0.5	<0.2
130186	Soil	15	6	0.09	19	0.003	1	0.51	0.022	0.03	<0.1	0.02	0.3	<0.1	<0.05	1	<0.5	<0.2
130187	Soil	14	16	0.18	38	0.007	<1	1.22	0.005	0.03	0.1	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
130188	Soil	31	30	0.55	27	0.009	<1	1.95	0.003	0.02	0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
130189	Soil	28	30	0.38	37	0.011	<1	2.33	0.005	0.03	0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
130190	Soil	28	26	0.42	44	0.010	<1	2.04	0.005	0.03	0.2	0.03	1.3	<0.1	<0.05	8	<0.5	<0.2
130191	Soil	30	35	0.37	29	0.020	<1	2.01	0.005	0.03	0.1	0.07	1.6	<0.1	<0.05	10	<0.5	<0.2
130192	Soil	29	22	0.44	41	0.008	<1	1.45	0.004	0.02	<0.1	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
130193	Soil	34	29	0.43	27	0.005	<1	1.77	0.004	0.03	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
130194	Soil	33	33	0.81	33	0.005	<1	2.48	0.011	0.04	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
130195	Soil	32	30	0.70	31	0.007	<1	2.17	0.005	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
130196	Soil	17	13	0.24	27	0.009	<1	1.07	0.013	0.03	<0.1	0.03	0.6	<0.1	<0.05	4	<0.5	<0.2
147068	Soil	24	14	0.12	23	0.005	<1	0.91	0.004	0.02	0.1	0.04	0.7	<0.1	<0.05	5	<0.5	<0.2
147069	Soil	17	30	0.68	27	0.008	<1	1.85	0.007	0.03	0.1	0.02	0.9	<0.1	<0.05	7	<0.5	<0.2
147070	Soil	15	18	0.32	32	0.008	<1	1.30	0.011	0.04	0.1	0.03	0.4	<0.1	0.06	6	<0.5	<0.2
147071	Soil	22	25	0.32	47	0.010	<1	1.64	0.009	0.03	<0.1	0.02	0.6	<0.1	0.05	6	<0.5	<0.2
147072	Soil	35	31	0.69	27	0.012	<1	1.82	0.006	0.04	0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
147073	Soil	21	21	0.45	21	0.010	<1	1.39	0.010	0.03	<0.1	0.03	0.6	<0.1	<0.05	5	<0.5	<0.2
147074	Soil	25	31	0.68	25	0.009	<1	1.86	0.005	0.03	0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
147075	Soil	21	27	0.66	21	0.011	<1	1.73	0.008	0.03	<0.1	0.01	1.1	<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				
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
147076	Soil					1.1	25.9	23.8	98	<0.1	28.7	17.7	707	3.73	48.5	1.2	3.2	3.8	8	0.2	0.6	0.8	30	0.06	0.068
147077	Soil					0.8	30.7	29.6	106	0.1	37.3	38.6	1375	3.64	33.5	1.3	1.1	3.8	6	0.1	0.2	0.9	18	0.03	0.070
147078	Soil					0.6	22.9	9.7	39	<0.1	10.4	6.4	789	2.81	15.4	0.7	0.6	0.9	7	0.2	0.3	0.3	20	0.02	0.115
147079	Soil					1.8	51.5	28.6	141	<0.1	49.7	54.2	2118	4.86	88.0	1.9	12.8	14.5	5	0.3	0.5	1.3	18	0.02	0.050
147080	Soil					0.7	31.6	33.9	87	0.2	26.5	20.8	1498	4.85	141.3	1.0	<0.5	3.5	6	0.4	0.4	1.1	24	0.04	0.184
147081	Soil					0.4	41.7	30.4	114	<0.1	44.5	26.1	446	4.93	93.9	1.7	4.4	17.4	7	0.2	1.1	0.9	14	0.01	0.054
147082	Soil					1.1	38.1	37.3	95	0.2	37.8	32.4	1203	5.53	180.2	1.9	7.7	8.7	15	0.2	1.3	0.8	21	0.02	0.155
147083	Soil					0.8	27.9	32.0	60	0.2	18.9	8.7	368	4.87	42.4	1.1	5.0	7.7	5	0.1	0.7	0.7	22	0.01	0.095
147084	Soil					0.5	36.8	29.4	98	<0.1	34.8	15.7	369	4.88	50.4	1.3	1.4	9.5	5	0.1	0.7	0.7	16	0.02	0.067
147085	Soil					0.7	26.1	22.2	80	<0.1	25.6	10.1	436	4.94	45.8	1.0	2.0	11.2	5	<0.1	0.6	0.6	20	0.02	0.072
147086	Soil					0.8	33.3	32.2	86	0.1	26.8	16.4	576	4.74	55.4	2.3	2.5	9.8	8	0.1	0.6	0.8	20	0.03	0.119
147087	Soil					0.2	6.6	4.0	9	<0.1	9.0	1.2	35	0.45	2.2	0.3	<0.5	0.1	7	<0.1	<0.1	0.1	4	0.04	0.027
147088	Soil					0.6	13.9	21.1	28	<0.1	7.3	2.7	316	1.83	6.3	1.0	<0.5	1.3	5	0.7	0.2	0.3	8	0.05	0.049
147089	Soil					1.0	64.5	57.3	99	<0.1	28.5	17.6	402	4.77	27.2	1.5	4.0	8.1	18	0.1	1.6	0.7	16	0.03	0.118
147090	Soil					1.2	61.0	44.5	109	0.2	44.0	20.7	728	5.57	69.9	2.2	0.7	5.5	9	<0.1	1.5	1.0	31	0.07	0.171
147091	Soil					0.3	7.6	10.9	27	<0.1	5.4	3.9	301	2.05	4.8	0.5	<0.5	3.8	4	<0.1	0.3	0.2	13	0.01	0.060
147092	Soil					0.5	11.3	16.1	66	0.1	8.6	7.8	511	3.52	9.4	0.5	1.0	3.3	5	0.4	0.3	0.4	23	0.01	0.128
147093	Soil					1.1	40.2	63.8	86	0.3	27.0	15.1	603	5.18	16.1	1.5	2.6	12.4	5	<0.1	0.5	0.7	22	0.03	0.062
147094	Soil					0.9	22.7	21.7	48	0.3	15.9	9.5	812	4.66	9.4	0.5	<0.5	5.8	5	0.1	0.3	0.6	25	0.02	0.135
147095	Soil					2.2	40.8	27.1	134	0.3	46.3	24.0	737	6.30	23.3	1.4	8.7	16.7	4	<0.1	0.4	1.0	27	0.01	0.072
147096	Soil					0.2	6.4	4.2	13	<0.1	2.5	3.3	345	0.93	1.3	0.2	<0.5	0.3	4	<0.1	<0.1	0.2	8	0.02	0.068
147097	Soil					0.7	17.0	20.5	70	0.1	16.8	8.7	432	4.89	18.4	0.6	<0.5	9.0	4	<0.1	0.3	0.6	22	0.01	0.115
147098	Soil					0.4	32.9	25.7	84	0.1	30.5	13.7	568	4.50	26.0	0.8	1.2	10.9	4	<0.1	0.3	0.6	18	0.02	0.035
147099	Soil					0.6	30.4	27.5	87	0.1	28.9	14.9	551	4.83	26.4	0.9	0.7	12.5	5	<0.1	0.3	0.6	19	0.02	0.049
147100	Soil					0.9	32.6	25.1	93	<0.1	31.0	17.3	581	4.81	18.4	1.1	1.4	13.0	9	<0.1	0.3	0.7	19	0.08	0.055
147101	Soil					0.6	33.1	36.0	84	<0.1	25.8	15.3	541	4.15	14.8	1.3	1.7	10.8	7	<0.1	0.3	0.6	16	0.05	0.044
147102	Soil					0.7	32.8	22.9	71	<0.1	23.2	12.8	420	3.62	11.6	1.4	4.1	8.8	10	0.1	0.2	0.5	14	0.06	0.040
118936	Soil					0.7	25.9	24.3	96	<0.1	34.9	20.8	1422	4.60	24.5	0.8	1.0	7.5	5	0.1	0.3	0.5	20	0.03	0.078
118937	Soil					0.8	19.4	15.9	64	<0.1	19.8	9.4	503	3.03	62.6	0.8	1.2	1.7	5	0.2	0.4	0.5	19	0.02	0.074
118938	Soil					0.9	69.1	28.0	116	<0.1	29.1	13.0	812	4.12	181.3	1.2	6.2	5.6	4	0.3	0.4	1.3	21	0.03	0.066



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147076	Soil	28	29	0.61	38	0.022	<1	1.74	0.007	0.05	0.2	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
147077	Soil	33	24	0.51	55	0.006	<1	1.66	0.008	0.02	<0.1	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
147078	Soil	14	19	0.14	50	0.008	<1	1.03	0.010	0.03	<0.1	0.03	0.3	<0.1	0.08	5	<0.5	<0.2
147079	Soil	39	28	0.76	48	0.005	<1	2.13	0.004	0.02	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
147080	Soil	21	26	0.41	34	0.007	<1	1.55	0.007	0.04	0.2	0.06	0.7	<0.1	<0.05	6	<0.5	<0.2
147081	Soil	57	27	0.69	14	0.003	<1	1.92	0.004	0.04	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
147082	Soil	29	27	0.36	37	0.009	<1	1.50	0.007	0.04	0.2	0.07	1.0	<0.1	<0.05	6	<0.5	<0.2
147083	Soil	33	25	0.37	22	0.009	<1	1.41	0.007	0.02	0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
147084	Soil	41	27	0.69	14	0.006	<1	1.91	0.005	0.02	<0.1	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
147085	Soil	34	29	0.67	20	0.009	<1	1.80	0.005	0.02	0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
147086	Soil	36	31	0.63	19	0.009	<1	2.01	0.005	0.03	0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
147087	Soil	4	3	0.03	19	0.008	<1	0.42	0.025	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
147088	Soil	14	15	0.24	14	0.011	<1	0.99	0.023	0.03	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
147089	Soil	28	22	0.49	26	0.011	<1	1.56	0.009	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
147090	Soil	62	30	0.58	32	0.008	<1	1.92	0.007	0.03	0.1	0.02	1.3	<0.1	<0.05	7	0.5	<0.2
147091	Soil	11	9	0.14	27	0.007	<1	0.65	0.010	0.03	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
147092	Soil	16	13	0.18	32	0.014	<1	0.94	0.008	0.03	<0.1	0.03	0.6	<0.1	<0.05	7	<0.5	<0.2
147093	Soil	40	30	0.60	27	0.008	<1	1.97	0.006	0.03	0.1	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
147094	Soil	20	22	0.30	30	0.008	<1	1.18	0.007	0.03	0.1	0.06	0.9	<0.1	<0.05	7	<0.5	<0.2
147095	Soil	37	44	0.70	29	0.006	<1	2.45	0.006	0.03	0.1	0.06	2.2	<0.1	<0.05	7	0.6	<0.2
147096	Soil	6	4	0.04	29	0.012	<1	0.51	0.019	0.02	<0.1	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
147097	Soil	26	28	0.50	31	0.007	<1	1.79	0.005	0.03	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
147098	Soil	33	32	0.81	30	0.006	<1	2.17	0.008	0.05	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
147099	Soil	35	33	0.81	28	0.006	6	2.17	0.006	0.04	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
147100	Soil	44	35	0.84	28	0.006	<1	2.15	0.004	0.04	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
147101	Soil	40	28	0.75	31	0.006	<1	1.90	0.006	0.04	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
147102	Soil	38	25	0.62	36	0.005	1	1.68	0.009	0.05	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
118936	Soil	21	35	0.83	29	0.009	<1	2.16	0.003	0.02	<0.1	<0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
118937	Soil	17	24	0.40	28	0.009	<1	1.41	0.006	0.03	0.1	0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
118938	Soil	30	30	0.76	27	0.009	<1	1.99	0.003	0.02	0.1	0.01	1.1	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
118939	Soil	0.6	18.5	10.2	60	<0.1	17.1	5.9	382	2.86	24.9	0.8	<0.5	2.1	5	<0.1	0.2	0.6	19	0.02	0.089
118940	Soil	0.6	25.4	10.3	53	<0.1	19.5	5.5	479	3.56	29.3	0.8	1.2	2.0	7	0.3	0.3	0.3	23	0.02	0.144
118941	Soil	0.4	13.9	16.1	28	<0.1	7.3	2.6	140	1.46	40.2	0.7	0.5	0.9	6	<0.1	0.2	0.4	14	0.04	0.065
118942	Soil	0.5	23.6	15.0	91	<0.1	28.4	15.5	713	3.80	65.7	1.2	4.6	5.3	5	0.2	0.4	0.7	22	0.04	0.060
118943	Soil	0.6	33.4	18.9	101	<0.1	36.2	22.1	916	4.17	117.4	1.6	2.2	6.5	5	0.2	0.3	0.8	20	0.03	0.064
118944	Soil	0.7	20.7	19.8	74	<0.1	21.7	8.8	609	4.18	50.2	1.1	1.6	2.0	7	0.2	0.4	0.7	27	0.03	0.093
118945	Soil	0.9	51.9	27.6	152	0.1	48.9	33.6	1351	4.90	52.0	1.4	8.5	12.3	6	0.6	0.4	1.5	23	0.06	0.063
118946	Soil	1.1	35.8	36.8	87	0.1	25.5	13.6	771	4.65	49.9	1.0	3.8	10.4	5	<0.1	0.4	1.0	22	0.02	0.068
118947	Soil	1.2	65.6	89.9	166	0.3	69.7	101.4	1818	5.38	160.5	1.7	8.9	9.8	5	0.8	0.5	1.8	22	0.05	0.087
118948	Soil	1.0	46.4	44.1	108	<0.1	39.2	29.5	775	5.74	66.0	1.6	1.0	12.7	10	0.1	0.9	1.2	19	0.02	0.107
118949	Soil	0.7	29.9	18.7	63	<0.1	19.4	8.0	315	3.55	46.8	1.0	2.8	3.4	6	0.1	0.5	0.8	16	0.02	0.072
118950	Soil	0.5	19.7	17.1	62	<0.1	17.2	11.1	488	2.70	36.0	0.8	1.7	2.2	7	0.2	0.3	0.8	14	0.05	0.063
118951	Soil	0.8	35.5	25.1	85	<0.1	28.4	21.9	555	4.22	37.5	1.1	0.8	7.1	8	<0.1	0.5	0.7	20	0.04	0.085
118952	Soil	0.4	12.2	11.0	28	<0.1	7.1	3.2	158	1.91	14.4	0.4	0.9	1.9	6	<0.1	0.2	0.3	14	0.03	0.042
118953	Soil	0.8	23.8	22.0	75	<0.1	22.0	9.9	449	4.59	54.4	0.9	1.6	4.6	7	<0.1	0.5	0.6	20	0.02	0.078
118954	Soil	0.2	6.3	3.7	10	<0.1	2.4	1.8	92	0.78	5.1	0.3	<0.5	0.2	4	<0.1	<0.1	0.1	9	0.02	0.028
118955	Soil	0.5	15.0	16.7	44	<0.1	11.0	5.4	419	3.44	19.3	0.6	4.5	1.2	5	<0.1	0.4	0.4	20	0.02	0.097
118956	Soil	0.2	5.8	4.2	8	<0.1	2.0	1.3	41	0.64	1.6	0.3	<0.5	0.3	5	<0.1	<0.1	<0.1	8	0.02	0.020
118957	Soil	0.7	11.9	15.5	30	<0.1	9.6	3.8	144	3.48	14.4	0.4	<0.5	2.4	4	<0.1	0.3	0.4	28	0.01	0.099
118958	Soil	1.0	29.4	28.1	88	0.3	27.3	11.7	435	4.93	22.9	1.1	1.6	11.3	6	0.1	0.5	0.6	25	0.05	0.093
118959	Soil	<0.1	2.7	1.3	4	<0.1	0.6	0.7	15	0.29	<0.5	0.1	<0.5	<0.1	6	<0.1	<0.1	<0.1	9	0.03	0.011
118960	Soil	0.3	12.7	4.3	33	<0.1	6.8	5.3	370	1.55	10.8	0.6	<0.5	1.2	7	0.1	<0.1	0.2	11	0.03	0.063
118961	Soil	0.3	12.2	4.1	32	<0.1	6.1	5.5	355	1.53	10.6	0.5	<0.5	1.1	7	<0.1	0.1	0.2	11	0.03	0.058
118962	Soil	0.7	35.2	27.4	95	0.3	37.4	17.4	523	5.02	22.4	0.9	2.1	12.9	4	<0.1	0.3	1.2	21	0.02	0.042
118963	Soil	0.3	7.3	7.4	18	0.1	3.7	2.5	282	1.40	3.2	0.3	2.5	0.3	4	<0.1	<0.1	0.2	13	0.02	0.100
118964	Soil	0.2	5.7	5.7	13	<0.1	2.5	1.4	69	0.86	1.3	0.3	0.8	1.5	4	<0.1	0.1	0.2	9	0.01	0.024
118965	Soil	0.2	2.2	4.2	12	<0.1	2.1	1.3	66	0.77	1.4	0.1	<0.5	0.7	3	<0.1	<0.1	<0.1	9	0.01	0.034
118966	Soil	1.1	14.3	7.1	44	0.2	9.2	7.1	605	1.34	3.4	1.0	<0.5	1.6	6	<0.1	<0.1	0.3	10	0.04	0.039
118967	Soil	1.0	46.3	12.6	173	<0.1	43.3	23.0	709	5.38	20.3	1.5	<0.5	14.5	7	0.1	0.3	0.8	21	0.04	0.188
118968	Soil	0.3	16.5	6.3	76	<0.1	9.7	8.2	927	1.61	4.4	0.4	0.6	2.0	10	0.3	<0.1	0.3	11	0.06	0.097



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118939	Soil	18	20	0.37	29	0.008	<1	1.45	0.011	0.03	0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
118940	Soil	20	27	0.32	34	0.011	<1	1.67	0.007	0.03	<0.1	0.04	0.9	<0.1	<0.05	6	<0.5	<0.2
118941	Soil	10	10	0.16	16	0.009	<1	0.78	0.013	0.03	0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
118942	Soil	29	25	0.59	19	0.012	<1	1.72	0.006	0.03	0.2	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
118943	Soil	30	29	0.61	25	0.007	<1	1.87	0.008	0.03	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
118944	Soil	23	29	0.46	26	0.012	<1	1.67	0.007	0.04	0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
118945	Soil	41	31	0.78	33	0.009	<1	2.19	0.004	0.03	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
118946	Soil	29	25	0.50	21	0.008	<1	1.68	0.006	0.02	<0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
118947	Soil	33	32	0.77	41	0.009	<1	2.29	0.004	0.03	1.7	0.02	1.7	<0.1	<0.05	7	0.6	<0.2
118948	Soil	33	30	0.52	21	0.008	<1	1.78	0.005	0.02	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
118949	Soil	28	21	0.38	19	0.010	<1	1.39	0.010	0.02	0.2	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2
118950	Soil	22	18	0.43	22	0.012	<1	1.31	0.015	0.03	0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
118951	Soil	37	30	0.64	25	0.024	<1	1.80	0.007	0.04	0.2	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
118952	Soil	16	10	0.16	30	0.011	<1	0.72	0.017	0.02	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
118953	Soil	29	26	0.50	24	0.013	<1	1.59	0.008	0.03	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
118954	Soil	5	4	0.06	12	0.011	<1	0.49	0.019	0.02	<0.1	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
118955	Soil	22	18	0.26	26	0.011	<1	1.07	0.008	0.03	0.2	0.03	0.6	<0.1	<0.05	5	<0.5	<0.2
118956	Soil	3	3	0.03	15	0.018	<1	0.49	0.023	0.02	<0.1	0.05	0.5	<0.1	<0.05	2	<0.5	<0.2
118957	Soil	13	13	0.15	14	0.021	<1	0.73	0.009	0.02	0.2	0.02	0.7	<0.1	<0.05	7	<0.5	<0.2
118958	Soil	33	32	0.65	25	0.016	<1	2.13	0.005	0.03	<0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
118959	Soil	<1	1	0.01	10	0.011	<1	0.13	0.030	0.02	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
118960	Soil	9	7	0.11	30	0.015	<1	0.72	0.019	0.03	<0.1	0.04	0.7	<0.1	<0.05	3	<0.5	<0.2
118961	Soil	8	6	0.10	30	0.014	<1	0.70	0.017	0.03	<0.1	0.04	0.6	<0.1	<0.05	3	<0.5	<0.2
118962	Soil	34	33	0.74	21	0.009	2	2.29	0.004	0.03	0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
118963	Soil	9	6	0.09	23	0.010	<1	0.53	0.018	0.03	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
118964	Soil	5	4	0.06	23	0.012	1	0.38	0.019	0.02	<0.1	0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
118965	Soil	5	4	0.06	13	0.011	<1	0.24	0.016	0.02	<0.1	<0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
118966	Soil	12	8	0.15	23	0.009	<1	0.51	0.018	0.03	<0.1	<0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
118967	Soil	34	32	0.56	51	0.005	<1	2.02	0.005	0.03	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
118968	Soil	19	9	0.18	48	0.010	<1	0.70	0.017	0.03	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
118969	Soil	0.5	20.0	20.1	81	0.1	21.5	10.6	486	4.67	19.3	0.7	<0.5	11.2	7	<0.1	0.3	0.5	19	0.03	0.084
118970	Soil	0.7	27.5	22.2	78	<0.1	23.7	13.7	483	4.78	21.3	1.1	0.7	12.0	5	<0.1	0.3	0.6	20	0.01	0.063
130197	Soil	1.0	43.6	16.5	74	0.1	18.0	8.9	609	3.48	77.1	1.6	10.0	4.5	5	0.1	0.5	0.8	24	0.02	0.091
130198	Soil	0.9	27.0	13.9	49	<0.1	11.8	5.8	285	3.10	127.0	1.2	9.6	7.8	4	<0.1	0.5	0.7	27	0.01	0.050
130199	Soil	0.6	23.3	20.5	88	<0.1	24.4	14.2	845	4.54	106.3	1.1	5.3	9.3	4	<0.1	0.4	0.6	26	0.01	0.058
130200	Soil	0.7	24.6	21.6	78	0.1	22.2	10.4	771	4.66	341.6	1.2	1.9	6.2	5	0.2	0.5	0.7	26	0.02	0.087
130201	Soil	0.5	35.5	21.2	109	<0.1	36.5	19.3	691	4.52	567.1	1.5	11.1	12.7	9	0.2	0.5	0.7	22	0.07	0.058
130202	Soil	0.6	17.0	12.5	46	<0.1	12.4	5.2	297	4.03	111.2	0.8	1.4	8.2	4	<0.1	0.3	0.5	30	0.01	0.065
130203	Soil	0.7	17.3	18.6	49	<0.1	13.0	5.8	495	5.27	86.7	0.9	2.6	8.1	5	<0.1	0.4	0.7	32	0.01	0.095
130204	Soil	0.6	20.2	12.6	47	<0.1	15.4	9.2	440	2.39	85.7	0.7	3.3	1.6	5	<0.1	0.5	0.5	13	0.03	0.066
130205	Soil	0.6	24.9	22.4	77	<0.1	23.0	10.6	583	5.18	179.5	1.0	2.2	11.1	5	0.1	0.4	0.6	30	0.01	0.086
130206	Soil	0.7	71.7	43.1	121	0.2	38.6	27.5	1002	5.04	409.6	3.7	23.7	6.3	9	0.1	0.6	1.1	22	0.03	0.101
130207	Soil	0.9	39.3	29.8	83	0.1	23.8	14.5	857	5.91	105.7	1.8	3.9	10.7	6	0.1	0.6	0.8	30	0.02	0.120
130208	Soil	1.0	84.0	64.8	148	0.1	64.9	95.1	1397	5.57	86.7	3.3	4.1	15.5	10	<0.1	0.8	1.3	22	0.06	0.106
130209	Soil	1.5	131.8	70.2	173	<0.1	91.6	95.0	654	6.91	76.0	5.4	1.0	27.3	17	<0.1	1.5	0.7	18	0.04	0.129
130210	Soil	0.9	47.3	38.7	96	0.1	33.6	16.1	389	5.56	36.8	1.3	1.2	12.8	8	<0.1	0.6	0.6	20	0.01	0.077
130211	Soil	0.8	24.0	15.5	26	<0.1	8.5	3.7	113	2.30	9.9	0.8	0.6	2.3	6	<0.1	0.3	0.4	20	0.02	0.053
130212	Soil	0.6	15.2	26.9	60	0.2	13.1	6.1	473	4.61	13.0	0.8	0.5	7.6	7	<0.1	0.4	0.5	22	0.01	0.111
130213	Soil	0.9	23.8	28.6	53	0.2	12.1	5.7	304	5.86	19.6	1.0	0.8	6.2	5	0.1	0.6	0.6	27	0.01	0.108
130214	Soil	0.9	23.3	35.4	64	0.2	17.8	21.5	878	5.03	13.3	1.1	<0.5	10.6	6	0.1	0.5	0.6	22	0.01	0.122
130215	Soil	0.3	5.3	5.4	12	<0.1	2.9	2.0	95	0.96	1.8	0.3	<0.5	0.6	5	<0.1	0.1	<0.1	13	0.03	0.034
130216	Soil	0.8	35.6	29.1	101	<0.1	34.2	14.8	520	5.12	27.2	1.0	1.9	12.9	6	<0.1	0.5	0.5	19	0.01	0.091
148007	Soil	0.4	19.3	7.8	33	<0.1	9.2	4.8	276	2.07	17.9	0.9	1.6	1.3	5	<0.1	0.2	0.5	15	0.02	0.069
148008	Soil	0.4	21.5	11.6	48	<0.1	13.0	11.3	362	1.61	11.5	0.5	2.8	1.6	4	<0.1	0.2	0.4	14	0.03	0.049
148009	Soil	0.8	19.8	16.4	63	<0.1	18.2	11.4	828	4.39	38.2	0.9	2.9	3.0	7	<0.1	0.5	0.6	29	0.02	0.100
148010	Soil	0.5	43.1	19.7	117	<0.1	42.7	24.3	1049	4.75	92.0	1.7	12.1	17.9	4	<0.1	0.2	0.8	21	0.03	0.032
148011	Soil	0.6	50.0	24.0	134	0.1	43.3	32.1	1429	4.82	11.0	1.2	10.7	10.8	4	0.1	0.4	1.7	25	0.04	0.063
148012	Soil	0.9	26.9	35.1	91	0.2	22.9	17.5	1945	6.09	19.7	1.0	<0.5	7.2	4	0.3	0.3	1.3	28	0.02	0.130
148013	Soil	1.3	40.3	50.8	100	0.1	27.7	28.3	1631	3.11	34.3	0.9	4.8	4.0	8	0.3	0.3	0.9	17	0.06	0.086
148014	Soil	0.8	26.1	31.1	49	0.1	13.0	9.6	1185	3.32	25.9	0.8	1.0	1.9	5	0.2	0.3	0.6	20	0.03	0.153



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118969	Soil	33	27	0.68	49	0.005	<1	1.91	0.008	0.03	<0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
118970	Soil	38	29	0.70	36	0.005	<1	1.94	0.005	0.03	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
130197	Soil	19	21	0.37	31	0.006	<1	1.36	0.006	0.03	0.1	0.08	0.9	<0.1	<0.05	7	<0.5	<0.2
130198	Soil	32	13	0.20	21	0.006	<1	0.87	0.005	0.02	0.2	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
130199	Soil	25	25	0.47	22	0.009	<1	1.69	0.004	0.02	0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
130200	Soil	19	27	0.39	27	0.009	<1	1.70	0.005	0.03	0.1	0.07	1.1	<0.1	<0.05	7	0.8	<0.2
130201	Soil	36	28	0.68	35	0.012	<1	1.94	0.005	0.02	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
130202	Soil	32	18	0.24	22	0.007	<1	1.13	0.005	0.03	0.1	0.03	0.9	<0.1	<0.05	8	<0.5	<0.2
130203	Soil	31	22	0.23	25	0.013	<1	1.11	0.004	0.03	0.1	0.03	1.0	<0.1	<0.05	9	<0.5	<0.2
130204	Soil	12	15	0.30	23	0.008	<1	1.09	0.013	0.03	<0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
130205	Soil	32	29	0.47	26	0.010	<1	1.97	0.004	0.02	0.1	0.03	1.4	<0.1	<0.05	8	<0.5	<0.2
130206	Soil	22	31	0.68	39	0.004	<1	2.23	0.006	0.04	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
130207	Soil	29	35	0.47	27	0.014	<1	2.48	0.005	0.03	0.2	0.07	1.6	<0.1	<0.05	8	0.6	<0.2
130208	Soil	90	32	0.83	32	0.007	2	2.35	0.010	0.03	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
130209	Soil	186	32	0.82	16	0.004	3	2.29	0.004	0.02	<0.1	0.02	2.3	<0.1	<0.05	6	0.9	<0.2
130210	Soil	34	30	0.73	17	0.005	<1	2.12	0.003	0.02	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
130211	Soil	20	15	0.16	37	0.013	<1	1.27	0.011	0.03	0.1	0.02	0.9	<0.1	<0.05	6	0.7	<0.2
130212	Soil	26	22	0.35	30	0.006	10	1.32	0.004	0.03	0.1	0.05	1.0	<0.1	<0.05	7	<0.5	<0.2
130213	Soil	19	25	0.26	21	0.015	<1	1.42	0.005	0.02	0.2	0.07	1.0	<0.1	<0.05	8	0.5	<0.2
130214	Soil	25	26	0.28	30	0.008	1	1.65	0.004	0.03	0.2	0.08	1.2	<0.1	<0.05	7	0.8	<0.2
130215	Soil	5	5	0.06	18	0.021	<1	0.68	0.030	0.02	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
130216	Soil	34	31	0.72	32	0.006	<1	2.20	0.006	0.03	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
148007	Soil	16	11	0.20	26	0.004	<1	0.89	0.010	0.02	<0.1	0.02	0.4	<0.1	<0.05	5	<0.5	<0.2
148008	Soil	8	10	0.25	18	0.011	<1	0.95	0.013	0.02	<0.1	0.04	0.5	<0.1	<0.05	3	<0.5	<0.2
148009	Soil	23	20	0.31	35	0.010	<1	1.38	0.006	0.03	0.1	0.03	0.8	<0.1	<0.05	8	<0.5	<0.2
148010	Soil	42	34	0.88	26	0.006	1	2.57	0.013	0.05	<0.1	<0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
148011	Soil	38	31	0.81	29	0.014	<1	2.06	0.003	0.02	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
148012	Soil	22	32	0.47	34	0.011	<1	1.83	0.005	0.03	2.3	0.07	1.3	<0.1	<0.05	8	<0.5	<0.2
148013	Soil	24	22	0.53	38	0.011	6	1.60	0.010	0.03	0.2	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
148014	Soil	13	22	0.26	35	0.008	<1	1.53	0.011	0.03	<0.1	0.04	0.6	<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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
148015	Soil																							
148016	Soil																							
148017	Soil																							
148018	Soil																							
148019	Soil																							
148020	Soil																							
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148039	Soil																							
148040	Soil																							
148041	Soil																							
148042	Soil																							
130217	Soil																							
130218	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148015	Soil	23	25	0.47	34	0.010	<1	1.68	0.008	0.03	0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
148016	Soil	21	29	0.59	24	0.009	<1	1.86	0.004	0.03	0.3	0.03	1.1	<0.1	<0.05	6	0.8	<0.2
148017	Soil	23	33	0.62	23	0.007	1	1.87	0.004	0.03	0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
148018	Soil	25	31	0.55	23	0.007	<1	1.79	0.005	0.03	0.2	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
148019	Soil	31	29	0.55	27	0.007	1	1.81	0.004	0.04	0.2	0.04	1.4	<0.1	<0.05	6	0.6	<0.2
148020	Soil	25	24	0.59	31	0.010	<1	1.80	0.003	0.02	0.3	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
148021	Soil	40	28	0.69	22	0.011	1	1.83	0.005	0.05	0.2	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
148022	Soil	41	28	0.73	16	0.010	1	1.91	0.009	0.06	0.1	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
148023	Soil	34	21	0.35	19	0.004	<1	1.34	0.003	0.03	<0.1	0.02	1.2	0.3	<0.05	5	0.5	<0.2
148024	Soil	20	16	0.34	19	0.008	<1	1.17	0.011	0.02	<0.1	0.02	0.6	<0.1	<0.05	5	0.7	<0.2
148025	Soil	24	24	0.54	27	0.006	<1	1.66	0.006	0.03	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
148026	Soil	17	15	0.32	33	0.008	<1	1.16	0.011	0.03	0.1	0.03	0.4	<0.1	<0.05	4	<0.5	<0.2
148027	Soil	32	22	0.41	23	0.009	<1	1.35	0.004	0.02	<0.1	0.03	0.8	<0.1	<0.05	6	0.6	<0.2
148028	Soil	13	11	0.12	39	0.005	14	0.69	0.010	0.02	<0.1	0.03	0.2	<0.1	<0.05	4	0.6	<0.2
148029	Soil	8	7	0.13	20	0.013	<1	0.80	0.018	0.02	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
148030	Soil	6	8	0.11	18	0.010	<1	0.65	0.016	0.03	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
148031	Soil	21	29	0.40	35	0.011	<1	1.50	0.008	0.03	<0.1	0.02	0.7	<0.1	<0.05	6	0.7	<0.2
148032	Soil	20	27	0.41	31	0.009	<1	1.72	0.005	0.03	0.1	0.07	1.0	<0.1	<0.05	6	<0.5	<0.2
148033	Soil	34	18	0.25	50	0.010	<1	1.02	0.008	0.04	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
148034	Soil	11	13	0.27	15	0.011	<1	0.98	0.019	0.02	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
148035	Soil	20	23	0.46	48	0.012	12	1.75	0.009	0.03	0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
148036	Soil	29	30	0.34	30	0.003	<1	2.00	0.005	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
148037	Soil	10	12	0.22	23	0.010	<1	0.93	0.014	0.03	<0.1	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
148038	Soil	41	33	0.81	24	0.005	<1	2.27	0.008	0.05	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
148039	Soil	61	29	0.75	19	0.008	<1	2.10	0.005	0.03	0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
148040	Soil	51	31	0.77	25	0.006	<1	2.19	0.006	0.03	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
148041	Soil	34	17	0.45	17	0.005	<1	1.29	0.018	0.03	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
148042	Soil	23	13	0.29	18	0.005	<1	0.89	0.018	0.02	<0.1	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
130217	Soil	24	27	0.54	19	0.004	<1	1.88	0.004	0.02	<0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
130218	Soil	28	26	0.56	26	0.004	<1	1.82	0.004	0.05	<0.1	0.01	1.1	<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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130219	Soil				1.5	85.7	10.5	123	0.1	30.7	16.0	608	6.75	21.0	1.6	<0.5	12.7	3	<0.1	0.3	2.2	21	0.03	0.221
130220	Soil				0.6	14.9	23.3	37	0.3	6.7	4.0	259	2.86	11.0	0.5	<0.5	4.9	4	<0.1	0.4	0.4	12	0.02	0.063
130221	Soil				0.3	30.1	25.8	109	0.3	31.4	13.5	466	4.61	20.2	0.8	<0.5	11.2	5	<0.1	0.2	0.5	19	0.03	0.064
130222	Soil				1.0	48.1	24.0	118	0.3	31.1	42.6	1755	5.88	13.6	1.5	<0.5	11.9	4	<0.1	0.3	0.8	22	0.02	0.153
130223	Soil				0.6	27.9	28.4	71	0.1	19.7	14.7	470	3.44	13.7	1.4	<0.5	5.1	5	<0.1	0.2	0.5	15	0.02	0.057
130224	Soil				1.5	121.4	97.0	165	0.3	55.0	83.6	2187	5.52	740.9	6.6	15.5	14.7	8	0.1	0.6	2.3	15	0.04	0.050
130225	Soil				1.7	172.1	108.3	174	0.2	70.0	56.7	7334	6.14	143.4	2.1	3.6	11.0	14	0.5	0.3	1.2	22	0.23	0.053
130226	Soil				0.7	234.3	105.1	152	0.2	72.4	63.4	5483	5.60	56.1	2.6	2.2	20.7	13	0.3	0.5	1.5	28	0.12	0.057
130227	Soil				0.6	92.4	21.6	100	<0.1	42.2	43.9	1016	4.17	21.8	1.6	88.5	11.8	5	<0.1	0.4	0.9	30	0.06	0.057
130228	Soil				0.7	220.8	91.1	107	0.3	58.3	119.6	2181	4.55	88.0	4.7	4.7	23.2	8	0.1	0.6	3.3	29	0.08	0.069
130229	Soil				1.4	56.9	49.3	75	0.4	25.0	9.3	246	5.10	152.9	2.5	4.4	5.6	6	<0.1	0.6	0.9	27	0.01	0.103
130230	Soil				1.0	49.1	57.9	105	0.1	36.8	33.5	1113	5.19	90.0	1.7	2.4	11.1	5	0.1	0.7	0.9	25	0.03	0.088
130231	Soil				1.4	46.5	72.8	86	0.2	28.6	21.1	1016	4.78	61.8	1.6	21.3	12.1	9	<0.1	0.5	0.8	21	0.02	0.080
130232	Soil				0.4	20.9	13.1	25	<0.1	8.0	3.5	103	1.25	48.4	1.4	1.8	0.7	7	<0.1	0.2	0.3	13	0.05	0.041
130233	Soil				0.7	26.7	39.9	55	<0.1	13.2	5.4	210	4.98	16.4	0.9	<0.5	11.1	5	<0.1	0.5	0.8	22	<0.01	0.075
130234	Soil				<0.1	4.4	2.0	7	<0.1	1.2	1.3	32	0.52	0.7	0.2	<0.5	0.3	10	<0.1	<0.1	<0.1	16	0.11	0.049
130235	Soil				0.9	72.0	93.3	111	0.2	52.4	82.8	2390	6.15	567.3	2.6	85.9	17.0	6	0.1	1.3	0.9	17	0.03	0.107
130236	Soil				0.7	20.5	31.2	66	<0.1	12.6	6.4	415	5.14	24.5	0.6	<0.5	11.6	4	<0.1	0.5	0.6	19	0.01	0.067
130237	Soil				0.6	10.7	21.6	63	0.1	10.9	6.6	566	6.05	16.4	0.6	0.9	10.5	4	<0.1	0.3	0.6	27	<0.01	0.208
130238	Soil				0.6	15.8	26.8	49	0.2	12.2	6.1	426	3.62	12.9	0.7	<0.5	4.4	6	<0.1	0.4	0.4	18	0.02	0.093
130239	Soil				0.7	18.2	13.2	25	<0.1	6.8	2.6	70	2.84	21.6	0.6	<0.5	6.3	7	0.1	0.4	0.4	30	0.02	0.061
130240	Soil				0.9	13.3	44.1	54	0.1	10.2	5.8	343	4.11	17.0	0.6	0.8	9.2	6	<0.1	0.4	0.5	26	0.02	0.071
130241	Soil				0.4	6.4	7.6	18	<0.1	3.5	1.8	98	1.48	5.7	0.3	<0.5	1.4	5	<0.1	0.2	0.2	15	0.02	0.043
130242	Soil				1.4	32.5	23.9	34	0.3	9.6	7.3	198	0.73	7.3	1.5	<0.5	1.2	14	<0.1	<0.1	0.2	9	0.19	0.042
130243	Soil				1.5	36.0	43.0	78	<0.1	26.3	10.3	456	4.42	17.4	1.3	7.9	10.6	9	<0.1	0.2	0.4	21	0.10	0.035
130244	Soil				0.7	35.2	23.3	87	0.1	32.3	16.5	530	4.66	14.6	0.9	5.2	11.9	5	<0.1	0.4	0.8	24	0.03	0.062
130245	Soil				0.7	27.6	40.5	61	0.5	20.3	9.3	403	4.18	24.1	0.9	0.6	10.7	4	<0.1	0.4	0.9	24	0.01	0.063
130246	Soil				2.1	116.2	52.6	142	0.4	46.1	28.4	932	6.64	105.7	4.4	5.0	16.0	6	<0.1	1.1	1.9	21	0.02	0.160
130247	Soil				0.8	27.1	16.9	64	0.3	16.7	6.0	427	5.99	30.5	1.6	<0.5	8.9	3	<0.1	0.4	0.9	22	0.02	0.117
130248	Soil				0.2	8.4	5.1	18	<0.1	4.4	2.8	111	1.23	7.1	0.3	<0.5	1.4	5	<0.1	<0.1	0.2	17	0.02	0.020



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130219	Soil	22	31	0.48	25	0.006	<1	1.80	0.006	0.03	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
130220	Soil	14	13	0.23	27	0.009	<1	1.18	0.014	0.03	<0.1	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
130221	Soil	29	33	0.75	44	0.005	<1	2.32	0.013	0.11	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
130222	Soil	22	28	0.57	45	0.007	<1	2.10	0.005	0.04	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
130223	Soil	24	21	0.40	41	0.006	<1	1.64	0.012	0.05	<0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
130224	Soil	30	26	0.78	28	0.003	3	2.03	0.009	0.03	0.2	0.05	2.1	<0.1	<0.05	6	<0.5	<0.2
130225	Soil	16	28	1.30	33	0.010	<1	2.73	0.007	0.04	<0.1	0.05	4.2	<0.1	<0.05	9	<0.5	<0.2
130226	Soil	82	35	1.32	57	0.018	<1	2.98	0.008	0.04	0.2	0.06	4.3	<0.1	<0.05	8	<0.5	<0.2
130227	Soil	39	31	0.81	40	0.037	8	1.86	0.020	0.05	0.1	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
130228	Soil	157	34	0.91	23	0.011	1	2.31	0.020	0.05	0.1	0.03	3.9	<0.1	<0.05	7	<0.5	0.2
130229	Soil	33	23	0.33	22	0.012	<1	1.36	0.007	0.04	0.1	0.06	1.2	<0.1	<0.05	8	<0.5	<0.2
130230	Soil	32	31	0.72	34	0.008	<1	2.28	0.006	0.04	0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
130231	Soil	34	26	0.58	28	0.007	<1	1.72	0.008	0.04	0.2	0.05	1.6	<0.1	<0.05	6	<0.5	<0.2
130232	Soil	18	7	0.13	13	0.010	<1	0.58	0.019	0.03	<0.1	0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
130233	Soil	37	24	0.41	23	0.010	<1	1.47	0.005	0.04	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
130234	Soil	2	2	0.03	14	0.028	<1	0.42	0.048	0.03	<0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
130235	Soil	38	25	0.60	45	0.004	<1	1.89	0.004	0.05	0.2	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
130236	Soil	34	25	0.54	20	0.003	<1	1.66	0.005	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
130237	Soil	32	27	0.37	26	0.010	<1	1.59	0.005	0.04	<0.1	0.03	1.4	<0.1	<0.05	9	<0.5	<0.2
130238	Soil	25	18	0.32	29	0.010	<1	1.31	0.012	0.03	<0.1	0.04	1.1	<0.1	<0.05	5	<0.5	<0.2
130239	Soil	26	12	0.09	43	0.014	<1	1.07	0.008	0.03	0.1	0.02	1.2	<0.1	<0.05	8	<0.5	<0.2
130240	Soil	28	19	0.34	32	0.017	<1	1.51	0.014	0.04	0.2	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
130241	Soil	10	6	0.07	18	0.018	<1	0.58	0.023	0.03	<0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
130242	Soil	29	4	0.06	42	0.013	<1	0.76	0.031	0.04	<0.1	0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
130243	Soil	47	32	0.86	47	0.005	<1	2.22	0.007	0.05	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
130244	Soil	34	30	0.65	24	0.009	<1	2.06	0.005	0.04	0.1	0.03	1.7	<0.1	<0.05	6	0.6	<0.2
130245	Soil	32	18	0.30	24	0.005	<1	1.38	0.006	0.03	0.1	0.06	1.3	<0.1	<0.05	7	<0.5	<0.2
130246	Soil	32	31	0.58	23	0.006	<1	2.07	0.007	0.04	0.2	0.05	1.8	<0.1	<0.05	6	<0.5	<0.2
130247	Soil	24	32	0.38	15	0.008	<1	1.99	0.006	0.02	0.1	0.07	1.3	<0.1	<0.05	8	0.8	<0.2
130248	Soil	6	5	0.10	13	0.024	<1	0.57	0.034	0.03	<0.1	<0.01	1.2	<0.1	<0.05	2	<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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130249	Soil				0.9	26.7	32.7	77	<0.1	23.1	12.4	462	4.47	25.1	1.1	2.0	9.0	7	<0.1	0.5	0.7	25	0.02	0.053
130250	Soil				0.7	18.9	30.5	51	<0.1	12.4	5.8	227	3.97	23.0	0.9	<0.5	4.7	7	<0.1	0.4	0.7	33	0.02	0.092
130251	Soil				0.9	28.9	36.3	76	0.5	18.5	8.1	355	5.65	30.8	1.1	0.8	8.9	6	<0.1	0.6	0.7	25	0.02	0.112
130252	Soil				0.9	24.3	35.2	59	0.1	18.1	9.9	310	3.47	16.3	1.2	0.6	2.3	9	<0.1	0.5	0.6	22	0.02	0.086
130253	Soil				0.9	73.8	69.7	144	0.2	83.0	98.5	1398	5.74	56.4	3.8	1.9	11.1	5	0.2	0.5	1.5	21	0.02	0.111
130254	Soil				0.4	20.7	17.9	34	0.2	17.3	6.2	143	1.06	6.0	1.5	1.0	0.5	10	<0.1	<0.1	0.3	9	0.11	0.099
130255	Soil				0.6	35.5	31.0	97	<0.1	44.8	32.2	581	4.74	18.5	1.4	<0.5	10.7	13	<0.1	0.4	0.5	27	0.12	0.057
130256	Soil				0.2	7.5	6.6	9	<0.1	2.1	1.0	48	0.83	4.0	0.4	<0.5	0.3	5	<0.1	0.2	0.2	10	0.02	0.030
130257	Soil				0.4	30.9	19.1	91	<0.1	30.3	15.3	810	4.36	12.2	0.8	<0.5	10.2	5	0.2	0.3	0.7	24	0.03	0.083
130258	Soil				0.1	86.1	52.0	125	<0.1	44.6	37.8	925	4.80	14.2	0.9	6.3	18.7	7	<0.1	0.1	1.2	22	0.08	0.042
130259	Soil				0.6	34.4	20.7	85	<0.1	30.2	20.0	846	5.06	17.1	1.2	9.1	13.0	5	0.1	0.5	1.2	26	0.03	0.076
130260	Soil				1.5	100.0	59.3	132	0.3	68.0	108.7	2595	4.08	45.3	2.8	2.5	10.5	6	<0.1	0.6	1.6	16	0.03	0.085
130261	Soil				1.0	91.6	83.5	125	0.2	71.1	86.8	1529	5.14	127.9	2.2	15.4	16.9	7	<0.1	0.8	1.5	14	0.04	0.081
130262	Soil				0.7	28.5	25.3	74	<0.1	23.2	14.8	516	3.64	22.8	0.9	1.8	5.3	5	<0.1	0.4	0.6	18	0.03	0.066
130263	Soil				1.0	22.8	26.4	61	0.1	17.5	7.6	285	3.65	22.2	0.9	1.2	5.8	6	<0.1	0.5	0.7	23	0.01	0.057
130264	Soil				1.4	170.0	79.0	288	0.4	122.5	164.6	2696	6.47	54.7	5.6	2.1	23.0	6	0.7	0.5	7.3	16	0.06	0.130
130265	Soil				0.9	62.3	55.5	115	0.3	32.4	33.6	731	5.21	40.0	2.2	1.8	9.3	7	0.2	0.6	8.9	19	0.04	0.113
147103	Soil				2.5	63.6	69.1	105	0.3	28.4	32.4	1501	3.35	72.8	1.8	3.4	11.4	6	0.2	0.4	1.2	18	0.06	0.076
147104	Soil				0.6	20.1	14.2	66	<0.1	22.1	10.6	505	4.05	26.0	1.1	2.1	3.3	3	0.2	0.4	0.9	24	0.02	0.095
147105	Soil				0.8	45.4	17.6	82	0.1	26.6	16.1	831	4.05	39.6	1.4	12.6	7.1	4	0.1	0.5	0.9	24	0.02	0.107
147106	Soil				0.6	28.9	15.0	65	<0.1	19.5	8.1	517	4.16	42.7	1.2	4.9	6.1	4	<0.1	0.4	0.8	25	0.02	0.078
147107	Soil				0.6	25.7	15.4	72	<0.1	23.9	11.4	685	4.93	45.2	1.0	6.7	9.3	4	<0.1	0.4	0.8	26	0.03	0.067
147108	Soil				0.7	20.1	13.0	70	<0.1	22.4	8.6	434	4.05	536.8	1.1	11.2	7.3	6	<0.1	0.6	0.6	24	0.02	0.056
147109	Soil				0.7	13.1	13.6	45	<0.1	13.4	5.1	390	3.71	45.2	0.8	3.5	3.2	7	0.1	0.3	0.4	24	0.02	0.074
147110	Soil				0.3	8.7	6.2	23	<0.1	6.5	3.1	180	1.29	14.9	0.4	<0.5	0.3	4	<0.1	0.2	0.2	13	0.02	0.050
147111	Soil				0.5	29.0	19.4	69	0.2	19.6	15.7	673	2.62	179.8	2.0	4.6	1.3	8	0.1	0.3	0.7	18	0.05	0.107
147112	Soil				0.6	17.1	13.0	51	<0.1	13.9	6.7	615	3.92	90.7	0.7	12.6	7.6	4	0.1	0.3	0.5	25	0.01	0.087
147113	Soil				0.6	21.5	17.0	63	<0.1	18.3	10.3	683	3.50	51.2	1.0	0.7	2.0	7	0.1	0.3	0.4	22	0.02	0.105
147114	Soil				0.9	43.0	33.5	101	<0.1	32.7	32.7	1544	3.94	152.4	1.7	74.7	4.4	8	0.1	0.4	1.7	20	0.03	0.095
147115	Soil				0.7	39.7	27.0	98	0.1	31.5	27.4	1453	3.80	149.3	1.8	4.0	2.7	10	0.2	0.3	0.8	18	0.06	0.114



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130249	Soil	38	31	0.59	36	0.009	5	1.98	0.008	0.04	0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
130250	Soil	39	19	0.29	20	0.010	<1	1.06	0.008	0.04	0.1	0.02	1.1	<0.1	<0.05	8	<0.5	<0.2
130251	Soil	29	26	0.42	22	0.007	<1	1.67	0.006	0.04	0.2	0.07	1.4	<0.1	<0.05	7	0.9	<0.2
130252	Soil	25	19	0.34	32	0.008	<1	1.24	0.011	0.04	0.1	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
130253	Soil	45	30	0.67	27	0.008	2	2.04	0.009	0.07	0.2	0.02	2.2	<0.1	<0.05	6	0.5	<0.2
130254	Soil	12	6	0.12	34	0.007	<1	0.77	0.023	0.03	<0.1	0.02	0.4	<0.1	0.06	3	<0.5	<0.2
130255	Soil	31	38	0.88	28	0.004	<1	2.14	0.006	0.03	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
130256	Soil	4	4	0.06	10	0.010	<1	0.38	0.022	0.02	<0.1	0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
130257	Soil	28	32	0.66	24	0.007	<1	2.08	0.011	0.05	0.1	0.05	1.7	<0.1	<0.05	7	0.6	<0.2
130258	Soil	48	34	0.93	37	0.004	4	2.69	0.013	0.07	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
130259	Soil	40	25	0.50	33	0.010	<1	1.80	0.005	0.05	0.2	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
130260	Soil	25	22	0.51	70	0.006	<1	1.64	0.012	0.04	0.2	0.02	1.5	<0.1	<0.05	5	0.6	<0.2
130261	Soil	39	25	0.60	33	0.004	<1	1.97	0.009	0.04	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
130262	Soil	21	22	0.50	25	0.010	<1	1.70	0.009	0.03	0.2	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
130263	Soil	24	21	0.42	28	0.011	<1	1.45	0.009	0.03	0.2	0.03	1.1	<0.1	<0.05	6	0.8	<0.2
130264	Soil	30	32	0.79	25	0.002	<1	2.46	0.005	0.04	1.8	0.03	2.7	<0.1	<0.05	6	0.5	<0.2
130265	Soil	25	27	0.64	25	0.006	<1	1.94	0.008	0.03	0.2	0.02	1.4	<0.1	<0.05	6	0.7	<0.2
147103	Soil	23	26	0.70	21	0.009	1	1.73	0.013	0.03	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
147104	Soil	14	23	0.37	23	0.009	1	1.44	0.004	0.02	<0.1	0.07	0.8	<0.1	<0.05	6	<0.5	<0.2
147105	Soil	24	27	0.53	25	0.010	<1	1.55	0.007	0.03	0.1	0.08	1.3	<0.1	<0.05	7	1.0	<0.2
147106	Soil	18	23	0.44	26	0.006	<1	1.47	0.006	0.02	0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
147107	Soil	24	26	0.53	21	0.010	<1	1.58	0.005	0.02	0.1	0.03	1.1	<0.1	<0.05	7	<0.5	<0.2
147108	Soil	24	24	0.42	34	0.019	<1	1.70	0.006	0.03	0.2	0.03	1.2	<0.1	<0.05	7	0.6	<0.2
147109	Soil	21	19	0.30	39	0.009	<1	1.28	0.007	0.02	0.1	0.03	0.7	<0.1	<0.05	7	<0.5	<0.2
147110	Soil	8	9	0.16	18	0.009	<1	0.67	0.016	0.03	<0.1	0.03	0.3	<0.1	<0.05	4	0.5	<0.2
147111	Soil	16	18	0.37	37	0.007	<1	1.47	0.014	0.03	0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
147112	Soil	31	20	0.36	24	0.007	<1	1.30	0.006	0.03	0.1	0.04	1.0	<0.1	<0.05	8	0.6	<0.2
147113	Soil	17	20	0.34	39	0.009	1	1.37	0.009	0.03	0.1	0.05	0.6	<0.1	<0.05	6	0.5	<0.2
147114	Soil	29	23	0.54	28	0.010	<1	1.72	0.008	0.02	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
147115	Soil	22	23	0.55	40	0.006	<1	1.70	0.010	0.03	<0.1	0.02	0.8	<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 ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
147116	Soil	0.7	36.0	26.3	80	<0.1	26.8	20.0	657	3.86	93.7	2.0	2.1	3.4	7	0.2	0.6	0.6	19	0.04	0.090
147117	Soil	0.2	5.6	4.8	10	<0.1	3.2	2.1	62	0.59	7.6	0.4	<0.5	0.2	4	<0.1	<0.1	<0.1	7	0.02	0.037
147118	Soil	0.5	27.9	20.0	58	0.1	15.4	11.9	647	2.39	184.8	1.6	3.9	0.9	8	0.2	0.2	0.5	17	0.06	0.114
147119	Soil	0.4	20.7	15.9	52	0.2	14.2	9.8	443	2.54	29.7	0.9	4.5	1.2	8	<0.1	0.3	0.3	14	0.03	0.131
147120	Soil	0.6	27.8	25.1	101	0.2	29.4	12.4	516	5.16	64.2	1.2	2.4	9.7	8	<0.1	0.5	0.6	23	0.02	0.094
147121	Soil	0.9	43.0	42.5	114	0.2	41.3	16.7	476	5.55	32.8	1.9	1.3	14.7	9	<0.1	0.6	0.7	23	0.01	0.085
147122	Soil	1.2	42.9	38.2	94	0.3	35.5	15.0	276	5.39	35.8	1.5	1.0	12.7	19	<0.1	1.1	0.6	22	0.02	0.112
147123	Soil	0.8	36.9	35.7	98	0.2	28.9	13.7	568	5.84	31.8	1.4	2.0	13.9	7	<0.1	0.6	0.6	23	0.01	0.096
147124	Soil	0.9	39.9	42.1	109	0.2	32.8	17.5	459	4.80	36.3	1.6	2.3	14.0	9	<0.1	0.6	0.7	24	0.07	0.114
147125	Soil	0.7	13.3	16.4	25	<0.1	6.8	2.4	65	2.25	8.4	0.4	<0.5	1.8	6	<0.1	0.4	0.4	23	0.03	0.057
147126	Soil	0.2	5.6	2.7	6	<0.1	1.5	1.2	52	0.50	0.7	0.2	<0.5	0.2	6	<0.1	<0.1	<0.1	12	0.04	0.022
147127	Soil	0.7	16.1	24.8	56	0.3	13.3	8.2	300	4.19	19.4	0.7	3.1	9.2	6	<0.1	0.4	0.5	23	0.02	0.196
147128	Soil	0.5	23.4	28.6	101	0.6	21.2	10.9	475	5.27	24.9	0.8	<0.5	12.4	6	0.1	0.4	0.5	23	0.01	0.088
147129	Soil	0.6	16.3	23.1	106	0.2	14.6	13.5	602	4.57	16.6	0.7	<0.5	9.3	6	0.1	0.3	0.5	22	0.02	0.109
147130	Soil	0.5	25.4	27.8	96	0.2	26.3	13.2	470	5.08	42.9	0.9	2.4	13.3	5	<0.1	0.4	0.6	21	<0.01	0.062
147131	Soil	0.6	44.0	32.9	107	0.2	39.5	20.0	542	5.15	36.2	0.9	2.0	13.9	6	<0.1	0.4	0.6	20	0.01	0.039
147132	Soil	0.5	25.7	29.6	83	0.1	20.6	10.2	422	3.80	22.4	0.8	1.4	9.4	8	<0.1	0.3	4.0	19	0.04	0.088
147133	Soil	0.5	25.6	25.1	83	0.1	23.6	11.3	449	4.94	20.2	0.8	1.1	10.5	6	<0.1	0.3	0.5	19	0.01	0.061
147134	Soil	0.4	45.0	24.5	107	<0.1	37.0	24.5	878	4.67	27.0	1.4	1.4	14.4	7	<0.1	0.4	0.5	18	0.05	0.055
147135	Soil	0.4	13.8	5.2	10	0.2	3.9	2.5	261	0.50	5.4	1.3	1.2	0.6	25	<0.1	<0.1	0.2	7	0.27	0.046
147136	Soil	0.8	29.1	20.6	57	<0.1	19.3	7.4	434	3.13	84.7	1.5	5.1	1.5	5	<0.1	0.4	0.8	24	0.02	0.093
147137	Soil	1.2	38.7	44.0	105	<0.1	37.0	29.2	1121	4.85	202.1	2.5	4.6	11.1	7	<0.1	0.6	1.3	29	0.02	0.046
147138	Soil	1.1	82.2	37.3	53	0.1	19.9	8.9	450	2.92	230.7	5.2	2.3	1.2	10	<0.1	0.5	0.9	22	0.03	0.139
147139	Soil	0.4	13.7	9.6	18	<0.1	4.8	1.9	124	1.04	21.4	0.6	2.0	0.6	5	<0.1	0.2	0.2	10	0.02	0.038
147140	Soil	0.2	4.7	3.3	6	<0.1	1.5	0.8	36	0.40	6.0	0.3	1.3	<0.1	5	<0.1	<0.1	<0.1	7	0.02	0.027
147141	Soil	0.5	22.2	14.8	47	<0.1	16.5	7.2	315	2.57	58.3	0.8	2.6	1.8	5	<0.1	0.2	0.4	18	0.02	0.047
147142	Soil	1.0	67.3	44.4	100	<0.1	39.1	27.9	928	4.77	104.9	2.2	3.9	8.4	11	0.1	0.5	1.1	25	0.04	0.085
147143	Soil	0.8	34.8	32.0	92	<0.1	32.5	16.6	603	4.13	86.5	1.0	3.4	10.5	5	<0.1	0.4	0.7	23	0.02	0.043
147144	Soil	1.0	113.6	65.5	162	0.1	66.7	73.3	899	5.95	276.0	7.4	69.2	25.3	11	0.1	1.6	1.6	19	0.03	0.088
147145	Soil	1.0	80.9	65.1	105	0.2	39.4	30.3	394	5.16	51.4	2.9	2.3	21.9	2	<0.1	1.0	1.2	15	0.01	0.050



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147116	Soil	26	23	0.49	24	0.011	<1	1.66	0.009	0.03	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
147117	Soil	3	4	0.06	12	0.010	<1	0.45	0.021	0.02	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
147118	Soil	15	16	0.30	40	0.006	<1	1.34	0.019	0.04	<0.1	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
147119	Soil	16	14	0.27	21	0.009	<1	1.20	0.018	0.02	<0.1	0.03	0.5	<0.1	<0.05	4	<0.5	<0.2
147120	Soil	34	29	0.63	27	0.011	2	2.02	0.007	0.03	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
147121	Soil	34	29	0.61	24	0.009	<1	2.00	0.005	0.03	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
147122	Soil	47	26	0.58	38	0.006	<1	1.95	0.009	0.03	<0.1	0.04	1.9	<0.1	<0.05	6	0.6	<0.2
147123	Soil	33	33	0.74	25	0.009	2	2.28	0.005	0.03	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
147124	Soil	35	33	0.69	28	0.013	5	2.32	0.006	0.04	0.2	0.04	1.9	<0.1	<0.05	6	0.6	<0.2
147125	Soil	14	8	0.06	33	0.010	<1	0.49	0.007	0.03	0.1	0.04	0.5	<0.1	<0.05	4	<0.5	<0.2
147126	Soil	3	2	0.04	20	0.024	<1	0.50	0.025	0.02	<0.1	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
147127	Soil	26	21	0.27	34	0.006	<1	1.39	0.010	0.03	0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
147128	Soil	41	28	0.66	28	0.005	<1	1.95	0.004	0.03	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
147129	Soil	32	24	0.47	50	0.008	<1	1.80	0.010	0.04	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
147130	Soil	35	32	0.72	26	0.005	<1	2.32	0.005	0.03	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
147131	Soil	36	35	0.90	30	0.009	<1	2.61	0.009	0.06	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
147132	Soil	27	25	0.55	35	0.005	<1	1.67	0.005	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
147133	Soil	35	30	0.67	35	0.006	23	2.27	0.008	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
147134	Soil	44	31	0.86	26	0.007	<1	2.25	0.007	0.06	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
147135	Soil	16	3	0.05	21	0.010	<1	0.34	0.036	0.02	<0.1	0.02	0.5	<0.1	0.10	1	0.6	<0.2
147136	Soil	15	23	0.45	22	0.013	2	1.32	0.011	0.03	0.2	0.04	0.8	<0.1	0.18	5	1.0	<0.2
147137	Soil	28	32	0.69	42	0.012	<1	2.35	0.006	0.04	0.1	0.03	1.8	<0.1	0.06	7	0.6	<0.2
147138	Soil	16	23	0.32	44	0.007	<1	1.30	0.011	0.03	0.2	0.04	0.5	<0.1	0.11	6	0.8	<0.2
147139	Soil	10	7	0.12	20	0.009	<1	0.59	0.023	0.02	<0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2
147140	Soil	3	3	0.04	10	0.007	<1	0.25	0.024	0.02	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5	<0.2
147141	Soil	21	16	0.34	24	0.011	<1	1.11	0.015	0.02	<0.1	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
147142	Soil	34	32	0.73	34	0.009	<1	2.18	0.007	0.03	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2
147143	Soil	36	28	0.71	30	0.012	<1	1.98	0.009	0.03	<0.1	0.01	1.6	<0.1	<0.05	6	0.5	<0.2
147144	Soil	45	31	0.73	31	0.007	1	2.25	0.007	0.03	<0.1	0.03	2.3	<0.1	<0.05	7	0.9	<0.2
147145	Soil	90	33	0.78	5	0.002	<1	2.24	0.004	0.02	<0.1	0.03	1.9	<0.1	<0.05	7	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
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
147146	Soil	0.8	49.5	56.4	118	0.1	42.6	25.6	692	5.30	86.2	1.6	4.9	17.8	8	0.1	0.6	1.0	22	0.02
147147	Soil	0.7	46.0	43.2	59	0.2	20.7	9.0	178	3.29	22.2	2.2	3.2	5.1	14	0.2	0.4	0.7	17	0.03
147148	Soil	0.8	40.3	36.6	73	0.1	21.9	9.4	358	5.54	43.7	1.5	3.8	14.6	6	<0.1	0.8	0.8	21	0.02
147149	Soil	0.9	41.4	41.4	98	0.2	25.0	10.5	557	6.14	29.6	1.5	1.8	19.1	10	<0.1	0.7	0.7	20	<0.01
147150	Soil	0.1	3.1	2.5	7	<0.1	1.3	0.8	32	0.46	1.2	0.2	<0.5	0.1	5	<0.1	<0.1	<0.1	7	0.02
147151	Soil	0.3	10.7	4.7	8	<0.1	2.5	1.2	74	0.68	2.4	0.3	<0.5	0.1	6	<0.1	<0.1	0.1	7	0.02
147152	Soil	0.8	36.3	50.2	72	0.1	19.3	10.3	464	5.16	21.1	1.1	1.1	13.8	4	0.2	0.7	0.8	19	0.01
147153	Soil	0.6	16.5	30.9	59	0.1	13.2	5.9	328	5.17	13.3	0.7	0.6	11.7	3	<0.1	0.5	0.6	20	0.01
147154	Soil	0.8	44.0	50.2	74	0.1	22.2	11.3	374	5.27	23.5	1.1	1.0	16.7	4	<0.1	0.8	0.8	17	0.01
147155	Soil	0.1	2.4	2.9	8	<0.1	1.4	1.1	34	0.64	1.6	0.1	1.3	<0.1	6	<0.1	<0.1	<0.1	13	0.03
147156	Soil	0.9	46.1	66.9	81	0.2	19.7	10.4	567	6.58	29.5	0.9	<0.5	17.5	5	0.1	1.2	1.0	18	0.01
147157	Soil	0.9	38.6	49.0	75	0.2	16.7	9.0	385	5.39	25.7	0.9	1.7	13.1	7	<0.1	0.7	0.8	20	0.03
147158	Soil	0.4	10.4	10.5	36	<0.1	6.2	7.3	660	1.73	5.7	0.4	1.2	1.7	6	0.1	0.2	0.2	11	0.02
147159	Soil	0.8	49.4	40.5	84	<0.1	28.2	25.0	666	4.62	20.9	1.4	3.0	19.4	9	<0.1	0.4	0.6	22	0.01
147160	Soil	0.8	24.7	24.4	55	<0.1	14.9	8.1	417	3.87	17.4	0.9	2.5	2.0	6	<0.1	0.4	0.7	21	0.04
147161	Soil	0.7	34.2	32.8	65	0.1	19.9	15.2	644	3.07	19.7	1.4	2.1	3.9	5	<0.1	0.3	0.8	13	0.02
147162	Soil	0.5	38.1	31.0	121	<0.1	39.8	27.6	893	5.29	19.8	1.3	1.3	12.5	6	0.1	0.3	0.8	19	0.05



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147146	Soil	46	37	0.89	48	0.008	1	2.58	0.015	0.08	0.1	0.02	2.8	<0.1	<0.05	7	0.6	<0.2
147147	Soil	61	24	0.45	38	0.007	<1	1.80	0.013	0.03	<0.1	0.04	0.8	<0.1	<0.05	5	0.6	<0.2
147148	Soil	38	29	0.54	22	0.006	<1	1.82	0.005	0.03	<0.1	0.04	1.3	<0.1	<0.05	6	0.7	<0.2
147149	Soil	47	32	0.70	20	0.007	<1	2.07	0.004	0.02	<0.1	0.04	1.5	<0.1	<0.05	7	0.7	<0.2
147150	Soil	2	2	0.04	12	0.013	<1	0.32	0.024	0.02	<0.1	0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
147151	Soil	6	4	0.06	29	0.008	<1	0.64	0.027	0.03	<0.1	0.01	0.5	<0.1	<0.05	2	0.5	<0.2
147152	Soil	33	30	0.57	33	0.004	<1	1.97	0.006	0.03	<0.1	0.03	1.4	<0.1	<0.05	6	0.6	<0.2
147153	Soil	33	28	0.48	19	0.003	<1	1.74	0.006	0.02	<0.1	0.03	1.2	<0.1	<0.05	7	0.6	<0.2
147154	Soil	36	29	0.60	20	0.003	<1	1.88	0.006	0.02	<0.1	0.05	1.4	<0.1	<0.05	6	0.6	<0.2
147155	Soil	4	3	0.04	11	0.009	<1	0.21	0.022	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
147156	Soil	33	32	0.67	31	0.003	<1	2.12	0.005	0.03	<0.1	0.02	1.5	<0.1	<0.05	7	0.7	<0.2
147157	Soil	31	27	0.49	27	0.006	<1	1.72	0.007	0.03	<0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
147158	Soil	13	9	0.16	50	0.012	<1	0.80	0.016	0.02	<0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
147159	Soil	43	33	0.74	49	0.007	11	2.36	0.014	0.07	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
147160	Soil	19	22	0.36	30	0.009	<1	1.60	0.011	0.03	0.2	0.02	0.5	<0.1	0.06	6	0.7	<0.2
147161	Soil	20	20	0.40	20	0.005	<1	1.34	0.014	0.02	<0.1	0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
147162	Soil	35	38	0.90	21	0.006	<1	2.51	0.006	0.03	0.2	0.01	1.9	<0.1	<0.05	7	0.5	<0.2



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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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
118907	Soil	0.5	27.4	17.8	66	0.2	18.6	13.4	746	3.22	22.4	0.9	7.5	2.7	5	0.1	0.3	0.9	17	0.04	0.078
REP 118907	QC	0.5	26.2	17.6	63	0.2	18.0	13.0	742	3.07	21.8	0.8	3.5	3.0	5	0.1	0.2	1.0	17	0.04	0.074
118924	Soil	0.7	26.0	30.7	70	0.2	14.7	6.4	532	4.47	16.7	1.2	<0.5	8.5	17	<0.1	0.5	0.8	20	0.02	0.092
REP 118924	QC	0.8	25.6	32.0	69	0.2	13.6	6.4	522	4.37	17.0	1.3	0.5	8.4	17	0.1	0.4	0.8	20	0.02	0.091
122000	Soil	0.5	14.6	7.4	23	0.1	6.0	5.7	128	1.44	5.7	0.5	<0.5	1.1	4	<0.1	0.2	0.3	12	0.02	0.043
REP 122000	QC	0.4	14.6	7.6	24	0.1	6.0	5.5	123	1.39	5.9	0.5	<0.5	1.2	5	<0.1	0.2	0.2	12	0.01	0.043
130177	Soil	1.0	45.2	32.8	82	0.1	31.2	23.6	539	5.66	144.5	1.8	2.5	7.0	11	0.2	1.0	1.0	17	0.01	0.132
REP 130177	QC	0.9	45.9	33.6	86	0.1	31.9	23.5	540	5.73	144.9	1.9	2.8	7.2	11	0.1	1.1	1.0	16	0.01	0.136
130190	Soil	0.9	20.9	35.9	65	0.2	15.8	8.5	470	5.12	18.4	0.8	<0.5	11.4	6	0.1	0.5	0.7	29	0.01	0.078
REP 130190	QC	0.9	21.6	35.2	64	0.2	15.8	8.6	458	5.30	18.2	0.8	1.0	11.0	5	<0.1	0.4	0.7	28	0.01	0.084
147084	Soil	0.5	36.8	29.4	98	<0.1	34.8	15.7	369	4.88	50.4	1.3	1.4	9.5	5	0.1	0.7	0.7	16	0.02	0.067
REP 147084	QC	0.6	36.9	30.1	99	<0.1	35.3	15.3	363	4.83	50.4	1.4	3.1	9.6	6	0.1	0.7	0.7	15	0.02	0.065
147096	Soil	0.2	6.4	4.2	13	<0.1	2.5	3.3	345	0.93	1.3	0.2	<0.5	0.3	4	<0.1	<0.1	0.2	8	0.02	0.068
REP 147096	QC	0.2	6.7	4.4	13	<0.1	2.7	3.2	331	0.92	1.7	0.2	<0.5	0.3	4	<0.1	0.1	0.2	8	0.02	0.069
118951	Soil	0.8	35.5	25.1	85	<0.1	28.4	21.9	555	4.22	37.5	1.1	0.8	7.1	8	<0.1	0.5	0.7	20	0.04	0.085
REP 118951	QC	1.0	35.8	25.5	85	<0.1	28.4	22.3	575	4.36	38.3	1.2	1.7	8.2	9	0.1	0.6	0.7	20	0.04	0.086
118967	Soil	1.0	46.3	12.6	173	<0.1	43.3	23.0	709	5.38	20.3	1.5	<0.5	14.5	7	0.1	0.3	0.8	21	0.04	0.188
REP 118967	QC	0.9	45.0	12.5	168	<0.1	42.1	22.3	712	5.29	19.9	1.5	<0.5	14.2	7	0.1	0.3	0.8	21	0.04	0.183
148007	Soil	0.4	19.3	7.8	33	<0.1	9.2	4.8	276	2.07	17.9	0.9	1.6	1.3	5	<0.1	0.2	0.5	15	0.02	0.069
REP 148007	QC	0.4	18.8	7.7	34	<0.1	9.4	4.6	274	2.02	17.5	0.8	6.7	1.3	5	<0.1	0.2	0.4	15	0.03	0.069
148021	Soil	0.6	38.1	28.0	94	0.2	18.9	9.0	414	4.83	81.4	1.1	17.7	14.2	8	<0.1	0.8	1.3	18	0.01	0.105
REP 148021	QC	1.0	36.8	27.8	93	0.2	18.4	9.0	425	4.94	83.6	1.1	15.7	13.9	9	0.1	0.9	1.2	19	0.02	0.102
148036	Soil	0.9	59.4	37.5	135	0.1	67.5	32.6	517	6.83	27.6	2.7	1.3	16.7	5	<0.1	0.4	0.6	21	0.02	0.080
REP 148036	QC	0.9	59.8	37.4	134	0.1	66.6	32.8	525	6.88	27.4	2.7	3.6	16.4	5	<0.1	0.4	0.6	20	0.02	0.081
130233	Soil	0.7	26.7	39.9	55	<0.1	13.2	5.4	210	4.98	16.4	0.9	<0.5	11.1	5	<0.1	0.5	0.8	22	<0.01	0.075
REP 130233	QC	0.6	26.1	38.8	53	<0.1	13.7	5.2	207	4.72	15.8	0.9	<0.5	11.6	5	<0.1	0.7	0.9	22	<0.01	0.074
130250	Soil	0.7	18.9	30.5	51	<0.1	12.4	5.8	227	3.97	23.0	0.9	<0.5	4.7	7	<0.1	0.4	0.7	33	0.02	0.092
REP 130250	QC	0.7	18.4	29.7	48	<0.1	13.0	5.6	224	3.86	22.4	0.9	0.6	4.4	8	<0.1	0.4	0.7	33	0.02	0.090



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Part 2

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
118907	Soil	16	20	0.36	28	0.011	<1	1.63	0.010	0.03	0.1	0.03	0.8	<0.1	<0.05	5	<0.5	<0.2
REP 118907	QC	16	19	0.36	26	0.011	<1	1.52	0.011	0.03	<0.1	0.04	0.6	<0.1	<0.05	5	<0.5	<0.2
118924	Soil	29	20	0.31	31	0.007	<1	1.32	0.006	0.03	0.1	0.03	1.0	<0.1	<0.05	6	0.6	<0.2
REP 118924	QC	30	21	0.32	32	0.007	<1	1.35	0.006	0.03	0.2	0.03	0.9	<0.1	<0.05	6	0.6	<0.2
122000	Soil	9	7	0.08	21	0.015	1	0.69	0.015	0.03	0.1	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2
REP 122000	QC	9	7	0.08	20	0.015	<1	0.67	0.015	0.03	<0.1	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
130177	Soil	27	24	0.51	22	0.006	<1	1.72	0.005	0.03	0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
REP 130177	QC	26	23	0.51	22	0.012	<1	1.73	0.005	0.03	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
130190	Soil	28	26	0.42	44	0.010	<1	2.04	0.005	0.03	0.2	0.03	1.3	<0.1	<0.05	8	<0.5	<0.2
REP 130190	QC	27	26	0.43	43	0.010	2	2.08	0.005	0.03	0.2	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
147084	Soil	41	27	0.69	14	0.006	<1	1.91	0.005	0.02	<0.1	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
REP 147084	QC	40	27	0.71	14	0.006	<1	1.92	0.005	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147096	Soil	6	4	0.04	29	0.012	<1	0.51	0.019	0.02	<0.1	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
REP 147096	QC	6	4	0.04	30	0.012	<1	0.55	0.019	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
118951	Soil	37	30	0.64	25	0.024	<1	1.80	0.007	0.04	0.2	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
REP 118951	QC	38	29	0.67	26	0.018	2	1.85	0.008	0.05	0.1	<0.01	1.9	<0.1	<0.05	5	0.7	<0.2
118967	Soil	34	32	0.56	51	0.005	<1	2.02	0.005	0.03	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
REP 118967	QC	34	31	0.57	50	0.005	<1	1.93	0.008	0.03	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
148007	Soil	16	11	0.20	26	0.004	<1	0.89	0.010	0.02	<0.1	0.02	0.4	<0.1	<0.05	5	<0.5	<0.2
REP 148007	QC	17	13	0.20	26	0.005	<1	0.87	0.011	0.02	<0.1	0.02	0.4	<0.1	<0.05	5	<0.5	<0.2
148021	Soil	40	28	0.69	22	0.011	1	1.83	0.005	0.05	0.2	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
REP 148021	QC	41	28	0.67	24	0.013	1	1.76	0.006	0.05	0.3	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
148036	Soil	29	30	0.34	30	0.003	<1	2.00	0.005	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
REP 148036	QC	28	30	0.34	28	0.002	<1	2.01	0.005	0.03	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
130233	Soil	37	24	0.41	23	0.010	<1	1.47	0.005	0.04	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
REP 130233	QC	36	24	0.41	21	0.006	<1	1.50	0.005	0.04	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
130250	Soil	39	19	0.29	20	0.010	<1	1.06	0.008	0.04	0.1	0.02	1.1	<0.1	<0.05	8	<0.5	<0.2
REP 130250	QC	41	19	0.29	22	0.010	<1	1.04	0.008	0.04	0.2	0.02	1.0	<0.1	<0.05	8	<0.5	<0.2



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
147111	Soil	0.5	29.0	19.4	69	0.2	19.6	15.7	673	2.62	179.8	2.0	4.6	1.3	8	0.1	0.3	0.7	18	0.05
REP 147111	QC	0.5	29.0	19.9	70	0.2	19.3	15.7	669	2.60	180.5	2.0	9.9	1.4	8	<0.1	0.3	0.7	17	0.05
147132	Soil	0.5	25.7	29.6	83	0.1	20.6	10.2	422	3.80	22.4	0.8	1.4	9.4	8	<0.1	0.3	4.0	19	0.04
REP 147132	QC	0.5	25.4	29.3	82	0.1	21.3	10.4	416	3.75	22.2	0.8	0.9	9.0	8	<0.1	0.3	3.8	18	0.04
147136	Soil	0.8	29.1	20.6	57	<0.1	19.3	7.4	434	3.13	84.7	1.5	5.1	1.5	5	<0.1	0.4	0.8	24	0.02
REP 147136	QC	0.8	30.0	20.7	60	0.1	19.7	7.9	437	3.21	86.7	1.4	3.8	1.8	5	<0.1	0.4	0.7	25	0.02
147160	Soil	0.8	24.7	24.4	55	<0.1	14.9	8.1	417	3.87	17.4	0.9	2.5	2.0	6	<0.1	0.4	0.7	21	0.04
REP 147160	QC	0.9	24.7	24.9	54	<0.1	14.9	8.1	408	3.88	17.7	1.0	7.0	1.8	6	<0.1	0.4	0.8	20	0.03
Reference Materials																				
STD DS8	Standard	13.0	107.7	132.2	312	1.8	37.5	7.4	601	2.44	24.6	2.8	110.1	6.8	68	2.3	5.6	7.0	41	0.66
STD DS8	Standard	11.5	101.6	125.1	299	1.8	36.0	7.0	573	2.34	23.4	2.9	112.5	6.4	69	2.3	5.6	6.9	39	0.64
STD DS8	Standard	12.6	104.7	124.9	309	1.8	36.4	7.2	577	2.38	24.4	2.9	113.4	6.5	70	2.4	5.7	6.9	39	0.65
STD DS8	Standard	12.7	107.5	122.7	302	1.8	36.8	7.5	598	2.39	25.3	2.8	106.0	6.9	66	2.3	5.6	6.3	41	0.67
STD DS8	Standard	12.7	107.5	120.4	302	1.8	36.7	7.6	604	2.42	25.6	2.8	107.7	6.6	65	2.4	5.9	6.7	42	0.66
STD DS8	Standard	12.9	105.1	126.4	314	1.8	36.1	7.4	608	2.43	24.7	2.8	119.0	6.9	67	2.5	5.5	7.2	42	0.70
STD DS8	Standard	11.7	98.9	116.2	283	1.8	33.5	6.7	567	2.21	23.4	2.7	113.7	6.1	66	2.5	5.4	7.0	38	0.63
STD DS8	Standard	13.2	105.9	120.4	304	1.8	37.3	7.6	593	2.37	24.6	2.7	105.9	6.4	73	2.3	5.4	6.4	40	0.69
STD DS8	Standard	13.8	110.6	127.3	321	1.8	40.2	7.9	630	2.47	24.9	2.7	111.6	7.0	77	2.3	5.4	6.8	43	0.75
STD DS8	Standard	13.1	115.0	123.3	309	1.8	36.3	7.5	619	2.49	23.9	3.1	110.4	7.8	74	2.2	5.9	6.8	43	0.71
STD DS8	Standard	13.9	121.6	127.4	310	1.9	39.2	7.5	604	2.40	25.4	3.1	109.2	7.6	74	2.5	6.4	7.5	42	0.70
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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Project: Culvert

Report Date: November 18, 2011

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QUALITY CONTROL REPORT

WHI11001303.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147111	Soil	16	18	0.37	37	0.007	<1	1.47	0.014	0.03	0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
REP 147111	QC	15	18	0.37	37	0.006	1	1.47	0.015	0.03	0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
147132	Soil	27	25	0.55	35	0.005	<1	1.67	0.005	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
REP 147132	QC	27	25	0.54	34	0.003	<1	1.69	0.004	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	0.6	<0.2
147136	Soil	15	23	0.45	22	0.013	2	1.32	0.011	0.03	0.2	0.04	0.8	<0.1	0.18	5	1.0	<0.2
REP 147136	QC	14	23	0.46	23	0.010	<1	1.30	0.010	0.03	0.1	0.04	0.8	<0.1	0.19	5	0.9	<0.2
147160	Soil	19	22	0.36	30	0.009	<1	1.60	0.011	0.03	0.2	0.02	0.5	<0.1	0.06	6	0.7	<0.2
REP 147160	QC	19	23	0.36	31	0.010	<1	1.62	0.011	0.03	0.1	0.02	0.6	<0.1	0.05	6	0.7	<0.2
Reference Materials																		
STD DS8	Standard	15	116	0.57	283	0.109	2	0.93	0.099	0.42	3.1	0.20	2.7	5.8	0.13	5	5.9	5.5
STD DS8	Standard	14	108	0.58	280	0.105	2	0.88	0.104	0.42	2.9	0.19	2.6	5.4	0.11	5	5.5	4.6
STD DS8	Standard	15	113	0.60	280	0.109	3	0.91	0.101	0.40	3.1	0.20	2.2	5.4	0.14	5	5.3	5.0
STD DS8	Standard	15	111	0.60	280	0.118	2	0.92	0.098	0.42	3.0	0.20	2.5	5.3	0.12	5	4.8	4.8
STD DS8	Standard	15	113	0.61	277	0.116	3	0.94	0.109	0.43	3.1	0.20	2.5	5.4	0.15	5	5.3	5.0
STD DS8	Standard	14	114	0.59	272	0.116	3	0.91	0.091	0.41	2.8	0.20	2.1	5.4	0.15	5	4.5	5.4
STD DS8	Standard	14	109	0.56	264	0.108	2	0.85	0.087	0.40	2.7	0.19	1.9	5.1	0.17	4	4.2	4.8
STD DS8	Standard	15	115	0.59	276	0.123	2	0.91	0.107	0.43	3.0	0.19	3.2	5.2	0.14	5	4.8	4.9
STD DS8	Standard	17	118	0.63	304	0.123	2	1.00	0.097	0.46	3.1	0.20	3.0	5.4	0.15	5	4.9	5.0
STD DS8	Standard	17	120	0.60	278	0.130	2	0.91	0.099	0.41	3.0	0.22	2.7	5.3	0.17	5	5.2	4.6
STD DS8	Standard	17	119	0.60	296	0.129	2	0.94	0.104	0.42	3.2	0.21	2.9	5.5	0.17	5	5.4	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: Culvert

Report Date: November 18, 2011

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QUALITY CONTROL REPORT

WHI11001303.1

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



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Project: Culvert

Report Date: November 18, 2011

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11001303.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Mark Fekete

Receiving Lab: Canada-Whitehorse

Received: August 15, 2011

Report Date: November 18, 2011

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CERTIFICATE OF ANALYSIS

WHI11001304.1

CLIENT JOB INFORMATION

Project: Culvert
Shipment ID: CULVERT-4
P.O. Number
Number of Samples: 313

SAMPLE DISPOSAL

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

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

Invoice To: Stakeholder Gold Corp.
203 - 680 Third Ave.
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	313	Dry at 60C sieve 100g to -80 mesh			DAW
Dry at 60C	313	Dry at 60C			DAW
1DX2	313	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: Culvert
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CERTIFICATE OF ANALYSIS

WHI11001304.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
118971	Soil	0.4	17.9	18.4	134	<0.1	39.6	29.3	1641	4.50	208.5	1.3	2.8	19.7	7	0.4	0.3	0.8	15	0.07	0.054
118972	Soil	1.1	36.7	30.2	143	<0.1	45.9	32.8	1036	5.04	149.5	3.3	15.8	13.5	6	0.3	0.8	1.4	19	0.03	0.065
118973	Soil	0.8	34.4	28.6	129	<0.1	40.6	21.6	877	4.75	96.3	2.0	4.9	12.5	6	0.2	0.5	1.3	23	0.05	0.066
118974	Soil	0.8	25.8	21.8	90	<0.1	28.2	13.8	854	4.14	54.8	1.3	17.2	4.4	6	0.2	0.5	0.7	23	0.03	0.087
118975	Soil	0.8	27.3	20.2	79	<0.1	23.8	9.7	607	4.35	132.5	1.4	24.2	5.9	7	0.2	0.5	0.7	27	0.03	0.094
118976	Soil	0.6	21.3	12.5	49	<0.1	13.0	5.8	663	3.44	35.9	0.8	1.9	1.4	7	0.1	0.3	0.4	24	0.02	0.090
118977	Soil	0.7	22.8	16.1	56	<0.1	16.6	8.0	437	2.91	40.3	1.0	2.1	1.9	6	<0.1	0.4	0.5	21	0.03	0.077
118978	Soil	0.3	9.6	6.4	23	<0.1	6.6	3.0	149	0.85	29.7	0.7	4.1	0.3	8	0.1	0.1	0.2	9	0.04	0.056
118979	Soil	0.8	43.1	37.1	97	<0.1	30.0	20.6	1126	4.13	116.8	1.8	3.7	2.9	6	<0.1	0.5	1.0	24	0.04	0.093
118980	Soil	0.8	33.7	42.1	85	<0.1	28.2	16.0	897	3.91	51.5	1.1	4.5	3.3	6	<0.1	0.4	0.7	20	0.04	0.078
118981	Soil	0.5	13.4	9.7	24	<0.1	6.7	6.5	544	1.38	63.3	0.8	2.7	0.3	8	0.1	0.2	0.3	12	0.05	0.067
118982	Soil	0.5	34.7	17.4	76	0.1	23.4	15.9	696	2.79	143.3	1.5	3.0	2.5	8	0.1	0.3	0.7	16	0.08	0.085
118983	Soil	1.1	37.4	24.8	66	0.1	19.6	14.8	813	4.03	96.6	0.9	3.8	8.2	5	0.2	0.5	0.8	25	0.02	0.078
118984	Soil	0.4	59.6	26.4	174	<0.1	57.0	59.7	916	5.12	137.5	1.5	4.2	14.5	8	0.2	0.4	1.5	15	0.10	0.054
118985	Soil	0.9	52.0	35.2	110	0.1	41.8	32.4	698	5.36	80.7	1.4	2.7	14.7	7	<0.1	0.9	0.9	19	0.03	0.088
118986	Soil	0.9	76.2	64.3	168	0.2	68.3	76.8	1570	5.72	322.3	1.5	45.8	14.7	7	0.4	0.7	1.8	26	0.07	0.073
118987	Soil	0.7	31.3	28.7	68	0.1	18.0	8.1	337	4.74	65.3	1.1	15.5	9.2	8	<0.1	0.8	0.7	20	0.01	0.088
118988	Soil	0.6	28.3	27.4	78	<0.1	23.3	12.4	534	5.10	94.1	1.1	1.2	11.7	6	0.1	0.5	0.6	23	0.02	0.080
118989	Soil	0.3	7.8	7.0	14	<0.1	2.8	2.4	106	1.24	18.7	0.3	<0.5	0.7	5	<0.1	0.1	0.2	12	0.02	0.045
118990	Soil	0.4	10.1	9.6	21	<0.1	4.8	3.6	156	1.89	29.9	0.4	<0.5	2.0	6	<0.1	0.2	0.2	13	0.01	0.059
118991	Soil	0.9	19.6	18.7	42	<0.1	14.3	6.4	132	2.55	18.9	1.1	1.1	2.6	7	<0.1	0.4	0.3	12	0.01	0.063
118992	Soil	0.9	30.5	27.2	78	<0.1	29.5	12.7	377	4.14	21.9	1.0	<0.5	9.1	6	<0.1	0.5	0.5	19	0.02	0.085
118993	Soil	0.2	3.7	4.2	8	<0.1	1.7	0.9	40	0.78	2.3	0.2	<0.5	<0.1	3	<0.1	<0.1	0.1	8	0.01	0.022
118994	Soil	0.4	13.7	12.1	21	0.1	5.8	2.1	82	2.04	10.4	0.4	<0.5	0.3	5	<0.1	0.2	0.3	20	<0.01	0.101
118995	Soil	0.7	36.6	28.8	100	0.1	30.6	18.9	558	3.52	189.6	2.1	4.1	3.0	15	0.3	0.4	0.7	16	0.09	0.140
118996	Soil	0.1	1.6	2.0	3	<0.1	0.6	0.5	13	0.21	<0.5	0.2	<0.5	<0.1	5	<0.1	<0.1	<0.1	5	0.02	0.023
118997	Soil	0.5	48.9	16.3	74	<0.1	27.9	14.4	608	4.55	13.4	0.6	3.0	8.6	4	<0.1	0.2	1.3	19	0.02	0.092
118998	Soil	0.9	22.8	26.7	40	0.1	11.9	5.5	209	4.05	22.2	0.7	0.8	4.5	4	<0.1	0.4	0.5	21	<0.01	0.094
118999	Soil	0.6	34.2	30.7	103	<0.1	36.9	19.9	510	4.58	19.5	1.5	1.3	12.6	8	<0.1	0.4	0.6	19	0.09	0.069
119000	Soil	0.6	50.6	38.9	107	<0.1	41.8	35.5	679	4.94	37.9	1.6	3.7	16.7	6	<0.1	0.5	0.6	18	0.04	0.060



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Project: Culvert
Report Date: November 18, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
118971	Soil	35	31	0.84	22	0.002	<1	2.15	0.005	0.03	<0.1	<0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
118972	Soil	35	26	0.60	23	0.007	<1	1.85	0.004	0.02	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
118973	Soil	37	31	0.75	23	0.009	<1	2.13	0.004	0.02	0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
118974	Soil	28	28	0.51	29	0.009	<1	1.71	0.007	0.02	0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
118975	Soil	38	29	0.49	26	0.012	1	1.68	0.007	0.02	0.1	0.04	1.2	<0.1	0.07	6	<0.5	<0.2
118976	Soil	16	23	0.25	32	0.008	<1	1.22	0.013	0.02	<0.1	0.03	0.5	<0.1	0.06	6	0.5	<0.2
118977	Soil	21	22	0.34	32	0.010	<1	1.36	0.008	0.03	0.2	0.02	0.6	<0.1	0.07	5	<0.5	<0.2
118978	Soil	9	8	0.14	24	0.006	<1	0.66	0.020	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
118979	Soil	26	28	0.59	31	0.006	2	1.81	0.006	0.03	0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
118980	Soil	26	28	0.63	25	0.007	1	1.81	0.005	0.02	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
118981	Soil	7	8	0.12	36	0.005	2	0.79	0.016	0.02	<0.1	0.01	<0.1	<0.1	<0.05	3	<0.5	<0.2
118982	Soil	21	19	0.41	27	0.007	1	1.34	0.009	0.03	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
118983	Soil	36	21	0.33	24	0.008	1	1.29	0.005	0.02	0.1	0.03	1.1	<0.1	<0.05	7	0.8	<0.2
118984	Soil	41	33	0.85	18	0.001	<1	2.52	0.004	0.02	<0.1	<0.01	1.7	<0.1	<0.05	7	<0.5	<0.2
118985	Soil	44	27	0.62	25	0.009	<1	1.98	0.003	0.02	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
118986	Soil	48	27	0.78	22	0.002	<1	2.28	0.003	0.02	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
118987	Soil	35	23	0.44	25	0.010	<1	1.59	0.005	0.02	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
118988	Soil	40	27	0.54	26	0.010	<1	1.77	0.006	0.02	0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
118989	Soil	9	5	0.05	18	0.012	<1	0.35	0.015	0.02	<0.1	0.02	0.2	<0.1	<0.05	3	<0.5	<0.2
118990	Soil	11	9	0.08	20	0.010	<1	0.52	0.013	0.02	<0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2
118991	Soil	21	13	0.26	17	0.008	1	0.97	0.011	0.02	<0.1	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
118992	Soil	20	20	0.45	20	0.008	1	1.39	0.008	0.02	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
118993	Soil	3	3	0.04	12	0.009	<1	0.28	0.017	0.01	<0.1	0.02	0.1	<0.1	<0.05	2	<0.5	<0.2
118994	Soil	17	10	0.11	17	0.005	<1	0.52	0.009	0.02	<0.1	0.02	0.2	<0.1	<0.05	4	<0.5	<0.2
118995	Soil	22	22	0.45	29	0.004	<1	1.46	0.006	0.04	<0.1	0.03	0.8	<0.1	<0.05	4	0.5	<0.2
118996	Soil	2	1	0.01	8	0.003	<1	0.12	0.021	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
118997	Soil	23	24	0.56	14	0.004	<1	1.70	0.005	0.02	<0.1	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
118998	Soil	28	17	0.26	17	0.007	1	1.03	0.006	0.02	0.1	0.02	0.7	<0.1	<0.05	6	<0.5	<0.2
118999	Soil	55	29	0.78	31	0.010	<1	2.00	0.003	0.02	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
119000	Soil	45	33	0.84	32	0.005	1	2.38	0.005	0.04	<0.1	<0.01	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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
149001	Soil																							
149002	Soil																							
149003	Soil																							
149004	Soil																							
149005	Soil																							
149006	Soil																							
149007	Soil																							
147163	Soil																							
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147179	Soil																							
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148046	Soil																							
148047	Soil																							
148048	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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
149001	Soil	50	29	0.77	28	0.010	2	2.13	0.004	0.02	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
149002	Soil	26	19	0.36	21	0.006	<1	1.34	0.007	0.02	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5
149003	Soil	35	23	0.57	25	0.006	<1	1.64	0.006	0.02	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5
149004	Soil	11	13	0.21	17	0.009	1	0.84	0.013	0.02	<0.1	0.02	0.4	<0.1	<0.05	4	<0.5
149005	Soil	4	3	0.04	12	0.006	<1	0.43	0.019	0.02	<0.1	0.01	<0.1	<0.1	<0.05	2	<0.5
149006	Soil	26	20	0.38	31	0.010	1	1.38	0.008	0.02	0.1	0.01	0.9	<0.1	<0.05	5	<0.5
149007	Soil	21	15	0.24	29	0.016	<1	0.95	0.011	0.03	0.1	0.01	0.7	<0.1	<0.05	5	<0.5
147163	Soil	39	30	0.78	22	0.009	<1	2.15	0.005	0.02	0.2	<0.01	1.5	<0.1	<0.05	6	<0.5
147164	Soil	17	20	0.51	39	0.004	<1	1.73	0.014	0.03	0.1	0.01	0.9	<0.1	<0.05	5	<0.5
147165	Soil	5	7	0.11	11	0.007	1	0.68	0.019	0.02	0.1	0.01	0.2	<0.1	<0.05	2	<0.5
147166	Soil	28	20	0.37	31	0.009	1	1.35	0.010	0.03	0.3	0.01	0.7	<0.1	<0.05	6	<0.5
147167	Soil	41	37	0.83	15	0.003	1	2.54	0.006	0.02	0.4	0.03	2.2	<0.1	<0.05	7	0.6
147168	Soil	40	23	0.52	25	0.003	1	1.80	0.013	0.04	0.4	0.05	1.4	<0.1	0.06	5	<0.5
147169	Soil	38	34	0.66	25	0.003	1	1.95	0.006	0.04	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5
147170	Soil	29	28	0.53	30	0.003	<1	1.67	0.009	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5
147171	Soil	41	34	0.63	33	0.011	2	2.01	0.013	0.07	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5
147172	Soil	36	32	0.68	26	0.003	<1	2.04	0.009	0.04	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5
147173	Soil	13	11	0.19	17	0.016	<1	0.82	0.024	0.03	<0.1	0.01	0.5	<0.1	<0.05	4	<0.5
147174	Soil	33	35	0.87	38	0.014	5	2.40	0.016	0.16	<0.1	0.01	3.3	0.1	<0.05	7	<0.5
147175	Soil	35	33	0.76	28	0.003	<1	2.19	0.006	0.04	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5
147176	Soil	32	29	0.69	27	0.007	<1	1.94	0.007	0.05	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
147177	Soil	1	3	0.02	11	0.016	<1	0.33	0.028	0.02	<0.1	0.02	0.3	<0.1	<0.05	1	<0.5
147178	Soil	34	29	0.60	26	0.002	<1	1.92	0.008	0.04	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5
147179	Soil	26	22	0.41	27	0.005	2	1.43	0.014	0.03	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5
148043	Soil	47	32	0.87	40	0.009	<1	2.23	0.006	0.04	0.1	0.03	1.8	<0.1	<0.05	7	<0.5
148044	Soil	23	26	0.45	45	0.010	<1	1.67	0.008	0.05	0.2	0.09	1.1	<0.1	0.05	7	<0.5
148045	Soil	33	29	0.63	22	0.011	<1	1.85	0.005	0.03	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5
148046	Soil	27	27	0.50	31	0.018	<1	1.76	0.005	0.03	0.1	0.03	0.7	<0.1	<0.05	6	<0.5
148047	Soil	24	30	0.55	39	0.010	<1	1.86	0.006	0.04	<0.1	0.02	0.8	<0.1	<0.05	6	<0.5
148048	Soil	31	30	0.51	28	0.012	<1	1.82	0.009	0.04	0.2	0.04	1.2	<0.1	<0.05	6	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
148049	Soil																							
148050	Soil																							
148051	Soil																							
148052	Soil																							
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149020	Soil																							
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149023	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148049	Soil	16	14	0.32	30	0.014	<1	1.15	0.022	0.03	<0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
148050	Soil	28	25	0.35	59	0.008	<1	1.50	0.008	0.03	<0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
148051	Soil	35	21	0.25	33	0.005	<1	1.23	0.005	0.03	<0.1	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
148052	Soil	33	29	0.45	30	0.008	<1	1.88	0.004	0.03	0.2	0.06	1.3	<0.1	<0.05	7	0.5	<0.2
148053	Soil	36	26	0.53	25	0.008	<1	1.80	0.005	0.03	<0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
148054	Soil	45	31	0.63	26	0.008	<1	2.02	0.004	0.04	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
148055	Soil	43	32	0.62	33	0.009	<1	2.13	0.006	0.04	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
148056	Soil	43	35	0.62	29	0.011	<1	2.26	0.004	0.03	<0.1	0.05	1.4	<0.1	<0.05	7	0.6	<0.2
148057	Soil	17	22	0.30	20	0.008	<1	1.23	0.008	0.03	<0.1	0.07	0.9	<0.1	<0.05	6	0.6	<0.2
148058	Soil	17	16	0.14	21	0.009	<1	0.65	0.005	0.03	0.1	0.03	0.4	<0.1	<0.05	7	<0.5	<0.2
148059	Soil	34	29	0.62	27	0.004	<1	1.82	0.005	0.03	<0.1	0.06	1.3	<0.1	<0.05	5	<0.5	<0.2
148060	Soil	20	25	0.54	32	0.007	<1	1.75	0.010	0.03	<0.1	0.02	1.1	<0.1	<0.05	7	<0.5	<0.2
148061	Soil	22	24	0.44	38	0.010	<1	1.50	0.008	0.03	<0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
148062	Soil	32	16	0.20	39	0.006	<1	0.97	0.005	0.04	0.1	0.05	0.6	<0.1	<0.05	5	<0.5	<0.2
149008	Soil	34	27	0.47	19	0.008	<1	1.61	0.005	0.02	0.1	0.05	1.1	<0.1	<0.05	8	<0.5	<0.2
149009	Soil	49	33	0.82	19	0.011	<1	2.13	0.004	0.03	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
149010	Soil	44	32	0.70	20	0.013	<1	2.00	0.005	0.03	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
149011	Soil	36	25	0.48	22	0.007	<1	1.49	0.006	0.03	0.2	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
149012	Soil	3	2	0.04	22	0.005	<1	0.45	0.031	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
149013	Soil	37	34	0.79	31	0.006	<1	2.35	0.006	0.04	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
149014	Soil	35	31	0.71	24	0.007	<1	2.08	0.007	0.03	<0.1	0.04	1.6	<0.1	<0.05	6	0.9	<0.2
149015	Soil	42	24	0.41	20	0.003	<1	1.52	0.006	0.02	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
149016	Soil	48	26	0.43	18	0.002	<1	1.55	0.006	0.04	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
149017	Soil	1	1	0.02	12	0.013	<1	0.33	0.032	0.02	<0.1	<0.01	0.2	<0.1	<0.05	1	<0.5	<0.2
149018	Soil	16	14	0.28	19	0.008	<1	0.87	0.017	0.03	<0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
149019	Soil	3	3	0.05	14	0.014	<1	0.49	0.036	0.02	<0.1	0.01	0.4	<0.1	<0.05	2	0.5	<0.2
149020	Soil	35	27	0.49	37	0.004	<1	1.90	0.006	0.03	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
149021	Soil	21	11	0.17	34	0.007	<1	0.91	0.013	0.03	<0.1	0.01	0.5	<0.1	<0.05	5	<0.5	<0.2
149022	Soil	32	9	0.11	26	0.007	<1	0.59	0.006	0.02	0.1	0.01	0.3	<0.1	<0.05	5	<0.5	<0.2
149023	Soil	21	9	0.12	33	0.005	<1	0.72	0.011	0.03	0.1	0.01	0.5	<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 ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
149024	Soil	0.9	45.1	67.9	78	0.2	23.0	14.5	459	6.00	39.1	1.1	<0.5	18.3	6	<0.1	0.8	0.8	17	0.02	0.131
149025	Soil	0.7	40.6	47.1	92	0.1	27.9	26.4	762	3.83	35.8	1.5	1.5	8.1	7	0.1	0.3	0.9	15	0.06	0.070
149026	Soil	0.5	20.9	19.8	54	<0.1	16.2	10.8	333	2.60	11.6	0.8	1.2	1.8	5	<0.1	0.3	0.4	16	0.04	0.068
149027	Soil	0.3	14.2	13.2	35	<0.1	10.1	5.8	235	1.85	7.6	0.6	1.0	1.0	6	<0.1	0.2	0.3	14	0.04	0.055
149028	Soil	0.5	27.2	30.0	53	<0.1	14.5	6.2	324	2.41	48.1	0.9	<0.5	1.6	5	<0.1	0.3	0.5	14	0.02	0.062
149029	Soil	1.0	37.0	61.5	82	<0.1	23.5	15.4	692	3.55	26.2	1.5	1.0	3.9	6	<0.1	0.4	0.8	19	0.02	0.081
149030	Soil	1.3	64.9	108.4	145	0.2	50.4	56.4	1360	5.07	55.5	2.4	1.2	7.6	7	0.1	0.6	1.6	20	0.02	0.095
149031	Soil	1.2	80.1	93.1	140	0.2	45.0	43.0	939	5.34	65.7	3.3	2.8	12.8	7	<0.1	0.6	1.4	20	0.02	0.103
149032	Soil	1.3	114.0	172.8	157	0.5	46.6	39.3	588	5.86	265.4	5.0	<0.5	16.7	7	0.3	0.7	3.9	16	0.03	0.112
149033	Soil	1.5	169.8	154.4	193	0.4	70.1	77.6	939	6.79	165.9	7.3	0.6	24.0	11	0.2	0.8	4.1	17	0.03	0.131
149034	Soil	1.2	131.9	117.7	141	0.5	50.8	66.3	860	6.90	75.2	4.7	0.9	24.9	10	<0.1	1.0	2.9	15	0.02	0.133
149035	Soil	0.2	1.9	2.2	6	<0.1	1.5	0.7	19	0.32	0.8	<0.1	<0.5	<0.1	5	<0.1	<0.1	<0.1	8	0.02	0.025
149036	Soil	0.5	10.5	13.1	30	<0.1	8.0	3.7	157	2.11	6.8	0.4	<0.5	1.4	7	<0.1	0.3	0.2	14	0.02	0.060
149037	Soil	0.5	24.4	27.2	83	0.2	27.0	11.5	288	5.18	11.8	1.1	0.7	13.5	7	<0.1	0.5	0.5	20	0.01	0.051
149038	Soil	0.6	20.5	28.0	37	0.3	9.9	3.6	129	2.84	19.4	0.9	0.6	5.7	7	<0.1	0.6	0.3	12	0.02	0.066
149039	Soil	0.5	30.4	30.6	71	<0.1	21.5	9.3	261	3.90	10.6	1.3	<0.5	8.9	11	<0.1	0.4	0.5	15	0.02	0.076
149040	Soil	0.2	10.5	6.0	15	0.1	3.8	2.3	81	0.97	2.4	0.6	<0.5	1.5	7	<0.1	<0.1	<0.1	11	0.07	0.048
149041	Soil	0.6	35.2	36.6	92	0.1	27.3	15.5	366	4.84	13.1	1.7	1.2	13.5	14	<0.1	0.5	0.6	18	0.03	0.075
148063	Soil	0.7	9.9	19.5	59	<0.1	10.2	8.4	856	4.54	12.2	0.5	1.9	5.3	6	<0.1	0.3	0.5	25	0.01	0.164
148064	Soil	0.7	15.2	26.5	73	0.2	18.7	9.9	483	4.61	18.5	0.7	<0.5	11.1	7	<0.1	0.4	0.5	22	0.03	0.128
148065	Soil	0.5	16.1	33.7	115	<0.1	13.9	10.4	575	5.08	15.8	0.7	<0.5	12.5	3	0.1	0.3	0.6	20	0.02	0.092
148066	Soil	0.7	16.7	33.4	80	<0.1	14.0	7.5	457	5.29	15.9	0.6	<0.5	11.8	6	<0.1	0.4	0.7	21	0.02	0.115
148067	Soil	0.6	29.8	30.3	104	0.1	29.7	15.1	528	4.95	40.3	1.1	3.8	14.0	6	<0.1	0.4	0.5	17	0.02	0.064
148068	Soil	0.5	14.4	19.9	64	<0.1	13.7	6.1	302	3.74	18.6	0.6	3.1	5.6	7	<0.1	0.3	0.4	18	0.04	0.152
148069	Soil	0.7	26.6	34.3	99	<0.1	32.3	19.1	989	4.84	56.6	1.0	<0.5	14.5	9	<0.1	0.2	0.7	16	0.13	0.038
148070	Soil	1.3	50.9	54.0	129	0.2	54.9	40.9	781	4.81	30.5	1.4	<0.5	15.9	9	0.2	0.5	0.8	18	0.05	0.073
148071	Soil	0.6	17.2	28.9	49	0.4	12.7	7.2	288	3.82	25.2	0.8	4.8	7.8	9	<0.1	0.3	0.5	26	0.04	0.114
148072	Soil	2.2	101.0	162.4	112	0.1	34.0	21.3	979	5.41	362.6	6.3	2.6	15.9	10	<0.1	0.7	1.9	22	0.02	0.071
148073	Soil	1.0	39.8	40.8	109	<0.1	38.7	19.4	717	6.35	153.8	1.2	9.2	12.9	5	<0.1	0.6	1.0	30	0.03	0.053
148074	Soil	0.7	100.7	45.5	147	<0.1	58.3	59.4	1639	5.60	92.3	1.9	4.3	18.4	6	<0.1	0.4	0.9	26	0.03	0.039



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
149024	Soil	33	33	0.68	31	0.004	<1	2.08	0.008	0.04	<0.1	0.05	1.5	<0.1	<0.05	5	<0.5	<0.2
149025	Soil	29	25	0.64	30	0.004	<1	1.88	0.012	0.04	<0.1	<0.01	1.1	<0.1	<0.05	5	0.6	<0.2
149026	Soil	17	16	0.38	19	0.009	<1	1.25	0.015	0.03	0.1	0.03	0.7	<0.1	<0.05	4	0.6	<0.2
149027	Soil	14	12	0.27	26	0.009	<1	1.01	0.019	0.03	0.1	<0.01	0.5	<0.1	<0.05	3	0.6	<0.2
149028	Soil	15	14	0.32	19	0.008	<1	1.27	0.018	0.03	0.2	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
149029	Soil	19	21	0.50	19	0.007	<1	1.62	0.011	0.03	0.3	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
149030	Soil	28	28	0.63	27	0.007	<1	1.90	0.007	0.03	0.3	0.02	1.2	<0.1	<0.05	6	0.7	<0.2
149031	Soil	26	28	0.64	24	0.007	<1	1.99	0.008	0.03	0.6	0.01	1.6	<0.1	<0.05	6	1.0	<0.2
149032	Soil	30	24	0.56	30	0.006	<1	1.82	0.011	0.04	3.7	0.03	1.5	<0.1	<0.05	5	0.8	<0.2
149033	Soil	39	28	0.65	29	0.006	<1	2.16	0.011	0.04	2.2	0.02	2.2	<0.1	<0.05	6	0.8	0.2
149034	Soil	45	29	0.66	29	0.002	<1	2.04	0.011	0.04	0.3	0.02	2.1	<0.1	<0.05	6	0.7	<0.2
149035	Soil	2	2	0.02	8	0.006	<1	0.11	0.028	0.02	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5	<0.2
149036	Soil	14	11	0.14	16	0.011	<1	0.67	0.015	0.02	<0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
149037	Soil	39	37	0.73	28	0.004	<1	2.27	0.006	0.03	<0.1	0.05	1.8	<0.1	<0.05	6	0.7	<0.2
149038	Soil	13	15	0.25	18	0.009	<1	1.09	0.018	0.04	<0.1	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
149039	Soil	26	26	0.53	25	0.004	<1	1.71	0.014	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
149040	Soil	5	6	0.10	14	0.018	<1	0.84	0.029	0.03	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
149041	Soil	30	32	0.65	33	0.004	<1	2.07	0.016	0.06	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
148063	Soil	31	19	0.27	39	0.008	<1	1.08	0.005	0.04	<0.1	0.04	0.7	<0.1	<0.05	7	<0.5	<0.2
148064	Soil	35	26	0.48	39	0.007	<1	1.65	0.005	0.04	<0.1	0.05	1.2	<0.1	<0.05	6	0.7	<0.2
148065	Soil	35	25	0.52	27	0.005	<1	1.78	0.005	0.05	<0.1	0.02	1.3	<0.1	<0.05	7	1.1	<0.2
148066	Soil	35	27	0.57	36	0.008	<1	1.86	0.005	0.04	<0.1	0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
148067	Soil	43	32	0.80	26	0.005	<1	2.35	0.007	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	0.8	<0.2
148068	Soil	27	19	0.41	24	0.009	<1	1.19	0.012	0.04	<0.1	<0.01	0.9	<0.1	<0.05	5	0.5	<0.2
148069	Soil	47	33	0.88	27	0.003	<1	2.37	0.010	0.07	<0.1	<0.01	2.1	<0.1	<0.05	7	0.6	<0.2
148070	Soil	34	35	0.73	27	0.008	1	2.50	0.008	0.04	<0.1	0.03	2.1	<0.1	<0.05	6	1.1	<0.2
148071	Soil	29	19	0.26	31	0.007	<1	1.39	0.011	0.04	0.1	0.03	1.1	<0.1	0.06	6	0.7	<0.2
148072	Soil	34	31	0.74	25	0.006	<1	2.24	0.009	0.04	0.1	0.04	2.0	<0.1	0.06	6	1.0	<0.2
148073	Soil	37	38	0.80	22	0.011	<1	2.57	0.006	0.03	0.1	0.03	1.8	<0.1	<0.05	8	0.5	<0.2
148074	Soil	44	37	0.99	35	0.007	<1	3.00	0.019	0.05	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
148075	Soil																							
148076	Soil																							
148077	Soil																							
148078	Soil																							
148079	Soil																							
148080	Soil																							
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148101	Soil																							
148102	Soil																							
148103	Soil																							
148104	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148075	Soil	36	29	0.55	29	0.014	1	2.08	0.012	0.04	0.1	0.03	1.4	<0.1	<0.05	8	0.5	<0.2
148076	Soil	45	30	0.62	33	0.008	<1	2.07	0.009	0.07	0.1	0.02	1.6	<0.1	<0.05	9	<0.5	<0.2
148077	Soil	53	34	0.85	31	0.010	<1	2.32	0.007	0.05	<0.1	<0.01	1.7	<0.1	<0.05	8	1.1	<0.2
148078	Soil	7	5	0.11	17	0.014	<1	0.75	0.038	0.03	<0.1	<0.01	0.4	<0.1	<0.05	2	0.6	<0.2
148079	Soil	42	31	0.75	25	0.006	<1	2.24	0.006	0.03	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
148080	Soil	84	35	0.77	28	0.004	<1	2.31	0.005	0.03	0.2	0.04	2.0	<0.1	0.05	8	1.1	<0.2
148081	Soil	45	34	0.76	29	0.010	<1	2.52	0.006	0.04	0.3	0.03	1.7	<0.1	<0.05	7	0.9	<0.2
148082	Soil	58	31	0.76	25	0.013	<1	2.34	0.010	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
148083	Soil	46	20	0.44	32	0.004	<1	1.57	0.015	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	0.5	<0.2
148084	Soil	68	31	0.69	23	0.004	<1	2.17	0.006	0.04	<0.1	0.02	1.7	<0.1	0.05	6	0.9	<0.2
148085	Soil	45	26	0.54	30	0.011	<1	1.73	0.009	0.04	<0.1	0.04	1.6	<0.1	0.05	6	1.0	<0.2
148086	Soil	23	10	0.20	27	0.008	<1	1.02	0.027	0.03	<0.1	0.02	0.4	<0.1	0.06	3	<0.5	<0.2
148087	Soil	41	32	0.70	30	0.009	<1	2.38	0.006	0.04	<0.1	0.04	1.6	<0.1	0.05	7	0.6	<0.2
148088	Soil	34	30	0.54	24	0.004	<1	1.66	0.006	0.04	<0.1	0.04	1.2	<0.1	0.07	6	0.9	<0.2
148089	Soil	17	8	0.14	22	0.010	<1	0.59	0.024	0.02	<0.1	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
148090	Soil	20	11	0.22	27	0.011	<1	0.85	0.021	0.04	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
148091	Soil	27	11	0.18	35	0.013	<1	0.83	0.016	0.03	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
148092	Soil	17	10	0.15	40	0.014	<1	1.12	0.020	0.03	<0.1	0.03	0.8	<0.1	0.06	5	<0.5	<0.2
148093	Soil	18	8	0.13	25	0.011	<1	0.60	0.022	0.03	<0.1	0.02	0.4	<0.1	0.05	5	<0.5	<0.2
148094	Soil	29	11	0.11	30	0.012	<1	0.83	0.013	0.03	<0.1	0.01	0.6	<0.1	<0.05	6	0.5	<0.2
148095	Soil	41	24	0.40	71	0.008	<1	1.55	0.008	0.05	0.1	0.01	1.3	<0.1	<0.05	9	<0.5	<0.2
148096	Soil	53	31	0.80	41	0.009	<1	2.30	0.012	0.09	<0.1	<0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
148097	Soil	6	6	0.12	31	0.005	<1	0.95	0.040	0.03	<0.1	0.05	0.5	<0.1	<0.05	3	<0.5	<0.2
148098	Soil	12	9	0.07	28	0.008	<1	0.93	0.037	0.03	<0.1	0.02	0.4	<0.1	<0.05	4	0.5	<0.2
148099	Soil	21	16	0.25	24	0.007	<1	1.32	0.021	0.03	0.2	0.03	0.5	<0.1	0.06	6	<0.5	<0.2
148100	Soil	25	25	0.45	41	0.021	<1	1.65	0.019	0.06	0.1	0.02	0.9	<0.1	0.05	5	0.8	<0.2
148101	Soil	44	27	0.59	29	0.006	<1	1.95	0.009	0.04	<0.1	0.02	1.2	<0.1	<0.05	7	0.6	<0.2
148102	Soil	34	28	0.53	23	0.007	<1	1.91	0.011	0.03	<0.1	0.02	0.8	<0.1	0.06	8	<0.5	<0.2
148103	Soil	37	26	0.60	24	0.006	<1	1.85	0.009	0.04	0.1	0.02	1.4	<0.1	<0.05	8	<0.5	<0.2
148104	Soil	3	3	0.04	12	0.015	<1	0.62	0.040	0.02	<0.1	0.03	0.7	<0.1	<0.05	2	<0.5	<0.2



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Project: Culvert
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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	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
148105	Soil	1.1	60.1	51.1	74	0.3	14.1	6.8	297	5.84	26.1	1.5	2.3	12.3	7	<0.1	1.0	1.6	22	0.02	0.121
148106	Soil	0.1	2.8	3.2	6	<0.1	1.5	0.9	25	0.43	1.8	0.2	3.5	<0.1	5	<0.1	<0.1	<0.1	7	0.03	0.022
148107	Soil	1.0	34.4	29.6	93	<0.1	44.3	29.3	537	4.54	20.8	1.1	1.1	9.3	8	<0.1	0.5	0.4	25	0.06	0.062
148108	Soil	0.5	8.6	10.3	20	<0.1	5.9	3.0	133	1.32	6.3	0.4	<0.5	0.3	5	<0.1	0.2	0.2	10	0.03	0.057
148109	Soil	0.5	18.8	21.9	78	<0.1	48.4	18.8	708	3.64	23.9	0.9	1.9	1.7	7	<0.1	0.4	0.3	14	0.06	0.055
148110	Soil	0.7	40.2	30.1	96	0.2	36.9	19.8	420	5.12	23.9	1.1	0.7	12.9	10	<0.1	0.7	0.5	20	0.03	0.066
148111	Soil	0.6	18.5	17.3	40	0.1	11.1	5.7	270	3.02	9.7	0.7	<0.5	1.4	6	<0.1	0.3	0.4	15	0.02	0.084
148112	Soil	0.9	70.5	43.9	142	<0.1	52.9	60.2	556	5.72	22.3	1.4	1.1	10.7	22	<0.1	1.4	0.6	18	0.02	0.096
148113	Soil	0.9	45.0	46.1	95	0.1	30.7	18.5	414	4.98	16.1	1.6	<0.5	11.2	14	<0.1	0.9	0.6	18	0.01	0.083
148114	Soil	0.9	41.8	50.4	91	0.1	30.5	17.5	407	4.95	15.5	1.7	<0.5	13.8	14	<0.1	0.7	0.7	20	0.01	0.088
148115	Soil	1.1	83.1	122.4	115	0.4	31.8	14.6	293	6.69	46.5	3.3	5.8	32.0	19	<0.1	1.8	2.1	15	<0.01	0.120
148116	Soil	1.2	64.8	96.5	96	0.3	22.5	10.1	324	6.84	77.4	3.8	3.8	26.4	16	<0.1	1.6	1.4	20	<0.01	0.134
148117	Soil	0.9	41.7	65.1	76	0.4	19.5	8.6	247	5.38	48.6	1.9	3.4	16.8	12	<0.1	1.2	1.0	16	<0.01	0.103
148118	Soil	0.8	45.1	36.6	95	0.1	27.3	11.6	463	4.97	12.8	1.8	4.3	12.6	11	<0.1	0.7	0.7	17	0.03	0.086
148119	Soil	0.2	4.6	3.1	5	0.2	1.1	0.7	26	0.55	1.1	0.3	1.0	0.4	5	<0.1	<0.1	<0.1	6	0.02	0.021
148120	Soil	0.7	36.7	37.8	61	0.4	16.7	6.6	238	4.64	25.6	1.9	0.7	7.3	11	<0.1	0.8	0.8	15	0.04	0.147
148121	Soil	0.6	31.8	37.6	122	<0.1	68.1	41.0	611	4.60	21.5	1.5	0.9	10.2	17	<0.1	0.4	0.6	23	0.24	0.068
148122	Soil	1.1	53.5	124.1	143	0.2	42.8	33.7	1875	4.81	207.6	1.4	2.3	22.0	7	0.4	0.2	2.2	15	0.13	0.056
148123	Soil	1.7	116.2	61.0	147	0.2	46.2	59.9	2184	4.83	67.3	2.9	2.6	17.4	6	0.3	0.5	1.7	18	0.04	0.062
148124	Soil	1.3	139.7	112.5	186	0.5	43.7	65.7	1648	4.00	56.9	2.9	4.0	23.9	10	0.2	0.5	2.4	16	0.09	0.049
148125	Soil	0.6	57.4	43.3	73	0.2	25.4	30.0	1132	2.86	17.0	1.6	1.4	11.7	6	<0.1	0.3	1.2	16	0.04	0.055
148126	Soil	1.5	68.1	87.4	128	0.3	35.8	54.7	1814	4.44	31.0	1.9	10.4	15.9	7	0.2	0.6	1.7	16	0.05	0.079
148127	Soil	0.5	45.4	31.0	101	0.1	33.9	21.0	1109	4.30	13.5	0.8	6.5	15.8	5	<0.1	0.3	1.0	23	0.04	0.098
148128	Soil	0.5	52.2	50.9	99	<0.1	36.7	22.6	888	4.18	4.1	0.8	1.3	19.9	7	0.1	0.2	0.9	16	0.08	0.051
148129	Soil	1.1	47.1	37.4	109	0.3	36.2	24.0	659	4.89	28.0	1.5	2.0	13.5	9	0.2	0.6	0.9	24	0.04	0.062
148130	Soil	1.3	75.4	48.3	132	0.2	46.8	24.9	819	5.93	45.5	2.3	77.0	13.6	8	<0.1	0.9	1.4	21	0.02	0.103
148131	Soil	0.9	29.8	25.1	66	0.3	19.2	8.4	430	4.64	21.2	1.0	144.3	5.2	6	<0.1	0.5	0.7	21	0.01	0.107
148132	Soil	0.6	15.2	21.0	41	<0.1	11.8	4.8	243	1.90	10.9	0.7	1.7	2.1	6	<0.1	0.3	0.4	12	0.03	0.044
148133	Soil	0.4	12.1	9.0	25	0.1	6.9	2.8	127	1.16	8.7	0.5	0.7	0.4	5	<0.1	0.2	0.4	8	0.02	0.045
148134	Soil	1.2	38.4	35.1	96	0.3	28.5	13.4	538	6.21	39.7	1.5	3.5	11.9	7	0.1	0.7	1.1	26	0.02	0.095



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148105	Soil	22	23	0.43	29	0.006	<1	1.52	0.013	0.05	0.2	0.03	1.3	<0.1	<0.05	6	0.7	<0.2
148106	Soil	2	3	0.04	8	0.006	<1	0.18	0.027	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
148107	Soil	29	42	0.85	25	0.006	2	2.05	0.009	0.04	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
148108	Soil	8	9	0.09	14	0.004	<1	0.42	0.019	0.03	<0.1	0.03	0.4	<0.1	<0.05	2	<0.5	<0.2
148109	Soil	16	19	0.36	19	0.008	<1	1.15	0.018	0.03	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
148110	Soil	37	40	0.81	25	0.003	<1	2.27	0.009	0.06	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
148111	Soil	16	19	0.31	20	0.008	<1	1.16	0.015	0.03	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
148112	Soil	37	33	0.70	27	0.007	3	1.92	0.007	0.05	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
148113	Soil	32	32	0.61	27	0.004	5	1.92	0.011	0.04	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
148114	Soil	36	34	0.61	36	0.006	1	2.06	0.018	0.08	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
148115	Soil	27	32	0.60	29	0.006	<1	1.91	0.007	0.05	<0.1	<0.01	2.5	<0.1	0.05	6	0.7	<0.2
148116	Soil	30	37	0.73	29	0.007	2	2.21	0.007	0.06	<0.1	0.01	3.4	<0.1	<0.05	7	0.5	<0.2
148117	Soil	30	28	0.56	25	0.003	<1	1.87	0.007	0.03	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
148118	Soil	25	38	0.74	26	0.007	<1	2.18	0.008	0.04	0.2	<0.01	1.6	0.1	<0.05	6	0.6	<0.2
148119	Soil	1	4	0.02	10	0.014	<1	0.35	0.022	0.02	<0.1	0.01	0.2	<0.1	<0.05	1	<0.5	<0.2
148120	Soil	19	26	0.31	19	0.010	<1	1.25	0.008	0.04	0.1	0.10	0.9	<0.1	0.06	5	<0.5	<0.2
148121	Soil	26	37	0.79	22	0.003	<1	2.04	0.007	0.03	<0.1	<0.01	2.3	<0.1	<0.05	6	1.1	<0.2
148122	Soil	30	35	0.97	32	0.001	<1	2.27	0.005	0.03	<0.1	<0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
148123	Soil	32	33	0.81	36	0.004	<1	2.07	0.007	0.03	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
148124	Soil	30	27	0.73	59	0.005	<1	1.91	0.013	0.03	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
148125	Soil	24	19	0.48	28	0.010	<1	1.39	0.015	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
148126	Soil	27	30	0.71	23	0.003	<1	2.13	0.005	0.02	<0.1	0.06	1.4	<0.1	<0.05	6	<0.5	<0.2
148127	Soil	31	30	0.70	33	0.011	<1	1.97	0.006	0.04	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
148128	Soil	59	32	0.82	39	0.008	<1	2.16	0.005	0.02	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
148129	Soil	32	33	0.63	33	0.012	<1	2.14	0.006	0.03	0.2	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
148130	Soil	30	31	0.60	19	0.012	<1	2.11	0.005	0.02	0.3	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
148131	Soil	27	21	0.34	20	0.013	<1	1.40	0.011	0.02	0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
148132	Soil	14	14	0.31	17	0.012	<1	0.93	0.017	0.03	0.1	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
148133	Soil	7	7	0.13	24	0.008	<1	0.71	0.023	0.02	<0.1	<0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
148134	Soil	30	31	0.52	27	0.014	<1	1.88	0.011	0.03	0.4	0.02	1.4	<0.1	<0.05	7	0.7	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
148135	Soil	1.1	47.8	33.7	148	0.6	45.6	33.4	813	5.15	41.2	1.7	3.9	16.1	7	0.3	0.6	0.9	22	0.03
148136	Soil	0.9	48.9	39.6	132	0.2	40.0	24.6	747	4.16	29.9	2.8	3.0	9.7	9	0.2	0.4	1.0	14	0.04
148137	Soil	1.1	54.1	45.0	165	0.1	59.4	56.7	1561	5.18	32.6	3.3	8.0	14.4	10	0.3	0.4	1.1	15	0.09
148138	Soil	0.6	35.4	40.1	79	0.1	23.5	9.8	297	4.75	12.4	1.7	1.4	13.0	11	<0.1	0.5	0.8	14	0.01
148139	Soil	0.8	37.9	51.5	84	0.1	25.1	12.2	367	4.93	11.8	1.8	0.9	14.1	13	<0.1	0.5	0.8	18	0.03
148140	Soil	0.6	40.9	49.7	89	0.1	29.3	14.5	399	5.21	12.8	1.8	0.7	14.5	12	<0.1	0.6	0.8	17	0.03
148141	Soil	0.8	37.1	53.5	82	0.2	25.9	13.2	389	5.11	12.7	1.7	0.6	14.1	14	<0.1	0.6	0.8	18	0.03
147180	Soil	0.7	61.1	164.4	119	0.2	39.5	46.7	2145	4.93	22.7	1.6	1.1	17.4	7	0.1	0.2	0.8	19	0.02
147181	Soil	2.2	56.4	65.3	134	0.2	32.7	31.5	1456	5.00	40.1	1.5	3.3	15.3	4	0.4	0.4	2.1	20	0.03
147182	Soil	0.8	74.5	55.0	167	0.3	42.7	44.4	1629	4.82	39.7	1.6	2.7	19.8	4	0.3	0.4	1.9	20	0.04
147183	Soil	0.6	69.9	38.3	143	0.5	35.1	29.6	1588	5.02	40.1	1.6	2.3	15.5	4	0.2	0.4	1.7	21	0.02
147184	Soil	1.8	120.8	48.3	192	0.5	49.2	63.2	1967	5.23	71.4	3.1	3.5	22.2	5	0.4	0.5	2.7	18	0.04
147185	Soil	0.7	40.9	32.2	78	0.1	24.5	16.9	919	3.71	17.4	1.1	1.2	4.1	6	0.1	0.4	1.0	19	0.04
147186	Soil	0.3	32.9	20.1	85	<0.1	29.3	15.8	696	3.17	6.7	1.2	1.2	10.3	5	0.1	0.1	0.5	16	0.05
147187	Soil	0.4	11.8	14.4	21	<0.1	6.3	3.7	157	1.00	5.9	0.4	2.8	0.5	6	<0.1	0.1	0.2	7	0.04
147188	Soil	1.1	53.7	45.0	94	0.2	30.1	26.9	599	3.67	30.7	1.8	6.4	8.5	10	0.1	0.9	1.1	15	0.05
147189	Soil	1.1	83.5	88.0	130	0.2	49.9	67.1	1174	5.09	37.4	2.3	4.7	16.9	12	<0.1	0.9	1.5	17	0.07
147190	Soil	0.7	51.7	39.7	110	0.1	37.7	28.7	953	4.54	24.5	1.6	14.7	11.9	8	<0.1	0.5	1.1	17	0.08
147191	Soil	0.5	14.2	14.1	23	<0.1	7.3	4.0	221	1.33	9.2	0.5	2.2	0.5	6	<0.1	0.1	0.3	10	0.04
147192	Soil	0.9	56.9	34.4	99	0.2	29.8	23.3	661	3.65	48.8	1.7	4.8	9.9	8	0.1	0.5	1.3	16	0.05
147193	Soil	0.6	13.5	15.8	32	0.1	8.7	3.6	259	2.43	11.4	0.5	2.4	1.5	5	<0.1	0.3	0.5	19	0.02
147194	Soil	1.2	115.4	103.9	182	0.2	55.4	50.0	963	6.73	92.1	4.6	9.0	21.7	9	0.2	0.7	2.0	22	0.04
147195	Soil	0.8	52.9	31.4	124	<0.1	44.1	32.0	1014	4.81	18.8	1.7	5.7	14.9	8	0.1	0.3	0.9	22	0.08
147196	Soil	0.5	54.5	29.4	130	0.1	42.8	27.8	1039	4.55	15.1	1.6	1.6	15.4	8	0.2	0.2	0.9	20	0.11
147197	Soil	0.5	16.7	22.5	32	0.2	9.3	3.9	253	2.76	11.8	0.5	<0.5	3.7	6	<0.1	0.4	0.4	12	0.02
147198	Soil	0.5	37.2	35.0	60	0.3	22.8	23.1	426	2.74	15.6	1.3	2.7	7.6	10	<0.1	0.7	0.4	12	0.06
147199	Soil	0.9	37.9	53.1	78	0.1	25.9	12.6	644	4.88	14.5	1.5	3.9	11.8	14	<0.1	0.6	0.8	21	0.02
130267	Soil	0.9	78.3	88.2	121	0.3	32.3	27.5	1742	3.81	62.6	1.9	23.1	13.2	7	0.2	0.4	1.7	17	0.04
130268	Soil	0.9	48.9	52.8	153	0.1	36.3	33.9	2013	5.11	49.5	1.8	5.9	13.6	4	0.3	0.4	2.1	19	0.02
130269	Soil	0.9	47.4	67.7	96	0.2	26.3	24.4	1771	4.36	37.4	1.4	1.5	7.2	4	0.2	0.3	1.6	21	0.03



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148135	Soil	33	38	0.69	42	0.010	<1	2.73	0.008	0.05	0.2	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
148136	Soil	30	27	0.59	32	0.002	<1	1.98	0.008	0.03	0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
148137	Soil	47	34	0.85	29	0.002	<1	2.40	0.004	0.03	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
148138	Soil	27	32	0.62	29	0.004	<1	1.92	0.009	0.05	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
148139	Soil	32	35	0.66	31	0.004	<1	2.22	0.008	0.04	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
148140	Soil	34	37	0.71	29	0.004	<1	2.24	0.009	0.04	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
148141	Soil	34	36	0.67	36	0.002	<1	2.16	0.009	0.04	<0.1	<0.01	1.7	<0.1	<0.05	6	0.6	<0.2
147180	Soil	41	39	1.07	30	0.007	<1	2.77	0.007	0.03	<0.1	<0.01	2.6	<0.1	<0.05	8	<0.5	<0.2
147181	Soil	40	30	0.64	26	0.004	<1	1.92	0.005	0.02	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
147182	Soil	35	34	0.79	29	0.002	<1	2.43	0.008	0.03	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
147183	Soil	34	32	0.71	33	0.003	<1	2.28	0.007	0.03	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
147184	Soil	36	35	0.87	35	0.002	<1	2.45	0.008	0.04	<0.1	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
147185	Soil	26	24	0.48	39	0.008	<1	1.73	0.012	0.04	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
147186	Soil	27	23	0.59	32	0.004	<1	1.71	0.011	0.03	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147187	Soil	8	7	0.14	17	0.011	<1	0.70	0.022	0.02	<0.1	<0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
147188	Soil	27	23	0.53	24	0.007	<1	1.51	0.014	0.03	0.1	0.02	1.1	<0.1	0.06	5	0.7	<0.2
147189	Soil	53	32	0.77	32	0.006	2	2.15	0.016	0.03	0.1	0.01	1.9	<0.1	<0.05	6	1.8	<0.2
147190	Soil	37	29	0.79	24	0.004	<1	2.05	0.011	0.03	<0.1	0.01	1.6	<0.1	<0.05	6	0.8	<0.2
147191	Soil	6	9	0.16	16	0.009	<1	0.76	0.024	0.03	<0.1	0.02	0.3	<0.1	0.05	3	0.9	<0.2
147192	Soil	21	23	0.61	22	0.010	<1	1.57	0.010	0.02	0.2	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
147193	Soil	12	13	0.19	15	0.010	<1	0.81	0.016	0.03	0.1	0.03	0.4	<0.1	<0.05	4	0.6	<0.2
147194	Soil	39	36	0.80	41	0.021	<1	2.46	0.010	0.06	0.5	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
147195	Soil	32	36	0.86	31	0.004	1	2.24	0.007	0.02	<0.1	0.02	1.6	<0.1	<0.05	7	1.2	<0.2
147196	Soil	35	33	0.85	40	0.005	<1	2.15	0.008	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	0.7	<0.2
147197	Soil	11	13	0.18	15	0.011	<1	0.65	0.018	0.02	<0.1	0.03	0.5	<0.1	<0.05	3	<0.5	<0.2
147198	Soil	14	13	0.33	27	0.010	<1	1.17	0.023	0.04	<0.1	0.03	1.4	<0.1	<0.05	3	1.0	<0.2
147199	Soil	21	37	0.75	36	0.002	<1	2.34	0.016	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	1.0	<0.2
130267	Soil	28	28	0.80	28	0.007	<1	1.88	0.017	0.03	0.2	0.01	2.2	<0.1	<0.05	5	0.6	<0.2
130268	Soil	29	33	0.88	31	0.002	<1	2.42	0.007	0.04	<0.1	<0.01	1.8	<0.1	<0.05	7	0.7	<0.2
130269	Soil	20	26	0.67	27	0.006	<1	1.93	0.008	0.03	0.1	0.02	1.0	<0.1	<0.05	7	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130270	Soil	0.7	46.0	32.0	83	0.1	22.5	20.2	1169	2.72	42.4	1.4	7.7	3.9	4	0.2	0.3	0.9	15	0.02	0.055
130271	Soil	1.1	57.1	94.0	147	0.2	37.7	35.8	1676	4.61	96.2	1.6	2.4	14.9	5	0.3	0.3	2.0	18	0.05	0.055
130272	Soil	0.9	76.7	41.8	131	0.2	37.7	35.0	1563	4.35	35.2	1.8	8.2	11.5	5	0.2	0.5	1.7	21	0.04	0.075
130273	Soil	0.5	53.6	30.7	110	<0.1	36.8	25.6	1360	3.98	10.4	0.8	5.0	16.0	6	<0.1	0.3	1.0	21	0.07	0.068
130274	Soil	0.5	42.3	29.2	98	<0.1	29.9	27.8	1110	4.25	13.9	1.4	2.1	10.1	6	<0.1	0.3	1.8	19	0.06	0.071
130275	Soil	0.1	5.7	2.2	6	<0.1	1.5	1.2	39	0.52	1.1	0.2	<0.5	0.2	10	<0.1	<0.1	<0.1	11	0.08	0.046
130276	Soil	1.3	31.1	28.1	86	0.1	26.4	12.5	544	4.30	47.0	1.0	4.2	6.0	9	0.1	0.6	0.7	23	0.04	0.066
130277	Soil	1.1	51.6	37.9	114	0.2	36.4	24.5	870	4.92	51.3	1.5	21.2	10.0	8	0.1	0.8	1.0	22	0.03	0.093
130278	Soil	0.7	17.4	15.3	32	0.2	9.3	4.4	234	2.34	13.9	0.6	1.0	0.9	7	<0.1	0.3	0.5	17	0.02	0.066
130279	Soil	1.0	32.1	34.9	57	0.3	16.2	7.1	429	4.11	21.7	1.0	3.1	8.4	9	<0.1	0.5	1.1	25	0.02	0.126
130280	Soil	1.2	20.6	23.2	64	0.2	15.4	6.4	372	8.29	40.5	0.9	7.5	8.9	5	<0.1	0.6	1.2	45	0.02	0.210
130281	Soil	0.6	50.6	30.3	143	0.1	44.1	31.6	1314	4.77	29.4	1.6	13.6	12.4	6	0.2	0.4	1.3	22	0.06	0.057
130282	Soil	0.7	32.7	44.0	70	0.1	25.1	10.2	359	5.20	12.6	1.5	0.9	14.5	13	<0.1	0.4	0.8	20	0.01	0.068
130283	Soil	0.8	31.3	40.2	75	<0.1	21.7	9.5	338	4.92	11.8	1.5	2.0	11.6	14	<0.1	0.4	0.8	20	<0.01	0.071
130284	Soil	0.8	45.5	40.2	93	0.3	18.2	15.2	840	5.04	35.0	2.5	1.4	10.8	10	0.2	1.1	0.8	16	0.03	0.160
130285	Soil	0.9	57.8	50.9	101	0.3	20.9	16.6	646	7.37	55.5	2.2	3.8	17.5	11	<0.1	1.5	1.0	21	0.01	0.139
130286	Soil	1.1	91.0	61.9	106	0.3	35.5	21.1	649	6.49	29.7	3.7	2.6	15.5	20	0.1	1.1	1.0	19	0.02	0.137
130287	Soil	0.8	47.5	48.6	96	0.1	33.9	19.7	778	5.78	16.8	2.0	1.6	12.6	14	<0.1	0.7	0.9	20	0.03	0.097
130288	Soil	0.9	41.7	56.9	76	0.2	25.6	13.5	681	5.02	16.3	2.0	3.5	10.7	14	<0.1	0.6	0.9	20	0.03	0.106
130289	Soil	0.7	9.2	5.9	68	<0.1	26.9	13.5	344	3.78	1.0	0.8	2.8	5.0	11	<0.1	0.2	0.5	34	0.01	0.029
130290	Soil	0.5	11.9	5.7	89	<0.1	37.2	17.5	385	3.68	1.4	1.0	5.4	4.6	13	<0.1	0.2	0.5	30	0.02	0.042
130291	Soil	0.5	32.5	6.3	83	<0.1	38.8	19.4	471	3.47	0.8	1.1	4.2	4.8	3	<0.1	0.1	1.1	24	0.08	0.060
130292	Soil	0.9	26.4	27.4	78	<0.1	34.0	18.6	715	4.19	2.7	1.1	0.8	5.0	4	<0.1	0.3	0.6	29	0.07	0.065
130293	Soil	1.0	22.0	17.2	66	<0.1	28.5	14.6	484	4.22	4.2	1.4	0.5	4.0	3	<0.1	1.8	0.5	21	0.01	0.074
130294	Soil	0.8	13.3	17.2	54	0.1	23.3	14.6	497	4.32	4.4	0.8	<0.5	1.9	4	<0.1	0.3	0.5	27	0.01	0.086
130295	Soil	0.6	11.6	10.6	44	0.1	17.9	8.6	320	3.40	6.6	0.8	<0.5	1.9	3	<0.1	0.2	0.4	20	<0.01	0.063
130296	Soil	0.8	20.2	14.2	74	<0.1	32.2	21.8	627	3.83	6.1	1.0	1.2	4.7	5	<0.1	0.2	0.4	20	0.07	0.087
130297	Soil	0.5	39.5	4.1	86	<0.1	36.6	17.9	713	3.42	0.6	3.7	0.6	10.1	9	<0.1	<0.1	0.3	18	0.20	0.058
130298	Soil	1.0	11.1	4.9	78	<0.1	29.6	15.6	644	3.22	1.2	0.9	0.7	5.1	7	<0.1	<0.1	0.3	17	0.08	0.078
130299	Soil	0.4	9.6	4.7	40	<0.1	16.1	7.6	206	2.91	1.4	0.8	<0.5	2.1	4	<0.1	<0.1	0.3	25	0.01	0.023



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130270	Soil	15	19	0.51	22	0.006	<1	1.32	0.015	0.03	<0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
130271	Soil	32	34	0.89	32	0.002	<1	2.26	0.009	0.04	<0.1	0.01	2.3	<0.1	<0.05	7	0.6	<0.2
130272	Soil	30	27	0.82	33	0.010	<1	2.27	0.008	0.04	0.1	0.02	1.4	0.1	<0.05	6	<0.5	<0.2
130273	Soil	34	26	0.84	43	0.012	<1	1.89	0.006	0.03	0.1	0.02	1.2	<0.1	<0.05	6	0.6	<0.2
130274	Soil	41	30	0.78	24	0.007	1	2.26	0.008	0.03	<0.1	0.02	1.3	<0.1	0.07	6	<0.5	<0.2
130275	Soil	2	2	0.03	19	0.019	<1	0.46	0.036	0.03	<0.1	<0.01	0.2	<0.1	<0.05	1	0.6	<0.2
130276	Soil	27	26	0.55	35	0.013	1	1.62	0.011	0.03	0.2	0.01	1.1	<0.1	<0.05	6	0.6	<0.2
130277	Soil	31	29	0.69	24	0.009	<1	1.98	0.010	0.04	0.2	0.04	1.2	<0.1	0.07	7	<0.5	<0.2
130278	Soil	14	11	0.15	24	0.010	<1	0.80	0.024	0.02	0.2	0.02	0.4	<0.1	<0.05	5	0.6	<0.2
130279	Soil	28	17	0.29	37	0.009	<1	1.35	0.009	0.02	0.5	0.02	0.8	<0.1	<0.05	7	0.6	<0.2
130280	Soil	30	26	0.32	19	0.025	<1	1.31	0.008	0.02	0.5	0.04	0.9	<0.1	0.07	12	0.8	<0.2
130281	Soil	38	32	0.87	30	0.005	<1	2.26	0.008	0.04	0.2	0.02	1.8	<0.1	<0.05	7	0.7	<0.2
130282	Soil	27	37	0.76	41	0.002	<1	2.37	0.018	0.06	<0.1	0.02	1.9	<0.1	0.05	7	0.8	<0.2
130283	Soil	25	34	0.73	36	0.002	1	2.32	0.014	0.04	<0.1	<0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
130284	Soil	21	27	0.58	29	0.005	1	1.78	0.009	0.04	0.2	0.07	1.6	<0.1	0.07	5	0.8	<0.2
130285	Soil	29	36	0.69	30	0.003	2	2.06	0.007	0.04	0.1	0.03	1.9	<0.1	<0.05	7	0.5	<0.2
130286	Soil	24	32	0.68	37	0.003	<1	2.12	0.010	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	0.9	<0.2
130287	Soil	23	39	0.79	29	0.003	<1	2.46	0.013	0.03	<0.1	0.02	1.9	<0.1	<0.05	7	1.4	<0.2
130288	Soil	21	35	0.69	42	0.008	2	2.23	0.012	0.05	<0.1	0.02	1.5	<0.1	0.05	7	0.9	<0.2
130289	Soil	14	27	0.50	21	0.017	<1	1.02	0.007	0.02	<0.1	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
130290	Soil	13	28	0.66	20	0.016	<1	1.16	0.006	0.02	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
130291	Soil	10	29	0.67	22	0.016	<1	1.22	0.005	0.02	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
130292	Soil	18	34	0.72	14	0.018	<1	1.44	0.003	0.01	<0.1	<0.01	0.8	<0.1	<0.05	5	0.5	<0.2
130293	Soil	16	30	0.56	20	0.008	<1	1.40	0.004	0.02	<0.1	0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
130294	Soil	12	28	0.40	18	0.009	<1	1.09	0.004	0.02	<0.1	0.02	0.4	<0.1	0.05	6	0.6	<0.2
130295	Soil	17	23	0.41	15	0.007	<1	1.13	0.005	0.01	<0.1	0.01	0.4	<0.1	<0.05	5	0.5	<0.2
130296	Soil	24	28	0.63	18	0.011	<1	1.38	0.004	0.02	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
130297	Soil	98	30	0.73	43	0.008	<1	1.69	0.006	0.02	0.1	<0.01	1.6	<0.1	<0.05	5	0.6	<0.2
130298	Soil	19	29	0.63	52	0.006	<1	1.52	0.005	0.03	0.1	<0.01	1.0	<0.1	0.05	5	<0.5	<0.2
130299	Soil	21	21	0.29	25	0.021	3	0.76	0.003	0.02	<0.1	<0.01	0.5	<0.1	<0.05	4	<0.5	<0.2



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	Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130300	Soil		2.6	40.7	5.9	84	<0.1	34.1	17.5	612	3.82	2.2	1.6	2.0	4.0	5	<0.1	0.1	0.8	25	0.08	0.063
130301	Soil		0.4	15.2	6.4	71	<0.1	33.6	16.9	331	2.79	1.3	0.8	<0.5	4.6	5	<0.1	<0.1	0.3	19	0.07	0.059
148142	Soil		0.9	49.0	44.8	111	0.1	50.7	37.7	681	4.96	10.8	1.1	<0.5	10.6	21	<0.1	0.8	0.7	17	0.02	0.100
148143	Soil		0.6	30.1	34.8	62	0.3	23.4	11.2	155	3.53	14.6	1.3	<0.5	9.3	14	<0.1	0.8	0.6	16	0.02	0.067
148144	Soil		1.1	26.9	34.8	61	0.2	14.4	6.4	314	5.15	21.7	1.4	<0.5	7.2	9	<0.1	0.6	0.7	26	0.02	0.132
148145	Soil		1.1	77.6	59.0	112	0.6	36.0	20.1	600	6.68	85.5	2.6	1.5	9.7	7	<0.1	1.3	0.8	19	0.02	0.152
148146	Soil		1.0	75.0	47.5	134	0.1	44.3	53.9	666	5.73	43.6	2.5	0.5	13.9	9	<0.1	1.0	0.7	22	0.02	0.091
148147	Soil		0.1	4.4	2.9	7	<0.1	1.3	0.9	17	0.46	1.9	0.2	<0.5	<0.1	5	<0.1	<0.1	<0.1	7	0.02	0.019
148148	Soil		<0.1	2.9	1.9	6	<0.1	1.0	0.7	21	0.26	0.9	0.1	<0.5	<0.1	5	<0.1	<0.1	<0.1	5	0.03	0.016
148149	Soil		0.7	51.0	41.3	103	0.1	36.0	36.4	619	3.71	74.8	1.3	0.8	8.9	7	0.1	0.4	0.6	15	0.05	0.054
148150	Soil		0.2	6.2	4.7	44	<0.1	22.0	10.1	139	3.29	0.6	0.6	0.5	1.5	2	<0.1	<0.1	0.4	27	<0.01	0.026
148151	Soil		2.2	69.3	55.2	72	<0.1	31.1	19.9	1206	3.73	2.6	3.3	1.2	15.6	7	<0.1	0.3	0.9	20	0.16	0.102
148152	Soil		1.3	52.0	48.2	57	0.1	22.5	20.7	788	4.04	8.8	1.9	0.8	6.1	5	<0.1	0.6	0.5	21	0.05	0.116
148153	Soil		0.8	43.3	34.0	66	<0.1	29.8	41.5	939	3.66	9.1	1.1	<0.5	8.6	6	<0.1	0.4	0.5	17	0.11	0.082
148154	Soil		0.7	22.4	19.5	67	<0.1	28.2	16.0	602	3.99	8.6	0.8	0.7	6.2	3	<0.1	0.3	0.4	17	0.03	0.061
148155	Soil		1.3	51.4	41.8	83	<0.1	44.2	44.2	1086	4.31	13.3	1.4	1.4	13.1	5	<0.1	0.4	0.6	18	0.10	0.078
148156	Soil		1.6	63.2	15.2	76	<0.1	32.1	19.0	1070	3.55	3.0	1.4	<0.5	9.9	5	<0.1	0.1	0.4	17	0.09	0.070
148157	Soil		0.6	32.2	7.6	60	<0.1	24.6	12.3	485	2.67	1.3	0.7	0.7	2.7	4	<0.1	<0.1	0.3	16	0.09	0.049
148158	Soil		0.6	21.7	4.7	66	<0.1	27.0	13.3	420	2.59	<0.5	0.6	<0.5	1.9	4	<0.1	<0.1	0.2	17	0.05	0.045
148159	Soil		0.2	10.9	4.1	25	<0.1	10.3	5.3	173	1.07	0.6	0.4	<0.5	0.4	4	<0.1	<0.1	0.1	9	0.04	0.034
148160	Soil		0.4	14.4	5.2	56	<0.1	22.8	11.0	358	2.60	0.8	0.5	<0.5	2.1	3	<0.1	<0.1	0.2	17	0.04	0.042
148161	Soil		0.7	25.1	7.8	67	0.2	26.2	12.8	426	3.42	1.8	0.8	12.9	2.1	4	<0.1	<0.1	0.4	21	0.03	0.041
149042	Soil		0.3	21.2	19.2	92	<0.1	31.8	18.4	870	3.75	3.8	1.2	5.8	9.3	3	<0.1	0.2	0.7	20	0.03	0.052
149043	Soil		0.6	40.6	31.2	80	0.1	23.1	18.4	1173	2.87	18.3	1.0	19.2	5.8	3	<0.1	0.2	0.9	14	0.04	0.052
149044	Soil		0.3	33.1	14.7	93	<0.1	28.9	28.0	1138	3.16	25.3	1.3	4.0	10.1	3	<0.1	0.2	0.7	16	0.04	0.050
149045	Soil		0.4	41.5	27.1	97	<0.1	31.2	21.2	861	3.36	9.2	1.1	18.3	8.5	4	0.1	0.2	0.9	19	0.04	0.056
149046	Soil		0.5	55.3	43.5	97	0.1	30.4	19.1	809	3.66	9.3	1.0	1.6	14.6	8	0.1	0.3	0.9	14	0.08	0.041
149047	Soil		1.1	58.0	66.9	109	0.1	41.5	46.3	1105	4.17	29.6	1.6	2.0	8.4	6	0.1	0.5	0.8	19	0.05	0.096
149048	Soil		0.6	37.5	47.9	97	0.1	30.0	17.2	542	4.33	16.4	1.4	1.6	13.2	4	<0.1	0.4	0.8	18	0.03	0.053
149049	Soil		0.8	47.7	49.7	104	0.3	32.3	19.6	617	5.20	22.1	1.3	4.4	10.6	6	0.1	0.5	1.1	21	0.05	0.087



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130300	Soil	21	29	0.65	26	0.013	<1	1.50	0.006	0.03	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
130301	Soil	10	24	0.62	24	0.009	<1	1.14	0.009	0.02	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
148142	Soil	40	33	0.71	29	0.005	<1	2.01	0.010	0.06	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
148143	Soil	23	17	0.27	24	0.008	<1	1.07	0.017	0.03	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
148144	Soil	26	23	0.28	20	0.007	<1	1.23	0.007	0.03	0.1	0.03	0.9	<0.1	<0.05	7	<0.5	<0.2
148145	Soil	23	30	0.47	23	0.004	<1	1.85	0.006	0.03	<0.1	0.08	1.6	<0.1	<0.05	6	0.5	<0.2
148146	Soil	31	37	0.77	29	0.008	<1	2.13	0.008	0.06	<0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
148147	Soil	2	2	0.02	9	0.010	<1	0.30	0.020	0.01	<0.1	0.01	0.2	<0.1	<0.05	1	<0.5	<0.2
148148	Soil	1	1	0.02	10	0.009	<1	0.28	0.029	0.02	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5	<0.2
148149	Soil	33	25	0.58	37	0.003	<1	1.77	0.010	0.04	0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
148150	Soil	10	25	0.33	14	0.019	<1	0.68	0.007	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
148151	Soil	38	36	0.90	24	0.010	<1	1.86	0.009	0.04	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
148152	Soil	23	29	0.52	17	0.007	<1	1.51	0.004	0.02	<0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
148153	Soil	28	30	0.71	20	0.009	<1	1.65	0.005	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
148154	Soil	23	32	0.71	12	0.007	<1	1.69	0.004	0.02	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
148155	Soil	45	33	0.81	28	0.009	<1	1.88	0.004	0.03	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
148156	Soil	49	32	0.74	46	0.004	<1	1.75	0.009	0.03	0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
148157	Soil	20	25	0.57	35	0.009	<1	1.25	0.012	0.02	0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
148158	Soil	15	24	0.59	38	0.007	<1	1.24	0.008	0.03	<0.1	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
148159	Soil	7	10	0.25	17	0.008	<1	0.71	0.019	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
148160	Soil	15	23	0.51	21	0.009	<1	1.12	0.009	0.02	<0.1	<0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
148161	Soil	19	24	0.54	29	0.009	<1	1.34	0.011	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
149042	Soil	36	24	0.58	19	0.002	<1	1.90	0.008	0.03	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
149043	Soil	18	21	0.54	18	0.002	<1	1.44	0.011	0.02	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
149044	Soil	27	23	0.58	22	0.002	<1	1.67	0.013	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	0.5	<0.2
149045	Soil	28	24	0.59	23	0.006	<1	1.66	0.008	0.03	0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
149046	Soil	41	27	0.79	34	0.002	<1	1.99	0.005	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
149047	Soil	29	26	0.59	30	0.005	<1	1.82	0.006	0.03	0.2	0.06	1.2	<0.1	<0.05	5	<0.5	<0.2
149048	Soil	49	29	0.65	27	<0.001	<1	2.05	0.004	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
149049	Soil	40	29	0.59	17	0.003	<1	1.91	0.005	0.02	<0.1	0.05	1.1	<0.1	<0.05	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
149050	Soil	0.8	48.1	43.1	105	0.2	33.5	18.8	761	5.40	22.9	1.5	7.2	13.0	7	<0.1	0.6	1.1	19	0.07	0.100
149051	Soil	1.1	66.3	48.6	119	0.3	41.7	39.3	1030	4.98	28.7	2.3	2.8	14.6	11	<0.1	0.6	1.2	21	0.03	0.088
149052	Soil	0.8	52.0	47.5	126	0.2	42.7	31.2	991	4.78	23.8	1.8	2.4	15.4	10	<0.1	0.4	1.0	18	0.06	0.068
149053	Soil	0.7	55.0	21.8	117	0.1	40.1	25.5	950	4.30	13.4	1.6	3.3	14.5	8	<0.1	0.2	0.7	18	0.08	0.056
149054	Soil	0.9	48.8	27.0	113	0.1	39.7	29.4	1086	4.38	16.9	1.4	3.3	14.3	7	<0.1	0.2	0.8	18	0.05	0.058
149055	Soil	1.1	57.2	47.8	120	0.3	33.7	30.9	852	5.10	34.7	1.8	2.1	12.7	7	0.2	0.5	1.8	19	0.03	0.090
149056	Soil	0.9	53.4	41.4	115	0.2	36.7	30.0	1047	4.33	30.1	1.9	2.6	12.8	7	0.1	0.3	1.0	16	0.04	0.066
149057	Soil	0.4	8.3	10.6	19	<0.1	5.0	3.3	213	0.90	8.8	0.4	0.7	0.3	5	<0.1	0.3	0.2	10	0.02	0.064
149058	Soil	0.5	23.0	45.1	101	0.2	23.2	8.6	248	4.28	13.9	0.8	0.8	12.0	7	<0.1	0.4	0.6	15	0.02	0.106
149059	Soil	0.6	32.3	39.6	95	0.1	29.6	14.2	360	5.08	20.1	1.6	1.3	14.4	7	<0.1	0.5	0.7	17	0.01	0.072
149060	Soil	1.1	81.1	64.6	97	0.1	39.8	27.3	372	7.35	198.0	4.1	8.6	21.2	11	<0.1	1.7	1.0	16	<0.01	0.170
149061	Soil	1.2	57.1	55.8	94	0.2	32.3	11.9	308	5.71	33.8	3.6	<0.5	19.8	7	<0.1	1.2	1.0	19	<0.01	0.145
149062	Soil	0.7	33.3	43.0	67	0.2	21.6	9.3	450	4.59	14.9	1.5	1.3	11.0	10	<0.1	0.7	0.7	17	0.02	0.128
149063	Soil	0.6	40.5	42.6	96	<0.1	34.1	17.1	654	5.17	13.9	1.4	1.0	13.3	11	<0.1	0.8	0.7	17	0.01	0.084
149064	Soil	0.8	45.0	52.2	93	0.2	31.6	14.7	598	5.44	18.3	1.9	0.9	15.7	12	<0.1	0.8	0.9	18	<0.01	0.091
130302	Soil	0.7	18.4	9.3	78	<0.1	31.2	15.8	461	4.28	3.6	1.0	1.6	4.5	4	<0.1	0.1	0.8	25	0.03	0.044
130303	Soil	1.4	56.4	7.3	65	<0.1	27.1	13.2	393	3.14	1.7	1.2	0.7	2.8	5	<0.1	<0.1	0.5	23	0.04	0.038
130304	Soil	1.4	9.1	6.3	34	<0.1	12.4	6.4	192	2.90	2.7	0.6	<0.5	0.6	4	<0.1	0.2	0.6	33	0.02	0.087
130305	Soil	1.1	85.7	5.7	84	<0.1	32.7	16.6	664	3.39	0.7	1.3	2.2	8.9	4	<0.1	0.1	0.7	19	0.10	0.072
130306	Soil	0.7	23.9	7.1	76	<0.1	33.0	18.0	639	3.87	1.1	1.0	0.9	4.3	3	<0.1	0.1	0.6	22	0.03	0.046
130307	Soil	0.6	19.8	5.2	78	<0.1	32.1	16.6	601	4.18	1.5	0.8	1.4	2.4	3	<0.1	0.1	0.4	22	0.03	0.061
130308	Soil	0.3	25.6	4.5	78	<0.1	34.7	17.5	533	3.67	0.6	1.6	0.9	6.8	6	<0.1	0.1	0.5	28	0.05	0.037
130309	Soil	0.6	32.2	7.9	85	<0.1	33.4	18.6	869	3.43	<0.5	1.3	3.3	7.7	5	<0.1	0.1	0.7	18	0.05	0.044
130310	Soil	0.8	29.6	6.5	89	<0.1	38.7	19.6	892	3.98	0.6	1.2	2.4	11.2	7	<0.1	<0.1	0.5	26	0.06	0.040
130311	Soil	1.4	35.7	21.8	93	<0.1	36.2	20.5	1058	4.11	1.1	1.4	0.6	11.2	7	<0.1	0.1	0.6	22	0.08	0.055
130312	Soil	1.6	41.4	36.3	90	<0.1	33.3	19.5	981	3.96	2.2	1.2	1.1	12.8	7	<0.1	0.1	0.4	12	0.08	0.056
130313	Soil	0.5	20.3	25.8	71	<0.1	23.4	14.9	690	3.62	1.0	0.7	<0.5	9.3	3	<0.1	<0.1	0.2	11	0.03	0.039
130314	Soil	1.6	26.9	22.8	97	<0.1	34.4	20.1	890	4.14	0.9	0.7	<0.5	10.6	5	<0.1	<0.1	0.4	10	0.06	0.048
130315	Soil	0.4	7.2	4.0	47	<0.1	19.5	9.8	414	3.19	0.9	0.6	0.9	3.3	2	<0.1	<0.1	0.2	18	<0.01	0.032
130316	Soil	1.5	79.7	7.3	99	<0.1	36.1	22.2	1626	4.07	0.9	1.7	0.6	13.9	6	<0.1	<0.1	0.5	14	0.08	0.061



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
149050	Soil	39	30	0.65	14	0.007	<1	2.05	0.005	0.02	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
149051	Soil	50	31	0.67	32	0.004	<1	2.24	0.008	0.03	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
149052	Soil	54	33	0.80	26	0.002	<1	2.36	0.006	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	0.5	<0.2
149053	Soil	38	31	0.82	34	0.003	1	2.07	0.006	0.03	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
149054	Soil	37	31	0.76	27	0.003	<1	2.08	0.007	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
149055	Soil	28	28	0.61	28	0.005	<1	2.10	0.006	0.03	1.0	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
149056	Soil	29	28	0.75	26	0.002	<1	2.08	0.008	0.03	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
149057	Soil	7	5	0.03	15	0.002	<1	0.21	0.014	0.02	<0.1	0.02	0.1	<0.1	<0.05	1	<0.5	<0.2
149058	Soil	29	26	0.62	21	0.003	<1	1.74	0.007	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
149059	Soil	36	32	0.71	15	0.002	<1	1.98	0.005	0.03	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
149060	Soil	25	31	0.76	25	0.002	<1	2.26	0.005	0.05	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
149061	Soil	25	28	0.62	17	0.002	<1	2.00	0.005	0.03	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
149062	Soil	24	30	0.47	24	0.002	<1	1.79	0.006	0.03	0.1	0.04	1.3	<0.1	<0.05	5	0.6	<0.2
149063	Soil	27	35	0.74	26	0.002	<1	2.27	0.008	0.04	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
149064	Soil	24	36	0.69	30	0.001	<1	2.25	0.010	0.04	<0.1	0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
130302	Soil	19	29	0.66	23	0.019	<1	1.52	0.006	0.02	<0.1	0.02	0.9	<0.1	<0.05	5	<0.5	<0.2
130303	Soil	23	25	0.56	37	0.015	<1	1.27	0.006	0.03	0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
130304	Soil	16	16	0.23	19	0.010	<1	0.69	0.008	0.02	<0.1	0.02	0.3	<0.1	<0.05	7	<0.5	<0.2
130305	Soil	28	28	0.78	30	0.009	<1	1.60	0.005	0.02	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
130306	Soil	27	29	0.64	44	0.018	<1	1.44	0.007	0.02	0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
130307	Soil	17	29	0.66	16	0.012	<1	1.56	0.006	0.02	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
130308	Soil	12	30	0.63	23	0.037	<1	1.19	0.005	0.02	0.2	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
130309	Soil	18	27	0.70	40	0.020	<1	1.46	0.006	0.02	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
130310	Soil	14	29	0.70	36	0.049	<1	1.31	0.006	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
130311	Soil	25	29	0.79	31	0.034	<1	1.61	0.006	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130312	Soil	34	27	0.81	23	0.006	<1	1.95	0.006	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130313	Soil	19	24	0.65	11	0.006	<1	1.59	0.006	0.01	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
130314	Soil	30	28	0.89	13	0.002	1	2.10	0.003	0.01	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
130315	Soil	33	21	0.38	22	0.024	<1	0.88	0.004	0.02	<0.1	0.03	0.3	<0.1	<0.05	4	<0.5	<0.2
130316	Soil	40	27	0.85	66	0.007	<1	1.87	0.005	0.02	<0.1	0.01	1.4	<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
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
130317	Soil	0.7	48.3	5.1	89	<0.1	38.1	19.2	1004	3.91	0.7	1.4	<0.5	15.6	6	<0.1	<0.1	0.4	21	0.10
130318	Soil	1.0	48.2	4.8	95	<0.1	37.3	21.0	1095	4.11	0.8	1.5	0.7	13.5	5	<0.1	<0.1	0.4	20	0.10
130319	Soil	1.3	40.1	5.5	87	<0.1	33.4	19.3	1044	3.63	<0.5	1.3	1.4	8.6	4	<0.1	0.1	0.4	15	0.05
130320	Soil	2.1	82.6	34.1	93	<0.1	32.9	28.0	1571	4.12	4.3	1.4	1.6	11.3	4	<0.1	0.2	0.5	12	0.04
130321	Soil	1.0	51.5	44.0	90	<0.1	32.7	32.3	1533	4.26	14.8	1.2	1.6	13.2	3	<0.1	0.1	0.5	13	0.05
130322	Soil	1.0	137.1	83.6	139	0.3	45.0	63.7	1432	4.92	46.2	2.6	1.3	19.3	4	<0.1	0.4	1.2	20	0.04
130323	Soil	0.7	59.2	21.9	83	0.1	28.5	18.9	884	3.25	4.8	1.3	1.7	11.0	3	<0.1	0.4	0.6	16	0.02
130324	Soil	0.6	45.2	23.3	109	<0.1	32.1	15.8	432	4.27	10.6	1.1	1.3	10.2	6	0.2	0.4	0.7	31	0.02
130325	Soil	0.6	47.9	25.3	107	<0.1	35.0	27.6	871	4.33	11.7	1.2	1.2	9.9	4	0.2	0.5	0.8	24	0.02
130326	Soil	0.7	44.6	22.2	95	0.1	32.2	13.9	452	3.92	9.2	1.2	1.4	12.6	5	0.2	0.3	0.9	24	0.04
130327	Soil	0.6	46.0	23.4	90	0.1	31.6	17.0	546	3.72	9.1	1.4	1.4	10.6	6	0.2	0.3	0.8	22	0.04
130328	Soil	0.6	44.5	23.2	97	<0.1	31.7	15.1	496	3.91	10.9	1.1	1.2	12.0	6	0.2	0.2	0.7	19	0.06
130329	Soil	0.7	41.4	24.1	96	<0.1	31.0	19.8	842	3.64	9.4	1.2	<0.5	10.1	5	0.1	0.2	0.5	16	0.07



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130317	Soil	42	29	0.79	123	0.035	4	1.58	0.005	0.03	0.9	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
130318	Soil	37	29	0.83	72	0.028	2	1.71	0.008	0.02	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
130319	Soil	28	27	0.78	60	0.011	<1	1.70	0.006	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130320	Soil	32	25	0.70	36	0.006	<1	1.75	0.004	0.02	0.3	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
130321	Soil	35	26	0.71	19	0.006	1	1.84	0.003	0.02	0.3	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
130322	Soil	26	28	0.86	63	0.012	<1	1.92	0.003	0.08	0.4	0.03	1.7	0.5	<0.05	6	0.5	<0.2
130323	Soil	38	20	0.52	34	0.011	<1	1.14	0.005	0.05	2.9	0.02	1.4	0.2	<0.05	4	<0.5	<0.2
130324	Soil	14	32	0.79	144	0.049	<1	1.66	0.003	0.29	1.2	0.01	2.4	0.5	<0.05	6	<0.5	<0.2
130325	Soil	18	26	0.65	77	0.027	<1	1.48	0.003	0.15	1.9	0.01	1.8	0.4	<0.05	5	<0.5	<0.2
130326	Soil	35	27	0.78	97	0.027	1	1.81	0.004	0.16	1.0	0.01	1.7	0.3	<0.05	5	<0.5	<0.2
130327	Soil	44	26	0.70	102	0.021	<1	1.68	0.005	0.14	1.0	0.02	1.7	0.3	<0.05	6	<0.5	<0.2
130328	Soil	32	26	0.81	68	0.018	2	1.76	0.004	0.10	0.8	0.01	1.6	0.2	<0.05	5	<0.5	<0.2
130329	Soil	29	22	0.68	45	0.011	<1	1.48	0.002	0.05	2.2	0.01	1.3	0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001304.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
118986	Soil	0.9	76.2	64.3	168	0.2	68.3	76.8	1570	5.72	322.3	1.5	45.8	14.7	7	0.4	0.7	1.8	26	0.07
REP 118986	QC	0.8	77.6	65.9	168	0.2	68.2	76.5	1547	5.54	323.5	1.5	35.2	14.9	7	0.4	0.7	1.7	26	0.06
147166	Soil	0.8	24.6	31.3	64	<0.1	17.1	8.7	337	3.38	22.5	1.1	0.7	1.9	6	<0.1	0.5	0.9	21	0.02
REP 147166	QC	0.8	24.4	31.6	63	0.1	16.8	8.9	328	3.26	22.0	1.1	1.3	1.8	6	<0.1	0.4	0.8	20	0.02
147174	Soil	0.9	47.8	79.2	92	0.1	17.0	8.1	306	6.08	56.3	2.4	2.2	28.7	18	<0.1	1.3	1.2	21	<0.01
REP 147174	QC	1.0	47.6	76.1	94	0.1	16.4	7.7	290	5.85	54.6	2.3	1.7	27.3	17	<0.1	1.2	1.1	20	0.01
149011	Soil	1.0	56.0	37.8	110	0.1	32.6	12.2	506	5.53	184.7	2.7	8.2	9.7	9	<0.1	1.1	0.8	20	0.02
REP 149011	QC	1.1	54.9	36.9	107	0.2	30.7	12.0	491	5.46	179.0	2.5	8.7	10.9	8	<0.1	1.0	0.8	19	0.02
149018	Soil	0.5	14.0	13.2	35	<0.1	10.3	5.0	198	2.21	12.6	0.4	<0.5	1.4	5	<0.1	0.2	0.3	12	0.01
REP 149018	QC	0.4	13.3	12.5	34	<0.1	9.6	4.9	190	2.15	12.0	0.4	<0.5	1.5	5	<0.1	0.2	0.2	11	0.01
149038	Soil	0.6	20.5	28.0	37	0.3	9.9	3.6	129	2.84	19.4	0.9	0.6	5.7	7	<0.1	0.6	0.3	12	0.02
REP 149038	QC	0.5	21.5	28.9	36	0.3	10.1	3.6	132	2.94	20.5	0.9	<0.5	5.7	7	<0.1	0.7	0.4	12	0.02
148074	Soil	0.7	100.7	45.5	147	<0.1	58.3	59.4	1639	5.60	92.3	1.9	4.3	18.4	6	<0.1	0.4	0.9	26	0.03
REP 148074	QC	0.8	106.8	48.3	143	<0.1	59.3	60.5	1654	5.48	95.6	2.0	5.2	18.9	6	<0.1	0.5	1.0	25	0.03
148097	Soil	0.5	57.9	65.9	27	0.3	7.0	16.6	830	1.12	21.4	2.9	7.6	0.8	9	<0.1	0.1	0.4	8	0.05
REP 148097	QC	0.5	57.8	66.8	28	0.3	7.7	17.8	812	1.16	22.7	3.1	3.3	0.8	9	<0.1	0.1	0.5	9	0.06
148113	Soil	0.9	45.0	46.1	95	0.1	30.7	18.5	414	4.98	16.1	1.6	<0.5	11.2	14	<0.1	0.9	0.6	18	0.01
REP 148113	QC	1.0	45.0	46.5	96	0.1	31.2	18.7	409	4.89	16.1	1.6	<0.5	11.0	14	<0.1	0.8	0.6	18	0.01
148126	Soil	1.5	68.1	87.4	128	0.3	35.8	54.7	1814	4.44	31.0	1.9	10.4	15.9	7	0.2	0.6	1.7	16	0.05
REP 148126	QC	1.4	66.8	83.0	119	0.3	35.4	52.8	1700	4.34	29.6	1.8	6.0	15.8	7	0.1	0.5	1.6	16	0.04
148138	Soil	0.6	35.4	40.1	79	0.1	23.5	9.8	297	4.75	12.4	1.7	1.4	13.0	11	<0.1	0.5	0.8	14	0.01
REP 148138	QC	0.6	37.8	41.2	80	0.1	24.4	10.1	298	4.85	12.6	1.6	1.6	12.6	12	<0.1	0.5	0.7	15	0.01
130271	Soil	1.1	57.1	94.0	147	0.2	37.7	35.8	1676	4.61	96.2	1.6	2.4	14.9	5	0.3	0.3	2.0	18	0.05
REP 130271	QC	1.1	55.6	94.6	150	0.2	38.8	36.0	1650	4.81	94.7	1.7	2.9	15.2	5	0.3	0.3	1.9	18	0.05
130286	Soil	1.1	91.0	61.9	106	0.3	35.5	21.1	649	6.49	29.7	3.7	2.6	15.5	20	0.1	1.1	1.0	19	0.02
REP 130286	QC	1.0	89.9	66.1	105	0.2	33.2	21.0	664	6.68	29.1	3.6	1.7	15.1	20	<0.1	1.1	1.0	19	0.02
149044	Soil	0.3	33.1	14.7	93	<0.1	28.9	28.0	1138	3.16	25.3	1.3	4.0	10.1	3	<0.1	0.2	0.7	16	0.04
REP 149044	QC	0.3	32.3	14.3	93	<0.1	27.1	27.0	1136	3.13	25.2	1.3	1.7	9.8	3	0.1	0.2	0.7	15	0.04



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Project: Culvert

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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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
118986	Soil	48	27	0.78	22	0.002	<1	2.28	0.003	0.02	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
REP 118986	QC	54	27	0.77	22	0.003	1	2.27	0.003	0.02	0.2	0.02	2.8	<0.1	<0.05	6	0.9	<0.2
147166	Soil	28	20	0.37	31	0.009	1	1.35	0.010	0.03	0.3	0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
REP 147166	QC	28	19	0.36	30	0.009	2	1.35	0.010	0.03	0.3	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
147174	Soil	33	35	0.87	38	0.014	5	2.40	0.016	0.16	<0.1	0.01	3.3	0.1	<0.05	7	<0.5	<0.2
REP 147174	QC	32	34	0.80	38	0.018	5	2.39	0.019	0.15	0.1	<0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
149011	Soil	36	25	0.48	22	0.007	<1	1.49	0.006	0.03	0.2	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
REP 149011	QC	32	24	0.45	21	0.006	<1	1.49	0.005	0.02	0.2	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
149018	Soil	16	14	0.28	19	0.008	<1	0.87	0.017	0.03	<0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
REP 149018	QC	15	12	0.27	17	0.008	<1	0.83	0.016	0.03	<0.1	<0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
149038	Soil	13	15	0.25	18	0.009	<1	1.09	0.018	0.04	<0.1	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
REP 149038	QC	14	15	0.25	20	0.009	<1	1.08	0.020	0.04	<0.1	0.04	1.0	<0.1	<0.05	3	0.6	<0.2
148074	Soil	44	37	0.99	35	0.007	<1	3.00	0.019	0.05	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5	<0.2
REP 148074	QC	45	39	1.03	37	0.005	<1	3.21	0.014	0.06	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5	<0.2
148097	Soil	6	6	0.12	31	0.005	<1	0.95	0.040	0.03	<0.1	0.05	0.5	<0.1	<0.05	3	<0.5	<0.2
REP 148097	QC	6	7	0.13	32	0.004	<1	1.03	0.040	0.03	<0.1	0.04	0.4	<0.1	<0.05	3	0.6	<0.2
148113	Soil	32	32	0.61	27	0.004	5	1.92	0.011	0.04	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
REP 148113	QC	32	32	0.61	27	0.004	<1	1.92	0.010	0.04	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
148126	Soil	27	30	0.71	23	0.003	<1	2.13	0.005	0.02	<0.1	0.06	1.4	<0.1	<0.05	6	<0.5	<0.2
REP 148126	QC	23	28	0.69	20	0.002	<1	2.05	0.005	0.02	<0.1	0.05	1.4	<0.1	<0.05	6	<0.5	<0.2
148138	Soil	27	32	0.62	29	0.004	<1	1.92	0.009	0.05	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
REP 148138	QC	27	33	0.63	29	0.002	<1	2.00	0.009	0.04	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
130271	Soil	32	34	0.89	32	0.002	<1	2.26	0.009	0.04	<0.1	0.01	2.3	<0.1	<0.05	7	0.6	<0.2
REP 130271	QC	33	30	0.96	29	0.005	<1	2.36	0.011	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
130286	Soil	24	32	0.68	37	0.003	<1	2.12	0.010	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	0.9	<0.2
REP 130286	QC	24	31	0.68	37	0.006	<1	2.22	0.012	0.05	0.1	0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
149044	Soil	27	23	0.58	22	0.002	<1	1.67	0.013	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	0.5	<0.2
REP 149044	QC	26	22	0.57	22	0.002	<1	1.67	0.011	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2



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Project: Culvert

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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 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
149062	Soil	0.7	33.3	43.0	67	0.2	21.6	9.3	450	4.59	14.9	1.5	1.3	11.0	10	<0.1	0.7	0.7	17	0.02	0.128
REP 149062	QC	0.7	32.4	40.3	66	0.2	21.7	9.2	433	4.44	14.2	1.5	1.1	10.7	10	<0.1	0.6	0.7	17	0.02	0.114
130305	Soil	1.1	85.7	5.7	84	<0.1	32.7	16.6	664	3.39	0.7	1.3	2.2	8.9	4	<0.1	0.1	0.7	19	0.10	0.072
REP 130305	QC	1.1	89.6	6.1	85	<0.1	34.9	17.0	685	3.59	0.6	1.4	1.2	9.0	4	<0.1	0.1	0.8	19	0.10	0.075
Reference Materials																					
STD DS8	Standard	13.4	116.2	126.5	337	1.9	40.3	7.9	613	2.46	26.0	2.8	125.6	7.3	71	2.7	6.0	7.1	45	0.70	0.082
STD DS8	Standard	11.4	102.5	116.4	298	1.7	36.3	7.1	562	2.30	24.5	2.5	124.5	5.9	61	2.2	5.1	6.4	39	0.65	0.076
STD DS8	Standard	11.1	108.7	117.1	308	1.6	37.5	7.3	577	2.37	24.6	2.4	119.4	5.7	53	2.2	5.2	6.2	39	0.60	0.078
STD DS8	Standard	12.6	104.6	119.7	308	1.9	36.3	7.1	596	2.37	25.3	2.6	121.7	6.9	70	2.2	5.3	6.2	40	0.68	0.076
STD DS8	Standard	13.1	104.2	122.2	302	1.8	35.8	7.1	599	2.36	24.2	3.0	116.7	7.3	74	2.5	5.6	7.2	42	0.66	0.077
STD DS8	Standard	12.2	102.0	118.2	302	1.8	35.1	7.3	585	2.31	24.2	2.6	108.4	6.8	68	2.2	5.4	6.9	39	0.63	0.077
STD DS8	Standard	14.0	117.2	127.8	328	1.8	38.4	7.9	637	2.51	24.6	2.8	120.4	7.0	81	2.4	6.1	6.6	48	0.80	0.077
STD DS8	Standard	13.3	104.9	123.7	307	1.9	38.3	7.4	612	2.44	25.9	2.8	109.3	6.6	74	2.4	6.1	6.9	42	0.69	0.077
STD DS8	Standard	12.4	98.9	108.0	288	1.8	34.1	6.9	545	2.23	22.8	2.3	108.1	5.5	62	2.1	4.7	5.4	39	0.64	0.069
STD DS8	Standard	13.0	105.9	127.1	293	1.8	36.2	7.2	589	2.34	23.7	2.9	112.5	7.0	66	2.3	5.9	6.6	40	0.66	0.079
STD DS8	Standard	13.1	115.0	123.3	309	1.8	36.3	7.5	619	2.49	23.9	3.1	110.4	7.8	74	2.2	5.9	6.8	43	0.71	0.078
STD DS8	Standard	13.9	121.6	127.4	310	1.9	39.2	7.5	604	2.40	25.4	3.1	109.2	7.6	74	2.5	6.4	7.5	42	0.70	0.074
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
149062	Soil	24	30	0.47	24	0.002	<1	1.79	0.006	0.03	0.1	0.04	1.3	<0.1	<0.05	5	0.6	<0.2
REP 149062	QC	22	30	0.48	23	0.002	<1	1.73	0.006	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
130305	Soil	28	28	0.78	30	0.009	<1	1.60	0.005	0.02	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
REP 130305	QC	28	28	0.80	31	0.013	<1	1.67	0.005	0.01	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	121	0.61	294	0.128	2	0.96	0.108	0.41	3.1	0.19	2.4	5.3	0.14	5	5.1	5.0
STD DS8	Standard	13	106	0.56	258	0.105	2	0.84	0.086	0.41	2.5	0.19	2.1	5.1	0.14	4	4.8	4.7
STD DS8	Standard	11	107	0.57	250	0.089	2	0.81	0.080	0.38	2.8	0.19	1.6	5.2	0.16	4	4.8	5.0
STD DS8	Standard	16	111	0.60	287	0.116	4	0.94	0.115	0.43	2.9	0.21	2.4	5.2	0.12	5	4.6	4.9
STD DS8	Standard	17	117	0.59	282	0.114	3	0.94	0.110	0.42	3.0	0.19	2.6	5.4	0.14	5	4.8	5.4
STD DS8	Standard	15	110	0.58	260	0.109	2	0.86	0.102	0.40	2.6	0.19	2.3	5.3	0.14	4	5.4	4.6
STD DS8	Standard	19	122	0.69	290	0.135	2	1.06	0.100	0.44	3.1	0.21	3.1	5.4	0.17	5	5.5	5.1
STD DS8	Standard	15	114	0.63	284	0.119	3	0.91	0.102	0.43	3.2	0.20	2.6	5.3	0.16	5	5.1	5.1
STD DS8	Standard	14	108	0.57	253	0.109	3	0.90	0.120	0.42	2.5	0.21	2.4	5.0	0.12	4	4.7	4.4
STD DS8	Standard	17	111	0.59	280	0.120	4	0.89	0.086	0.40	3.0	0.20	2.0	5.5	0.13	5	4.9	4.8
STD DS8	Standard	17	120	0.60	278	0.130	2	0.91	0.099	0.41	3.0	0.22	2.7	5.3	0.17	5	5.2	4.6
STD DS8	Standard	17	119	0.60	296	0.129	2	0.94	0.104	0.42	3.2	0.21	2.9	5.5	0.17	5	5.4	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: Culvert

Report Date: November 18, 2011

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QUALITY CONTROL REPORT

WHI11001304.1

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



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QUALITY CONTROL REPORT

WHI11001304.1

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



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Submitted By: Mark Fekete

Receiving Lab: Canada-Whitehorse

Received: August 15, 2011

Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

WHI11001305.1

CLIENT JOB INFORMATION

Project: Culvert
Shipment ID: CULVERT-5
P.O. Number
Number of Samples: 298

SAMPLE DISPOSAL

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

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

Invoice To: Stakeholder Gold Corp.
203 - 680 Third Ave.
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	298	Dry at 60C sieve 100g to -80 mesh			DAW
Dry at 60C	298	Dry at 60C			DAW
1DX2	296	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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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
147200	Soil	0.8	46.3	23.9	107	<0.1	44.0	20.4	722	3.76	0.7	2.0	3.2	11.8	4	<0.1	0.2	0.6	25	0.14	0.075
147201	Soil	0.9	19.0	12.9	49	<0.1	21.5	9.8	329	1.70	<0.5	0.8	1.1	1.9	4	<0.1	0.1	0.4	13	0.06	0.055
147202	Soil	1.5	43.7	29.8	90	0.1	36.4	18.8	659	3.12	<0.5	2.0	2.1	6.5	4	<0.1	0.2	0.7	18	0.10	0.073
147203	Soil	0.9	33.3	14.7	83	<0.1	35.5	17.3	533	2.63	<0.5	1.2	1.9	6.0	5	<0.1	0.2	0.6	17	0.09	0.062
147204	Soil	0.6	18.3	6.8	75	<0.1	31.4	14.8	370	2.22	<0.5	0.8	1.1	2.7	5	<0.1	0.2	0.4	15	0.03	0.062
147205	Soil	0.5	19.5	5.8	80	<0.1	33.3	15.7	397	2.65	<0.5	0.7	1.0	3.5	6	<0.1	0.2	0.5	20	0.06	0.053
147206	Soil	0.6	16.1	9.6	80	<0.1	32.1	15.2	389	2.28	<0.5	0.8	1.7	3.0	5	<0.1	0.1	0.4	15	0.05	0.065
147207	Soil	0.8	27.4	23.0	69	0.1	28.9	19.6	606	3.62	8.2	0.8	0.9	9.7	4	<0.1	0.3	0.5	18	0.07	0.068
147208	Soil	0.5	12.9	6.4	37	<0.1	16.4	7.1	248	2.16	0.9	0.7	1.1	1.2	3	<0.1	<0.1	0.3	14	0.02	0.064
147209	Soil	0.7	54.0	10.9	74	<0.1	33.2	17.6	527	2.56	0.9	1.3	3.4	6.4	7	<0.1	<0.1	0.3	16	0.09	0.055
147210	Soil	0.7	28.9	10.0	83	<0.1	37.2	21.3	947	2.71	1.4	0.8	1.0	6.1	6	<0.1	<0.1	0.3	17	0.07	0.048
147211	Soil	1.1	22.5	15.2	73	<0.1	24.1	12.2	458	2.92	6.5	0.8	1.6	1.4	5	<0.1	0.4	0.6	25	0.04	0.057
147212	Soil	0.6	32.4	7.0	44	<0.1	19.4	10.1	338	2.20	0.8	0.9	4.3	1.0	3	<0.1	0.1	0.4	17	0.03	0.075
147213	Soil	1.7	75.9	5.2	82	<0.1	31.6	18.0	602	3.08	<0.5	1.0	1.5	3.4	3	<0.1	<0.1	0.6	17	0.06	0.068
147214	Soil	0.6	17.9	6.5	88	<0.1	31.2	15.8	599	4.98	0.8	0.8	1.2	4.3	2	<0.1	<0.1	0.3	19	0.05	0.064
147215	Soil	0.9	19.1	7.9	66	<0.1	26.4	12.6	388	3.54	2.8	0.6	1.5	2.7	2	<0.1	0.2	0.5	20	0.01	0.043
147216	Soil	0.5	25.5	4.8	73	<0.1	28.1	16.1	542	3.07	<0.5	0.8	0.8	4.5	2	<0.1	<0.1	0.5	17	0.04	0.045
147217	Soil	0.6	21.6	6.8	59	<0.1	26.4	13.1	442	2.88	0.8	1.0	0.6	1.5	3	<0.1	0.1	0.6	19	0.04	0.057
147218	Soil	0.4	26.6	6.8	81	<0.1	31.9	17.5	571	3.52	0.5	1.1	0.8	3.3	4	<0.1	0.1	0.5	21	0.03	0.044
147219	Soil	0.7	36.9	6.9	89	<0.1	37.4	18.8	639	3.60	1.0	1.7	1.1	8.8	6	<0.1	0.2	0.5	24	0.06	0.044
148162	Soil	0.5	35.6	8.6	72	<0.1	30.9	16.6	545	2.34	0.9	0.9	1.5	5.9	6	<0.1	<0.1	0.3	14	0.10	0.048
148163	Soil	0.9	44.8	5.4	61	<0.1	28.3	12.7	319	2.00	<0.5	0.8	2.3	2.1	3	<0.1	<0.1	0.4	11	0.05	0.052
148164	Soil	0.8	33.3	4.4	44	<0.1	15.4	8.0	277	2.77	1.7	0.6	<0.5	2.4	3	<0.1	0.1	0.5	20	<0.01	0.040
148165	Soil	1.0	37.1	4.7	44	<0.1	17.3	7.9	247	2.24	1.0	1.2	1.4	0.8	3	<0.1	0.1	0.5	19	0.01	0.045
148166	Soil	1.7	44.0	9.1	88	<0.1	34.5	17.9	813	4.05	1.2	1.3	7.8	7.4	5	<0.1	<0.1	1.2	20	0.08	0.075
148167	Soil	0.6	17.0	7.1	80	<0.1	29.9	15.9	604	3.68	1.8	0.7	1.0	3.0	3	<0.1	0.1	0.5	21	0.05	0.059
148168	Soil	0.2	1.6	2.5	6	<0.1	2.9	1.1	40	0.51	<0.5	0.2	1.1	0.2	2	<0.1	<0.1	<0.1	6	0.01	0.033
148169	Soil	0.6	15.7	5.3	60	<0.1	24.1	12.8	458	3.55	1.0	0.8	<0.5	7.5	3	<0.1	0.1	0.5	24	<0.01	0.026
148170	Soil	0.6	15.0	7.6	51	<0.1	20.3	11.0	417	2.66	1.2	0.8	<0.5	1.9	3	<0.1	<0.1	0.4	16	0.01	0.030
148171	Soil	1.0	23.4	27.8	81	<0.1	32.1	17.9	842	3.75	1.2	0.9	1.0	6.3	5	<0.1	<0.1	0.4	14	0.04	0.041



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147200	Soil	12	33	0.94	36	0.007	<1	1.95	0.008	0.03	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
147201	Soil	4	18	0.40	19	0.005	<1	1.08	0.012	0.02	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
147202	Soil	7	29	0.76	24	0.002	<1	1.68	0.006	0.01	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147203	Soil	7	25	0.68	31	0.003	<1	1.44	0.005	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
147204	Soil	8	23	0.57	33	0.003	<1	1.15	0.006	0.02	<0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
147205	Soil	9	25	0.62	22	0.006	<1	1.14	0.004	0.02	<0.1	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
147206	Soil	7	22	0.59	30	0.003	<1	1.13	0.005	0.01	<0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
147207	Soil	14	28	0.65	15	0.006	<1	1.50	0.003	0.02	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
147208	Soil	5	17	0.25	18	0.003	<1	0.75	0.005	0.01	<0.1	0.02	0.2	<0.1	<0.05	4	<0.5	<0.2
147209	Soil	8	25	0.64	30	0.003	<1	1.10	0.006	0.02	<0.1	<0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
147210	Soil	9	27	0.67	39	0.003	<1	1.15	0.007	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
147211	Soil	12	24	0.47	40	0.008	<1	1.44	0.004	0.03	0.2	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
147212	Soil	12	19	0.31	23	0.006	1	0.79	0.007	0.02	0.2	0.01	0.1	<0.1	<0.05	4	<0.5	<0.2
147213	Soil	15	28	0.67	25	0.008	<1	1.44	0.005	0.01	0.2	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
147214	Soil	11	33	0.77	13	0.005	4	1.99	0.006	0.01	<0.1	0.03	1.4	<0.1	<0.05	8	<0.5	<0.2
147215	Soil	17	25	0.53	27	0.011	<1	1.33	0.005	0.02	0.1	0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
147216	Soil	19	24	0.64	18	0.012	<1	1.30	0.004	0.01	0.2	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
147217	Soil	20	25	0.50	16	0.009	<1	1.12	0.005	0.02	0.1	0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
147218	Soil	19	29	0.69	18	0.015	<1	1.45	0.005	0.01	0.2	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
147219	Soil	20	28	0.65	22	0.029	<1	1.30	0.007	0.02	0.3	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
148162	Soil	7	20	0.60	27	0.003	<1	1.01	0.004	0.01	<0.1	<0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
148163	Soil	12	19	0.47	31	0.006	<1	0.94	0.005	0.01	<0.1	<0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
148164	Soil	15	17	0.34	45	0.006	<1	0.94	0.004	0.01	<0.1	0.01	0.6	<0.1	<0.05	6	<0.5	<0.2
148165	Soil	17	17	0.25	28	0.005	<1	0.80	0.005	0.02	<0.1	0.01	0.3	<0.1	<0.05	5	<0.5	<0.2
148166	Soil	24	30	0.77	19	0.008	3	1.85	0.006	0.02	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
148167	Soil	15	28	0.69	22	0.010	<1	1.55	0.005	0.02	0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
148168	Soil	10	6	0.04	11	0.004	<1	0.20	0.009	0.01	<0.1	0.01	<0.1	<0.1	<0.05	1	<0.5	<0.2
148169	Soil	26	26	0.52	21	0.017	<1	1.24	0.005	0.02	0.2	0.02	0.9	<0.1	<0.05	5	<0.5	<0.2
148170	Soil	16	20	0.40	18	0.014	<1	1.08	0.009	0.01	0.1	0.01	0.6	<0.1	0.05	4	0.8	<0.2
148171	Soil	16	26	0.73	20	0.010	<1	1.69	0.005	0.02	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2



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Project: Culvert
Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

WHI11001305.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
148172	Soil																							
148173	Soil																							
148174	Soil																							
148175	Soil																							
148176	Soil																							
148177	Soil																							
148178	Soil																							
148179	Soil																							
148180	Soil																							
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148193	Soil																							
148194	Soil																							
148195	Soil																							
148196	Soil																							
148197	Soil																							
148198	Soil																							
148199	Soil																							
148200	Soil																							
148201	Soil																							



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Project: Culvert
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148172	Soil	22	23	0.59	30	0.017	<1	1.41	0.007	0.02	<0.1	0.02	1.0	<0.1	<0.05	4	0.6	<0.2
148173	Soil	39	31	0.73	62	0.042	<1	1.44	0.008	0.03	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
148174	Soil	10	12	0.28	15	0.007	<1	0.94	0.014	0.02	<0.1	0.03	0.5	<0.1	<0.05	3	0.6	<0.2
148175	Soil	31	34	1.21	33	0.014	<1	2.33	0.007	0.03	<0.1	<0.01	1.7	<0.1	<0.05	7	<0.5	<0.2
148176	Soil	18	25	0.71	15	0.005	<1	1.65	0.004	0.01	<0.1	0.02	1.1	<0.1	<0.05	7	0.6	<0.2
148177	Soil	18	36	1.03	21	0.002	<1	2.19	0.006	0.02	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
148178	Soil	22	34	0.96	25	0.003	<1	2.14	0.008	0.02	<0.1	<0.01	1.5	<0.1	<0.05	6	0.7	<0.2
148179	Soil	27	31	0.85	16	0.004	<1	2.07	0.003	0.01	<0.1	0.01	1.5	<0.1	<0.05	6	0.6	<0.2
148180	Soil	34	31	0.87	22	0.004	<1	2.17	0.004	0.02	0.2	<0.01	1.5	<0.1	<0.05	6	0.5	<0.2
148181	Soil	27	30	0.83	21	0.003	<1	1.97	0.004	0.02	0.2	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
148182	Soil	17	20	0.67	38	0.004	<1	1.69	0.002	0.04	2.0	0.04	1.0	0.2	<0.05	5	0.6	<0.2
148183	Soil	37	21	0.66	47	0.004	<1	1.52	0.002	0.04	1.1	0.02	1.3	0.3	<0.05	4	0.7	<0.2
148184	Soil	5	16	0.42	116	0.048	<1	1.05	0.014	0.22	0.5	0.03	1.4	0.2	<0.05	5	<0.5	<0.2
148185	Soil	40	21	0.65	30	0.013	<1	1.34	0.005	0.07	0.5	<0.01	1.1	0.4	<0.05	4	0.7	<0.2
148186	Soil	37	25	0.68	49	0.019	<1	1.69	0.005	0.09	1.7	0.03	1.6	0.3	<0.05	5	<0.5	<0.2
148187	Soil	22	22	0.47	24	0.011	<1	1.30	0.004	0.03	1.1	<0.01	1.1	0.2	<0.05	5	<0.5	<0.2
148188	Soil	48	17	0.41	36	0.006	<1	1.08	0.006	0.04	0.7	0.02	0.9	0.3	<0.05	4	<0.5	<0.2
148189	Soil	41	18	0.43	35	0.008	<1	1.19	0.006	0.04	0.8	0.02	0.9	0.3	<0.05	4	<0.5	<0.2
148190	Soil	45	19	0.44	41	0.009	<1	1.17	0.008	0.04	0.8	0.02	0.9	0.4	<0.05	4	<0.5	<0.2
148191	Soil	42	26	0.57	38	0.012	1	1.41	0.005	0.05	1.0	0.02	1.0	0.3	<0.05	5	<0.5	<0.2
148192	Soil	35	21	0.60	20	0.014	<1	1.33	0.009	0.03	0.3	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
148193	Soil	44	33	0.94	25	0.018	<1	2.04	0.004	0.04	0.4	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
148194	Soil	43	36	1.14	20	0.002	<1	2.76	0.008	0.04	<0.1	0.01	1.6	<0.1	<0.05	8	<0.5	<0.2
148195	Soil	34	32	0.89	32	0.002	<1	2.27	0.005	0.03	<0.1	0.01	1.8	<0.1	<0.05	7	0.6	<0.2
148196	Soil	36	30	0.88	23	0.007	<1	2.16	0.006	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
148197	Soil	42	32	0.93	26	0.002	<1	2.23	0.006	0.03	<0.1	0.01	1.8	<0.1	<0.05	7	<0.5	<0.2
148198	Soil	16	18	0.46	21	0.007	<1	1.34	0.011	0.02	<0.1	0.05	0.8	<0.1	<0.05	4	<0.5	<0.2
148199	Soil	31	26	0.74	30	0.011	<1	1.80	0.004	0.02	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
148200	Soil	16	13	0.32	20	0.010	<1	1.13	0.012	0.03	0.1	0.04	0.6	<0.1	<0.05	3	<0.5	<0.2
148201	Soil	26	24	0.44	21	0.006	<1	1.58	0.005	0.03	0.3	0.10	1.1	<0.1	<0.05	6	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
147220	Soil	0.9	18.6	18.2	88	<0.1	32.7	18.9	912	4.39	0.8	0.8	<0.5	8.5	4	<0.1	<0.1	0.4	12	0.05	0.037
147221	Soil	1.4	40.7	8.3	96	<0.1	35.4	23.1	1569	4.41	0.7	1.2	<0.5	9.5	5	<0.1	<0.1	0.3	13	0.07	0.042
147222	Soil	1.8	28.6	86.8	67	<0.1	26.7	17.3	842	3.81	1.9	0.6	<0.5	6.1	3	<0.1	0.1	0.9	11	0.03	0.047
147223	Soil	0.8	19.2	9.6	60	<0.1	23.1	14.0	434	3.70	2.2	1.1	1.1	11.2	3	<0.1	0.2	0.5	15	0.01	0.040
147224	Soil	0.7	28.9	35.2	51	<0.1	17.9	11.4	388	3.89	15.1	1.5	0.6	11.4	3	<0.1	0.5	1.3	17	<0.01	0.038
147225	Soil	2.6	67.8	102.2	95	<0.1	35.9	29.2	1154	3.93	1.3	1.4	0.7	11.7	5	<0.1	<0.1	0.6	11	0.07	0.046
147226	Soil	2.5	102.5	20.8	95	<0.1	37.3	27.2	1910	4.26	1.4	2.8	0.6	13.8	6	<0.1	0.1	0.5	16	0.08	0.057
147227	Soil	1.6	62.9	8.0	86	<0.1	38.5	22.0	1091	4.04	<0.5	2.1	0.6	15.4	6	<0.1	<0.1	0.4	23	0.09	0.051
147228	Soil	7.7	37.5	13.7	92	<0.1	38.2	25.6	1124	3.75	0.6	1.9	0.9	11.2	4	<0.1	0.1	1.0	18	0.10	0.075
147229	Soil	2.3	59.1	43.2	98	<0.1	40.0	23.1	1902	3.85	1.0	1.8	1.0	12.3	4	<0.1	0.1	0.6	19	0.07	0.059
147230	Soil	0.8	22.8	13.0	83	<0.1	34.6	22.1	777	3.79	4.7	1.4	<0.5	13.6	4	<0.1	<0.1	0.5	20	0.06	0.044
147231	Soil	1.8	137.6	117.9	121	0.3	42.3	39.3	1963	4.88	15.6	4.6	6.5	29.8	4	<0.1	0.3	2.1	15	0.04	0.043
147232	Soil	0.7	27.8	26.9	84	<0.1	32.9	21.4	882	3.82	7.3	1.3	0.8	12.9	5	<0.1	<0.1	0.5	15	0.05	0.032
147253	Soil	0.3	6.1	6.3	8	<0.1	2.9	1.1	41	0.57	11.0	0.3	<0.5	0.3	4	<0.1	<0.1	0.2	7	0.02	0.025
147254	Soil	0.2	6.4	6.8	6	<0.1	1.9	1.3	45	0.32	0.7	0.3	0.6	<0.1	4	<0.1	<0.1	0.1	6	0.02	0.027
147255	Soil	0.2	7.1	8.7	6	<0.1	2.7	1.6	30	0.39	1.0	0.4	<0.5	0.1	4	<0.1	<0.1	<0.1	6	0.02	0.027
147256	Soil	0.9	37.3	56.5	91	<0.1	31.3	26.9	711	3.72	44.5	1.3	2.1	10.0	5	<0.1	0.7	0.8	17	0.02	0.051
147257	Soil	1.2	110.4	125.0	199	0.2	80.0	90.3	1747	4.65	86.4	3.4	31.2	11.4	8	0.1	1.0	1.9	20	0.04	0.083
147258	Soil	1.6	168.0	57.2	89	0.1	53.4	70.8	1814	4.62	23.8	3.2	1.5	32.8	8	<0.1	0.6	0.9	14	0.10	0.075
147259	Soil	0.5	59.0	14.0	70	<0.1	28.9	20.9	851	3.01	1.6	1.1	<0.5	11.0	4	<0.1	0.1	0.4	18	0.12	0.072
147260	Soil	0.1	81.9	4.7	86	<0.1	36.3	20.3	657	3.60	<0.5	1.2	1.2	12.4	5	<0.1	0.1	0.5	24	0.18	0.089
147261	Soil	0.4	58.9	9.2	82	<0.1	36.8	19.6	740	3.15	<0.5	1.2	0.8	7.6	4	<0.1	<0.1	0.4	20	0.14	0.077
147262	Soil	0.4	41.9	8.3	82	<0.1	36.1	20.5	719	3.44	0.6	1.1	1.3	7.7	3	<0.1	<0.1	0.4	22	0.13	0.078
147263	Soil	0.3	12.2	5.3	30	<0.1	14.5	7.5	177	1.81	0.7	0.7	0.6	0.4	4	<0.1	<0.1	0.3	17	0.03	0.044
147264	Soil	0.6	34.7	8.0	81	<0.1	31.5	15.5	495	3.66	2.3	1.0	1.2	10.0	8	<0.1	0.1	0.4	24	0.08	0.061
147265	Soil	0.8	14.7	6.2	60	<0.1	26.9	13.8	410	3.10	0.9	0.7	0.9	1.7	4	<0.1	<0.1	0.4	21	0.03	0.046
147266	Soil	0.6	18.7	9.9	66	<0.1	28.0	13.4	392	3.71	3.1	0.8	<0.5	3.4	5	<0.1	0.1	0.4	25	0.03	0.046
147267	Soil	0.7	7.4	5.8	17	<0.1	9.0	3.7	122	1.04	1.0	0.5	0.7	0.2	4	<0.1	<0.1	0.2	10	0.01	0.042
147268	Soil	1.4	41.4	6.1	74	<0.1	30.5	16.3	558	3.20	1.0	1.1	1.6	3.9	5	<0.1	<0.1	0.3	18	0.06	0.054
147269	Soil	0.7	42.6	7.3	65	0.1	29.8	14.4	363	2.55	<0.5	1.2	0.7	1.8	4	<0.1	<0.1	0.3	18	0.03	0.066



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147220	Soil	25	31	0.81	15	0.004	<1	2.12	0.003	0.02	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
147221	Soil	31	32	0.97	20	0.002	<1	2.27	0.003	0.02	<0.1	<0.01	1.5	<0.1	<0.05	7	<0.5	<0.2
147222	Soil	17	24	0.61	15	0.004	<1	1.56	0.003	0.02	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
147223	Soil	24	26	0.56	11	0.006	1	1.52	0.003	0.02	<0.1	0.03	0.9	<0.1	0.08	5	<0.5	<0.2
147224	Soil	24	24	0.45	15	0.005	<1	1.43	0.003	0.01	<0.1	0.02	0.9	<0.1	0.06	6	<0.5	<0.2
147225	Soil	40	31	0.80	20	0.002	<1	1.96	0.002	0.02	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
147226	Soil	44	34	0.95	61	0.005	<1	2.13	0.004	0.01	<0.1	0.02	1.7	<0.1	0.06	7	<0.5	<0.2
147227	Soil	36	31	0.80	69	0.036	1	1.56	0.006	0.02	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
147228	Soil	32	28	0.80	40	0.016	<1	1.63	0.004	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147229	Soil	41	34	0.79	32	0.014	<1	1.76	0.007	0.03	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
147230	Soil	36	28	0.70	25	0.022	<1	1.53	0.004	0.02	0.2	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147231	Soil	55	30	0.86	39	0.006	<1	1.93	0.003	0.03	0.4	0.02	1.5	0.1	<0.05	6	<0.5	<0.2
147232	Soil	53	27	0.76	29	0.009	<1	1.78	0.003	0.03	0.3	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
147253	Soil	2	5	0.04	9	0.010	<1	0.43	0.021	0.02	<0.1	0.03	<0.1	<0.1	<0.05	2	<0.5	<0.2
147254	Soil	1	3	0.02	12	0.009	<1	0.37	0.027	0.02	<0.1	0.03	<0.1	<0.1	<0.05	2	<0.5	<0.2
147255	Soil	2	4	0.02	10	0.008	<1	0.34	0.023	0.02	<0.1	0.02	<0.1	<0.1	<0.05	1	<0.5	<0.2
147256	Soil	24	23	0.45	21	0.007	<1	1.79	0.009	0.03	0.2	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
147257	Soil	27	26	0.56	31	0.006	<1	2.06	0.007	0.03	0.1	0.03	1.4	<0.1	0.09	6	0.5	<0.2
147258	Soil	100	31	0.82	31	0.002	<1	1.99	0.002	0.02	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
147259	Soil	23	25	0.59	24	0.018	<1	1.34	0.008	0.02	0.2	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
147260	Soil	22	32	0.78	41	0.033	<1	1.41	0.004	0.02	0.6	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
147261	Soil	23	33	0.78	31	0.015	<1	1.51	0.006	0.02	0.2	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
147262	Soil	24	32	0.77	22	0.019	<1	1.48	0.004	0.02	0.2	<0.01	1.1	<0.1	0.05	5	<0.5	<0.2
147263	Soil	9	17	0.23	14	0.008	<1	0.58	0.010	0.02	0.1	0.01	0.1	<0.1	0.07	3	<0.5	<0.2
147264	Soil	30	30	0.62	25	0.021	<1	1.34	0.004	0.02	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
147265	Soil	15	30	0.55	17	0.010	<1	1.13	0.005	0.02	0.1	<0.01	0.4	<0.1	0.06	4	<0.5	<0.2
147266	Soil	22	30	0.51	18	0.017	<1	1.25	0.004	0.02	<0.1	0.01	0.7	<0.1	0.06	4	<0.5	<0.2
147267	Soil	8	13	0.13	16	0.005	<1	0.49	0.009	0.01	<0.1	0.02	0.1	<0.1	<0.05	3	<0.5	<0.2
147268	Soil	20	28	0.59	37	0.009	<1	1.41	0.004	0.02	0.1	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
147269	Soil	14	28	0.56	54	0.005	<1	1.19	0.006	0.02	<0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2



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Project: Culvert

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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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
147270	Soil	1.1	46.0	5.5	40	0.1	21.0	7.9	284	1.66	<0.5	1.1	<0.5	1.1	4	<0.1	<0.1	0.2	12	0.02	0.049
147271	Soil	1.3	45.7	4.8	57	<0.1	25.3	12.6	372	3.02	1.1	1.2	0.9	6.6	3	<0.1	<0.1	0.5	23	0.02	0.028
147272	Soil	0.7	12.2	5.5	60	<0.1	25.8	12.8	462	3.51	1.8	0.8	<0.5	4.4	2	<0.1	<0.1	0.5	22	<0.01	0.042
147273	Soil	0.7	26.3	6.2	80	<0.1	33.8	17.1	585	3.99	1.5	0.9	1.7	9.5	2	<0.1	<0.1	0.5	24	0.02	0.033
147274	Soil	1.1	25.1	7.8	75	<0.1	31.4	15.9	563	4.23	3.1	0.9	<0.5	8.4	3	<0.1	0.1	0.6	28	0.03	0.050
147275	Soil	0.9	34.4	7.0	78	<0.1	33.3	17.7	610	3.99	2.1	1.1	<0.5	11.3	3	<0.1	0.1	0.7	26	0.04	0.047
147276	Soil	0.8	32.4	7.6	66	<0.1	27.0	17.2	616	3.56	2.2	1.0	0.8	3.3	4	<0.1	0.1	0.6	20	0.04	0.081
147277	Soil	0.8	15.6	8.8	62	<0.1	26.8	13.9	513	3.56	3.2	0.7	<0.5	7.0	3	<0.1	0.1	0.5	22	0.02	0.035
147278	Soil	1.0	22.5	7.5	60	<0.1	24.4	12.7	516	3.19	1.6	1.0	0.7	8.2	3	<0.1	0.1	0.5	24	<0.01	0.031
147279	Soil	0.7	31.2	10.4	96	<0.1	39.6	21.0	926	4.09	2.0	0.8	2.5	8.5	3	<0.1	<0.1	0.4	20	0.06	0.052
147280	Soil	1.6	38.7	18.9	92	<0.1	37.0	20.1	1231	4.22	1.2	1.0	<0.5	7.3	4	<0.1	<0.1	0.3	17	0.07	0.062
147281	Soil	1.5	92.7	29.8	99	<0.1	37.5	25.9	2161	4.66	2.8	1.8	<0.5	11.5	4	<0.1	<0.1	0.3	15	0.04	0.055
147282	Soil	1.9	28.1	15.6	94	<0.1	34.4	24.4	1223	4.71	<0.5	1.4	<0.5	12.9	4	<0.1	<0.1	0.4	13	0.05	0.047
147283	Soil	0.5	15.1	4.4	16	<0.1	5.9	2.7	93	1.37	5.5	0.3	<0.5	0.5	3	<0.1	<0.1	0.2	14	0.01	0.032
147284	Soil	0.8	26.7	31.8	73	0.1	33.5	22.3	478	4.34	8.7	0.6	1.5	9.2	3	<0.1	0.3	0.5	20	0.03	0.040
147285	Soil	0.6	9.8	10.4	58	<0.1	23.2	10.7	368	3.77	5.2	0.5	<0.5	1.2	4	<0.1	0.2	0.3	22	<0.01	0.046
147286	Soil	0.9	10.4	6.1	55	<0.1	21.4	10.0	381	3.08	1.9	0.5	<0.5	6.3	5	<0.1	<0.1	0.2	20	0.01	0.024
147287	Soil	0.7	12.3	9.8	33	<0.1	12.7	6.8	289	3.17	3.1	0.7	<0.5	1.1	4	<0.1	0.2	0.4	26	0.01	0.057
147288	Soil	0.5	11.1	5.1	34	<0.1	12.4	6.1	198	2.14	2.0	0.5	<0.5	0.7	4	<0.1	0.1	0.2	15	0.01	0.041
147289	Soil	0.9	15.9	9.5	60	<0.1	23.7	11.1	413	3.69	4.3	0.8	<0.5	5.4	4	<0.1	0.2	0.4	23	0.02	0.062
147290	Soil	1.2	32.4	12.9	58	0.2	23.7	13.1	415	3.30	1.9	1.0	<0.5	1.7	5	<0.1	<0.1	0.4	18	0.02	0.053
147291	Soil	0.9	24.5	17.4	57	<0.1	22.1	11.4	431	3.78	3.4	0.7	<0.5	5.3	4	<0.1	0.1	0.5	21	0.02	0.049
147292	Soil	0.4	92.8	8.2	53	0.2	24.0	11.1	371	2.10	0.6	0.9	<0.5	0.9	6	<0.1	<0.1	0.2	12	0.08	0.061
147293	Soil	0.6	24.8	10.4	53	0.2	21.6	10.0	346	2.52	1.6	0.6	0.7	2.3	3	<0.1	<0.1	0.4	15	0.03	0.050
147294	Soil	1.1	10.8	15.1	30	0.3	14.3	5.4	184	1.72	1.0	0.4	<0.5	0.5	3	<0.1	0.1	0.2	12	0.01	0.059
147295	Soil	0.6	19.9	9.4	47	<0.1	19.7	9.1	322	2.40	0.9	0.5	<0.5	1.3	2	<0.1	<0.1	0.4	12	0.01	0.036
147296	Soil	0.9	20.9	12.6	70	<0.1	26.0	13.2	520	3.62	3.1	0.7	<0.5	4.8	4	<0.1	<0.1	0.7	22	0.02	0.040
147297	Soil	0.4	9.6	7.5	38	0.1	15.4	7.0	259	1.88	1.8	0.4	<0.5	0.9	3	<0.1	<0.1	0.2	12	0.02	0.041
130330	Soil	1.4	68.5	91.8	136	0.2	41.8	77.1	2755	3.20	36.1	1.3	2.0	7.2	10	0.3	0.4	1.0	14	0.06	0.075
130331	Soil	1.6	113.6	91.8	191	0.3	63.9	80.1	3199	4.73	43.4	2.8	3.0	14.3	9	0.3	0.4	1.8	15	0.09	0.067



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147270	Soil	16	24	0.33	42	0.005	<1	0.79	0.007	0.02	<0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2
147271	Soil	24	26	0.48	22	0.017	3	1.10	0.003	0.01	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
147272	Soil	22	25	0.51	15	0.012	<1	1.32	0.005	0.01	0.1	0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
147273	Soil	27	32	0.67	24	0.021	<1	1.52	0.005	0.02	0.1	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
147274	Soil	28	31	0.62	20	0.026	<1	1.41	0.004	0.02	0.2	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
147275	Soil	36	29	0.64	20	0.023	<1	1.49	0.005	0.02	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
147276	Soil	20	25	0.56	21	0.011	<1	1.38	0.005	0.02	0.2	0.02	0.7	<0.1	0.06	5	<0.5	<0.2
147277	Soil	27	28	0.55	20	0.015	<1	1.30	0.005	0.02	0.1	0.01	0.8	<0.1	0.05	5	<0.5	<0.2
147278	Soil	41	25	0.47	20	0.014	<1	1.37	0.004	0.02	0.1	0.02	0.8	<0.1	0.06	6	<0.5	<0.2
147279	Soil	32	33	0.82	26	0.014	<1	1.81	0.003	0.02	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
147280	Soil	27	31	0.83	24	0.007	<1	2.03	0.003	0.01	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
147281	Soil	41	35	0.90	28	0.004	<1	2.36	0.003	0.01	<0.1	<0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
147282	Soil	40	31	0.89	19	0.002	<1	2.23	0.003	0.01	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
147283	Soil	17	9	0.09	15	0.009	<1	0.47	0.010	0.01	0.2	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
147284	Soil	18	32	0.63	29	0.006	<1	2.01	0.003	0.02	<0.1	0.03	1.6	<0.1	<0.05	5	0.5	<0.2
147285	Soil	20	26	0.45	26	0.010	<1	1.29	0.003	0.02	<0.1	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
147286	Soil	27	22	0.45	22	0.011	<1	1.17	0.004	0.02	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
147287	Soil	19	21	0.17	24	0.014	<1	0.81	0.004	0.02	<0.1	0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
147288	Soil	11	15	0.22	21	0.008	<1	0.86	0.008	0.01	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
147289	Soil	22	25	0.46	19	0.014	<1	1.23	0.004	0.02	0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
147290	Soil	21	24	0.43	21	0.009	<1	1.21	0.006	0.02	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
147291	Soil	23	25	0.43	19	0.013	<1	1.16	0.004	0.01	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
147292	Soil	14	19	0.46	37	0.005	<1	1.02	0.008	0.01	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
147293	Soil	17	20	0.47	18	0.007	<1	1.15	0.005	0.01	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
147294	Soil	13	19	0.17	15	0.003	<1	0.52	0.005	0.02	0.4	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
147295	Soil	14	17	0.36	16	0.007	<1	0.90	0.007	0.01	0.3	0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
147296	Soil	21	26	0.53	32	0.012	<1	1.34	0.003	0.04	0.2	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
147297	Soil	11	16	0.28	24	0.008	<1	1.00	0.008	0.03	0.1	0.02	0.9	<0.1	<0.05	3	<0.5	<0.2
130330	Soil	16	20	0.49	28	0.005	<1	1.60	0.008	0.03	0.4	0.06	1.3	<0.1	<0.05	4	0.7	<0.2
130331	Soil	28	33	0.90	27	0.002	<1	2.28	0.004	0.04	0.3	0.06	2.6	<0.1	<0.05	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
130332	Soil	1.1	94.2	83.1	136	0.4	31.7	24.4	1781	4.20	28.9	1.3	7.9	10.3	6	0.4	0.5	4.2	24	0.06	0.080
130333	Soil	0.8	43.8	40.6	81	0.3	23.6	15.5	867	4.64	21.8	2.5	34.0	9.1	9	0.1	0.6	1.3	19	0.02	0.097
130334	Soil	0.8	44.3	34.2	138	0.3	36.0	31.3	1929	4.36	14.9	2.1	30.3	12.1	10	0.6	0.5	1.4	17	0.07	0.066
130335	Soil	0.2	12.2	11.0	22	<0.1	6.3	4.1	163	0.75	5.8	0.3	1.8	0.9	5	0.1	<0.1	0.2	8	0.08	0.058
130336	Soil	0.8	38.6	35.7	125	0.1	35.7	26.4	863	4.64	37.7	1.2	3.2	9.4	8	0.2	0.4	0.9	17	0.06	0.074
130337	Soil	0.9	45.1	49.8	145	0.1	49.4	46.5	1312	5.40	58.8	2.0	7.5	12.1	10	0.1	0.5	1.0	17	0.05	0.075
130338	Soil	0.7	21.0	24.9	66	0.1	20.3	9.8	403	4.13	32.4	0.8	3.2	6.6	5	<0.1	0.3	0.5	19	0.02	0.071
130339	Soil	0.8	30.4	31.5	108	0.1	30.4	18.6	657	5.56	34.2	1.0	2.4	11.1	5	0.1	0.4	0.6	18	0.02	0.059
130340	Soil	0.4	18.1	16.9	40	<0.1	12.8	5.1	281	2.51	17.3	0.5	0.9	3.1	3	<0.1	0.2	0.4	13	0.02	0.043
130341	Soil	0.6	50.9	42.5	114	0.2	34.7	32.6	1082	4.22	35.2	1.6	4.8	9.6	6	0.1	0.3	1.1	16	0.03	0.057
130342	Soil	0.6	23.1	28.4	111	<0.1	36.7	20.5	503	4.63	35.4	1.0	<0.5	9.8	7	<0.1	0.2	0.5	18	0.10	0.054
130343	Soil	0.6	17.1	22.0	56	<0.1	16.0	8.9	330	3.67	25.9	0.5	1.0	2.9	4	<0.1	0.3	0.4	17	0.02	0.062
130344	Soil	0.5	15.6	17.6	46	<0.1	12.9	5.7	172	2.60	23.1	0.6	0.9	2.1	5	<0.1	0.2	0.3	14	0.03	0.045
130345	Soil	0.5	13.5	17.2	29	<0.1	7.2	3.1	98	1.24	15.9	0.6	2.1	0.9	8	<0.1	0.1	0.3	9	0.06	0.045
130346	Soil	1.0	47.5	59.9	126	0.2	37.5	36.2	1277	4.07	29.0	1.4	2.3	14.4	6	0.2	0.3	1.1	15	0.04	0.044
130347	Soil	0.7	46.1	49.9	88	0.1	28.5	17.0	418	2.77	39.9	1.5	5.3	4.6	11	<0.1	0.6	0.5	12	0.15	0.053
130348	Soil	1.6	88.0	71.5	203	0.2	68.8	53.5	954	4.85	119.5	25.8	6.7	17.9	10	<0.1	0.5	1.1	17	0.05	0.053
130349	Soil	1.5	35.5	36.3	81	<0.1	22.6	10.1	378	4.64	83.8	1.0	2.7	8.9	5	<0.1	0.6	0.8	24	0.02	0.048
130350	Soil	1.2	61.9	69.2	132	0.1	47.9	32.7	998	4.21	121.0	2.3	3.4	9.4	12	<0.1	0.5	1.1	14	0.09	0.053
130351	Soil	1.0	21.9	21.3	64	<0.1	21.7	11.9	468	2.37	58.5	0.9	5.4	3.1	3	<0.1	0.2	0.6	11	0.03	0.042
130352	Soil	0.4	22.9	6.3	77	<0.1	26.6	15.2	523	4.05	1.4	1.3	1.7	7.6	3	<0.1	0.1	0.4	18	0.03	0.071
130353	Soil	0.3	53.4	6.6	76	<0.1	33.7	15.8	338	3.70	0.8	1.6	6.6	6.4	5	<0.1	0.2	1.1	34	0.06	0.041
130354	Soil	0.3	16.8	4.5	67	<0.1	25.3	12.9	420	2.93	1.4	1.2	2.3	3.5	5	<0.1	<0.1	0.3	24	0.02	0.039
130355	Soil	1.0	16.3	22.3	59	<0.1	21.0	11.8	438	3.97	9.7	0.6	2.8	7.8	4	<0.1	0.2	0.5	23	0.03	0.045
130356	Soil	0.5	14.9	14.3	67	<0.1	24.8	14.0	431	4.05	5.5	0.6	0.9	5.9	4	<0.1	0.2	0.4	19	0.02	0.041
130357	Soil	0.6	25.4	21.3	81	<0.1	31.1	15.6	511	4.04	7.2	0.8	3.6	8.2	5	<0.1	0.2	0.5	19	0.06	0.047
130358	Soil	0.6	28.1	20.7	85	<0.1	35.3	18.4	539	4.49	7.9	0.8	1.7	10.4	6	<0.1	0.2	0.5	22	0.07	0.045
130359	Soil	0.7	36.1	17.3	95	<0.1	37.9	20.3	702	4.47	6.5	1.3	1.2	13.1	7	<0.1	0.2	0.5	23	0.12	0.072
130360	Soil	0.6	22.2	10.8	85	<0.1	32.8	15.5	516	3.84	3.8	0.9	1.0	7.9	6	<0.1	0.1	0.4	22	0.05	0.043
130361	Soil	0.6	19.1	12.9	79	<0.1	29.9	14.1	451	3.67	4.0	0.8	2.9	6.1	5	<0.1	0.1	0.4	20	0.05	0.048



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130332	Soil	22	28	0.64	31	0.009	<1	1.94	0.004	0.03	0.4	0.06	1.6	<0.1	<0.05	6	<0.5	<0.2
130333	Soil	23	24	0.48	26	0.004	<1	1.72	0.003	0.03	0.2	0.06	1.1	<0.1	<0.05	6	0.7	<0.2
130334	Soil	29	25	0.67	46	0.006	<1	1.78	0.003	0.03	0.6	0.07	2.1	<0.1	<0.05	5	<0.5	<0.2
130335	Soil	5	7	0.12	18	0.010	<1	0.91	0.018	0.02	<0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
130336	Soil	27	30	0.72	21	0.007	<1	2.18	0.005	0.03	0.9	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
130337	Soil	36	34	0.80	27	0.003	<1	2.34	0.004	0.03	0.4	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
130338	Soil	23	22	0.46	25	0.005	<1	1.65	0.005	0.02	0.2	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
130339	Soil	28	34	0.73	26	0.003	2	2.39	0.004	0.03	0.2	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
130340	Soil	16	15	0.27	18	0.007	<1	1.24	0.012	0.02	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
130341	Soil	26	27	0.68	40	0.003	<1	1.94	0.006	0.03	0.2	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
130342	Soil	29	35	0.88	24	0.002	<1	2.23	0.003	0.04	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
130343	Soil	24	26	0.54	26	0.004	<1	1.45	0.006	0.04	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130344	Soil	19	18	0.37	31	0.003	<1	1.22	0.009	0.04	0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
130345	Soil	16	10	0.13	42	0.004	<1	0.88	0.012	0.03	0.2	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
130346	Soil	31	31	0.80	22	0.003	<1	2.04	0.007	0.04	0.5	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
130347	Soil	14	18	0.39	19	0.008	<1	1.40	0.018	0.03	<0.1	0.02	1.0	<0.1	0.05	4	0.5	<0.2
130348	Soil	34	38	0.84	43	0.003	1	2.64	0.006	0.06	<0.1	0.04	2.2	<0.1	<0.05	7	0.9	<0.2
130349	Soil	30	25	0.43	28	0.005	1	1.52	0.005	0.04	0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
130350	Soil	16	27	0.65	40	0.004	<1	1.95	0.009	0.04	0.3	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
130351	Soil	13	21	0.41	12	0.006	<1	1.08	0.012	0.02	<0.1	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
130352	Soil	36	24	0.60	19	0.005	<1	1.68	0.008	0.02	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
130353	Soil	12	29	0.56	22	0.038	1	1.18	0.006	0.02	0.8	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
130354	Soil	25	25	0.54	16	0.009	<1	1.19	0.004	0.02	0.2	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
130355	Soil	21	28	0.57	20	0.012	<1	1.53	0.004	0.02	<0.1	0.02	1.1	<0.1	<0.05	5	0.5	<0.2
130356	Soil	21	26	0.56	19	0.012	<1	1.38	0.003	0.02	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
130357	Soil	23	29	0.74	23	0.010	<1	1.75	0.004	0.03	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
130358	Soil	27	32	0.76	25	0.013	<1	1.74	0.006	0.03	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
130359	Soil	32	33	0.85	22	0.024	<1	1.73	0.003	0.02	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
130360	Soil	22	29	0.69	21	0.017	<1	1.54	0.004	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130361	Soil	22	28	0.67	22	0.013	<1	1.57	0.004	0.02	<0.1	0.02	1.1	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
130362	Soil	0.8	16.4	13.0	76	<0.1	28.8	14.3	475	3.62	4.2	0.8	1.3	5.9	6	<0.1	<0.1	0.4	20	0.07	0.053
130363	Soil	0.8	20.0	16.6	78	<0.1	31.2	14.5	486	3.84	5.2	0.9	1.8	6.9	6	<0.1	0.1	0.4	22	0.07	0.064
130364	Soil	0.9	15.3	12.6	71	<0.1	27.2	16.1	574	3.32	1.0	0.7	<0.5	5.9	4	<0.1	<0.1	0.3	12	0.03	0.042
130365	Soil	1.1	20.7	21.2	62	<0.1	22.0	12.4	545	3.14	1.8	0.9	1.4	4.0	3	<0.1	<0.1	0.5	19	0.02	0.047
130366	Soil	1.2	11.7	16.9	33	<0.1	12.7	6.2	334	2.33	5.4	0.6	1.3	2.1	3	<0.1	0.1	0.5	22	0.02	0.037
130367	Soil	0.5	8.1	5.9	33	<0.1	13.1	6.4	238	2.59	3.0	0.6	1.7	7.2	5	<0.1	<0.1	0.3	20	0.01	0.019
130368	Soil	1.0	16.8	14.6	62	<0.1	23.3	12.3	553	3.42	2.5	0.8	0.8	7.6	3	<0.1	0.1	0.4	18	0.01	0.030
130369	Soil	1.1	33.0	22.6	86	<0.1	29.1	16.6	845	3.98	3.2	1.2	2.0	11.4	4	<0.1	<0.1	0.7	16	0.04	0.043
130370	Soil	1.0	39.3	20.3	93	<0.1	32.1	21.1	984	4.55	8.8	1.4	<0.5	10.7	4	<0.1	0.2	0.9	18	0.03	0.041
130371	Soil	0.9	23.6	16.6	74	<0.1	25.1	14.1	623	3.98	5.2	1.0	0.6	6.3	4	<0.1	0.1	0.5	17	0.02	0.048
130372	Soil	0.8	25.9	13.9	88	<0.1	29.5	17.5	862	4.11	6.2	1.1	1.7	10.5	4	<0.1	<0.1	0.5	15	0.04	0.041
130373	Soil	0.7	21.5	14.5	60	<0.1	20.6	11.7	513	3.35	4.4	0.8	0.6	7.8	4	<0.1	0.1	0.4	13	0.04	0.037
130374	Soil	0.8	17.0	11.0	49	<0.1	14.5	7.7	334	3.13	7.6	0.7	0.9	5.5	3	<0.1	0.2	0.4	16	0.02	0.035
130375	Soil	1.0	25.7	14.0	80	<0.1	25.9	16.3	780	3.80	8.3	0.9	<0.5	9.7	4	<0.1	0.2	0.4	15	0.04	0.046
130376	Soil	0.8	19.7	13.0	70	<0.1	21.6	10.8	426	3.50	9.6	0.9	<0.5	8.6	4	<0.1	0.2	0.5	18	0.02	0.032
130377	Soil	0.3	12.6	4.1	19	<0.1	5.4	2.7	57	1.05	3.5	0.3	<0.5	0.2	5	<0.1	<0.1	0.2	13	0.02	0.030
130378	Soil	0.4	12.0	6.5	47	<0.1	18.2	8.8	285	3.20	2.4	0.8	0.7	2.0	4	<0.1	0.1	0.3	26	0.01	0.038
130379	Soil	0.4	16.1	4.8	55	<0.1	22.2	11.3	273	3.94	1.8	1.2	1.3	6.0	3	<0.1	<0.1	0.3	27	0.01	0.034
130380	Soil	0.8	22.0	9.5	82	<0.1	29.0	15.3	502	3.83	3.8	1.1	1.9	5.7	5	<0.1	0.2	0.5	27	0.04	0.066
130381	Soil	0.4	11.8	6.1	52	<0.1	19.4	10.4	343	3.78	1.5	0.7	1.3	7.5	5	<0.1	0.1	0.4	21	<0.01	0.038
130382	Soil	2.3	29.7	24.2	84	<0.1	30.4	16.6	676	4.83	2.5	1.1	0.8	8.9	15	<0.1	0.1	0.4	21	0.01	0.042
130383	Soil	0.8	10.1	6.8	31	<0.1	10.3	5.2	182	2.11	2.0	0.5	0.7	2.0	3	<0.1	0.1	0.3	18	0.01	0.033
130384	Soil	0.5	8.3	4.3	23	<0.1	8.3	3.5	140	1.94	1.2	0.5	1.0	1.7	5	<0.1	<0.1	0.3	18	<0.01	0.034
130385	Soil	1.6	12.9	21.6	46	<0.1	15.8	10.0	520	3.24	1.2	0.7	<0.5	3.8	3	<0.1	0.1	0.5	15	<0.01	0.042
130386	Soil	0.4	6.1	4.6	68	<0.1	24.7	14.7	565	3.69	1.1	0.6	<0.5	7.3	3	<0.1	0.2	0.4	20	0.01	0.026
130387	Soil	0.6	9.7	9.1	58	<0.1	20.0	10.9	406	3.24	1.1	0.3	0.6	6.7	4	<0.1	<0.1	0.3	15	<0.01	0.023
130388	Soil	0.2	7.7	5.5	60	<0.1	21.0	10.9	300	2.97	<0.5	0.6	1.2	9.0	3	<0.1	<0.1	0.4	17	<0.01	0.027
130389	Soil	0.6	26.6	8.7	72	<0.1	28.2	14.2	494	3.39	0.6	1.0	0.9	10.3	5	<0.1	<0.1	0.4	18	0.02	0.031
149065	Soil	1.2	35.1	28.6	110	<0.1	30.8	24.9	2428	5.01	55.0	1.8	5.3	8.8	6	0.2	0.5	1.1	21	0.02	0.103
149066	Soil	0.4	11.3	20.6	134	<0.1	31.8	29.7	1923	4.26	92.8	0.9	1.1	16.5	4	0.5	0.3	1.5	14	0.06	0.069



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130362	Soil	24	28	0.68	20	0.014	<1	1.48	0.005	0.02	<0.1	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
130363	Soil	24	30	0.72	19	0.013	<1	1.55	0.005	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130364	Soil	30	25	0.68	13	0.008	<1	1.55	0.004	0.02	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
130365	Soil	21	23	0.55	21	0.011	<1	1.29	0.003	0.03	0.1	0.01	0.9	<0.1	<0.05	5	0.6	<0.2
130366	Soil	19	16	0.26	24	0.016	<1	0.80	0.004	0.03	0.1	0.01	0.5	0.1	<0.05	5	<0.5	<0.2
130367	Soil	23	18	0.27	23	0.017	<1	0.83	0.005	0.02	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
130368	Soil	27	25	0.62	20	0.012	<1	1.49	0.004	0.02	0.2	0.01	1.1	<0.1	<0.05	5	0.6	<0.2
130369	Soil	33	26	0.77	24	0.011	<1	1.84	0.002	0.03	0.3	0.01	1.5	0.1	<0.05	6	<0.5	<0.2
130370	Soil	33	25	0.74	34	0.013	<1	1.72	0.002	0.04	0.2	<0.01	1.5	0.2	<0.05	5	<0.5	0.2
130371	Soil	27	24	0.55	27	0.007	<1	1.40	0.003	0.02	0.2	0.01	1.1	0.1	<0.05	5	0.7	<0.2
130372	Soil	30	24	0.67	26	0.010	<1	1.67	0.002	0.02	0.2	<0.01	1.4	0.2	<0.05	5	<0.5	<0.2
130373	Soil	24	18	0.48	21	0.007	<1	1.42	0.008	0.02	0.2	0.01	1.1	0.1	<0.05	4	<0.5	<0.2
130374	Soil	20	15	0.34	17	0.011	1	1.02	0.007	0.02	0.2	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
130375	Soil	29	22	0.65	27	0.009	<1	1.65	0.004	0.03	0.4	0.01	1.3	0.2	<0.05	5	<0.5	<0.2
130376	Soil	22	22	0.60	27	0.016	<1	1.51	0.005	0.03	0.3	0.01	1.3	0.2	<0.05	5	<0.5	<0.2
130377	Soil	4	7	0.13	17	0.012	<1	0.65	0.018	0.03	0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
130378	Soil	30	20	0.37	23	0.019	<1	1.03	0.003	0.01	<0.1	0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
130379	Soil	38	26	0.42	16	0.034	<1	0.99	0.004	0.01	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
130380	Soil	29	30	0.65	21	0.018	1	1.53	0.005	0.03	0.2	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
130381	Soil	22	24	0.41	22	0.018	<1	1.17	0.004	0.01	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
130382	Soil	27	30	0.69	23	0.008	<1	1.81	0.005	0.01	<0.1	0.03	1.6	<0.1	<0.05	6	0.6	<0.2
130383	Soil	15	12	0.20	16	0.013	<1	0.70	0.006	0.01	0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
130384	Soil	22	15	0.09	17	0.015	<1	0.35	0.003	0.01	0.1	<0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
130385	Soil	19	19	0.40	16	0.009	<1	1.17	0.003	0.01	0.4	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
130386	Soil	12	24	0.49	26	0.016	<1	1.30	0.002	0.02	0.9	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
130387	Soil	19	18	0.49	21	0.008	<1	1.22	0.001	0.02	0.3	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
130388	Soil	25	19	0.50	16	0.006	<1	0.99	0.002	0.02	1.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
130389	Soil	26	24	0.62	26	0.012	<1	1.41	0.003	0.02	0.6	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
149065	Soil	23	32	0.72	25	0.007	<1	2.06	0.004	0.03	<0.1	0.01	1.6	<0.1	<0.05	7	0.5	<0.2
149066	Soil	26	29	0.77	17	0.002	<1	2.01	0.003	0.02	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

WHI11001305.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
149067	Soil																							
149068	Soil																							
149069	Soil																							
149070	Soil																							
149071	Soil																							
149072	Soil																							
149073	Soil																							
149074	Soil																							
149075	Soil																							
149076	Soil																							
149077	Soil																							
149078	Soil																							
149079	Soil																							
149080	Soil																							
149081	Soil																							
149082	Soil																							
149083	Soil																							
149084	Soil																							
149085	Soil																							
149086	Soil																							
149087	Soil																							
149088	Soil																							
149089	Soil																							
149090	Soil																							
149091	Soil																							
149092	Soil																							
149093	Soil																							
149094	Soil																							
149095	Soil																							
149096	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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
149067	Soil	27	28	0.64	14	0.004	<1	1.84	0.003	0.02	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
149068	Soil	20	29	0.72	13	0.003	<1	1.83	0.004	0.02	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
149069	Soil	27	30	0.81	14	<0.001	<1	2.19	0.008	0.02	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
149070	Soil	25	27	0.69	20	0.013	<1	1.64	0.003	0.02	0.1	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
149071	Soil	28	29	0.71	50	0.007	<1	2.12	0.003	0.03	0.1	0.03	1.5	<0.1	<0.05	6	0.5	<0.2
149072	Soil	26	22	0.53	25	0.013	<1	1.49	0.003	0.03	0.2	0.04	0.8	<0.1	<0.05	5	<0.5	<0.2
149073	Soil	20	24	0.39	23	0.010	<1	1.45	0.005	0.03	0.2	0.07	0.9	<0.1	<0.05	6	0.6	<0.2
149074	Soil	24	28	0.79	25	0.002	<1	2.05	0.006	0.03	<0.1	<0.01	1.7	<0.1	<0.05	6	0.5	<0.2
149075	Soil	14	22	0.57	22	0.003	<1	1.58	0.007	0.03	<0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
149076	Soil	16	18	0.39	18	0.010	<1	1.40	0.010	0.02	1.2	0.02	0.8	<0.1	<0.05	4	0.6	<0.2
149077	Soil	20	17	0.30	16	0.008	3	0.99	0.007	0.02	0.5	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
149078	Soil	24	27	0.62	30	0.005	<1	1.91	0.006	0.03	0.6	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
149079	Soil	<1	1	0.01	7	0.007	<1	0.12	0.020	0.02	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
149080	Soil	40	32	0.70	35	0.003	1	2.13	0.003	0.04	0.2	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
149081	Soil	35	34	0.92	19	0.002	<1	2.41	0.003	0.05	0.2	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
149082	Soil	28	31	0.78	20	0.006	<1	1.96	0.002	0.02	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
149083	Soil	5	6	0.07	8	0.010	<1	0.39	0.012	0.02	<0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
149084	Soil	5	6	0.10	11	0.006	<1	0.42	0.013	0.02	<0.1	<0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
149085	Soil	21	22	0.36	23	0.008	<1	1.46	0.004	0.02	0.3	0.04	0.9	<0.1	<0.05	6	0.6	<0.2
149086	Soil	27	27	0.62	27	0.008	<1	2.08	0.005	0.03	0.3	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
149087	Soil	24	26	0.52	22	0.020	<1	1.83	0.004	0.03	0.7	0.03	1.4	<0.1	<0.05	6	0.8	<0.2
149088	Soil	18	26	0.62	32	0.006	<1	2.13	0.004	0.03	3.6	0.03	1.4	<0.1	<0.05	6	0.5	<0.2
149089	Soil	3	4	0.06	8	0.009	<1	0.56	0.014	0.02	<0.1	0.03	0.2	<0.1	<0.05	2	<0.5	<0.2
149090	Soil	19	28	0.78	12	0.003	<1	1.91	0.003	0.01	1.7	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
149091	Soil	18	22	0.57	27	0.006	<1	1.71	0.010	0.03	2.0	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
149092	Soil	24	26	0.77	22	0.004	<1	1.89	0.005	0.02	0.4	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
149093	Soil	51	27	0.73	34	0.016	<1	1.53	0.003	0.03	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
149094	Soil	16	36	0.66	16	0.004	1	1.64	0.004	0.01	<0.1	0.02	1.0	<0.1	0.06	5	<0.5	<0.2
149095	Soil	26	33	0.62	16	0.003	<1	1.70	0.003	0.02	<0.1	0.02	1.1	<0.1	0.07	6	<0.5	<0.2
149096	Soil	19	33	0.60	15	0.004	<1	1.66	0.004	0.02	<0.1	0.02	1.0	<0.1	<0.05	6	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 ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
149097	Soil	0.3	22.5	11.4	75	<0.1	39.1	19.5	589	4.06	3.1	0.9	0.9	8.5	4	<0.1	0.1	0.4	29	0.13	0.071
149098	Soil	0.4	12.4	5.6	38	<0.1	16.6	8.1	259	1.75	1.4	0.5	1.4	0.7	3	<0.1	<0.1	0.2	15	0.03	0.052
149099	Soil	0.4	15.9	4.8	63	<0.1	30.6	14.0	367	3.25	1.1	0.6	1.3	1.9	3	<0.1	<0.1	0.3	26	0.04	0.036
149100	Soil	0.5	27.4	12.2	80	<0.1	33.3	18.1	506	3.64	4.2	0.7	1.6	8.3	5	<0.1	0.1	0.4	24	0.09	0.057
149101	Soil	0.4	29.5	8.2	88	<0.1	38.2	19.4	584	3.77	3.5	0.8	1.0	7.7	5	<0.1	0.1	0.4	26	0.08	0.054
149102	Soil	0.5	17.4	5.0	43	<0.1	19.0	8.5	199	2.52	1.3	0.8	1.1	1.0	6	<0.1	<0.1	0.4	24	0.01	0.048
149103	Soil	0.9	27.3	9.6	61	0.1	23.5	12.1	464	3.53	2.3	0.9	1.2	1.9	5	<0.1	0.2	0.6	27	0.03	0.121
149104	Soil	0.4	19.0	8.1	79	<0.1	36.5	19.0	486	3.13	1.3	0.6	1.3	5.3	4	<0.1	<0.1	0.3	20	0.07	0.054
149105	Soil	0.5	90.7	5.6	57	0.1	24.6	11.5	363	2.15	0.7	1.8	0.9	2.1	4	<0.1	<0.1	0.3	14	0.05	0.084
149106	Soil	0.4	72.0	3.4	57	<0.1	25.2	12.6	367	2.42	<0.5	1.2	4.4	2.1	3	<0.1	<0.1	0.2	17	0.03	0.055
149107	Soil	0.5	25.4	3.0	17	0.1	7.6	3.3	97	1.06	0.6	0.5	3.6	0.2	3	<0.1	<0.1	0.2	12	<0.01	0.056
149108	Soil	0.5	12.9	6.1	82	<0.1	34.6	17.1	550	3.67	2.0	0.7	1.3	6.6	3	<0.1	0.1	0.4	26	0.04	0.040
149109	Soil	0.2	19.6	1.8	7	<0.1	2.3	1.1	36	0.44	<0.5	0.3	0.6	0.2	4	<0.1	<0.1	0.1	7	0.02	0.028
149110	Soil	1.0	67.8	6.7	62	<0.1	25.2	18.4	867	2.90	1.1	1.3	0.9	1.9	3	<0.1	<0.1	0.3	18	0.04	0.094
149111	Soil	2.4	113.6	12.4	71	0.1	33.9	24.4	1242	4.38	4.7	1.9	1.6	5.2	3	<0.1	0.1	0.7	29	0.04	0.089
149112	Soil	0.9	14.7	6.5	28	<0.1	10.8	5.5	179	2.48	2.3	0.6	2.8	1.3	3	<0.1	0.1	0.4	26	0.01	0.040
149113	Soil	0.6	29.6	4.6	83	<0.1	35.8	18.7	661	3.76	1.1	1.3	1.2	7.4	3	<0.1	<0.1	0.4	26	0.03	0.035
149114	Soil	0.7	16.5	4.8	57	<0.1	24.5	13.1	468	2.58	0.9	0.8	1.4	2.0	3	<0.1	<0.1	0.4	21	0.02	0.040
149115	Soil	0.6	9.6	3.1	55	<0.1	26.3	12.2	305	2.62	<0.5	0.9	1.4	3.7	3	<0.1	<0.1	0.3	23	0.02	0.028
149116	Soil	2.0	13.8	3.9	63	<0.1	27.9	14.2	443	3.39	1.3	0.6	1.2	6.3	2	<0.1	0.1	0.4	27	0.02	0.030
149117	Soil	5.6	104.9	22.2	102	<0.1	37.6	23.3	1563	4.85	1.6	1.9	2.9	11.2	5	<0.1	0.1	0.3	20	0.05	0.054
149118	Soil	1.0	14.7	7.1	61	<0.1	24.0	12.7	752	3.45	1.0	0.9	<0.5	6.3	2	<0.1	<0.1	<0.1	15	0.01	0.065
149119	Soil	2.6	30.0	13.2	85	<0.1	34.6	20.3	766	4.54	2.0	1.1	1.3	10.5	5	<0.1	<0.1	0.5	12	0.06	0.047
149120	Soil	0.8	16.6	16.5	42	<0.1	16.6	8.0	297	2.97	6.8	0.5	0.9	1.7	3	<0.1	0.2	0.4	16	0.01	0.067
149121	Soil	0.8	29.3	21.6	64	<0.1	31.9	18.8	457	3.83	7.3	0.7	1.9	9.3	5	<0.1	0.2	0.4	22	0.05	0.045
149122	Soil	0.9	19.1	21.7	58	<0.1	23.3	12.9	497	3.25	7.0	0.7	1.4	2.0	6	<0.1	0.2	0.4	20	0.03	0.115
149123	Soil	0.7	19.0	8.7	57	<0.1	23.6	11.4	341	3.02	2.7	0.8	1.2	1.4	9	<0.1	0.1	0.3	24	0.01	0.060
149124	Soil	1.2	17.1	11.8	72	<0.1	28.5	13.6	486	5.15	5.0	0.7	1.2	6.6	5	<0.1	0.2	0.5	31	0.01	0.073
149125	Soil	0.8	22.4	6.4	76	<0.1	31.5	15.2	460	3.92	7.3	0.8	2.9	6.3	6	<0.1	0.1	0.4	27	0.02	0.034
149126	Soil	0.7	15.9	7.3	57	<0.1	22.8	11.0	350	3.28	3.2	0.7	3.0	1.6	5	<0.1	0.1	0.4	23	0.02	0.068



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
149097	Soil	25	37	0.67	18	0.041	1	1.41	0.007	0.02	0.2	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
149098	Soil	8	17	0.34	15	0.008	<1	0.92	0.010	0.01	0.1	<0.01	0.3	<0.1	<0.05	3	<0.5	<0.2
149099	Soil	14	29	0.56	20	0.021	<1	1.13	0.005	0.02	0.1	<0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
149100	Soil	20	32	0.73	23	0.021	<1	1.54	0.008	0.03	0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
149101	Soil	20	29	0.69	28	0.020	<1	1.55	0.007	0.03	0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
149102	Soil	17	22	0.27	23	0.012	<1	0.72	0.004	0.02	<0.1	0.02	0.3	<0.1	<0.05	4	0.6	<0.2
149103	Soil	15	26	0.46	25	0.008	<1	1.23	0.006	0.02	<0.1	0.02	0.5	<0.1	<0.05	6	<0.5	<0.2
149104	Soil	11	28	0.67	23	0.006	<1	1.28	0.005	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
149105	Soil	16	21	0.46	51	0.006	<1	1.12	0.008	0.02	0.2	<0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
149106	Soil	18	24	0.48	53	0.011	<1	1.07	0.005	0.02	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
149107	Soil	11	10	0.13	20	0.005	<1	0.42	0.010	0.01	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
149108	Soil	25	30	0.68	24	0.021	<1	1.62	0.004	0.02	0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
149109	Soil	5	3	0.04	21	0.006	<1	0.30	0.016	0.01	<0.1	0.01	0.1	<0.1	<0.05	2	<0.5	<0.2
149110	Soil	17	25	0.56	45	0.007	<1	1.30	0.005	0.02	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
149111	Soil	28	30	0.51	52	0.014	<1	1.46	0.006	0.02	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
149112	Soil	21	16	0.19	22	0.017	<1	0.67	0.007	0.02	0.1	<0.01	0.3	<0.1	<0.05	5	<0.5	<0.2
149113	Soil	38	32	0.68	24	0.027	<1	1.46	0.004	0.02	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
149114	Soil	26	21	0.46	20	0.018	<1	1.16	0.008	0.02	0.2	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
149115	Soil	33	22	0.41	20	0.029	<1	0.90	0.005	0.01	0.2	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
149116	Soil	36	23	0.49	22	0.035	<1	1.20	0.004	0.01	0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
149117	Soil	39	36	0.93	19	0.004	<1	2.38	0.002	0.01	0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
149118	Soil	15	26	0.61	15	0.005	<1	1.65	0.004	0.01	<0.1	0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
149119	Soil	29	32	0.83	15	0.004	<1	2.13	0.001	0.01	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
149120	Soil	14	19	0.33	25	0.008	<1	1.18	0.010	0.02	<0.1	0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
149121	Soil	27	30	0.55	26	0.011	<1	1.42	0.004	0.03	<0.1	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
149122	Soil	17	25	0.46	23	0.008	<1	1.21	0.007	0.03	<0.1	0.01	0.3	<0.1	<0.05	5	<0.5	<0.2
149123	Soil	21	26	0.37	34	0.012	<1	1.08	0.005	0.02	<0.1	0.02	0.4	<0.1	<0.05	5	<0.5	<0.2
149124	Soil	22	34	0.51	25	0.022	<1	1.41	0.004	0.02	0.1	0.01	1.0	<0.1	<0.05	7	<0.5	<0.2
149125	Soil	24	28	0.56	27	0.027	<1	1.38	0.005	0.02	<0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
149126	Soil	21	24	0.44	18	0.009	<1	1.09	0.005	0.02	<0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2



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Project: Culvert
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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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
149127	Soil					0.8	19.9	9.3	62	<0.1	26.6	12.9	425	3.18	3.1	0.6	0.7	7.1	5	<0.1	0.1	0.3	21	0.05	0.044
149128	Soil					0.6	22.9	12.0	82	<0.1	33.4	15.7	515	3.95	5.2	0.6	3.6	7.6	5	<0.1	0.2	0.5	25	0.07	0.056
149129	Soil					0.8	20.5	13.4	62	<0.1	24.6	12.0	386	3.11	3.3	0.6	<0.5	5.9	4	<0.1	<0.1	0.3	19	0.05	0.046
149130	Soil					0.5	12.2	8.7	42	<0.1	15.4	7.7	264	2.19	1.7	0.6	0.9	1.2	4	<0.1	<0.1	0.2	14	0.02	0.043
149131	Soil					0.4	25.2	12.5	72	0.1	29.5	14.6	489	3.44	2.5	1.0	1.4	5.5	5	<0.1	<0.1	0.3	21	0.07	0.056
149132	Soil					0.5	19.4	9.7	73	<0.1	26.5	13.6	506	3.68	3.7	0.8	2.0	6.4	3	<0.1	<0.1	0.4	25	0.02	0.030
149133	Soil					0.5	19.6	10.6	81	<0.1	29.9	15.2	572	4.05	5.4	0.8	1.3	11.8	4	<0.1	0.1	0.4	26	0.02	0.024
149134	Soil					0.3	10.9	5.9	40	<0.1	14.8	8.0	283	2.14	2.5	0.5	1.2	3.1	4	<0.1	<0.1	0.2	15	0.01	0.018
149135	Soil					0.3	3.9	3.8	10	<0.1	3.2	1.5	61	0.55	1.4	0.3	1.5	0.2	4	<0.1	<0.1	0.1	9	0.01	0.022
149136	Soil					1.0	21.2	11.9	65	<0.1	22.4	12.7	452	4.02	10.0	0.8	1.0	9.7	4	<0.1	0.1	0.5	27	0.02	0.031
149137	Soil					0.6	20.0	7.9	37	<0.1	10.7	7.0	267	2.40	6.4	0.7	0.7	2.5	6	<0.1	0.2	0.3	21	0.05	0.059
149138	Soil					0.7	17.0	12.3	76	<0.1	26.9	14.1	535	4.07	7.5	0.8	1.3	8.1	4	<0.1	0.2	0.5	29	0.02	0.041
149139	Soil					0.9	47.9	20.1	78	<0.1	25.1	16.2	905	4.07	2.8	1.4	1.3	6.8	5	0.1	0.3	0.5	21	0.01	0.053
149140	Soil					0.6	12.9	6.2	43	<0.1	14.1	8.5	315	2.94	2.9	0.5	1.2	3.4	3	<0.1	0.1	0.3	18	0.01	0.023
149141	Soil					0.7	33.2	14.7	94	<0.1	34.3	19.5	756	4.43	8.0	1.3	0.9	13.5	4	<0.1	0.2	0.5	18	0.04	0.040
149142	Soil					0.9	27.4	14.5	84	<0.1	32.9	18.3	800	4.03	7.4	1.0	1.0	11.7	4	<0.1	0.1	0.5	17	0.04	0.043
149143	Soil					0.5	25.3	19.6	71	<0.1	23.5	13.4	366	3.47	10.0	0.7	1.1	8.0	4	<0.1	0.1	0.3	35	0.02	0.029
149144	Soil					1.1	19.7	13.9	50	<0.1	14.0	6.8	194	2.98	7.1	0.7	0.6	4.1	4	<0.1	0.3	0.5	32	0.02	0.045
149145	Soil					0.9	138.2	16.8	104	<0.1	30.0	17.8	471	6.47	17.1	2.1	1.9	14.4	6	0.3	2.4	1.0	20	0.02	0.076
149146	Soil					1.4	58.0	77.5	81	<0.1	37.5	41.9	1420	4.15	7.6	1.3	1.2	15.5	5	<0.1	0.3	0.6	18	0.08	0.084
149147	Soil					0.4	43.7	5.7	78	<0.1	39.9	20.1	587	4.83	<0.5	1.1	1.0	16.0	5	<0.1	0.1	0.3	32	0.15	0.070
149148	Soil					0.4	51.9	10.9	83	<0.1	35.2	21.1	876	3.43	0.8	1.4	1.6	7.2	4	<0.1	0.1	0.3	24	0.11	0.060
149149	Soil					0.4	42.7	10.4	86	<0.1	37.6	19.7	766	3.63	0.6	1.2	2.9	5.9	4	<0.1	<0.1	0.3	24	0.07	0.053
149150	Soil					0.3	36.5	6.1	84	<0.1	37.1	20.8	802	3.91	<0.5	1.2	1.0	8.9	4	<0.1	<0.1	0.4	26	0.08	0.054
149151	Soil					0.3	24.1	5.3	72	<0.1	32.0	16.0	568	3.30	<0.5	0.9	1.0	3.0	3	<0.1	<0.1	0.3	22	0.05	0.051
149152	Soil					1.0	28.1	24.2	48	0.1	17.7	15.0	1617	3.37	4.8	1.1	<0.5	1.4	5	<0.1	0.2	0.5	19	0.02	0.152
149153	Soil					0.9	17.1	17.7	51	<0.1	18.1	10.8	658	4.64	4.6	1.0	1.3	5.0	4	<0.1	0.2	0.5	24	0.01	0.132
149154	Soil					0.7	16.7	11.1	72	0.1	30.2	18.1	652	4.87	4.2	0.9	2.1	11.9	4	<0.1	0.1	0.4	25	0.02	0.063
149155	Soil					0.4	17.8	4.8	74	<0.1	29.0	15.4	488	3.59	0.6	1.0	4.4	11.9	9	<0.1	<0.1	0.4	24	0.05	0.056
149156	Soil					0.4	40.1	3.0	92	<0.1	34.5	16.7	519	4.14	<0.5	1.8	<0.5	13.7	12	<0.1	<0.1	0.3	27	0.07	0.056



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
149127	Soil	26	26	0.54	23	0.016	<1	1.30	0.006	0.02	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
149128	Soil	26	30	0.73	20	0.018	<1	1.61	0.005	0.03	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
149129	Soil	24	26	0.59	23	0.013	<1	1.36	0.004	0.02	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
149130	Soil	17	17	0.37	14	0.008	<1	0.87	0.008	0.02	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
149131	Soil	24	28	0.70	25	0.015	<1	1.58	0.005	0.02	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
149132	Soil	27	28	0.67	33	0.023	<1	1.67	0.005	0.04	0.3	0.01	1.2	0.1	<0.05	6	<0.5	<0.2
149133	Soil	28	32	0.75	41	0.032	<1	1.93	0.004	0.05	0.1	0.02	1.5	0.2	<0.05	6	<0.5	<0.2
149134	Soil	14	15	0.34	20	0.017	<1	0.94	0.013	0.03	0.1	0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
149135	Soil	11	6	0.07	15	0.008	<1	0.33	0.014	0.03	<0.1	0.02	0.2	0.1	<0.05	2	<0.5	<0.2
149136	Soil	21	27	0.58	47	0.035	<1	1.80	0.006	0.09	0.5	0.02	1.7	0.2	<0.05	6	<0.5	<0.2
149137	Soil	13	13	0.20	24	0.020	<1	0.84	0.012	0.04	0.4	0.02	0.7	0.1	<0.05	4	<0.5	<0.2
149138	Soil	20	31	0.70	76	0.044	<1	1.97	0.004	0.20	0.4	0.02	1.8	0.3	<0.05	7	<0.5	<0.2
149139	Soil	28	17	0.14	33	0.007	<1	0.81	0.005	0.04	0.7	0.04	1.8	0.3	<0.05	4	<0.5	<0.2
149140	Soil	15	13	0.27	16	0.017	<1	0.84	0.009	0.03	0.3	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
149141	Soil	34	28	0.78	24	0.013	<1	1.87	0.003	0.03	0.2	0.01	1.5	0.2	<0.05	5	<0.5	<0.2
149142	Soil	31	29	0.73	27	0.012	<1	1.78	0.003	0.03	0.3	0.02	1.4	0.2	<0.05	5	<0.5	<0.2
149143	Soil	14	32	0.64	126	0.058	<1	1.79	0.010	0.30	6.7	0.01	2.7	0.6	<0.05	6	<0.5	<0.2
149144	Soil	14	16	0.23	23	0.028	<1	0.92	0.006	0.03	0.4	0.03	0.8	0.2	<0.05	7	<0.5	<0.2
149145	Soil	23	24	0.30	39	0.006	<1	1.44	0.005	0.05	0.8	0.03	2.0	1.1	<0.05	5	<0.5	<0.2
149146	Soil	33	33	0.78	19	0.008	<1	1.96	0.009	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
149147	Soil	25	39	0.76	32	0.067	<1	1.28	0.006	0.03	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
149148	Soil	22	30	0.82	27	0.026	<1	1.52	0.007	0.02	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
149149	Soil	18	32	0.85	30	0.019	<1	1.63	0.007	0.02	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
149150	Soil	19	35	0.90	22	0.025	<1	1.70	0.005	0.02	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
149151	Soil	14	28	0.75	26	0.019	3	1.49	0.007	0.01	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
149152	Soil	13	22	0.32	43	0.005	<1	1.29	0.007	0.03	0.1	0.04	0.4	<0.1	0.07	5	<0.5	<0.2
149153	Soil	19	28	0.35	26	0.012	<1	1.38	0.005	0.02	0.1	0.05	0.8	<0.1	<0.05	6	<0.5	<0.2
149154	Soil	27	32	0.56	21	0.023	<1	1.48	0.006	0.02	0.2	0.04	1.1	<0.1	<0.05	5	<0.5	<0.2
149155	Soil	33	27	0.53	33	0.030	<1	1.16	0.005	0.01	0.2	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
149156	Soil	41	29	0.49	28	0.030	<1	1.10	0.003	0.01	0.2	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
149157	Soil	0.3	16.8	4.6	60	<0.1	23.4	11.2	347	2.76	0.5	1.0	1.0	2.7	8	<0.1	<0.1	0.3	21	0.02	0.036
149158	Soil	0.7	28.0	14.6	92	<0.1	39.6	20.1	634	4.01	3.4	1.0	3.3	10.3	10	<0.1	0.2	0.5	23	0.09	0.058
149159	Soil	0.2	25.3	5.3	53	<0.1	21.1	11.1	388	2.03	0.5	0.7	1.5	3.5	11	<0.1	<0.1	0.3	14	0.06	0.060
149160	Soil	0.4	85.6	9.1	59	<0.1	28.6	15.2	466	2.30	1.3	1.2	2.7	3.5	18	<0.1	<0.1	0.7	13	0.20	0.065
149161	Soil	0.3	39.0	6.8	79	<0.1	33.2	17.3	561	3.26	0.8	1.2	1.1	9.8	11	<0.1	<0.1	0.4	24	0.09	0.040
149162	Soil	0.5	34.4	9.2	94	<0.1	41.3	21.5	628	3.63	2.2	1.2	2.3	11.3	9	<0.1	0.1	0.4	22	0.15	0.066
149163	Soil	0.9	24.3	12.4	49	<0.1	19.6	9.5	322	2.70	4.9	0.8	1.8	2.5	4	<0.1	0.1	0.5	19	0.03	0.051
149164	Soil	0.6	20.3	14.8	77	<0.1	30.5	14.3	439	3.72	5.6	0.7	1.1	8.4	6	<0.1	0.1	0.4	22	0.08	0.061
130390	Soil	0.6	26.6	9.2	70	<0.1	26.6	14.4	470	3.44	0.7	1.0	2.0	11.3	5	<0.1	<0.1	0.4	19	0.02	0.034
130391	Soil	1.1	14.2	13.6	41	0.3	13.0	7.7	300	3.28	1.4	0.5	<0.5	6.5	3	<0.1	0.2	0.5	21	<0.01	0.048
130392	Soil	0.8	18.6	8.6	41	0.1	14.3	8.4	308	2.94	1.5	0.6	<0.5	3.5	4	<0.1	0.1	0.5	18	0.02	0.045
130393	Soil	0.6	15.3	5.4	55	<0.1	20.8	11.0	359	3.19	0.8	0.8	<0.5	5.8	2	<0.1	0.1	0.5	16	<0.01	0.033
130394	Soil	0.4	18.9	10.6	75	<0.1	28.1	15.3	493	3.49	1.3	0.9	<0.5	11.7	5	<0.1	0.1	0.4	17	0.04	0.038
130395	Soil	1.3	31.2	17.8	73	0.1	24.1	16.2	994	3.64	4.4	1.2	<0.5	6.2	5	0.1	0.6	0.8	15	<0.01	0.041
130396	Soil	0.7	47.2	10.2	49	0.3	13.0	8.2	258	3.75	0.9	1.4	14.0	13.2	8	<0.1	2.1	0.7	12	<0.01	0.072
130397	Soil	0.2	11.9	4.7	40	<0.1	16.4	10.4	261	2.48	0.7	0.7	<0.5	1.1	5	<0.1	<0.1	0.3	20	0.03	0.038
130398	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.
130399	Soil	0.4	29.4	4.4	73	<0.1	27.2	15.8	786	3.01	1.0	0.7	<0.5	2.6	8	<0.1	<0.1	0.3	16	0.03	0.060
130400	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.
130401	Soil	0.4	24.0	5.8	73	<0.1	26.9	14.4	505	3.75	1.1	0.8	<0.5	3.6	28	<0.1	0.1	0.3	25	0.03	0.043
130402	Soil	0.7	56.0	6.6	85	<0.1	36.2	19.6	553	3.99	0.7	1.8	<0.5	13.0	8	<0.1	<0.1	0.5	29	0.06	0.044
130403	Soil	0.5	18.1	4.3	55	<0.1	23.3	12.5	419	3.45	1.0	0.9	<0.5	3.8	13	<0.1	<0.1	0.3	21	<0.01	0.029
130404	Soil	0.3	13.9	4.1	48	<0.1	16.8	8.9	281	2.94	<0.5	1.3	<0.5	6.0	19	<0.1	<0.1	0.2	24	0.02	0.033
130405	Soil	0.4	31.1	8.6	99	<0.1	45.1	24.0	609	4.47	0.5	1.3	<0.5	11.3	14	<0.1	<0.1	0.8	32	0.05	0.052
130406	Soil	0.4	23.6	5.3	56	<0.1	20.0	10.8	374	3.07	1.4	1.5	<0.5	4.9	8	<0.1	0.1	1.5	20	0.02	0.060
130407	Soil	0.6	23.9	6.0	80	<0.1	31.8	18.5	630	4.28	2.2	1.0	<0.5	9.8	9	<0.1	0.1	0.4	25	0.04	0.047
130408	Soil	0.3	15.6	4.7	42	<0.1	15.3	9.2	287	2.32	0.9	0.9	<0.5	1.6	8	<0.1	<0.1	0.3	17	0.01	0.038
130409	Soil	0.4	34.2	6.4	109	<0.1	44.1	22.3	955	4.95	0.6	1.2	<0.5	14.1	14	<0.1	<0.1	0.4	24	0.02	0.037



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CERTIFICATE OF ANALYSIS

WHI11001305.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
149157	Soil	26	22	0.39	38	0.019	<1	0.87	0.007	0.02	0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
149158	Soil	24	32	0.69	35	0.019	<1	1.46	0.004	0.02	0.2	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
149159	Soil	11	19	0.45	58	0.008	<1	1.02	0.009	0.02	0.1	0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
149160	Soil	10	19	0.54	71	0.006	<1	1.13	0.010	0.03	0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
149161	Soil	25	28	0.63	56	0.020	<1	1.31	0.008	0.03	0.2	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
149162	Soil	20	27	0.73	23	0.017	<1	1.44	0.002	0.02	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
149163	Soil	21	20	0.40	16	0.009	<1	0.99	0.007	0.02	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
149164	Soil	21	27	0.64	16	0.014	<1	1.46	0.005	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130390	Soil	28	23	0.58	30	0.013	<1	1.48	0.005	0.02	0.5	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
130391	Soil	19	16	0.25	14	0.015	2	0.79	0.009	0.02	0.5	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
130392	Soil	14	15	0.29	20	0.016	<1	0.91	0.009	0.02	0.7	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
130393	Soil	17	18	0.37	28	0.012	<1	0.99	0.004	0.04	0.7	0.01	1.3	0.2	<0.05	4	<0.5	<0.2
130394	Soil	28	21	0.54	27	0.011	<1	1.25	0.004	0.03	0.5	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
130395	Soil	27	15	0.25	25	0.006	<1	0.85	0.005	0.02	1.0	0.01	1.6	0.2	<0.05	3	<0.5	<0.2
130396	Soil	43	14	0.25	34	0.004	<1	0.81	0.003	0.03	0.7	0.03	1.5	0.8	<0.05	3	<0.5	<0.2
130397	Soil	8	17	0.30	16	0.026	<1	0.68	0.011	0.02	0.1	0.02	0.9	<0.1	<0.05	3	<0.5	<0.2
130398	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.
130399	Soil	12	25	0.71	28	0.005	<1	1.57	0.008	0.02	<0.1	0.01	2.0	<0.1	<0.05	5	0.6	<0.2
130400	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.
130401	Soil	33	29	0.60	82	0.018	<1	1.38	0.005	0.02	0.2	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
130402	Soil	15	31	0.64	23	0.048	<1	1.15	0.006	0.02	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
130403	Soil	28	25	0.41	54	0.027	<1	1.05	0.009	0.02	0.2	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
130404	Soil	37	25	0.22	88	0.018	<1	0.76	0.006	0.02	0.4	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
130405	Soil	43	34	0.54	59	0.040	<1	1.25	0.008	0.03	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
130406	Soil	31	21	0.41	36	0.012	<1	1.17	0.006	0.02	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
130407	Soil	33	31	0.62	37	0.031	<1	1.46	0.006	0.03	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
130408	Soil	23	16	0.24	31	0.013	<1	0.81	0.011	0.02	0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
130409	Soil	39	34	0.68	59	0.015	<1	1.98	0.018	0.04	0.2	0.03	5.9	<0.1	<0.05	6	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
147202	Soil	1.5	43.7	29.8	90	0.1	36.4	18.8	659	3.12	<0.5	2.0	2.1	6.5	4	<0.1	0.2	0.7	18	0.10	0.073
REP 147202	QC	1.5	44.3	29.8	89	0.1	36.0	18.3	657	2.99	0.6	2.0	1.6	6.6	4	<0.1	0.2	0.7	17	0.11	0.067
147211	Soil	1.1	22.5	15.2	73	<0.1	24.1	12.2	458	2.92	6.5	0.8	1.6	1.4	5	<0.1	0.4	0.6	25	0.04	0.057
REP 147211	QC	1.2	21.8	15.0	72	<0.1	22.6	11.6	451	2.85	6.7	0.7	3.8	1.2	5	<0.1	0.4	0.5	24	0.04	0.059
148179	Soil	3.7	54.4	27.0	92	<0.1	35.5	21.4	1108	4.44	2.0	1.2	<0.5	11.2	5	<0.1	<0.1	0.4	13	0.06	0.040
REP 148179	QC	3.6	55.1	27.5	90	<0.1	34.8	20.6	1094	4.38	2.2	1.2	0.9	11.7	5	<0.1	<0.1	0.4	12	0.06	0.040
148196	Soil	0.6	50.8	14.7	115	<0.1	34.2	27.9	1328	4.23	26.4	1.3	<0.5	13.6	3	<0.1	0.3	0.7	18	0.02	0.059
REP 148196	QC	0.6	51.5	14.8	116	<0.1	35.0	27.3	1323	4.22	27.3	1.3	1.8	13.7	3	<0.1	0.3	0.7	16	0.02	0.058
147259	Soil	0.5	59.0	14.0	70	<0.1	28.9	20.9	851	3.01	1.6	1.1	<0.5	11.0	4	<0.1	0.1	0.4	18	0.12	0.072
REP 147259	QC	0.5	59.2	14.0	69	<0.1	29.6	21.2	840	3.00	1.7	1.1	0.6	11.1	4	<0.1	0.1	0.5	19	0.12	0.076
147275	Soil	0.9	34.4	7.0	78	<0.1	33.3	17.7	610	3.99	2.1	1.1	<0.5	11.3	3	<0.1	0.1	0.7	26	0.04	0.047
REP 147275	QC	1.0	35.0	7.3	80	<0.1	34.0	18.1	641	4.16	2.3	1.2	0.8	11.8	3	<0.1	0.1	0.7	26	0.04	0.046
147295	Soil	0.6	19.9	9.4	47	<0.1	19.7	9.1	322	2.40	0.9	0.5	<0.5	1.3	2	<0.1	<0.1	0.4	12	0.01	0.036
REP 147295	QC	0.6	21.7	9.5	49	<0.1	19.0	9.3	316	2.51	1.4	0.5	<0.5	1.3	3	<0.1	<0.1	0.3	11	0.01	0.035
130332	Soil	1.1	94.2	83.1	136	0.4	31.7	24.4	1781	4.20	28.9	1.3	7.9	10.3	6	0.4	0.5	4.2	24	0.06	0.080
REP 130332	QC	1.0	94.4	79.9	141	0.4	32.0	25.2	1787	4.14	27.6	1.3	7.8	9.9	6	0.3	0.5	4.2	23	0.06	0.083
130359	Soil	0.7	36.1	17.3	95	<0.1	37.9	20.3	702	4.47	6.5	1.3	1.2	13.1	7	<0.1	0.2	0.5	23	0.12	0.072
REP 130359	QC	0.6	34.5	17.4	89	<0.1	36.4	20.3	685	4.36	6.0	1.2	1.8	12.5	6	<0.1	0.2	0.5	21	0.12	0.064
130367	Soil	0.5	8.1	5.9	33	<0.1	13.1	6.4	238	2.59	3.0	0.6	1.7	7.2	5	<0.1	<0.1	0.3	20	0.01	0.019
REP 130367	QC	0.5	8.4	6.2	34	<0.1	13.1	6.5	248	2.64	2.8	0.6	0.6	6.9	5	<0.1	<0.1	0.3	20	0.01	0.020
130389	Soil	0.6	26.6	8.7	72	<0.1	28.2	14.2	494	3.39	0.6	1.0	0.9	10.3	5	<0.1	<0.1	0.4	18	0.02	0.031
REP 130389	QC	0.5	27.0	9.1	72	<0.1	27.9	14.4	492	3.36	0.8	1.0	1.0	10.1	4	<0.1	<0.1	0.4	18	0.02	0.029
149093	Soil	1.7	115.7	72.9	76	0.1	34.5	44.9	2599	4.21	5.2	5.3	2.7	28.8	11	<0.1	0.8	0.9	16	0.10	0.092
REP 149093	QC	1.6	122.5	73.3	83	0.1	35.5	47.3	2735	4.37	5.4	5.3	2.7	29.4	12	<0.1	0.8	1.1	16	0.11	0.098
149104	Soil	0.4	19.0	8.1	79	<0.1	36.5	19.0	486	3.13	1.3	0.6	1.3	5.3	4	<0.1	<0.1	0.3	20	0.07	0.054
REP 149104	QC	0.5	19.4	8.2	80	<0.1	36.5	19.6	486	3.42	1.9	0.5	0.7	5.8	5	<0.1	<0.1	0.3	26	0.07	0.052
149118	Soil	1.0	14.7	7.1	61	<0.1	24.0	12.7	752	3.45	1.0	0.9	<0.5	6.3	2	<0.1	<0.1	<0.1	15	0.01	0.065
REP 149118	QC	1.0	15.0	7.6	62	<0.1	24.7	12.8	744	3.46	1.1	0.9	<0.5	6.1	3	<0.1	<0.1	0.1	12	0.01	0.063



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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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
147202	Soil	7	29	0.76	24	0.002	<1	1.68	0.006	0.01	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
REP 147202	QC	6	28	0.72	23	0.002	<1	1.62	0.005	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147211	Soil	12	24	0.47	40	0.008	<1	1.44	0.004	0.03	0.2	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
REP 147211	QC	11	23	0.43	40	0.008	<1	1.34	0.004	0.03	0.2	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2
148179	Soil	27	31	0.85	16	0.004	<1	2.07	0.003	0.01	<0.1	0.01	1.5	<0.1	<0.05	6	0.6	<0.2
REP 148179	QC	27	30	0.86	20	0.004	<1	2.13	0.003	0.02	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
148196	Soil	36	30	0.88	23	0.007	<1	2.16	0.006	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
REP 148196	QC	34	30	0.87	21	0.002	<1	2.16	0.005	0.03	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
147259	Soil	23	25	0.59	24	0.018	<1	1.34	0.008	0.02	0.2	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
REP 147259	QC	24	25	0.60	25	0.019	<1	1.34	0.009	0.02	0.2	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
147275	Soil	36	29	0.64	20	0.023	<1	1.49	0.005	0.02	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
REP 147275	QC	38	31	0.66	21	0.025	<1	1.48	0.004	0.02	0.2	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
147295	Soil	14	17	0.36	16	0.007	<1	0.90	0.007	0.01	0.3	0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
REP 147295	QC	14	17	0.38	18	0.007	<1	0.93	0.007	0.02	0.3	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
130332	Soil	22	28	0.64	31	0.009	<1	1.94	0.004	0.03	0.4	0.06	1.6	<0.1	<0.05	6	<0.5	<0.2
REP 130332	QC	23	27	0.67	31	0.011	<1	1.93	0.005	0.03	0.4	0.07	1.5	<0.1	<0.05	6	<0.5	<0.2
130359	Soil	32	33	0.85	22	0.024	<1	1.73	0.003	0.02	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
REP 130359	QC	31	32	0.80	20	0.022	<1	1.67	0.003	0.02	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
130367	Soil	23	18	0.27	23	0.017	<1	0.83	0.005	0.02	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
REP 130367	QC	24	18	0.27	23	0.018	<1	0.85	0.005	0.02	0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
130389	Soil	26	24	0.62	26	0.012	<1	1.41	0.003	0.02	0.6	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
REP 130389	QC	25	24	0.60	26	0.011	<1	1.41	0.002	0.02	0.5	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
149093	Soil	51	27	0.73	34	0.016	<1	1.53	0.003	0.03	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
REP 149093	QC	54	28	0.77	34	0.017	1	1.63	0.003	0.02	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
149104	Soil	11	28	0.67	23	0.006	<1	1.28	0.005	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
REP 149104	QC	12	30	0.70	25	0.008	<1	1.30	0.005	0.02	<0.1	0.02	1.0	<0.1	<0.05	4	0.6	<0.2
149118	Soil	15	26	0.61	15	0.005	<1	1.65	0.004	0.01	<0.1	0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
REP 149118	QC	15	26	0.62	14	0.005	1	1.77	0.004	0.01	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2



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203 - 680 Third Ave.

Val D'Or QC J9P 1S5 Canada

Project:

Culvert

Report Date:

October 17, 2011

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Part 1

QUALITY CONTROL REPORT

WHI11001305.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
149131	Soil	0.4	25.2	12.5	72	0.1	29.5	14.6	489	3.44	2.5	1.0	1.4	5.5	5	<0.1	<0.1	0.3	21	0.07	0.056
REP 149131	QC	0.5	24.5	12.2	71	<0.1	29.1	14.4	481	3.32	2.0	0.9	1.7	5.2	5	<0.1	<0.1	0.3	20	0.06	0.058
149148	Soil	0.4	51.9	10.9	83	<0.1	35.2	21.1	876	3.43	0.8	1.4	1.6	7.2	4	<0.1	0.1	0.3	24	0.11	0.060
REP 149148	QC	0.4	52.9	11.0	81	<0.1	36.2	22.2	886	3.68	0.5	1.5	2.8	7.2	4	<0.1	<0.1	0.3	25	0.10	0.063
Reference Materials																					
STD DS8	Standard	13.3	112.3	126.6	317	1.8	40.0	7.5	637	2.50	24.5	2.8	124.8	7.3	78	2.7	5.6	6.8	44	0.78	0.078
STD DS8	Standard	12.8	110.7	119.1	291	1.7	36.8	7.1	556	2.34	24.9	2.5	107.6	6.1	61	2.3	5.3	6.2	46	0.67	0.076
STD DS8	Standard	11.9	102.3	119.6	294	1.9	35.2	7.0	573	2.29	23.5	2.6	108.7	6.4	62	2.2	5.0	6.3	38	0.64	0.076
STD DS8	Standard	13.1	109.1	127.2	305	1.7	38.0	7.5	597	2.40	24.1	2.9	106.2	7.4	68	2.3	5.4	6.4	40	0.71	0.077
STD DS8	Standard	12.9	110.3	128.9	311	1.8	37.4	7.7	631	2.60	26.3	2.8	114.5	6.9	66	2.6	5.6	7.1	41	0.70	0.083
STD DS8	Standard	12.4	106.3	124.0	290	1.7	35.8	7.3	580	2.33	24.3	2.9	103.8	6.8	60	2.2	5.5	7.0	41	0.67	0.075
STD DS8	Standard	12.6	105.4	114.1	313	1.8	35.6	7.3	578	2.40	26.2	2.3	111.3	5.9	56	2.2	4.8	5.9	39	0.69	0.079
STD DS8	Standard	12.9	102.9	124.2	296	1.8	35.1	6.8	611	2.37	24.4	2.7	113.3	6.5	67	2.4	5.5	6.7	39	0.68	0.074
STD DS8	Standard	11.1	108.7	117.1	308	1.6	37.5	7.3	577	2.37	24.6	2.4	119.4	5.7	53	2.2	5.2	6.2	39	0.60	0.078
STD DS8	Standard	12.4	105.2	122.0	292	1.8	36.9	7.8	593	2.40	25.8	3.0	119.3	7.0	58	2.4	5.8	7.2	42	0.65	0.078
STD DS8	Standard	14.2	116.3	130.5	311	1.7	38.5	7.5	625	2.48	24.4	3.2	112.3	7.2	70	2.4	5.9	6.4	44	0.75	0.080
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Part 2

QUALITY CONTROL REPORT

WHI11001305.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2
149131	Soil	24	28	0.70	25	0.015	<1	1.58	0.005	0.02	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
REP 149131	QC	23	27	0.68	24	0.016	<1	1.55	0.005	0.02	<0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
149148	Soil	22	30	0.82	27	0.026	<1	1.52	0.007	0.02	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
REP 149148	QC	22	31	0.85	28	0.027	<1	1.55	0.006	0.02	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	18	120	0.62	293	0.130	3	1.02	0.108	0.47	2.9	0.22	2.5	5.5	0.15	5	5.3	4.8
STD DS8	Standard	14	113	0.57	272	0.109	3	0.90	0.087	0.39	2.7	0.20	2.2	5.1	0.15	5	5.1	4.8
STD DS8	Standard	14	109	0.58	255	0.108	3	0.84	0.080	0.39	2.9	0.20	2.0	5.3	0.12	4	4.2	4.5
STD DS8	Standard	15	114	0.62	271	0.119	3	0.94	0.096	0.41	3.0	0.21	2.5	5.3	0.15	5	5.0	4.8
STD DS8	Standard	14	114	0.63	286	0.108	4	0.97	0.098	0.42	3.0	0.21	2.4	5.7	0.18	5	4.5	6.1
STD DS8	Standard	15	104	0.56	264	0.111	2	0.85	0.080	0.38	2.8	0.19	2.0	5.2	0.22	4	4.8	4.5
STD DS8	Standard	13	108	0.59	264	0.090	3	0.87	0.085	0.42	2.9	0.20	2.5	5.4	0.19	5	4.4	5.2
STD DS8	Standard	14	111	0.58	269	0.112	2	0.89	0.092	0.41	3.1	0.20	2.1	5.5	0.15	4	5.8	4.4
STD DS8	Standard	11	107	0.57	250	0.089	2	0.81	0.080	0.38	2.8	0.19	1.6	5.2	0.16	4	4.8	5.0
STD DS8	Standard	14	109	0.58	274	0.103	2	0.84	0.077	0.40	2.9	0.19	1.9	5.6	0.13	5	5.1	4.9
STD DS8	Standard	19	122	0.63	285	0.127	3	0.98	0.098	0.40	3.2	0.17	2.3	5.4	0.15	5	5.4	5.1
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: **Stakeholder Gold Corp.**

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Submitted By: Mark Fekete

Receiving Lab: Canada-Whitehorse

Received: August 15, 2011

Report Date: November 12, 2011

Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI11001306.1

CLIENT JOB INFORMATION

Project: Culvert
Shipment ID: CULVERT-6
P.O. Number
Number of Samples: 205

SAMPLE DISPOSAL

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

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

Invoice To: Stakeholder Gold Corp.
203 - 680 Third Ave.
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	205	Dry at 60C sieve 100g to -80 mesh			DAW
Dry at 60C	205	Dry at 60C			DAW
1DX2	205	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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Part 1

CERTIFICATE OF ANALYSIS

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
147298	Soil	1.3	19.8	13.6	51	0.1	18.0	9.7	426	4.22	4.5	0.7	1.5	5.0	4	<0.1	0.3	0.6	25	0.02	0.049
147299	Soil	1.2	18.8	11.6	55	<0.1	21.7	11.1	372	3.50	3.0	0.7	1.3	3.5	3	<0.1	0.1	0.8	22	0.02	0.048
147300	Soil	0.9	14.3	7.9	43	<0.1	15.0	8.4	284	2.48	2.9	0.5	0.9	3.5	3	<0.1	<0.1	0.5	15	0.02	0.031
147301	Soil	0.6	25.1	11.5	68	<0.1	26.2	14.4	373	3.23	16.1	0.7	0.7	7.7	3	<0.1	<0.1	0.4	21	0.05	0.032
147302	Soil	0.6	10.1	6.4	24	<0.1	8.1	3.7	157	1.41	4.0	0.4	<0.5	0.6	3	<0.1	<0.1	0.3	15	0.02	0.030
147303	Soil	0.7	26.0	8.5	73	<0.1	20.7	11.7	289	3.02	7.0	0.8	<0.5	2.4	8	<0.1	0.6	0.5	17	0.01	0.041
147304	Soil	0.7	16.8	12.1	42	<0.1	14.5	7.2	269	2.46	3.6	0.6	0.5	2.1	4	<0.1	0.1	0.3	15	0.02	0.038
147305	Soil	0.4	29.8	8.3	24	0.2	12.0	6.4	302	1.25	3.5	0.9	0.7	0.5	6	0.1	<0.1	0.2	9	0.05	0.059
147306	Soil	0.7	34.2	22.7	91	<0.1	30.6	15.1	623	5.13	10.5	0.9	<0.5	12.3	3	0.2	0.1	0.5	22	0.02	0.032
147307	Soil	0.8	25.0	12.5	49	<0.1	13.4	6.0	161	3.39	10.0	0.6	2.9	6.4	4	<0.1	0.3	0.5	21	0.02	0.044
147308	Soil	0.9	20.7	14.2	60	<0.1	18.3	8.4	318	3.97	11.0	0.7	1.0	7.3	3	<0.1	0.2	0.5	24	0.01	0.031
147309	Soil	0.6	44.8	4.6	82	<0.1	35.2	18.0	724	3.03	<0.5	0.9	1.4	11.1	4	<0.1	0.2	0.3	20	0.15	0.073
147310	Soil	1.1	54.6	5.3	81	<0.1	35.5	18.4	900	3.32	<0.5	1.1	1.4	10.7	3	<0.1	0.1	0.5	20	0.12	0.066
147311	Soil	1.3	26.5	5.5	77	<0.1	33.5	18.6	871	3.65	0.5	0.9	<0.5	5.7	3	<0.1	0.1	0.5	23	0.06	0.049
147312	Soil	0.6	29.8	5.2	58	<0.1	23.6	13.6	656	2.45	<0.5	1.0	0.9	2.2	3	<0.1	0.1	0.3	15	0.04	0.053
147313	Soil	0.8	13.9	5.9	43	<0.1	20.1	9.8	366	3.52	1.5	0.6	<0.5	1.6	5	<0.1	0.1	0.4	23	0.01	0.055
147314	Soil	0.4	24.6	6.4	82	<0.1	40.9	20.1	545	3.85	<0.5	0.8	<0.5	8.8	13	<0.1	<0.1	0.3	29	0.06	0.046
147315	Soil	0.6	22.1	5.8	58	<0.1	24.1	13.5	470	3.80	2.0	0.8	0.6	3.5	5	<0.1	0.1	0.5	23	0.01	0.051
147316	Soil	0.5	20.6	8.8	58	<0.1	28.7	14.2	449	3.42	3.0	0.7	<0.5	7.9	6	<0.1	0.1	0.3	22	0.04	0.039
147317	Soil	0.7	13.9	6.6	62	<0.1	25.4	13.7	445	4.17	2.1	0.8	<0.5	9.9	6	<0.1	0.1	0.4	27	0.01	0.036
147318	Soil	0.4	7.9	5.6	33	<0.1	15.0	7.3	215	2.76	1.4	0.6	<0.5	6.7	6	<0.1	<0.1	0.2	20	0.01	0.021
147319	Soil	0.8	18.7	16.5	66	<0.1	26.9	16.2	600	4.64	4.0	0.7	<0.5	3.5	4	<0.1	0.2	0.4	22	0.02	0.090
147320	Soil	0.6	39.3	19.6	84	<0.1	38.4	22.2	531	4.31	5.9	0.8	0.7	9.2	5	<0.1	0.2	0.5	20	0.04	0.044
147321	Soil	0.5	64.6	5.4	94	<0.1	40.2	19.5	535	3.82	<0.5	1.5	1.4	10.9	15	<0.1	<0.1	0.3	27	0.05	0.067
147322	Soil	1.1	39.5	9.5	88	<0.1	68.5	21.9	728	3.31	1.0	1.1	0.9	2.5	11	<0.1	<0.1	0.4	21	0.06	0.048
147323	Soil	0.5	82.2	5.9	52	<0.1	23.3	12.5	466	2.20	0.7	0.9	0.9	0.8	8	<0.1	<0.1	0.3	16	0.06	0.049
147324	Soil	0.5	20.8	5.6	54	<0.1	33.4	11.3	376	2.48	1.2	0.8	0.6	1.6	4	<0.1	<0.1	0.3	19	0.01	0.032
147325	Soil	0.5	33.7	8.7	86	<0.1	35.2	18.5	615	3.94	1.4	1.0	0.9	10.6	7	<0.1	<0.1	0.4	24	0.05	0.035
147326	Soil	2.2	15.0	5.8	50	<0.1	25.1	10.6	360	2.42	1.2	0.5	<0.5	4.5	3	<0.1	<0.1	0.3	13	0.01	0.024
147327	Soil	2.2	15.2	6.1	54	0.1	19.9	11.6	563	3.32	1.1	0.6	<0.5	3.2	3	<0.1	0.1	0.5	18	0.01	0.058



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CERTIFICATE OF ANALYSIS

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147298	Soil	17	23	0.40	31	0.013	1	1.27	0.005	0.03	0.4	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
147299	Soil	17	21	0.46	21	0.011	<1	1.15	0.005	0.03	0.3	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
147300	Soil	14	16	0.37	23	0.010	<1	1.19	0.008	0.03	0.6	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
147301	Soil	33	28	0.82	62	0.027	<1	1.86	0.006	0.19	0.1	<0.01	1.5	0.2	<0.05	6	<0.5	<0.2
147302	Soil	12	10	0.21	26	0.013	1	0.77	0.010	0.04	0.2	0.02	0.4	<0.1	<0.05	4	<0.5	<0.2
147303	Soil	22	11	0.07	25	0.004	<1	0.39	0.005	0.02	1.1	0.02	0.9	0.2	<0.05	2	<0.5	<0.2
147304	Soil	19	14	0.28	26	0.008	<1	0.96	0.007	0.02	0.3	0.02	0.5	0.1	<0.05	4	<0.5	<0.2
147305	Soil	118	11	0.16	40	0.008	<1	1.05	0.016	0.03	0.3	0.02	0.3	0.5	<0.05	3	<0.5	<0.2
147306	Soil	31	35	0.76	46	0.025	<1	2.11	0.004	0.09	0.2	0.02	1.6	0.3	<0.05	6	<0.5	<0.2
147307	Soil	17	16	0.28	24	0.014	<1	0.90	0.010	0.03	0.8	0.02	0.6	0.2	<0.05	6	<0.5	<0.2
147308	Soil	19	21	0.45	30	0.019	<1	1.23	0.003	0.04	1.3	0.01	1.0	0.2	<0.05	6	<0.5	<0.2
147309	Soil	20	31	0.85	26	0.012	<1	1.63	0.012	0.05	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
147310	Soil	30	31	0.87	25	0.008	<1	1.72	0.011	0.03	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
147311	Soil	18	30	0.80	18	0.016	<1	1.63	0.007	0.02	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
147312	Soil	18	22	0.62	16	0.008	<1	1.28	0.010	0.02	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
147313	Soil	20	29	0.36	24	0.016	<1	0.95	0.007	0.02	0.1	0.01	0.5	<0.1	<0.05	5	<0.5	<0.2
147314	Soil	9	42	0.62	56	0.043	<1	1.03	0.008	0.02	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
147315	Soil	20	26	0.48	25	0.017	<1	1.19	0.005	0.02	0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
147316	Soil	30	31	0.51	30	0.018	<1	1.30	0.005	0.02	<0.1	0.02	0.9	<0.1	<0.05	5	<0.5	<0.2
147317	Soil	27	29	0.51	28	0.027	<1	1.23	0.006	0.02	0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
147318	Soil	26	19	0.28	31	0.017	<1	0.93	0.007	0.01	<0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2
147319	Soil	21	28	0.54	22	0.013	<1	1.39	0.006	0.02	0.1	0.02	0.7	<0.1	<0.05	6	<0.5	<0.2
147320	Soil	22	31	0.66	25	0.011	<1	1.74	0.005	0.03	<0.1	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2
147321	Soil	36	31	0.36	41	0.025	4	0.78	0.005	0.01	0.7	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
147322	Soil	23	93	0.56	35	0.016	<1	1.14	0.008	0.03	0.2	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
147323	Soil	14	17	0.37	33	0.007	<1	0.84	0.012	0.02	0.2	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
147324	Soil	25	42	0.34	21	0.011	<1	0.75	0.007	0.02	0.1	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
147325	Soil	30	30	0.68	44	0.021	2	1.46	0.010	0.07	0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
147326	Soil	20	28	0.42	19	0.010	<1	1.03	0.011	0.02	0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
147327	Soil	22	19	0.43	23	0.011	<1	1.24	0.008	0.02	0.1	0.04	0.7	<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		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
147328	Soil																							
147329	Soil																							
147330	Soil																							
147331	Soil																							
147332	Soil																							
147333	Soil																							
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147337	Soil																							
147338	Soil																							
147339	Soil																							
147340	Soil																							
147341	Soil																							
130410	Soil																							
130411	Soil																							
130412	Soil																							
130413	Soil																							
130414	Soil																							
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130424	Soil																							
130425	Soil																							



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CERTIFICATE OF ANALYSIS

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
147328	Soil	27	41	0.60	32	0.010	<1	1.46	0.007	0.02	0.2	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
147329	Soil	15	12	0.27	17	0.011	<1	0.69	0.011	0.02	0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
147330	Soil	7	19	0.12	11	0.002	<1	0.44	0.015	0.02	<0.1	0.02	<0.1	<0.1	<0.05	2	<0.5	<0.2
147331	Soil	33	18	0.43	25	0.005	<1	1.05	0.004	0.01	0.8	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
147332	Soil	28	31	0.65	194	0.013	2	1.59	0.021	0.11	<0.1	0.01	1.3	0.1	<0.05	5	<0.5	<0.2
147333	Soil	34	23	0.56	21	0.005	<1	1.37	0.004	0.01	0.3	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
147334	Soil	20	76	0.52	43	0.005	8	1.38	0.008	0.02	0.3	0.04	0.8	<0.1	<0.05	4	0.6	<0.2
147335	Soil	24	25	0.41	25	0.009	<1	1.01	0.011	0.03	0.2	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
147336	Soil	11	37	0.19	25	0.004	1	0.60	0.016	0.02	0.2	0.02	0.4	<0.1	<0.05	2	0.5	<0.2
147337	Soil	29	27	0.44	17	0.005	1	1.02	0.007	0.02	0.5	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
147338	Soil	21	28	0.47	22	0.009	<1	1.14	0.008	0.02	0.3	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
147339	Soil	35	32	0.70	38	0.016	<1	1.65	0.011	0.05	0.3	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
147340	Soil	36	32	0.70	37	0.023	3	1.61	0.013	0.04	0.4	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
147341	Soil	29	33	0.69	32	0.011	1	1.57	0.010	0.03	0.2	<0.01	1.3	<0.1	<0.05	5	0.6	<0.2
130410	Soil	28	26	0.30	33	0.020	<1	0.95	0.007	0.02	0.2	0.01	0.7	<0.1	<0.05	5	0.5	<0.2
130411	Soil	17	21	0.39	30	0.010	<1	0.98	0.010	0.02	0.2	0.01	0.9	<0.1	<0.05	4	0.6	<0.2
130412	Soil	34	55	0.27	25	0.014	1	0.82	0.006	0.02	0.2	0.01	0.7	<0.1	<0.05	5	0.5	<0.2
130413	Soil	27	18	0.30	29	0.007	<1	0.93	0.005	0.02	0.3	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
130414	Soil	33	21	0.34	24	0.003	<1	1.07	0.005	0.02	0.4	0.03	1.0	<0.1	<0.05	4	<0.5	<0.2
130415	Soil	39	20	0.34	35	0.004	<1	0.88	0.004	0.02	0.3	0.03	1.2	<0.1	<0.05	3	0.5	<0.2
130416	Soil	29	28	0.44	33	0.005	<1	1.24	0.006	0.02	0.4	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
130417	Soil	28	22	0.53	22	0.004	<1	1.22	0.003	0.02	0.5	<0.01	1.1	<0.1	<0.05	4	0.5	<0.2
130418	Soil	30	38	0.56	19	0.005	<1	1.49	0.003	0.02	0.2	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
130419	Soil	52	24	0.76	25	0.003	8	1.74	0.005	0.03	0.5	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
130420	Soil	50	72	0.51	33	0.007	2	1.26	0.005	0.03	0.8	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
130421	Soil	41	31	0.52	27	0.020	<1	1.42	0.005	0.03	0.4	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
130422	Soil	47	21	0.31	25	0.005	<1	0.97	0.007	0.03	0.3	0.01	1.0	<0.1	<0.05	4	0.7	<0.2
130423	Soil	48	25	0.65	27	0.007	<1	1.50	0.004	0.03	0.5	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
130424	Soil	36	27	0.41	38	0.024	<1	1.24	0.007	0.02	0.3	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
130425	Soil	41	32	0.62	46	0.022	5	1.61	0.016	0.05	0.5	0.01	1.7	<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			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
130426	Soil																							
130427	Soil																							
130428	Soil																							
130429	Soil																							
130430	Soil																							
148302	Soil																							
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CERTIFICATE OF ANALYSIS

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
130426	Soil	46	28	0.45	29	0.012	<1	1.35	0.009	0.02	0.5	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
130427	Soil	43	25	0.32	23	0.007	<1	1.07	0.006	0.02	0.4	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
130428	Soil	44	49	0.40	26	0.004	<1	1.11	0.008	0.03	0.6	0.01	1.3	0.1	<0.05	4	<0.5	<0.2
130429	Soil	38	28	0.58	18	0.007	<1	1.51	0.005	0.02	0.4	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
130430	Soil	46	28	0.56	31	0.007	<1	1.53	0.006	0.04	0.3	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
148302	Soil	33	20	0.33	26	0.011	<1	0.93	0.005	0.04	0.3	0.04	0.9	<0.1	<0.05	4	<0.5	<0.2
148303	Soil	45	30	0.29	25	0.015	<1	0.84	0.008	0.02	0.3	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
148304	Soil	28	30	0.40	16	0.003	<1	1.13	0.005	0.02	0.4	0.03	1.0	<0.1	<0.05	5	0.6	<0.2
148305	Soil	55	49	0.63	27	0.007	<1	1.57	0.007	0.02	0.5	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
148306	Soil	40	23	0.24	21	0.002	<1	0.80	0.004	0.02	0.5	0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
148307	Soil	38	24	0.33	24	0.003	<1	1.05	0.005	0.03	0.4	0.03	1.1	0.2	<0.05	4	<0.5	<0.2
148308	Soil	17	11	0.17	21	0.009	<1	0.58	0.013	0.02	0.2	0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
148309	Soil	36	25	0.42	30	0.009	4	1.23	0.007	0.04	0.4	0.02	1.1	0.2	<0.05	4	<0.5	<0.2
148310	Soil	36	24	0.41	24	0.004	<1	1.13	0.003	0.02	0.4	0.02	0.8	<0.1	<0.05	4	0.6	<0.2
148311	Soil	38	40	0.50	34	0.012	2	1.38	0.006	0.05	0.3	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
148312	Soil	29	22	0.51	26	0.006	<1	1.34	0.003	0.02	0.3	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
148313	Soil	27	28	0.41	26	0.007	<1	1.20	0.004	0.02	0.2	0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
148314	Soil	37	26	0.57	38	0.006	<1	1.65	0.006	0.07	0.2	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
149165	Soil	18	25	0.54	21	0.009	<1	1.29	0.006	0.03	<0.1	0.01	0.8	<0.1	<0.05	4	0.5	<0.2
149166	Soil	19	23	0.52	16	0.009	<1	1.22	0.004	0.02	<0.1	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
149167	Soil	25	24	0.55	26	0.010	<1	1.39	0.007	0.02	<0.1	0.02	0.9	<0.1	<0.05	4	1.2	<0.2
149168	Soil	19	20	0.43	16	0.009	<1	1.01	0.005	0.02	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
149169	Soil	21	24	0.53	14	0.010	<1	1.25	0.004	0.02	0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
149170	Soil	22	25	0.55	20	0.009	<1	1.32	0.006	0.02	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
149171	Soil	29	17	0.36	28	0.008	<1	1.03	0.007	0.02	0.1	0.02	0.5	<0.1	<0.05	4	1.1	<0.2
148202	Soil	22	25	0.40	19	0.003	<1	1.63	0.004	0.02	1.0	0.08	0.9	<0.1	<0.05	6	0.7	<0.2
148203	Soil	25	19	0.22	13	0.005	<1	1.05	0.003	0.01	0.2	0.05	0.5	<0.1	<0.05	7	<0.5	<0.2
148204	Soil	14	15	0.25	16	0.007	<1	0.94	0.009	0.02	0.2	0.04	0.6	<0.1	<0.05	3	<0.5	<0.2
148205	Soil	12	12	0.28	25	0.007	<1	0.90	0.017	0.02	<0.1	0.03	0.6	<0.1	<0.05	3	0.5	<0.2
148206	Soil	18	19	0.37	20	0.008	<1	1.35	0.009	0.02	0.2	0.04	0.7	<0.1	<0.05	4	<0.5	<0.2



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Project: Culvert
Report Date: November 12, 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	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
148207	Soil	0.3	9.9	8.9	16	0.1	4.1	3.6	147	1.12	4.5	0.3	4.8	0.6	4	<0.1	0.1	0.2	<2	0.02	0.033
148208	Soil	0.5	39.3	26.7	98	0.1	32.9	13.8	534	3.94	32.3	1.0	2.3	8.8	6	<0.1	0.4	0.8	4	0.04	0.054
148209	Soil	0.3	10.0	14.2	39	<0.1	11.2	4.6	182	2.11	16.5	0.5	1.3	2.9	4	<0.1	0.1	0.3	<2	0.02	0.030
148210	Soil	0.5	24.5	23.4	62	<0.1	20.2	17.0	445	3.12	21.5	0.8	<0.5	5.0	5	<0.1	0.4	0.4	<2	0.03	0.056
148211	Soil	0.1	14.6	9.1	11	<0.1	4.1	3.7	63	0.57	6.0	0.8	<0.5	0.6	6	<0.1	<0.1	<0.1	<2	0.06	0.036
148212	Soil	0.4	43.5	35.6	101	<0.1	34.4	39.6	697	4.14	55.1	2.6	8.7	12.1	5	<0.1	0.6	0.6	8	0.05	0.040
148213	Soil	0.8	37.8	38.3	78	<0.1	24.9	23.9	727	3.22	36.8	1.1	1.3	6.1	6	<0.1	0.5	0.7	2	0.04	0.068
148214	Soil	0.8	42.9	47.8	92	0.1	31.5	36.4	968	3.51	36.2	1.3	2.5	8.2	6	0.2	0.5	1.0	7	0.03	0.050
148215	Soil	0.8	97.3	75.6	187	0.1	87.9	67.1	1053	4.65	263.8	3.2	19.0	16.6	9	<0.1	1.1	0.9	<2	0.03	0.046
148216	Soil	0.7	46.8	55.4	109	<0.1	42.5	42.0	573	2.89	80.5	2.4	<0.5	6.9	7	<0.1	0.8	0.8	<2	0.02	0.053
148217	Soil	0.9	26.2	32.7	71	<0.1	15.9	20.1	1218	3.33	49.0	0.8	2.3	4.0	5	<0.1	0.6	0.6	<2	0.03	0.061
148218	Soil	1.4	73.3	56.2	155	0.1	55.0	46.8	1043	4.47	384.3	2.5	24.0	8.7	16	<0.1	1.0	0.9	18	0.12	0.075
148219	Soil	1.2	71.6	92.7	142	0.2	47.1	47.2	1572	4.40	40.9	2.8	5.8	14.9	13	0.1	0.6	1.3	15	0.07	0.052
148220	Soil	1.1	62.3	63.5	102	<0.1	29.6	43.0	1024	3.15	48.9	2.3	2.9	7.1	8	<0.1	0.5	0.9	15	0.05	0.056
148221	Soil	0.9	39.9	34.9	106	0.1	33.9	20.6	478	2.70	39.8	1.3	2.2	3.7	8	<0.1	0.3	0.6	14	0.07	0.054
148222	Soil	1.1	69.5	71.3	120	0.1	35.9	49.5	1891	3.94	154.5	2.5	13.4	10.8	6	<0.1	0.5	1.2	<2	0.04	0.049
148223	Soil	1.2	67.1	66.8	76	0.1	32.3	28.4	682	3.18	35.7	2.4	12.9	6.8	12	<0.1	0.6	0.8	<2	0.03	0.058
148224	Soil	1.0	63.4	46.4	120	0.1	44.2	44.1	1364	4.19	130.9	2.6	14.8	14.5	5	<0.1	0.3	1.0	3	0.05	0.041
148225	Soil	2.4	114.4	141.9	118	0.3	49.3	76.1	2145	4.99	186.1	4.8	22.8	13.6	5	<0.1	0.6	1.7	15	0.02	0.066
148226	Soil	0.3	67.1	5.3	71	<0.1	37.9	16.8	638	2.19	<0.5	1.7	2.9	13.0	4	<0.1	0.2	0.3	16	0.12	0.061
148227	Soil	0.3	52.5	5.8	82	<0.1	37.4	19.4	623	3.47	<0.5	1.2	2.3	11.7	4	<0.1	0.2	0.5	25	0.13	0.075
148228	Soil	0.2	66.6	4.3	83	<0.1	38.1	19.3	600	3.71	<0.5	1.6	3.1	13.0	5	<0.1	0.1	0.5	28	0.13	0.069
148229	Soil	0.9	49.1	5.8	97	<0.1	41.6	22.7	983	3.65	0.7	2.0	1.1	8.1	3	<0.1	0.2	0.4	19	0.08	0.059
148230	Soil	0.6	22.1	8.8	85	<0.1	35.7	19.8	737	4.13	2.6	0.8	<0.5	7.6	4	<0.1	0.1	0.5	24	0.04	0.046
148231	Soil	1.0	48.7	6.2	55	0.1	22.5	10.8	352	2.18	0.8	0.9	0.5	1.1	4	<0.1	<0.1	0.3	15	0.03	0.077
148232	Soil	0.6	44.7	20.9	83	<0.1	36.4	19.2	614	4.02	5.1	1.0	1.1	11.0	5	<0.1	0.2	0.4	22	0.09	0.053
148233	Soil	1.3	39.0	19.6	83	<0.1	35.5	17.8	579	4.07	5.6	1.0	1.1	10.7	6	<0.1	0.2	0.4	22	0.08	0.053
148234	Soil	1.5	57.4	14.1	87	<0.1	36.2	19.3	647	4.10	3.3	1.2	<0.5	9.7	6	<0.1	0.1	0.4	23	0.10	0.067
148235	Soil	1.2	30.8	9.5	75	<0.1	31.3	14.9	527	3.45	1.9	0.8	0.6	7.8	5	<0.1	<0.1	0.3	21	0.06	0.048
148236	Soil	1.3	42.2	12.0	72	<0.1	30.6	15.5	535	3.41	1.9	1.1	0.8	6.8	5	<0.1	<0.1	0.3	20	0.06	0.055



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
148207	Soil	7	5	0.07	15	0.013	<1	0.44	0.016	0.02	<0.1	0.03	0.5	<0.1	<0.05	3	<0.5
148208	Soil	29	27	0.62	16	0.005	<1	1.76	0.006	0.03	0.2	0.03	1.2	<0.1	<0.05	5	<0.5
148209	Soil	24	15	0.33	21	0.004	<1	0.99	0.009	0.03	<0.1	0.02	0.8	<0.1	<0.05	4	<0.5
148210	Soil	25	23	0.48	26	0.006	<1	1.44	0.009	0.03	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5
148211	Soil	7	3	0.07	17	0.013	<1	0.70	0.024	0.02	<0.1	0.02	0.5	<0.1	<0.05	2	<0.5
148212	Soil	31	30	0.76	11	0.013	<1	1.85	0.002	0.02	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5
148213	Soil	23	21	0.42	23	0.011	<1	1.47	0.008	0.04	0.1	0.04	0.9	<0.1	<0.05	5	1.1
148214	Soil	21	25	0.53	19	0.005	<1	1.56	0.006	0.03	0.2	0.04	1.0	<0.1	<0.05	5	0.7
148215	Soil	32	31	0.70	35	0.003	<1	2.16	0.007	0.05	<0.1	0.04	1.8	<0.1	<0.05	6	<0.5
148216	Soil	18	18	0.37	23	0.010	<1	1.36	0.010	0.03	<0.1	0.04	0.8	<0.1	<0.05	4	0.6
148217	Soil	16	17	0.27	23	0.009	<1	1.22	0.009	0.03	<0.1	0.04	0.7	<0.1	<0.05	5	1.1
148218	Soil	21	26	0.54	37	0.005	2	1.91	0.009	0.04	0.1	0.03	1.3	<0.1	0.05	6	0.6
148219	Soil	27	29	0.77	34	0.004	1	1.99	0.012	0.04	0.3	0.01	1.7	<0.1	<0.05	6	<0.5
148220	Soil	17	19	0.38	39	0.007	2	1.52	0.013	0.03	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5
148221	Soil	14	16	0.33	33	0.008	<1	1.25	0.017	0.03	0.1	0.02	0.7	<0.1	<0.05	5	0.5
148222	Soil	23	23	0.48	27	0.005	<1	1.58	0.008	0.03	<0.1	0.04	1.4	<0.1	<0.05	5	<0.5
148223	Soil	15	19	0.35	26	0.007	<1	1.45	0.012	0.03	<0.1	0.03	0.9	<0.1	<0.05	4	1.2
148224	Soil	28	32	0.75	19	0.005	<1	1.92	0.005	0.02	0.1	0.04	1.6	<0.1	<0.05	6	0.8
148225	Soil	21	30	0.71	18	0.003	2	1.89	0.009	0.03	<0.1	0.02	1.8	<0.1	0.06	6	<0.5
148226	Soil	27	25	0.73	36	0.008	1	1.21	0.008	0.03	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5
148227	Soil	21	33	0.83	23	0.029	1	1.42	0.007	0.03	0.3	<0.01	1.1	<0.1	<0.05	4	<0.5
148228	Soil	18	35	0.79	36	0.039	4	1.38	0.029	0.11	0.3	<0.01	1.4	<0.1	<0.05	5	<0.5
148229	Soil	15	29	0.94	18	0.006	1	1.81	0.004	0.02	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5
148230	Soil	21	31	0.77	16	0.019	<1	1.66	0.007	0.03	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5
148231	Soil	13	20	0.46	18	0.006	<1	1.05	0.009	0.03	<0.1	0.01	0.2	<0.1	<0.05	4	<0.5
148232	Soil	27	31	0.78	25	0.015	1	1.75	0.010	0.07	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5
148233	Soil	28	32	0.77	24	0.015	<1	1.67	0.008	0.07	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5
148234	Soil	28	31	0.80	31	0.019	2	1.71	0.006	0.04	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5
148235	Soil	24	28	0.70	30	0.015	<1	1.47	0.006	0.04	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5
148236	Soil	25	27	0.68	29	0.012	<1	1.47	0.005	0.02	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
148237	Soil				0.7	174.5	6.9	48	0.3	18.9	9.6	352	1.99	<0.5	1.6	<0.5	1.5	3	<0.1	<0.1	0.2	11	0.02	0.072
148238	Soil				0.8	34.1	6.3	77	<0.1	33.3	18.6	627	4.23	1.8	1.0	<0.5	8.5	4	<0.1	<0.1	0.5	26	0.04	0.047
148239	Soil				0.4	11.3	5.7	58	<0.1	23.9	12.0	405	3.34	1.6	0.7	<0.5	5.7	3	<0.1	<0.1	0.4	22	<0.01	0.030
148240	Soil				0.5	13.5	6.1	63	<0.1	25.6	13.5	475	3.85	1.6	0.7	1.3	7.1	3	<0.1	<0.1	0.4	23	0.01	0.034
148241	Soil				0.7	13.6	6.1	32	<0.1	12.1	6.7	313	1.75	1.0	0.6	<0.5	1.1	3	<0.1	<0.1	0.2	11	0.02	0.028
148242	Soil				0.8	24.2	5.1	60	<0.1	22.6	12.4	590	3.48	1.5	0.9	<0.5	9.1	2	<0.1	<0.1	0.4	19	<0.01	0.032
148243	Soil				0.7	21.5	5.3	50	<0.1	20.4	10.5	431	2.73	1.4	0.8	<0.5	2.1	3	<0.1	<0.1	0.4	18	0.02	0.052
148244	Soil				1.1	41.8	21.4	83	<0.1	33.2	18.3	969	3.74	1.1	1.3	0.5	11.8	4	<0.1	<0.1	0.4	18	0.06	0.045
148245	Soil				1.1	15.8	8.4	63	<0.1	23.1	12.9	680	4.06	1.3	0.8	<0.5	7.6	3	<0.1	0.1	0.4	21	0.01	0.049
148246	Soil				1.5	36.8	19.0	87	<0.1	33.5	18.9	912	4.16	1.7	1.3	<0.5	14.1	3	<0.1	<0.1	0.4	18	0.04	0.039
148247	Soil				1.3	27.3	25.0	57	<0.1	19.9	12.4	546	3.62	2.0	0.9	<0.5	9.4	3	<0.1	0.1	0.5	19	0.01	0.027
148248	Soil				1.3	20.8	19.4	71	<0.1	27.2	17.5	898	4.29	3.5	0.7	<0.5	4.0	3	<0.1	0.1	0.5	20	0.02	0.056
148249	Soil				0.8	13.3	10.4	31	<0.1	10.1	5.2	218	2.48	3.7	0.6	<0.5	1.8	3	<0.1	0.1	0.4	22	<0.01	0.035
148250	Soil				1.3	52.0	72.5	82	<0.1	32.2	31.8	961	4.23	21.3	1.0	<0.5	15.2	4	<0.1	0.1	0.5	13	0.05	0.051
148251	Soil				0.7	10.6	10.0	30	0.1	10.7	5.4	193	2.53	3.4	0.5	<0.5	3.0	3	<0.1	0.2	2.4	26	<0.01	0.027
148252	Soil				1.9	24.2	19.9	47	0.1	11.8	6.8	112	2.62	2.4	0.8	<0.5	6.3	4	0.1	0.3	0.4	14	<0.01	0.038
148253	Soil				0.8	59.3	21.4	81	<0.1	38.8	20.4	586	3.83	6.6	1.1	1.5	10.2	8	<0.1	0.3	0.4	26	0.09	0.054
148254	Soil				1.5	26.0	14.8	83	<0.1	33.8	17.1	675	3.94	3.5	1.0	<0.5	8.5	7	<0.1	0.2	0.6	22	0.05	0.046
148255	Soil				0.4	6.2	6.6	22	<0.1	6.7	3.3	112	1.83	2.3	0.5	<0.5	0.7	4	<0.1	0.1	0.3	20	<0.01	0.040
148256	Soil				0.7	23.7	10.5	78	<0.1	33.4	17.7	531	4.49	4.1	1.1	0.9	7.1	5	<0.1	0.2	0.7	25	0.05	0.056
148257	Soil				0.9	34.2	7.3	77	<0.1	30.2	15.6	490	4.33	1.9	1.4	1.0	9.2	4	<0.1	0.1	1.0	21	0.02	0.049
148258	Soil				0.9	27.8	13.0	77	<0.1	28.9	15.2	567	4.11	4.0	1.0	<0.5	7.1	5	<0.1	0.2	0.5	25	0.03	0.043
148259	Soil				0.6	15.8	8.6	54	<0.1	20.2	10.2	362	3.95	2.5	0.8	<0.5	6.6	4	<0.1	0.1	0.4	22	0.01	0.070
148260	Soil				0.6	15.4	6.5	47	<0.1	16.8	8.2	318	3.09	1.7	0.7	<0.5	3.0	4	<0.1	0.1	0.3	22	0.01	0.056
148261	Soil				0.8	16.8	9.8	61	<0.1	22.6	11.8	435	3.09	1.2	0.7	4.1	3.1	4	<0.1	0.1	0.5	19	<0.01	0.039
148262	Soil				0.7	14.4	11.9	61	<0.1	21.6	11.4	421	2.88	1.6	0.7	0.8	8.8	5	<0.1	<0.1	0.7	18	0.01	0.030
148263	Soil				0.3	12.3	7.2	70	<0.1	25.1	14.1	432	3.25	<0.5	0.8	0.9	9.8	3	<0.1	<0.1	0.4	16	0.01	0.027
148264	Soil				0.7	15.9	7.5	57	<0.1	18.7	10.5	406	3.17	1.6	0.5	<0.5	5.8	3	<0.1	0.1	0.5	17	<0.01	0.033
148265	Soil				0.7	26.0	12.6	73	<0.1	27.2	17.6	655	3.41	0.6	0.8	1.0	8.6	4	<0.1	0.1	0.4	17	0.03	0.043
148266	Soil				0.3	21.8	7.5	79	<0.1	33.8	17.9	421	3.00	1.1	0.9	<0.5	5.4	4	<0.1	<0.1	0.4	20	0.07	0.053



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148237	Soil	12	17	0.40	33	0.005	<1	1.10	0.008	0.02	0.1	0.03	0.6	<0.1	0.06	4	<0.5	<0.2
148238	Soil	32	29	0.61	22	0.015	2	1.43	0.006	0.02	0.2	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
148239	Soil	27	23	0.48	19	0.017	<1	1.15	0.005	0.02	0.1	0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
148240	Soil	27	26	0.54	17	0.019	<1	1.26	0.004	0.03	0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
148241	Soil	14	12	0.28	18	0.011	<1	0.90	0.012	0.02	<0.1	<0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
148242	Soil	28	21	0.55	15	0.012	<1	1.26	0.005	0.03	0.2	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
148243	Soil	28	20	0.41	21	0.008	<1	1.03	0.011	0.02	0.1	0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
148244	Soil	32	26	0.78	23	0.012	<1	1.74	0.004	0.02	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
148245	Soil	21	23	0.65	20	0.013	<1	1.56	0.004	0.03	0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
148246	Soil	41	28	0.83	21	0.013	3	1.89	0.004	0.04	0.1	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
148247	Soil	25	19	0.48	29	0.008	<1	1.44	0.002	0.02	0.2	0.01	1.0	0.1	<0.05	6	<0.5	<0.2
148248	Soil	21	27	0.63	22	0.011	<1	1.51	0.006	0.03	0.2	0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
148249	Soil	23	13	0.21	17	0.013	<1	0.74	0.009	0.02	0.1	0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
148250	Soil	58	27	0.65	21	0.007	<1	1.76	0.003	0.02	0.3	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
148251	Soil	22	14	0.18	16	0.015	<1	0.62	0.005	0.02	0.2	<0.01	0.5	<0.1	<0.05	6	<0.5	<0.2
148252	Soil	16	12	0.13	26	0.003	<1	0.55	0.003	0.03	0.9	0.03	0.5	0.2	<0.05	4	<0.5	<0.2
148253	Soil	26	31	0.68	43	0.021	<1	1.88	0.005	0.04	0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
148254	Soil	24	29	0.70	24	0.016	<1	1.65	0.005	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
148255	Soil	21	11	0.14	17	0.010	<1	0.53	0.007	0.02	<0.1	<0.01	0.2	<0.1	<0.05	5	<0.5	<0.2
148256	Soil	27	30	0.65	27	0.027	<1	1.50	0.005	0.02	<0.1	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
148257	Soil	27	29	0.58	21	0.017	<1	1.49	0.006	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
148258	Soil	27	29	0.64	25	0.019	<1	1.61	0.004	0.02	0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
148259	Soil	26	24	0.43	17	0.014	<1	1.20	0.004	0.03	<0.1	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
148260	Soil	27	19	0.34	17	0.014	<1	0.90	0.007	0.02	0.1	0.01	0.6	<0.1	<0.05	6	<0.5	<0.2
148261	Soil	19	22	0.47	17	0.011	<1	1.14	0.005	0.01	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
148262	Soil	32	21	0.48	23	0.013	<1	1.10	0.007	0.02	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
148263	Soil	19	21	0.57	32	0.011	<1	1.35	0.002	0.04	0.3	<0.01	0.9	0.1	<0.05	4	<0.5	<0.2
148264	Soil	17	18	0.43	21	0.011	<1	1.07	0.005	0.02	0.3	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
148265	Soil	22	22	0.61	21	0.010	<1	1.37	0.003	0.02	0.4	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
148266	Soil	11	24	0.66	29	0.006	<1	1.20	0.005	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
148267	Soil				0.4	18.4	7.0	55	<0.1	21.0	11.0	277	2.29	1.0	0.7	0.8	2.9	5	<0.1	0.1	0.4	15	0.04	0.040
148268	Soil				0.7	15.7	10.1	38	0.2	13.1	7.8	297	2.34	1.7	0.6	0.7	5.0	3	<0.1	0.1	0.4	16	0.01	0.026
148269	Soil				1.0	36.3	12.0	90	<0.1	31.2	18.9	827	3.91	7.7	1.8	1.2	12.2	4	<0.1	0.2	0.8	17	<0.01	0.029
148270	Soil				0.6	23.1	11.9	63	<0.1	21.8	12.9	593	3.26	5.3	0.8	<0.5	8.7	4	<0.1	0.2	0.5	17	<0.01	0.028
148271	Soil				0.2	2.8	1.6	6	<0.1	1.1	1.1	78	0.33	<0.5	0.1	<0.5	0.2	5	<0.1	<0.1	<0.1	8	0.03	0.015
148272	Soil				0.8	37.4	12.4	86	<0.1	32.5	20.0	820	3.68	2.7	1.4	0.7	8.8	6	0.1	0.4	0.6	12	0.01	0.034
148273	Soil				1.1	25.5	15.7	25	0.1	8.6	5.3	223	1.41	2.4	0.9	<0.5	3.2	2	<0.1	0.1	0.3	17	<0.01	0.013
148274	Soil				1.1	19.7	18.5	39	<0.1	11.7	6.1	249	2.88	9.5	0.6	<0.5	4.8	3	<0.1	0.3	0.7	30	0.01	0.027
148275	Soil				0.3	7.1	3.7	18	<0.1	4.5	3.0	74	1.26	<0.5	0.3	<0.5	1.9	4	<0.1	0.2	0.2	8	0.02	0.031
148276	Soil				0.9	66.8	5.9	81	<0.1	34.1	20.8	915	3.49	<0.5	1.3	<0.5	9.5	3	<0.1	<0.1	0.6	18	0.08	0.046
148277	Soil				0.1	15.9	4.7	70	<0.1	34.0	19.8	461	3.76	0.7	1.0	<0.5	11.0	4	<0.1	0.1	0.5	27	0.06	0.047
148278	Soil				0.1	33.1	4.3	71	<0.1	29.4	15.9	406	3.21	<0.5	0.9	0.5	5.2	5	<0.1	0.1	0.3	22	0.05	0.043
148279	Soil				0.2	16.0	4.6	74	<0.1	33.4	18.7	593	4.12	<0.5	0.9	<0.5	9.8	18	<0.1	0.1	0.1	29	0.06	0.050
148280	Soil				0.2	30.8	4.0	77	<0.1	29.0	18.0	362	3.38	<0.5	0.7	<0.5	6.6	23	<0.1	<0.1	0.6	31	0.04	0.035
148281	Soil				0.4	20.5	6.5	53	<0.1	18.3	10.0	341	3.15	1.8	0.8	<0.5	1.9	17	<0.1	0.2	0.4	23	0.02	0.052
148282	Soil				0.4	10.0	5.1	39	<0.1	15.6	8.0	247	2.52	1.5	0.6	<0.5	2.3	6	<0.1	0.1	0.3	18	0.01	0.036
148283	Soil				0.3	25.3	5.6	66	<0.1	25.6	14.1	442	3.07	0.8	0.8	<0.5	2.9	10	<0.1	<0.1	0.3	19	0.02	0.042
148284	Soil				0.2	9.1	3.5	42	<0.1	18.0	8.8	220	3.27	0.8	1.0	<0.5	8.0	5	<0.1	<0.1	0.2	27	<0.01	0.037
148285	Soil				0.4	17.8	4.4	77	<0.1	32.5	16.4	446	3.58	0.6	0.9	<0.5	9.3	7	<0.1	<0.1	0.4	24	0.03	0.037
148286	Soil				0.5	13.0	4.9	46	<0.1	18.3	9.6	287	2.29	1.4	0.6	<0.5	2.2	5	<0.1	<0.1	0.2	17	0.01	0.025
148287	Soil				0.5	16.1	6.1	64	<0.1	25.2	12.7	409	3.32	1.7	0.8	3.4	8.5	7	<0.1	0.2	0.3	22	0.02	0.029
148288	Soil				0.4	19.0	5.6	62	<0.1	25.5	13.8	440	3.09	1.1	0.8	<0.5	8.7	7	<0.1	0.1	0.3	19	0.02	0.030
148289	Soil				0.5	14.5	6.9	46	<0.1	16.3	9.4	381	3.10	2.1	0.7	1.4	3.7	8	<0.1	0.1	0.3	21	0.01	0.051
148290	Soil				0.4	12.3	5.7	40	<0.1	14.7	8.0	314	2.49	2.0	0.6	0.6	1.7	7	<0.1	0.1	0.3	18	<0.01	0.043
148291	Soil				0.4	18.7	4.5	71	<0.1	28.6	15.9	515	3.68	0.6	0.9	<0.5	11.0	7	<0.1	<0.1	0.3	22	0.02	0.040
148292	Soil				0.5	19.4	7.7	70	<0.1	28.1	15.4	574	3.49	2.5	0.7	<0.5	8.0	6	<0.1	0.1	0.4	18	0.04	0.087
148293	Soil				0.6	21.4	15.5	59	0.1	21.6	13.6	562	3.83	6.5	0.8	<0.5	3.1	5	<0.1	0.2	0.5	19	0.02	0.094
148294	Soil				0.4	15.9	11.0	53	0.1	19.3	12.4	716	2.99	3.5	0.6	0.7	5.7	5	<0.1	0.2	0.3	18	0.01	0.047
148295	Soil				0.4	11.3	7.5	52	<0.1	18.3	12.1	652	2.93	2.9	0.5	1.3	5.5	5	<0.1	<0.1	0.6	18	<0.01	0.078
148296	Soil				0.5	14.2	10.6	39	<0.1	13.2	8.0	282	1.85	<0.5	0.5	0.5	7.7	4	<0.1	<0.1	0.2	9	<0.01	0.019



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148267	Soil	27	16	0.42	27	0.009	<1	0.94	0.008	0.02	0.2	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
148268	Soil	16	14	0.28	17	0.011	<1	0.79	0.005	0.03	0.2	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
148269	Soil	34	20	0.49	29	0.013	<1	1.26	0.002	0.05	0.7	0.02	1.8	0.3	<0.05	4	<0.5	<0.2
148270	Soil	27	18	0.42	29	0.010	2	1.13	0.004	0.03	0.4	0.01	1.1	0.1	<0.05	4	<0.5	<0.2
148271	Soil	2	1	0.02	9	0.015	<1	0.11	0.018	0.02	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
148272	Soil	43	14	0.31	33	0.007	<1	0.92	0.004	0.03	0.7	0.01	1.4	0.2	<0.05	3	<0.5	<0.2
148273	Soil	7	8	0.19	20	0.019	<1	0.51	0.007	0.04	0.3	<0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
148274	Soil	14	14	0.24	29	0.030	<1	0.82	0.003	0.04	0.4	<0.01	0.7	0.1	<0.05	6	<0.5	<0.2
148275	Soil	7	6	0.08	19	0.007	5	0.45	0.012	0.02	1.0	<0.01	0.3	0.1	<0.05	2	<0.5	<0.2
148276	Soil	16	30	0.85	23	0.019	<1	1.60	0.007	0.03	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
148277	Soil	16	26	0.57	23	0.043	<1	0.98	0.006	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
148278	Soil	20	27	0.62	21	0.021	<1	1.23	0.006	0.01	0.3	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
148279	Soil	27	31	0.52	75	0.059	4	1.10	0.011	0.04	0.4	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
148280	Soil	11	31	0.47	79	0.042	<1	0.83	0.005	0.02	0.7	<0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
148281	Soil	18	20	0.38	61	0.012	<1	1.04	0.004	0.01	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
148282	Soil	19	18	0.30	28	0.021	<1	0.75	0.008	0.02	0.1	<0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
148283	Soil	22	24	0.44	44	0.015	<1	1.02	0.004	0.01	0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
148284	Soil	41	23	0.31	17	0.036	<1	0.76	0.003	0.01	<0.1	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
148285	Soil	30	27	0.60	28	0.027	<1	1.30	0.004	0.02	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
148286	Soil	19	19	0.38	30	0.015	<1	1.05	0.009	0.02	<0.1	<0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
148287	Soil	28	25	0.52	33	0.017	<1	1.33	0.005	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
148288	Soil	24	23	0.51	35	0.015	7	1.24	0.007	0.03	0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
148289	Soil	24	19	0.32	29	0.016	<1	0.82	0.007	0.02	0.2	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
148290	Soil	22	18	0.29	26	0.014	<1	0.72	0.006	0.02	<0.1	<0.01	0.4	<0.1	<0.05	4	<0.5	<0.2
148291	Soil	31	26	0.59	35	0.029	<1	1.31	0.006	0.02	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
148292	Soil	21	26	0.56	26	0.015	<1	1.28	0.004	0.02	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
148293	Soil	15	22	0.42	28	0.007	<1	1.29	0.004	0.02	0.1	0.03	0.5	<0.1	0.06	5	<0.5	<0.2
148294	Soil	21	19	0.38	42	0.011	<1	1.23	0.005	0.02	<0.1	0.03	0.7	<0.1	0.05	5	<0.5	<0.2
148295	Soil	22	19	0.35	21	0.017	<1	0.94	0.008	0.02	<0.1	<0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
148296	Soil	25	11	0.27	22	0.006	<1	0.72	0.007	0.02	0.3	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2



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Project: Culvert

Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
148297	Soil	0.4	25.9	5.5	85	<0.1	29.3	20.4	946	3.98	<0.5	0.9	2.4	13.9	4	<0.1	<0.1	0.6	15	0.02	0.034
148298	Soil	0.7	24.7	15.4	84	<0.1	32.3	22.0	855	3.91	4.2	0.8	1.9	10.1	4	<0.1	0.1	0.6	17	0.01	0.033
148299	Soil	0.3	14.7	6.2	64	<0.1	22.7	14.2	526	3.27	<0.5	0.6	<0.5	8.7	3	<0.1	<0.1	0.5	12	<0.01	0.018
148300	Soil	0.7	32.1	11.6	76	<0.1	31.5	17.6	633	3.74	0.8	1.0	<0.5	11.6	4	<0.1	<0.1	0.5	15	0.01	0.025
148301	Soil	0.7	24.7	14.7	65	0.1	23.1	14.1	515	3.30	0.7	0.9	<0.5	10.3	4	<0.1	0.1	0.6	12	<0.01	0.030
147233	Soil	0.5	7.6	18.9	212	<0.1	54.0	56.9	1032	5.49	262.4	2.7	1.7	14.9	6	0.1	0.4	0.6	21	0.04	0.055
147234	Soil	0.7	59.9	27.5	103	<0.1	31.9	25.5	1336	4.29	117.8	1.7	3.1	12.8	6	<0.1	0.5	1.3	19	0.03	0.066
147235	Soil	1.9	133.0	192.3	129	0.3	44.1	78.8	2230	4.82	70.6	2.4	4.2	19.8	5	0.1	0.4	2.4	19	0.04	0.063
147236	Soil	1.3	104.5	79.4	115	0.3	37.9	46.3	2145	4.68	43.8	1.8	3.2	14.1	6	<0.1	0.4	1.6	20	0.05	0.068
147237	Soil	3.3	48.4	80.4	92	0.4	25.2	25.4	1422	4.89	24.9	1.6	1.2	13.1	4	0.2	0.7	1.1	21	0.02	0.075
147238	Soil	0.6	36.9	31.2	71	0.2	19.4	15.5	922	3.84	16.9	0.9	<0.5	6.0	4	0.2	0.4	0.8	19	0.03	0.085
147239	Soil	0.8	68.2	49.7	128	0.1	38.8	34.4	1687	4.45	35.7	1.9	1.8	13.0	5	0.2	0.3	2.1	18	0.04	0.056
147240	Soil	1.0	61.2	89.6	137	<0.1	56.0	55.7	1397	4.51	25.1	1.4	7.1	8.0	7	0.1	0.6	1.0	20	0.05	0.079
147241	Soil	1.7	68.3	69.1	131	0.2	52.3	39.5	1317	4.99	28.0	2.0	37.9	9.2	6	<0.1	0.6	1.2	20	0.03	0.078
147242	Soil	0.5	57.2	56.0	165	0.2	58.7	54.9	1440	4.58	25.0	1.3	<0.5	14.6	11	0.2	0.3	1.7	15	0.06	0.058
147243	Soil	0.5	27.1	22.2	55	0.3	17.6	10.6	555	4.19	17.1	0.9	3.5	3.9	6	<0.1	0.4	0.8	22	0.02	0.108
147244	Soil	1.2	44.8	47.9	104	0.3	32.1	21.1	1038	5.99	30.6	1.6	<0.5	11.0	9	<0.1	0.6	1.3	24	0.02	0.130
147245	Soil	0.7	35.3	23.6	79	0.2	29.8	31.2	831	3.38	34.4	1.2	1.1	4.2	9	0.1	0.4	0.9	16	0.03	0.088
147246	Soil	1.3	27.4	36.5	71	0.2	17.2	6.4	404	8.05	53.9	1.1	<0.5	12.0	6	<0.1	0.6	1.1	36	0.01	0.185
147247	Soil	1.0	52.0	43.2	124	0.1	36.1	31.3	1681	4.54	53.9	1.6	2.1	11.9	4	0.3	0.3	1.2	17	0.04	0.063
147248	Soil	0.5	44.7	34.9	86	0.2	24.3	21.8	936	2.94	29.4	1.4	3.7	5.2	4	0.2	0.2	0.8	13	0.04	0.054
147249	Soil	0.6	22.0	30.6	54	<0.1	16.8	7.2	324	3.24	92.1	1.0	6.0	6.6	8	<0.1	0.5	0.5	15	0.02	0.057
147250	Soil	0.2	5.0	7.0	9	<0.1	2.6	1.2	52	0.66	6.5	0.3	0.8	0.2	4	<0.1	0.1	0.1	8	0.03	0.032
147251	Soil	0.3	9.2	5.8	18	<0.1	4.8	2.7	92	0.58	6.6	0.3	1.8	0.3	7	0.3	0.1	0.2	6	0.04	0.043
147252	Soil	0.3	8.1	10.4	13	<0.1	3.5	4.1	186	0.67	2.8	0.3	<0.5	0.6	5	0.2	<0.1	0.2	7	0.04	0.045



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Project: Culvert

Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
148297	Soil	35	23	0.57	21	0.005	<1	1.28	0.004	0.02	0.3	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
148298	Soil	24	26	0.64	26	0.008	<1	1.52	0.004	0.02	0.3	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
148299	Soil	24	21	0.58	22	0.005	2	1.44	0.003	0.01	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
148300	Soil	32	24	0.58	29	0.007	<1	1.43	0.004	0.02	0.4	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
148301	Soil	29	19	0.43	24	0.004	<1	1.19	0.004	0.02	0.8	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
147233	Soil	18	28	0.56	18	0.005	<1	2.08	0.003	0.02	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
147234	Soil	24	25	0.57	35	0.006	1	1.73	0.005	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
147235	Soil	26	32	0.84	28	0.002	<1	2.31	0.005	0.04	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
147236	Soil	23	30	0.81	36	0.004	<1	2.19	0.005	0.03	0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
147237	Soil	21	29	0.51	21	0.006	<1	1.80	0.004	0.02	<0.1	0.05	1.4	<0.1	<0.05	6	<0.5	<0.2
147238	Soil	16	21	0.37	27	0.006	<1	1.43	0.005	0.02	0.1	0.05	0.9	<0.1	<0.05	5	<0.5	<0.2
147239	Soil	26	29	0.80	34	0.003	<1	2.11	0.005	0.03	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
147240	Soil	27	27	0.71	29	0.010	<1	2.01	0.003	0.03	0.2	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
147241	Soil	25	32	0.76	21	0.008	<1	2.17	0.004	0.02	0.4	0.02	1.6	<0.1	<0.05	6	0.9	<0.2
147242	Soil	24	29	0.74	30	0.005	<1	2.31	0.008	0.03	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
147243	Soil	23	19	0.27	24	0.007	<1	1.22	0.006	0.02	0.2	0.04	0.7	<0.1	<0.05	6	<0.5	<0.2
147244	Soil	30	26	0.44	18	0.012	<1	1.85	0.006	0.02	2.3	0.03	1.5	<0.1	<0.05	7	0.6	<0.2
147245	Soil	17	22	0.35	25	0.008	<1	1.42	0.009	0.02	0.8	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
147246	Soil	23	24	0.27	13	0.016	<1	1.28	0.012	0.02	0.4	<0.01	1.0	<0.1	<0.05	11	<0.5	<0.2
147247	Soil	25	29	0.83	22	0.003	<1	2.10	0.008	0.03	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
147248	Soil	14	20	0.52	24	0.004	<1	1.52	0.008	0.03	0.2	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
147249	Soil	18	14	0.25	25	0.008	<1	1.11	0.012	0.03	0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
147250	Soil	3	3	0.05	10	0.012	<1	0.44	0.021	0.02	<0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
147251	Soil	4	3	0.06	17	0.010	<1	0.50	0.033	0.03	0.3	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
147252	Soil	3	4	0.05	13	0.010	<1	0.49	0.025	0.02	0.2	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11001306.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
147309	Soil	0.6	44.8	4.6	82	<0.1	35.2	18.0	724	3.03	<0.5	0.9	1.4	11.1	4	<0.1	0.2	0.3	20	0.15	0.073
REP 147309	QC	0.6	46.5	4.6	84	<0.1	36.6	18.6	743	3.16	<0.5	1.0	0.9	11.9	4	<0.1	0.2	0.3	21	0.15	0.075
147323	Soil	0.5	82.2	5.9	52	<0.1	23.3	12.5	466	2.20	0.7	0.9	0.9	0.8	8	<0.1	<0.1	0.3	16	0.06	0.049
REP 147323	QC	0.5	82.9	6.0	54	<0.1	23.7	12.8	471	2.27	0.8	1.0	0.9	0.8	9	<0.1	<0.1	0.2	17	0.06	0.048
130412	Soil	0.7	8.8	4.0	37	<0.1	30.5	7.6	324	2.93	1.5	0.6	6.5	8.4	6	<0.1	<0.1	0.2	19	0.01	0.033
REP 130412	QC	0.8	8.5	3.9	35	<0.1	30.6	7.5	313	2.84	1.6	0.6	4.6	8.0	6	<0.1	0.1	0.2	19	<0.01	0.032
130430	Soil	0.3	49.9	9.8	83	<0.1	31.6	17.1	610	4.14	4.6	1.4	3.8	15.9	6	<0.1	0.2	0.7	19	0.03	0.039
REP 130430	QC	0.3	47.7	9.5	82	<0.1	30.8	16.4	598	4.08	4.5	1.4	4.8	15.4	7	<0.1	0.2	0.7	20	0.03	0.039
148203	Soil	0.6	19.2	22.4	50	0.3	12.5	6.2	489	4.78	12.8	0.9	2.9	8.4	5	<0.1	0.3	0.8	17	0.01	0.079
REP 148203	QC	0.6	19.0	22.4	49	0.3	11.5	6.0	474	4.58	12.0	0.8	1.4	7.7	5	<0.1	0.4	0.7	10	<0.01	0.081
148216	Soil	0.7	46.8	55.4	109	<0.1	42.5	42.0	573	2.89	80.5	2.4	<0.5	6.9	7	<0.1	0.8	0.8	<2	0.02	0.053
REP 148216	QC	0.8	47.8	59.6	114	<0.1	42.8	42.3	575	2.89	82.1	2.6	2.7	8.0	7	<0.1	0.8	0.7	3	0.03	0.052
148219	Soil	1.2	71.6	92.7	142	0.2	47.1	47.2	1572	4.40	40.9	2.8	5.8	14.9	13	0.1	0.6	1.3	15	0.07	0.052
REP 148219	QC	1.2	77.0	96.0	153	0.2	49.6	49.7	1666	4.66	43.0	2.9	6.4	16.6	14	0.1	0.7	1.4	16	0.06	0.055
148241	Soil	0.7	13.6	6.1	32	<0.1	12.1	6.7	313	1.75	1.0	0.6	<0.5	1.1	3	<0.1	<0.1	0.2	11	0.02	0.028
REP 148241	QC	0.7	13.8	6.3	32	<0.1	12.7	6.8	315	1.75	1.0	0.6	<0.5	1.2	3	<0.1	<0.1	0.2	11	0.02	0.027
148259	Soil	0.6	15.8	8.6	54	<0.1	20.2	10.2	362	3.95	2.5	0.8	<0.5	6.6	4	<0.1	0.1	0.4	22	0.01	0.070
REP 148259	QC	0.7	16.1	8.7	53	<0.1	19.9	10.4	368	4.07	2.5	0.8	<0.5	6.8	4	<0.1	0.1	0.4	23	0.01	0.071
148276	Soil	0.9	66.8	5.9	81	<0.1	34.1	20.8	915	3.49	<0.5	1.3	<0.5	9.5	3	<0.1	<0.1	0.6	18	0.08	0.046
REP 148276	QC	0.7	67.6	5.9	83	<0.1	33.4	21.1	902	3.39	<0.5	1.3	<0.5	9.0	3	<0.1	<0.1	0.6	17	0.07	0.046
148288	Soil	0.4	19.0	5.6	62	<0.1	25.5	13.8	440	3.09	1.1	0.8	<0.5	8.7	7	<0.1	0.1	0.3	19	0.02	0.030
REP 148288	QC	0.5	20.1	5.7	69	<0.1	27.2	15.0	479	3.49	1.2	0.9	<0.5	9.8	9	<0.1	<0.1	0.4	22	0.02	0.030
147244	Soil	1.2	44.8	47.9	104	0.3	32.1	21.1	1038	5.99	30.6	1.6	<0.5	11.0	9	<0.1	0.6	1.3	24	0.02	0.130
REP 147244	QC	1.1	45.1	50.1	106	0.3	34.3	22.9	1103	6.32	30.7	1.7	0.6	11.1	9	0.1	0.7	1.4	25	0.02	0.132
Reference Materials																					
STD DS8	Standard	12.8	108.2	126.7	310	1.8	37.3	7.4	612	2.52	25.9	2.9	108.6	6.5	66	2.3	5.5	6.6	41	0.69	0.080
STD DS8	Standard	13.1	105.1	121.6	294	1.7	38.0	7.3	587	2.37	22.1	2.7	100.6	6.7	62	2.1	5.2	6.1	43	0.66	0.077
STD DS8	Standard	12.7	99.8	120.8	299	1.7	35.9	7.2	572	2.35	22.8	2.6	107.4	6.3	64	2.2	5.1	6.0	41	0.66	0.077



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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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
147309	Soil	20	31	0.85	26	0.012	<1	1.63	0.012	0.05	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
REP 147309	QC	21	31	0.86	28	0.014	<1	1.65	0.010	0.04	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
147323	Soil	14	17	0.37	33	0.007	<1	0.84	0.012	0.02	0.2	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
REP 147323	QC	16	19	0.37	34	0.009	<1	0.85	0.013	0.02	0.2	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
130412	Soil	34	55	0.27	25	0.014	1	0.82	0.006	0.02	0.2	0.01	0.7	<0.1	<0.05	5	0.5	<0.2
REP 130412	QC	32	52	0.25	21	0.012	<1	0.82	0.006	0.01	0.2	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
130430	Soil	46	28	0.56	31	0.007	<1	1.53	0.006	0.04	0.3	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
REP 130430	QC	48	28	0.58	28	0.009	<1	1.47	0.008	0.03	0.4	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
148203	Soil	25	19	0.22	13	0.005	<1	1.05	0.003	0.01	0.2	0.05	0.5	<0.1	<0.05	7	<0.5	<0.2
REP 148203	QC	27	19	0.22	14	0.006	9	1.06	0.003	0.01	0.3	0.04	0.6	<0.1	<0.05	7	0.9	<0.2
148216	Soil	18	18	0.37	23	0.010	<1	1.36	0.010	0.03	<0.1	0.04	0.8	<0.1	<0.05	4	0.6	<0.2
REP 148216	QC	16	18	0.38	22	0.005	<1	1.40	0.010	0.03	0.1	0.03	0.8	<0.1	<0.05	4	0.6	<0.2
148219	Soil	27	29	0.77	34	0.004	1	1.99	0.012	0.04	0.3	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
REP 148219	QC	29	30	0.81	34	0.003	1	2.13	0.010	0.04	0.5	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
148241	Soil	14	12	0.28	18	0.011	<1	0.90	0.012	0.02	<0.1	<0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
REP 148241	QC	14	13	0.28	18	0.010	<1	0.90	0.013	0.02	<0.1	<0.01	0.3	<0.1	<0.05	3	<0.5	<0.2
148259	Soil	26	24	0.43	17	0.014	<1	1.20	0.004	0.03	<0.1	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
REP 148259	QC	24	24	0.43	16	0.014	<1	1.16	0.005	0.02	<0.1	0.02	0.7	<0.1	<0.05	6	<0.5	<0.2
148276	Soil	16	30	0.85	23	0.019	<1	1.60	0.007	0.03	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
REP 148276	QC	14	28	0.82	24	0.017	5	1.52	0.006	0.03	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
148288	Soil	24	23	0.51	35	0.015	7	1.24	0.007	0.03	0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
REP 148288	QC	30	26	0.55	38	0.022	<1	1.32	0.007	0.03	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
147244	Soil	30	26	0.44	18	0.012	<1	1.85	0.006	0.02	2.3	0.03	1.5	<0.1	<0.05	7	0.6	<0.2
REP 147244	QC	31	28	0.45	20	0.013	<1	1.90	0.006	0.02	2.3	0.04	1.6	<0.1	<0.05	8	0.7	<0.2
Reference Materials																		
STD DS8	Standard	15	115	0.62	286	0.114	3	0.94	0.098	0.42	3.2	0.21	2.3	5.6	0.15	5	5.4	5.9
STD DS8	Standard	16	116	0.58	267	0.118	3	0.90	0.100	0.42	2.9	0.18	1.9	5.2	0.19	5	4.7	4.4
STD DS8	Standard	15	110	0.59	274	0.107	2	0.89	0.093	0.40	2.7	0.19	2.0	5.2	0.16	5	4.8	4.7



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard	11.0	99.8	107.9	284	1.5	33.7	7.0	530	2.18	22.8	2.4	145.9	5.7	59	2.0	5.3	5.6	37	0.58	0.076
STD DS8	Standard	13.5	116.0	128.6	315	1.8	41.3	8.3	646	2.55	25.6	2.9	124.5	7.2	70	2.3	5.8	6.6	47	0.69	0.079
STD DS8	Standard	13.4	108.6	116.8	309	1.7	36.4	7.4	596	2.37	24.5	2.8	118.4	6.9	68	2.2	5.6	6.6	41	0.67	0.075
STD DS8	Standard	12.8	102.2	113.0	303	1.6	36.1	6.9	567	2.26	21.6	2.6	114.6	8.3	79	2.1	7.1	9.0	42	0.65	0.077
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

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		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	13	102	0.53	246	0.104	2	0.80	0.081	0.38	2.6	0.17	1.7	4.6	0.12	4	4.3	4.5
STD DS8	Standard	15	124	0.63	272	0.119	2	0.95	0.113	0.42	3.0	0.21	2.4	5.5	0.15	5	5.3	5.3
STD DS8	Standard	16	114	0.59	271	0.117	3	0.92	0.099	0.42	2.8	0.19	2.5	5.2	0.14	5	4.7	4.7
STD DS8	Standard	18	114	0.53	247	0.141	2	0.84	0.084	0.38	2.6	0.18	2.6	4.8	0.16	5	4.7	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2